Dated 8-27-04

INVESTIGATION REPORT
FOR A
TARGETED BROWNFIELDS ASSESSMENT
AT THE
C&L INDUSTRIAL CLEANERS SITE
KENOSHA, WISCONSIN

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 5 Emergency Response Branch
77 West Jackson Boulevard
Chicago, IL 60604

TDD No.:	S05-0209-009
Date Prepared:	August 26, 2004
Contract No.:	68-W-00-129
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TN &A T N & Associates, Inc.
Engineering and Science

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NR 700 CERTIFICATION

"I, David S. Voight, certify that I am a hydrogeologist as that term is defined in s.NR712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in Chs. NR700 to 726, Wis. Adm. Code."

8/27/04

David S. Voight, PG, CPG
Senior Hydrogeologist

Date

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GLOSSARY OF TERMS AND ABBREVIATIONS

bgs	below ground surface
C&L	C& L Industrial Cleaners
COCs	chemicals of concern
CFR	Code of Federal Regulations
DCE	dichloroethylene
DQOs	Data Quality Objectives
ES	Chapter NR 140 Wis. Admin. Code Enforcement Standard
ESA	Environmental Site Assessment
FSP	Field Sampling Plan
FRTR	Federal Remediation Technologies Roundtable
IDW	investigation-derived waste
HSA	hollow-stem auger
ml	milliliter
ORP	oxidation reduction potential
PAH	polynuclear aromatic hydrocarbons
PAL	Chapter NR 140 Wis. Admin. Code Preventative Action Limit
PCE	tetrachloroethylene
PID	photoionization detector
PNA	polynuclear aromatic compound
ppb	parts per billion, micrograms per kilogram (ug/kg) for soil, or micrograms per liter (ug/L) for groundwater
ppm	parts per million, milligrams per kilogram (mg/kg) for soil, or milligrams per liter (mg/L) for groundwater
PRB	permeable reactive barrier
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
REC	recognized environmental concern
SOP	standard operating procedure
START	Superfund Technical Assistance and Response Team
STS	STS Consultants, Ltd.
SVE	soil vapor extraction
TBA	targeted brownfields assessment
TCE	trichloroethylene
TCLP	toxicity characteristic leaching procedure
TDD	Technical Direction Document
TN&A	T N & Associates, Inc.
U.S. EPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources

EXECUTIVE SUMMARY

T N & Associates, Inc. (TN&A), a subcontractor to Tetra Tech's Superfund Technical Assessment and Response Team (START), was tasked by United States Environmental Protection Agency - Region 5 (U.S. EPA) to provide the technical assistance needed to further evaluate the redevelopment potential of the C & L Industrial Cleaners (C&L) Site in Kenosha, Wisconsin. This work consisted of performing a targeted Brownfields assessment (TBA) in response to a request for assistance received from the City of Kenosha.

Industrial cleaning operations (involving the use of solvents) were formerly conducted at the C&L Site. A previous investigation found areas of soil and groundwater contamination within and adjacent to the building, and at a second location east of the building. Several chlorinated solvents were identified including tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2 dichloroethylene (DCE), trans-1,2-DCE, and vinyl chloride (VC).

The present study was performed to: (1) determine the extent of soil and groundwater contamination, (2) estimate likely contaminant volumes, (3) preliminarily assess site risk, (4) identify possible remedial alternatives, and (5) estimate the cost for further investigation and site cleanup. These objectives were accomplished by reviewing the available background investigation data, identifying data gaps and project data quality objectives, performing site investigation activities, and compiling the data obtained into this report. Recommendations for additional site investigation and cleanup are also provided.

Thirteen direct push soil borings were installed to an average depth of about 13 feet in and around the building area to further determine the extent of contamination. All borings were abandoned in accordance with regulatory requirements following the collection of soil and groundwater samples. In addition, three soil borings advanced by using hollow-stem auger (HSA) methods were installed during the TBA. (Each boring was completed as groundwater monitoring well to obtain additional information regarding the extent of groundwater contamination at the C&L Site). Seventeen soil samples were submitted to a state-certified laboratory for the following analyses: volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and metals. Thirteen groundwater samples collected from the pre-existing and new monitoring wells underwent analysis for VOCs and nickel.

The soils underlying the C&L Site consist predominantly of interbedded sand, silt, and clay overlying a continuous gray silty clay layer. The lowermost clay unit is believed to be part of the Oak Creek Till sequence, a regional aquitard. Depth to water was observed to range from about 5 to 12 feet below the ground surface (bgs). Based on prior groundwater elevation data, the inferred direction of groundwater flow at the C&L Site is towards the east and southeast.

The information obtained from the most recent investigation further confirms that significant groundwater contamination exists at the C&L Site. Based on the TBA results, it appears that up to three groundwater contaminant plumes are present, and that none are confined to the C&L Site. The first originates near Pit # 7 and extends for some distance southward. The second groundwater contaminant plume originates near the northern boundary of the C&L Site (loading dock area) and extends to the southeast. The third contaminant plume originates east of the loading dock area, and appears to extend to the south (and east) property boundaries. The easternmost contaminant plumes are likely due to indiscriminate spills at the property and possible unknown source area(s) located hydraulically upgradient (north) of the C&L property. The land area immediately north of the C&L Site is occupied by a stone building materials supply business (Stonewerks, LLC) located along Sheridan Road, and a fenced equipment storage area located behind the Stonewerks LLC building where construction equipment, campers and vehicles (some in poor condition) are located. A previous investigation noted that solvents and other chemicals were used on property immediately adjacent to the C&L Site. An unregistered, above-ground storage tank (contents unknown) was also reportedly located on the adjacent property, north of the C&L Site.

The C&L Site poses unacceptable environmental risk due to the nature and extent of contamination present in site media. Soils contaminated by organics or metals at the C&L Site pose a threat to site trespassers and workers, and the fact that the unknown sources exist further increases site risk. Based on the results of this investigation, it appears that more than 3,500 cubic yards of impacted soil are located at the C&L Site. Cleanup of the soil source area could possibly be accomplished by the excavation of the contaminated soil with off-site disposal or treatment. Of note, the possibility exists that about half of the impacted soil (when excavated) could be considered a hazardous waste requiring special handling and disposal measures. In-situ treatment methods shown to be effective in remediating soil contaminated with chlorinated solvents at other sites should be considered for the C&L Site.

Groundwater quality exceeds established groundwater quality standards at several locations requiring follow-up investigation and cleanup. The risk associated with the groundwater pathway is unknown; but since the C&L Site is located in the City of Kenosha, it appears unlikely that private wells and local groundwater receptors are located in the immediate site vicinity (the City of Kenosha receives its water from Lake Michigan). The risk associated with the potential migration of contaminated groundwater into the sump at a residence located immediately south of the C&L Site should be investigated, however (local land use is mixed residential and commercial/industrial). Based on available data, it appears that the groundwater contamination may cover more than three (3) acres. While some improvement in groundwater quality could be expected following source removal, the distribution of the contamination indicates that active remediation of the groundwater contamination may be necessary to restore groundwater quality to acceptable limits.

Additional investigation is required to further delineate the nature and extent of known or suspected contaminant sources. It is recommended that additional soil borings be completed at several locations to further define the extent of contamination. Additionally, supplemental monitoring wells are recommended to further define the site extent of the groundwater contamination. The cost to complete the supplemental investigation is estimated to total about $50,000.

1.0 INTRODUCTION

1.1 Overview

T N & Associates, Inc. (TN&A), a subcontractor to Tetra Tech's START, was tasked by U.S. EPA to provide the technical assistance needed to further evaluate the redevelopment potential of the C & L Industrial Cleaners (C&L) Site in Kenosha, Wisconsin. This work is being performed under Technical Direction Document (TDD) No. S05-0209-009 in response to a request for assistance received from the City of Kenosha (see Exhibit 1).

Under the Small Business Liability Relief and Brownfields Revitalization Act of 2002, the U.S. EPA continues to provide technical and financial support to municipalities, states, tribes, and other quasi-governmental agencies involved with the remediation, redevelopment, and reuse of real property, the expansion and redevelopment of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant (so called "brownfields" sites). One type of support provided by the U.S. EPA consists of performing Phase I and II environmental site assessments (ESAs) or targeted brownfields assessments (TBAs) that focus on determining who may have caused contamination at a brownfields site and the likely health and environmental risk associated with the property. This information can be used by the local governmental agency or eligible entity to make decisions regarding property acquisition, cleanup, and redevelopment.

The work performed under this TDD has consisted of START (TN&A) reviewing background information regarding the nature of historical operations conducted at the C&L Site as discussed in a Phase I ESA Report prepared by STS Consultants, Ltd. (STS, 2000) for the City of Kenosha, Department of City Development (report excerpts are provided in Appendix A). This information, along with the findings from subsequent subsurface investigation performed by STS (2001) has been used to identify key data gaps and develop the scope for this TBA. The project scope and objectives associated with the TBA at the C&L Site were presented in a work plan, which was submitted to the City of Kenosha and Wisconsin Department of Natural Resources (WDNR) on November 21, 2003. The work conducted was also performed in accordance with a Multi-Site TBA Work Plan prepared by START (TN&A, 2003).

1.2 Project Objectives and Approach

As identified in the TBA work plan, the overall objective of the U.S. EPA investigation was to further characterize the presence, nature, and extent of contaminant releases at the C&L Site. To meet these goals, START:

- Reviewed available data to identify remaining investigation data gaps
- Further delineated and characterized on-site waste materials
- Collected additional data to help define site geology and hydrogeology
- Further assessed the horizontal and vertical extent of contaminants of concern (COCs) in soil by collecting and analyzing soil samples within (or adjacent to) known or suspected contaminant source areas
- Further evaluated the horizontal and vertical extent of COCs in groundwater by sampling existing wells and new wells installed during the U.S. EPA investigation
- Completed a qualitative evaluation to generally assess the environmental risk posed by the C&L Site

Information obtained from the TBA investigation has also been used to preliminarily identify and assess remedial action objectives and potential remedial alternatives that will allow for site redevelopment.

1.3 Report Organization

Site background information is presented in the following section of this report (Section 2.0). Study considerations, work scope, and findings from the TBA are contained in Sections 3.0 through 5.0. Also contained in Section 5.0 is summary information regarding the fate and transport (and health risks) associated with the identified COCs at the C&L Site. Recommended supplemental investigation activities and potential remedial technologies that may be appropriate to address site impacts are discussed in Sections 6.0 and 7.0, respectively.

2.0 SITE BACKGROUND

The C&L Site is located at 8927 Sheridan Road in the City of Kenosha, Wisconsin (see Figure 1). According to information provided in the STS Phase I ESA Report (STS, 2000), the C&L Site encompasses approximately 2.9 acres. At the time of the site reconnaissance, STS noted a main building (with attached garage) occupying the west side of the property, with piles of concrete rubble occurring on the eastern half of the site (the on-site buildings have subsequently been removed from the property by the City of Kenosha).

Reportedly, the main building was occupied by C&L Industrial Cleaners from 1967 to 1995 and BBL Barrel Company in 1998. According to the STS report, C&L Industrial Cleaners was involved with carpet cleaning, while BBL Barrel Company sold industrial supplies. The C&L Site is currently owned by the City of Kenosha. Kenosha County took the property by Tax Deed (obtained from Bruce J. Chwala) on October 27, 1999. The County subsequently transferred the property to the City of Kenosha between January 13 and February 21, 2000.

In the Phase I ESA Report, STS noted the following recognized environmental conditions (RECs): (1) several pits in the floor of the main building and garage that contained sludge of unknown composition, a rust-like substance, or water; and (2) the presence of several 55-gallon drums located along the south and east sides of the shed. Potential RECs included: (1) solvents and other chemicals that were used on property immediately adjacent to the C&L Site; (2) an unregistered, above-ground storage tank (contents unknown) located on the adjacent property north of the C&L Site; and (3) mounds of concrete rubble east of the buildings ("fill materials"). (Excerpts from the STS report are contained in Appendix A). Based on these findings, STS recommended that a Phase II ESA be conducted at the C&L Site. The scope of the Phase II ESA included performing soil and groundwater investigation activities, laboratory analysis of sludge samples from pits located within the building, and completing an inventory of drummed wastes.

Fieldwork associated with the Phase II ESA was completed by STS between March-May, 2001. Drum inventory and sludge sampling activities were conducted concurrently with advancing five test pits on the undeveloped portion of the C&L Site. Subsequent work performed by STS included advancing soil borings using Geoprobe™ methods within the main building (with groundwater sampling). In total, 13 soil borings were complete, with six of the borings being completed as groundwater monitoring wells (B-3, B-5, B-6, B-7, B-12, B-16). All were constructed in accordance with Chap. NR 141 Wisconsin Administrative Code (Wis. Adm. Code) requirements. In general, the wells included a slotted screen installed approximately 5-15 feet bgs. STS's well construction information is contained in Appendix C.

The following summarizes key findings from the STS investigations:

- The C&L Site is underlain by up to 8 feet of fill materials (silty fine to coarse sand, wood, concrete, asphalt, and at some locations, tires, hubcaps, and other miscellaneous car parts). Reportedly, layers of organic silt, silty fine sand, silty fine to coarse sand, silt and silty clay are present below the fill.

- Groundwater occurs approximately 5 to 8.5 feet bgs. Groundwater flow across the C&L Site is primarily to the east (Figure 2).

- Low levels of petroleum-related volatile organic compounds (VOCs) were present in soil at four boring locations. The concentrations detected do not exceed regulatory screening criteria.

- Chlorinated VOCs are present in sludge and soil at concentrations exceeding regulatory criteria at several locations. Those identified include PCE, which is typically associated with dry cleaners from that period, as well as chemicals that result from the natural degradation of PCE: TCE; cis-1,2 DCE; trans-1,2-DCE; and VC.

- Two potential sources of PCE are located inside building: (1) pit #7 and (2) near the floor drain in the main garage area. Spillage of PCE appears to have also occurred outside the building at the following locations:

    < In the drum storage areas near the shed
    < At boring B-2, near the northern property line
    < At test pit TP-5 and near boring B-11

- Several chlorinated VOCs are present in groundwater at concentrations exceeding regulatory screening criteria established by the Wisconsin Department of Natural Resources (WDNR) in Chapter NR 140, Wis. Adm. Code. Those identified include PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; and VC.

A summary of the soil contamination identified by STS from direct push and test pits samples completed at the C&L Site is presented in Table 1. Laboratory results obtained from soil borings completed by STS are provided in Table 2, and those from sampling test pits at the site are contained in Table 3. A summary of compounds detected in groundwater at the C&L Site during the STS investigation is provided in Table 4. The estimated extent of soil and groundwater contamination as determined by STS is shown on Figures 3 and 4, respectively.

3.0 INVESTIGATION CONSIDERATIONS

3.1 Regulatory Objectives and Requirements

Chapters NR 140 and NR 700 Wis. Admin. Code states that all facilities, practices, and activities adversely affecting groundwater or soil quality are required to investigate, monitor, and remediate contamination when necessary. Such activities are required to meet one or more of the following regulatory objectives or requirements:

- Define the nature and extent of contaminated environmental media
- Comply with Chapters NR 140 and NR 700 Wis. Adm. Code
- Protect public health, welfare, and the environment
- Define and sample potable wells at risk from groundwater contamination
- Evaluate the need for changes or revisions to a facility's or site's monitoring, design, construction, operation, waste treatment, or disposal practices
- Evaluate the need for prohibition or closure and abandonment of a facility or site
- Meet Wisconsin Pollution Discharge Elimination System permits
- Evaluate the degree, extent, and environmental fate of groundwater contamination
- Evaluate and verify the remediation of soil and/or groundwater contamination

The Chapter NR 700 Wis. Adm. Code rules require that soil samples be collected to allow for representative site and contaminant characterization. Chapter NR 140 Wis. Adm. Code requires that groundwater samples be collected using the procedures described in the WDNR's *Groundwater Desk Reference* and accompanying *Field Manual.*

As required by the WDNR, environmental samples were analyzed by a laboratory certified and registered under Chapter NR 149 Wis. Adm. Code, which establishes minimum requirements for laboratories. The laboratory used during this TBA was U.S. Filter/Enviroscan, located in Rothschild, Wisconsin. To be consistent with U.S. EPA procedures, supplemental validation of the analytical data was performed to ensure that the data obtained met the data quality objectives (DQOs) established in the project work plan (TN&A, 2003a), Quality Assurance Project Plan (QAPP) addendum, and Field Sampling Plan (FSP)(TN&A, 2003c).

The information contained in Chapters NR 140 and NR 700 Wis. Adm. Code already includes many of the important aspects of the DQO decision process including identifying what data are needed, the study boundaries and investigation requirements, the response alternatives evaluation, decision process, and action levels for soil. Chapter NR 140 Wis. Admin. Code specifies groundwater quality standards for substances detected in groundwater (action or cleanup levels). NR 700 Wis. Admin. Code rule series includes a discussion of the process that responsible parties must follow to report, investigate and clean up soil and groundwater contamination.

4.0 TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

4.1 Sampling Considerations

This TBA was performed in accordance with a FSP, which was developed in substantial accordance with Chapter NR 716 Wis. Adm. Code. Information contained in this plan included: (1) the TBA site investigation approach, (2) the scope of the field investigation, (3) planned sampling and analysis requirements, and (4) health and safety protocols to be used by field personnel during performance of the TBA. Standard operating procedures (SOPs) to be followed during the TBA field investigation are included.

Based on the information contained in the STS reports, the scope of the additional investigation performed at the C&L Site focused on further characterization of local soil types, site hydrogeology, the extent of soil and groundwater contamination, applicable waste disposal criteria and requirements, and other information needed to assist the City of Kenosha develop plans for the assessment, cleanup, and redevelopment of this site. The specific data gaps targeted during TBA activities consisted of:

- Further identifying known and suspected contaminant sources to identify affected media and extent of contamination
- Further characterizing known or suspected contaminant source areas to identify applicable waste disposal criteria and requirements
- Conducting further contaminant characterization studies to assess the extent of soil and groundwater contamination at this site
- Collecting additional information regarding local soil types to assess subsurface controls on contaminant occurrence and contaminant movement
- Further characterizing site hydrogeology for the purpose of assessing background groundwater quality, local groundwater flow direction, and groundwater contaminant migration pathways
- Collecting other information as needed to identify and evaluate potentially applicable approaches for remediating the site to a level that allows for subsequent redevelopment

Further discussion regarding the work completed during this TBA is provided as follows.

4.2 Additional Soil Characterization

Soil boring and soil sampling were performed by START (TN&A) at the C&L Site between December 11-13, 2003. In general, this work consisted of installing direct push borings (typically to a 15-foot depth) at locations inside and outside of the main building area where soil contamination was known (or suspected) to occur. The objective of this work was to provide additional information needed to assess the nature and extent of soil contamination beneath the building footprint (the building was removed during 2003; a concrete slab remains in this area). In addition to this work, the TBA included the completion of three soil borings by using standard HSA drilling methods. The primary purpose of installing the HSA borings was to obtain additional soil characterization data and allow for the subsequent installation of groundwater monitoring wells.

Approximate boring locations are shown on Figure 5. Direct push borings completed using Geoprobe™ methods are identified as GP- and conventional HSA borings are designated as SB-.

Soil samples were collected from each boring at 2-foot increments, from the ground surface to the total depth of the boring. Each soil sample was field screened for the presence/absence of select ionizable VOCs by using headspace methods employing a photoionization detector (PID). Completed soil boring logs are contained in Appendix B. Specific observations made during the additional soil characterization effort are summarized below.

4.2.1 Geoprobe Borings

The TBA performed at the C&L Site included the installation of 13 Geoprobe borings as discussed below:

- GP-1: Installed near the source location inside the building footprint. The boring was drilled to 12 feet bgs. The soils were mostly silty sand and sandy silt, with a sand seam about 2.5 feet thick at a depth of 8.5 feet bgs.
- GP-2: Installed east of GP-1. The driller encountered a concrete slab about 4-inches under the surface slab, with the boring reaching a total depth of 12 feet bgs. The soils encountered at this location ranged from sand to clay. At this location, the same sand seam as noted for GP-1, measured about 3.5-feet thick (present between 6 and 9.5 feet bgs).

- GP-3: Completed south of GP-2 near the building floor pit areas. This boring, which reached a depth of 15-feet bgs, encountered primarily sand and clay. A sand seam was noted between 9 feet and 13 feet bgs.
- GP-4: Installed east of GP-2 and was drilled to 12 feet bgs. A 1-foot sand seam was encountered about 4 feet bgs. The saturated section penetrated at this location consisted of silty sand material.
- GP-5: Completed off the south edge of the concrete slab, south of GP-3. The saturated soil material encountered consisted of silty sand overlying silty clay.
- GP-6: Completed near the southeast corner of the building slab. Problems were encountered when the driller pulled the drill string from the borehole and the hole collapsed and could not be advanced beyond 16 feet bgs. No sand seam was encountered. The saturated sediments encountered at this location consisted of silty clay.
- GP-7: Installed on the north edge of the slab and was drilled to 12 feet bgs. The saturated material at this location consisted of silty sand (to 10 feet bgs) underlain by clay.
- GP-8: Completed east of GP-7 along the north edge of the building slab (12 feet deep). Silty sand was encountered between 4.5 feet bgs and 10 feet bgs overlying gray clay.
- GP-9: Located near the north property line in the vicinity of a "hot spot" noted in the previous investigation. This 12 foot deep boring encountered fine sand layered between 6 feet bgs and 9 feet bgs. The lowermost foot of the sand layer was saturated.
- GP-10: Located north and east of GP-9, was completed at a depth of 12 feet bgs. A fine sand layer was encountered between 7.5 feet bgs and 11 feet bgs.
- GP-11: Completed south of GP-10, east of the building slab. The boring, which was completed to a depth of 12 feet, encountered fine sand between 8 feet and the bottom of the boring.
- GP-12: Installed south and east of GP-11 and was completed at 12 feet bgs. A 6-inch sand layer was encountered at 9 feet bgs. The remaining soils typically consisted of clay or silty clay.
- GP-13: Completed south of GP-11 near the southern property line (depth of 12 feet bgs). A fine sand layer encountered between 7 feet and 11 feet bgs was underlain by silty clay at the bottom of the boring.

Following sampling, each boring was abandoned in accordance with NR 141 Wis. Admin. Code requirements. Copies of the completed boring abandonment forms are contained in Appendix G.

4.2.2 Groundwater Monitoring Wells

Three monitoring wells were drilled to augment the existing monitoring well network:

- Well MW-1 was completed to determine whether soil impacts in the area of boring B-2 (near north property boundary) affected groundwater quality and assess groundwater flow direction.
- Well MW-2 was completed to assess groundwater flow and groundwater quality south of the main building, between boring locations B-3 and B-4 (within an apparent groundwater contaminant plume).
- Well MW-3 was completed to better define groundwater flow direction at the presumed downgradient extent of the groundwater contaminant plume and/or to determine whether off-site contaminant movement was indicated.

Two work plan modifications were made while in the field due to logistical issues. MW-3 was moved from the southeast corner of the property to a location further west (the original location proved inaccessible to the drill rig). MW-2 was proposed to be completed at the south property line but numerous utilities (underground and overhead) prevented well installation at this location. MW-2 was installed at the south east corner of the building slab, about 10-feet north of the original location.

Each well boring was advanced to a depth of about 15.5 feet bgs using HSA methods. The soil encountered in each boring was similar to that encountered in the Geoprobe borings, consisting of a sandy layer near at (or near) the water table that is underlain by a gray clay near the bottom of the boring.

Completed well construction diagrams are contained in Appendix C. As shown, each new monitoring well was constructed of 2-inch polyvinyl chloride (PVC) with a 10-foot long section of slotted PVC screen. Each was completed at the ground surface with an approximate 3-foot stick-up and protective casing.

4.2.3 Soil and Groundwater Sampling

Soil and groundwater sampling was performed in accordance with the project work plan, except for the following:

The Geoprobe soil samples were preserved in methanol and analyzed for VOCs using U.S. EPA Method 8021 (as planned). Additionally, the soil samples collected from the monitoring well borings were analyzed for VOCs by using U.S. EPA Method 8260. To verify that the project DQO's were met, the soil analytical results were compared to one another and established regulatory evaluation criteria (i.e., values provided in NR 720 Wis. Admin Code, or default U.S. EPA Region 9 preliminary remediation goals [PRGs]). Based on this data, the soil analytical results were determined to meet the project DQOs. Similarly, the groundwater samples obtained during the TBA underwent VOC analysis by using U.S. EPA Method 8260 followed by testing using EPA Method 8021. Comparison of the results to one another and the established regulatory evaluation criteria (Chap. NR140, Wis. Admin. Code) has shown that the groundwater analytical results also met the project DQOs.

All samples collected for laboratory analysis were placed on ice and transported to the selected analytical laboratory (U.S. Filter/Enviroscan) under chain-of-custody procedures. Well development and sampling forms are contained in Appendix D, and chain-of-custody forms are presented in Appendix E. The soil and groundwater analytical test results obtained from the TBA are contained in Appendix F and summarized in Tables 7-8. The inferred aerial extent of soil and groundwater impacts is shown on Figures 6-8, and such occurrences are further described in Sections 5.4 and 5.5, respectively.

Geoprobe Sampling

Soil and water samples were collected from the Geoprobe borings prior to their abandonment. A peristaltic pump was used to collect water samples from temporary casing installed in each Geoprobe borehole (samples were collected after the water had cleared). Select soil samples showing evidence of contamination or from the greatest depth above the water table were submitted to the lab for VOC analysis (U.S. EPA Method 8021). The investigation included laboratory analysis of select soil samples for polynuclear aromatic compounds (PNAs) (U.S. EPA Method 8310) and total nickel (U.S. EPA Method 6010).

Monitoring Well Sampling

Soil samples were collected from the three hollow-stem auger borings that were completed prior to well installation. Select soil samples showing evidence of contamination or from the greatest depth above the water table were submitted to the lab for VOC analysis (U.S. EPA Methods 8021 and 8260). The investigation included laboratory analysis of select soil samples for polynuclear aromatic compounds (PNAs) (U.S. EPA Method 8310) and total nickel (U.S. EPA Method 6010).

Groundwater samples were collected from all site-monitoring wells by using low flow sampling techniques (sampling of the new wells occurred after each had been developed). As with the Geoprobe borings, groundwater was purged from each well by using low flow sampling methods. Groundwater was pumped at an approximate rate of 100 milliliters per minute through a flow through cell and the stabilization of various field parameters documented prior to sampling (measured field parameters consisted of dissolved oxygen, temperature, pH, oxidation-reduction potential, conductivity and turbidity). The groundwater sample obtained from each well was subsequently submitted to the lab for VOC analysis (U.S. EPA Methods 8021 and 8260), and selectively, for PNAs (U.S. EPA Method 8310) and dissolved nickel (U.S. EPA Method 6010).

Groundwater elevation measurements were obtained following well development activities. Depth to water and water elevation measurements from the STS and START investigations are provided in Table 5 and discussed further in Section 5.0.

4.3 Additional Waste Characterization

The pit sludge sampling results obtained by STS are provided in Table 3. The wastewater contained in Pit #3 underwent laboratory testing using toxicity characteristic leaching procedure (TCLP) methods to determine whether this waste exhibited potentially hazardous characteristics. STS's comparison of the lab results obtained to Title 40 of the *Code of Federal Regulations* (CFR), Part 261.24, Table 1, "Maximum Concentration of Contaminants for the Toxicity Characteristics" showed that the wastewater did not contain detected constituents at concentrations exceeding TCLP regulatory levels. The analysis performed by STS included an evaluation of the solid samples from Pits #1, #4, #5, #6 and #7. This evaluation consisted of

STS comparing the total analyte concentrations to the TCLP threshold values which incorporated a twenty-fold dilution into the analytical method[1]. In their report, STS concluded that solid samples from all five test pits would theoretically exceed their respective limit for cadmium, chromium, and lead (e.g., the samples contain potentially hazardous levels of these constituents). In addition, the sample from Pit #1 contained barium and selenium concentrations that would theoretically exceed TCLP limits. The sample from Pit #7 contained selenium and PCE concentrations that would theoretically exceed TCLP limits.

The U.S. EPA performed a removal action at the C&L Site during April 2003. This work consisted of waste disposal activities and limited inspection to assess the general condition (and possible interconnection) of the waste pits located within the former building area.

A composite sample of the investigation-derived waste (IDW) generated during the STS was collected during the TBA to assess waste characteristics and disposal options. The waste characterization results obtained by START appear in Appendix H and are discussed further in Section 5.6.

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1 STS reported that only those solid samples containing constituent concentrations more than twenty times the TCLP limit would theoretically exceed their respective TCLP limit; using the methodology described in EPA Pub. 540-R-94-005a, entitled *"Use of Total Waste Analysis in Toxicity Characteristic Determinations"*.

5.0 EVALUATION OF SITE CONDITIONS

5.1 General Approach and Assumptions

Information obtained during the STS investigations has shown that elevated concentrations of various chlorinated compounds (i.e., PCE; TCE; 1,2-cis DCE; 1,2- trans-DCE; and VC) occur in the soil and groundwater at the C&L Site. Maximum contaminant levels establishing the amount of PCE, TCE, DCE and VC that can be present in drinking water before unacceptable risk is posed to human health and the environment have been developed by the Wisconsin DNR and/or the U.S. EPA.

The evaluation criteria that have been used during this TBA to assess site impacts consist of risk-based standards that consider protection of human health and the environment. Specific exposure scenarios considered consist of: (1) the exposure to human health resulting from directly contacting the contaminated soil, (2) the potential for soil contaminants to leach to groundwater and adversely affect groundwater quality, and (3) the risk associated with the groundwater ingestion. Due to adjacent residences, the future land use scenario considered in this evaluation was residential.

5.2 State and Federal Risk Based Evaluation Criteria

Rules and guidance addressing the specific process used in Wisconsin to evaluate data in making determinations regarding whether cleanup will be necessary. During this TBA, the following evaluation methodology was used:

Soil: Contaminant concentrations present in soil are compared to direct contract pathway values established for residential sites, given in NR 720, Wis. Adm. Code. When absent, U.S. EPA Region 9 PRGs were used as preliminary remediation goals. This evaluation included an assessment of the groundwater pathway by using the soil leaching evaluation criteria that consider the protection of groundwater quality (see NR 720 Wis. Adm. Code or default U.S.

EPA Region 9 PRG screening criteria)[1].

Groundwater: Contaminant concentrations present in groundwater are compared to established NR 140 Wis. Admin. Code preventative action limits (PALs) and enforcement standards (ESs). The ES is a numerical value that considers the risk chemicals pose to human receptors due to groundwater ingestion. The PAL is an action level that indicates potential risk.

These aforementioned risk-based criteria have been used in this report to assess the likely significance of the contamination at the C&L Site. This information has also been used to identify future actions that may be considered appropriate to restore contaminated soil and groundwater to levels that meet regulatory health criteria and will allow for subsequent site redevelopment.

5.3 General Information Regarding COCs

During this TBA, the physical and chemical properties of the COCs identified at the C&L Site were evaluated. Provided in this section is general summary of the nature of these chemicals, as well as information regarding their chemical fate and transport in the natural environment. Possible health risks associated with these compounds is provided, along with a preliminary evaluation of the apparent risk to human health and the environment posed by site contaminants

- **Tetrachloroethylene (PCE)**

PCE is a manufactured chemical used for dry cleaning and metal degreasing. Much of the tetrachloroethylene that gets into water or soil evaporates into the air. Microorganisms can break down some of the PCE in soil or groundwater. Under anaerobic conditions, reductive dehalogenation of PCE occurs, producing (in order) the following degradation products: TCE; cis- or trans-1,2-DCE; and VC. In the air, PCE is broken down by sunlight into other chemicals

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1 It should be noted that the data evaluation criteria used during this investigation were selected to provide consistency with the evaluation methods previously used by STS. The methodology that needs to be followed to obtain closure for contaminated sites in Wisconsin is outlined in PUB RR-682, *Determining Residual Contaminant Levels Using the EPA Soil Screening Level Web Site*. This approach allows for the calculation of site-specific residual contaminant levels that are protective to human health and the environment.

or brought back to the soil and water by rain. It does not appear to collect in fish or other animals that live in water.

Human exposure to very high concentrations of tetrachloroethylene can cause dizziness, headaches, sleepiness, confusion, nausea, difficulty in speaking and walking, and unconsciousness. The U.S. EPA lists PCE as a toxic chemical because it causes nerve and organ damage and possibly causes cancer in humans. The National Institute for Occupational Safety and Health (NIOSH) recommends that PCE be handled as a potential carcinogen and that levels in workplace air should be as low as possible.

The maximum concentration of PCE present in the soil at the C&L Site is 322 mg/kg, identified at location CL-G1-S04 during the STS investigation. This concentration greatly exceeds the U.S. EPA Region 9 PRG of 1.5 mg/kg (direct contact, residential land use). A maximum concentration of 1,130 μg/L PCE was detected in a groundwater sample obtained during the TBA (GP-1). This concentration greatly exceeds the NR 140 ES for PCE (5 μg/L).

- **Trichloroethylene (TCE)**

TCE is a nonflammable, colorless liquid with a somewhat sweet odor and a sweet, burning taste. It is used mainly as a solvent to remove grease from metal parts, but it is also an ingredient in adhesives, paint removers, typewriter correction fluids, and spot removers. Drinking or breathing high levels of TCE may cause nervous system effects, liver and lung damage, abnormal heartbeat, coma, and possibly death.

TCE easily dissolves in water, and it remains there for a long time. TCE quickly evaporates from surface water, so it is commonly found as a vapor in the air. TCE evaporates less easily from the soil, where it may stick to particles and remain for a long time.

Some studies with mice and rats have suggested that high levels of TCE may cause liver or lung cancer. Some studies of people exposed over long periods to high levels of TCE in drinking water or in workplace air have found evidence of increased cancer. However, because these are inconclusive, the International Agency for Research on Cancer has determined that TCE is not a human carcinogen.

The maximum concentration of TCE present in the soil at the C&L Site is 0.271 mg/kg, identified at location CL-B06-S01 during the STS investigation. This concentration greatly exceeds the U.S. EPA Region 9 PRG of 0.053 mg/kg (direct contact, residential land use). The maximum concentration of TCE detected in groundwater during the TBA was 2.48 µg/L at location GP-1. This concentration exceeds the NR 140 PAL for TCE (0.5 µg/L), but not the NR140 ES for TCE (5 µg/L).

- **Cis- and Trans-1,2-Dichloroethylene**

1,2-Dichloroethylene, also called 1,2-dichloroethene, is a highly flammable, colorless liquid with a sharp, harsh odor. There are two forms of 1,2-DCE: cis-1,2-DCE, and trans-1,2-DCE and sometimes both forms are present as a mixture. Commercial use is not extensive, but trans-1,2-DCE and mixtures of cis- and trans-1,2-DCE have been used as intermediates in the production of other chlorinated solvents and compounds, as well as low temperature extraction solvents for dyes, perfumes, and lacquers. Additionally, cis- and trans-1,2-DCE react violently with potassium hydroxide, sodium, and sodium hydroxide and can form shock-sensitive explosives. Breathing high levels of cis-1,2-DCE can cause nauseous, drowsiness, and tiredness in humans; very high levels can cause death. Breathing high levels of trans-1,2-DCE has caused liver, lung and heart damage in animals.

No cancer bioassays or epidemiological studies were available to assess the carcinogenicity of 1,2-DCE. The U.S. EPA has categorized cis-1,2-DCE as a non-carcinogen to humans, based on the lack of or negative human or animal cancer data. Trans-1,2-dichloroethylene has not been completely evaluated yet to assess human carcinogenic potential.

The maximum concentration of cis-1,2-DCE present in the soil at the C&L Site is 10.8 mg/kg, identified at location CL-B06-S02 during the STS investigation. This concentration is below the U.S. EPA Region 9 PRG of 43 mg/kg (direct contact, residential land use). The maximum concentration of cis-1,2-DCE detected in groundwater during the TBA was 224 µg/L at location MW-3. This concentration exceeds the NR 140 ES for cis-1,2-DCE (70 µg/L).

The maximum concentration of trans-1,2-DCE present in the soil at the C&L Site is 0.399 mg/kg, identified at location CL-B06-S02 during the STS investigation. This concentration is below the U.S. EPA Region 9 PRG of 69 mg/kg (direct contact, residential land use). The maximum concentration of trans-1,2-DCE detected in groundwater during the TBA was 26.4 µg/L at location MW-1. This concentration is below the NR 140 ES for trans-1,2-DCE (100 µg/L), but exceeds the NR 140 PAL of 20 µg/L.

- **Vinyl Chloride** (VC)

Vinyl chloride (also known as chloroethene, chloroethylene, and ethylene monochloride) is a colorless, flammable gas at normal temperatures with a mild, sweet odor. It is a manufactured substance that is used to make PVC plastic products (including pipes, wire and cable coatings, and furniture upholstery). VC also results from the breakdown of other substances, such as trichloroethane, TCE and PCE.

Breathing high levels of vinyl chloride for short periods of time can cause dizziness, sleepiness, unconsciousness, and at extremely high levels can cause death. Breathing VC for long periods of time can result in permanent liver damage, immune reactions, nerve damage, and liver cancer. The U.S. EPA has listed VC as a known human carcinogen.

The maximum concentration of VC present in the soil at the C&L Site is 0.221 mg/kg, identified at location CL-B06-S02 during the STS investigation. This concentration greatly exceeds the U.S. EPA Region 9 PRG of 0.079 mg/kg (direct contact, residential land use). The maximum concentration of VC detected in groundwater during the TBA was 8.76 µg/L at location MW-3. This concentration exceeds the NR 140 ES for vinyl chloride (0.2 µg/L).

5.4 Soil Contamination Assessment

5.4.1 STS Consultants

The soil contamination assessment performed by STS at the C&L Site showed that low levels of petroleum-related VOCs occur in the soil at four boring locations. The observed concentrations did not exceed regulatory screening criteria, however. In addition, STS noted that chlorinated VOCs are present in sludge and soil at concentrations exceeding regulatory criteria at several locations. Those identified include PCE, as well as TCE, cis-1,2-DCE, trans-1,2-DCE and VC. Contaminant distributions observed at Pit #7 and the area near the floor drain in the main garage area suggest both are likely PCE source areas. The data collected by STS also indicates that PCE spills occurred outside the building in the drum storage areas (near shed), at boring B-2, near the northern property line and at test pit TP-5 (near boring B-11). The estimated extent of chlorinated VOCs in soil as determined by STS is shown on Figure 3.

5.4.2 START (TN&A)

During the TBA, one soil boring (GP-1) was completed in the vicinity of the waste pits. This boring contained 50 mg/kg PCE, confirming high levels of soil contamination in this area (see Figure 6). Field screening performed in this area with a photoionization detector (PID) did not identify the presence of select ionizable volatile organics in soil (these results were consistent with STS's field data; during the TBA, elevated PID measurements were limited to those identified during the field screening of the boring for well MW-3). No other stain, odor, or other potential indications of soil contamination were identified while in the field.

Soil samples collected further east (near the loading dock area) contained cis-1,2-DCE at levels below regulatory limits at borings GP-9, GP-10, and GP-11. The soil from boring GP-11 was also found to contain 0.504 mg/kg TCE, exceeding the direct contact (residential) screening level of 0.05 mg/kg established for TCE. Several soil samples taken at locations between the waste pit area and the loading dock did not contain elevated chlorinated VOC levels, indicating the likely presence of two (or more) source areas.

While the nature and extent of soil contamination has not been fully evaluated, the information obtained during this investigation has helped to define the areas of impact at the C&L Site (i.e., it is estimated that 3,400 to 4,000 cubic yards of contaminated soil may be present). The release of spent chlorinated solvent from one or more underground pit areas at the plant site indicates that the affected soil in this area is likely a listed hazardous waste. The source of the contamination near the loading dock area is not known but is likely due to indiscriminant spills.

5.5 Assessment of Groundwater Contamination

5.5.1 STS Consultants

A summary of compounds detected in groundwater at the C&L Site during the STS investigation is provided in Table 4, and STS's estimate of the extent of groundwater contamination is shown on Figure 4. The earlier data collected by STS is shown together with the data collected during the TBA on Figure 7.

Based on the STS investigation, chlorinated VOCs (PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; and VC), PNAs (benzo(a) and benzo(b)fluoranthene), and metals (nickel) exist in site groundwater at concentrations above WDNR NR 140 groundwater quality standards. Groundwater monitoring well measurements and elevations obtained during the STS investigation indicate a potential for the existing groundwater contamination to extend beyond the C&L Site, necessitating further investigation to assess the nature and extent of the contamination.

5.5.2 START (TN&A)

The three monitoring wells installed during the TBA (MW-1, MW-2, MW-3) were completed to further define groundwater flow direction and groundwater quality. The information obtained during the TBA confirms that significant groundwater contamination exists at the C&L Site. While groundwater elevation data for the newly-installed wells have not yet been obtained, the possibility of off-site groundwater impacts is supported by the groundwater quality data obtained during this TBA.

The inferred extent of chlorinated VOC contamination in groundwater is shown on Figure 7. Based on the information obtained at the C&L Site, it appears that up to three groundwater contaminant plumes are present, and that none are confined to the C&L Site. The first groundwater contaminant plume (designated Plume A) originates near Pit # 7 and extends for some distance southward. This plume is characterized by the presence of high concentrations of PCE (to 1,130 ug/L) greatly exceeding the NR140 ES of 5 ug/L. Cis-1, 2-DCE is present within Plume A at levels exceeding the NR140 PAL. The second groundwater contaminant plume

(Plume B) originates near the northern boundary of the C&L Site and extends southeast. This plume is defined by the presence of cis-1,2-DCE, trans-1,2-DCE, and VC at locations near the loading dock area (B-2, B-5, B-6 and MW-1). Wells B-12 and MW-3, located hydraulically downgradient of the loading dock also encountered contamination. The chlorinated VOCs present in Plume C are similar to those observed for Plume B (VC concentrations are higher, however). The presence of nearly uniform cis-1,2-DCE concentrations within Plume B and C may suggest a continued source of contamination from one (or more) sources. Based on contaminant distributions, it appears likely that the origin of Plume B is an unknown source area located hydraulically upgradient (north) of the C&L property (as noted previously, a equipment storage yard is located on the adjacent property, north of the C&L Site). An unknown on-site (or off-site) source is indicated for Plume C. Based on present information, it is estimated that the area impacted by contaminated groundwater exceeds three acres.

5.6 Investigative-Derived Waste Characterization

5.6.1 STS Consultants

Thirteen drums containing IDW generated during the STS investigation were located at the C&L Site prior to the TBA. To allow for the disposal of this material, START collected a sample from each drum, which was then homogenized in a stainless steel bowl, and then placed in the appropriate sample containers (and in coolers on ice) for shipment to the laboratory. The coolers were submitted under chain-of custody protocols for waste characterization analysis (Waste Management Protocol B parameters).

Initially, the composite waste sample underwent testing for ignitability, corrosivity and reactivity characteristics. This was accomplished by measuring flash point, total solids, specific gravity, pH, free liquids, and chloride content. TCLP test methods were then used to determine whether the waste exhibited toxicity characteristics due to its leaching potential. The following tests were performed: TCLP VOCs, TCLP metals, TCLP semi-volatile organics, and TCLP pesticides/herbicides. In addition, the sample underwent testing for polychlorinated biphenyls, reactive cyanide, and reactive sulfide.

The waste characterization results obtained are presented in Appendix H. This testing has shown that the STS waste does not exhibit ignitability, corrosivity, or reactivity characteristics. While the waste contained PCB-1246, the concentration detected (7.2 ppm) did not exceed the hazardous threshold of 50 ppm. Leachable levels of VOCs, SVOCs, pesticides and herbicides were not detected, and the concentrations of all metals were below leaching potential hazardous threshold criteria given in 40 CFR Part 261.24. Based on this information, the IDW is not hazardous, and can be transported to a permitted, off-site landfill facility for disposal.

5.6.2 START (TN&A)

Eight drums of IDW were generated during the TBA field investigation. Five of the drums contain soil IDW generated during soil boring activities. The remaining drums contain well development and purge water. Based on the analytical data obtained during the TBA, the IDW generated during the TBA is nonhazardous. Plans are to transport the containerized soil and water to Advanced Waste's ChemWorks Treatment Facility in Milwaukee, Wisconsin (or to another suitable, permitted facility).

5.7 Preliminary Evaluation of Site Risk

5.7.1 Risks Due to Soil Impacts

The soils at the C&L Site that are contaminated by organics or metals pose a threat to site trespassers and workers. The likelihood that other unknown sources may be present at the C&L Site further increases site risk. At a minimum, the existing concrete slab present over the main building area should remain in place until the nature and extent of soil contamination is better understood and a remedial strategy for addressing the contaminated soil in this area can be developed and implemented.

5.7.2 Risks Due to Groundwater Impacts

The risk associated with the groundwater pathway is unknown. Because the C&L Site is located in the City of Kenosha, it is unlikely that private wells are located in the immediate site vicinity (water supplies for the City of Kenosha are obtained from Lake Michigan). An exception is the possibility that contaminated groundwater may be migrating to a sump located in an adjacent residence, approximately 25-50 feet south of the C&L Site. Given that the surrounding area is developed, further investigation of this and other potential groundwater contamination migration pathways should be performed.

The WDNR requires that a number of response actions be taken when a NR 140 ES is exceeded. This is especially true when the groundwater contamination is not limited to the property. Typically, the presence of a NR 140 ES requires the owner or operator of the facility to: (1) notify the WDNR in writing, and (2) take the action necessary to prevent any new releases and restore the contaminated groundwater within a reasonable period of time. Response actions may include administrative/institutional controls, active treatment, and in some instances, the collection of data to determine whether natural attenuation can be effective in restoring groundwater quality within a reasonable time period.

6.0 RECOMMENDATIONS FOR FURTHER STUDY

6.1 Study Area Recommendations

Additional investigation is required to further delineate the nature and extent of known or suspected contaminant sources. Based on existing data, it is recommended that additional Geoprobe borings be completed at several locations to further define the extent of soil contamination. The installation of additional groundwater monitoring wells is also recommended to further define the site extent of groundwater contamination. The proposed supplemental investigation locations are shown on Figure 8. The scope of these activities is further described below.

6.1.1 Plume Area A (Test Pit Source Area)

Direct Push Borings

- Complete Geoprobe borings at four locations to further define the extent of the volatile organic groundwater plume (spatially arrange the borings north, west, southwest, and south of the mapped plume area).
- Complete additional Geoprobe borings at three locations within the contaminant source area (near Pit #7) to help evaluate potential hazardous characteristics and assess potential remedial options.
- Advance each borehole until the underlying clay layer is encountered (about 15 feet bgs).
- Continuously obtain and log soil samples (perform headspace VOC screening).
- Collect and analyze two soil samples per boring (14 samples). Analyze each for VOCs (U.S. EPA Method 8021). In addition, send two of the samples from the source area to the lab for TCLP testing.
- Collect a groundwater sample from each groundwater plume delineation location (four samples). Analyze each for VOCs (U.S. EPA Method 8021).

Monitoring Wells

- Install a water table well near the southwest corner of the property to determine off-site contamination migration potential (total depth of 15 feet bgs).
- Install a water table well near the northwestern corner of the property to establish on-site background water quality (total depth of 15 feet bgs).
- Install a deeper well (piezometer) adjacent to an appropriate water table well to assess soil conditions at depth as well as the vertical component of groundwater (contaminant) movement (total depth of 25 feet bgs). Two possible locations are recommended for further

evaluation: (1) near B-3 to evaluate water quality at depth (the potential exists however to drag the contamination identified at this location to a greater depth during boring installation); or (2) near MW-2, where there is a reduced potential of encountering contamination.

- Perform VOC headspace screening on the collected soil samples.
- Collect and analyze two soil samples from each boring. Analyze each for VOCs (U.S. EPA Method 8021).
- Collect a groundwater sample from each well, and analyze for VOCs (U.S. EPA Method 8021).

6.1.2 Plume Area B (Loading Dock Area)

Direct Push Borings

- Complete Geoprobe borings at three locations east of the former building area to further define the nature and extent of the on-site volatile organic groundwater plume.
- Complete Geoprobe borings at three locations north of the former loading dock area (north of boring B-2) to evaluate off-site groundwater quality (potential off-site contaminant source).
- Complete Geoprobe borings at three off-site locations to help determine the nature and extent of groundwater quality impacts southeast (hydraulically downgradient) of the apparent source area.
- Complete an additional Geoprobe boring within the contaminant source area (near boring B-2) to help evaluate potential hazardous waste characteristics and assess remedial options.
- Advance each boring until the underlying clay layer is encountered (about 15 feet bgs).
- Continuously obtain and log soil samples (perform headspace VOC screening).
- Collect and analyze two soil samples per boring (20 samples). Analyze each for VOCs (U.S. EPA Method 8021). In addition, send the source area sample to the lab for TCLP testing.
- Collect a groundwater sample from each groundwater plume delineation location (14 samples). Analyze each for VOCs (U.S. EPA Method 8021).

Monitoring Wells

- Install a water table well approximately 20 feet north of the property boundary (southwest corner of fence on the adjacent property) to assess the potential for off-site contamination migration.
- Install a water table well approximately 100 feet north of the property boundary (behind adjacent Rockwall building) to establish background water quality.
- Install a water table well to assess the downgradient extent of the contaminant plume.

- Continuously sample the new borings to total depth (about 15 feet), and perform headspace VOC screening.
- Collect and analyze two soil samples from each boring. Analyze each for VOCs (U.S. EPA Method 8021).
- Collect a groundwater sample from each newly installed well, and analyze for VOCs (U.S. EPA Method 8021).

6.1.3 Plume Area C (Other Areas)

- Complete Geoprobe borings at two locations north of boring B-12 to define the northern edge of Plume Area C.
- Complete Geoprobe borings at two locations, one east and west of the suspected plume to define the eastern and western edges of the impacted area.
- Complete Geoprobe borings at two off-site locations to help determine the nature and extent of groundwater quality impacts southeast (hydraulically downgradient) of the apparent source area.
- Advance each boring until the underlying clay layer is encountered (about 15 feet bgs).
- Continuously obtain and log soil samples (perform headspace VOC screening).
- Collect and analyze two soil samples per boring (12 samples). Analyze each for VOCs (U.S. EPA Method 8021). In addition, send the source area sample to the lab for TCLP testing.
- Collect a groundwater sample from each groundwater plume delineation location (six samples). Analyze each for VOCs (U.S. EPA Method 8021).

Off-site access restrictions will need to be evaluated prior to finalizing field conditions.

6.2 Estimate of Supplemental Investigation Costs

In summary, results of the TBA show that additional investigation is needed at the C&L Site. Based on the evaluation of all site data, START recommends that Geoprobe borings be completed at 22 locations. The installation of six groundwater monitoring wells is also recommended. As shown in the following table, the cost to complete the recommended supplemental investigation is estimated to total about $50,000.

Estimated Supplemental Investigation Costs for the C&L Industrial Cleaners Site		
Description	*Est. Cost*	*General Comments / Cost Basis*
Labor	$13,000	approx. 30% total cost
Travel & Misc. Expenses	$2,200	approx 5% total cost
Laboratory	$11,400	based on unit costs from previous bid
Drilling/Well Install	$10,800	based on unit costs from previous bid
Equipment	$1,200	previous investigation allowance
IDW Management	$2,300	assumes investigation waste is not hazardous
Survey	$1,400	engineering estimate
Shipping	$500	previous investigation allowance
Subtotal	*$42,800*	
Contingency (10%)	*$4,300*	Allowance for additional site characterization
Estimated. Total	*$47,100*	

General assumptions inherent with preparation of the above cost estimate include:

- As identified prior to performing the TBA, additional investigation beyond the TBA will be needed to (1) complete the hydrogeological characterization, (2) determine background water quality, and (3) identify the nature and extent of groundwater contamination at the C&L Site.

- The estimate is based on prior investigation costs incurred during the U.S. EPA investigation, and should be considered a preliminary engineering estimate. Actual costs will likely change due to a number of factors such as actual subcontractor costs, project data quality objectives/regulatory requirements, and the actual site conditions encountered.

- The estimate does not include cost for resurveying all wells and performing a site-wide groundwater-sampling event. Such activity is recommended to establish overall site conditions. The estimated (additional) cost to complete this work likely falls within the range from $2,500-$3,000.

In addition to these activities, it may be appropriate to obtain additional information regarding operations that occurred on and adjacent to the C&L Site. A review of historical aerial photographs may provide additional information regarding potential unknown sources requiring further investigation.

7.0 ASSESSMENT OF LIKELY CLEANUP ALTERNATIVES

7.1 Preliminary Identification of Alternatives

One of the objectives of the U.S. EPA investigation was to use information obtained from the TBA to preliminarily identify and assess remedial action objectives and potential remedial alternatives that will allow for site redevelopment. Remedial technologies available for this site could include excavation of the contaminated soils with a number of disposal options. The disposal could include a landfill that would accept possible hazardous waste and incineration. In-situ treatment could also be utilized that would reduce chlorinated solvent in soil.

7.2 Administrative / Institutional Controls

The WDNR has prepared guidance and policy regarding environmental assessment, cleanup, and "flexible closure" requirements. At certain contaminated sites, engineering controls (e.g., containment, cap, etc) and/or institutional controls (e.g., deed restriction, etc.) can be used in combination with natural attenuation (allowing the residual contamination to remain on-site). In such instances, various types of written assurances are available from the WDNR's Remediation and Redevelopment Program to help address technical, administrative or liability issues.

7.3 Source Removal and Active Treatment Methods

Potential treatment options consist of source removal, followed by an active treatment system (in-situ or ex-situ treatment). Some of the different methods used to treat PCE and other chlorinated ethenes have been evaluated by U.S. EPA's SITE Program. A few potentially applicable methods for addressing the contamination at the C&L Site are presented below.

ABB ENVIRONMENTAL SERVICES, INC.
(In-Situ Anaerobic-Aerobic Sequential Bioremediation of PCE)
TECHNOLOGY DESCRIPTION:

ABB Environmental Services, Inc. (ABB-ES) has demonstrated that sequential anaerobic-aerobic biodegradation of PCE is feasible under the proper conditions. The anaerobic process can dechlorinate PCE completely; however, dechlorination of the least-chlorinated ethenes (1,2-DCE and VC) can take some time. Of the chlorinated ethenes, VC is the most amenable to treatment by aerobic co-metabolic processes. Therefore, a two-step process has been employed as the most efficient treatment methodology to address highly chlorinated solvents.

Work performed by others using patented *Pseudomonas* species has shown that these organisms have the ability to reduce chlorinated organic contaminates (i.e., PCE and TCE) under aerobic conditions, without generating harmful byproducts. Applications of other in-situ bioremediation technology for treating VOCs have also been proposed and may have applicability at the C&L Site. This includes the use of oxygen release compounds, molasses, CL-Solutions' CL-Out™ (or others).

LAWRENCE LIVERMORE LABORATORY
(Soil Vapor Extraction with Groundwater Pump-and-Treat with Air Sparging)
TECHNOLOGY DESCRIPTION:

Soil vapor extraction (SVE) by itself or in combination with a groundwater pump-and-treat system can be effective in reducing further downgradient and off-site migration of VOCs to levels below acceptable regulatory standards. SVE can be used to address locations where significant VOC contamination occurs in the unsaturated zone. Additionally, removal and treatment of contaminated groundwater pumped from a number of extraction wells can assist in reducing contaminant concentrations and contaminant migration. Air stripping is the primary method used to remove VOCs from groundwater, although granular activated carbon is also used. Often portable treatment units are used to reduce cleanup costs and allow for more flexibility in deploying the units at different locations as the plume configuration changes. One note, the effectiveness of a groundwater pump-and-treat system is dictated by site conditions. The presence of a number of contaminant sources, relatively fine-grained soils, and other factors may lead to the conclusion that a pump-and-treat system is technically impracticable (i.e., the technology would take many years to achieve cleanup standards).

IN-SITU OXIDATIVE TECHNOLOGIES, INC. (ISOTECH)
(Oxidation using Modified Fenton's Reagent)

TECHNOLOGY DESCRIPTION:

A modified Fenton's reagent consisting of chelated iron catalyst and stabilized peroxide has been used to address chlorinated volatile organic contamination. The ISOTECH process has proven capability to function in the neutral pH range and has been used to address the instability of oxidizing and catalytic reagents when introduced into the subsurface, allowing the oxidizing agent to thoroughly disperse in the subsurface. Timed injections of the modified Fenton's reagent into the groundwater contaminant plume have been shown to be effective in reducing contamination to within acceptable regulatory limits.

INTERSTATE TECHNOLOGY AND REGULATORY COUNCIL (ITRC)
(Permeable Reactive Barrier with Iron Filings)

TECHNOLOGY DESCRIPTION:

For some time, permeable reactive barriers (PRBs) have been used as a passive *in-situ* treatment technology that uses natural site groundwater flow conditions for remediation. The installation method consists of constructing a trench across the contaminated groundwater flow path by using one of several construction methods such as trenching, caisson deployment, mandrels, clamshell digging, soil mixing, or high pressure jetting. PRBs are typically installed using a variety of funnel-and-gate PRB configurations or a continuous reactive barrier which is typically filled with zero-valent granular iron that is derived from treated scrap metal to remove its valence electrons. The iron filings react with the target contaminants in a strong reducing reaction to form non-toxic, easily biodegradable by-products such as ferrous iron, chloride, hydroxide ions, and light hydrocarbon C2-C5 compounds (ethanes, ethenes, etc.). The PRB design process typically begins with collecting contaminated groundwater from the site and then performing a bench scale treatability study to determine the reaction characteristics. The treatability results, along with the aquifer properties (flow velocities, etc.) and computer modeling are then used to determine the required residence time and reactive cell dimensions. The PRB has been approved and endorsed by the U.S. EPA and other federal agencies.

OREGON GRADUATE INSTITUTE (OGI)
(Permeable Reactive Barrier with Zeolite)
TECHNOLOGY DESCRIPTION:

Work performed more recently by OGI has focused on the use of surfactant-modified zeolite PRBs. This technology includes treating the zeolite (a microporous crystalline solid with high surface areas and cation exchange capacity) with a surfactant, which sorbs to the negatively charged zeolite surface and forms a layer that has an affinity for anions or organics. The surfactant-modified zeolite is an excellent reactive media for environmental remediation because it can simultaneously remove cations, anions, and nonpolar organics from solution (including PCE). The effectiveness of this treatment has been showed to be affected by the hydraulic conductivity of the barrier relative to the natural soil materials.

7.4 Assessment of Likely Cleanup Costs

The cost associated with the subsequent cleanup of the C&L Site is difficult to estimate because of the undetermined extent of soil and groundwater contamination. A comparative analysis of the relative cost for cleanup has been prepared however using cost data containing in the Federal Remediation Technologies Roundtable (FRTR) database, which can be found at http://www.frtr.gov/.

- **Excavation and Off-Site Disposal**

Based on present information, it appears that up to 3,400 to 4,000 cubic yards (5,000 to 6,000 tons) of contaminated soil are present at the C&L Site (additional, unidentified source areas may also be present). Since the on-site impacts appear to be due to the release of organic solvent waste, it seems likely that at least half of this material (if excavated) would be considered a listed hazardous waste, requiring special handling and disposed requirements. Based on these assumptions, the anticipated cost for the excavation, transportation, and disposal of the contaminated soil would be on the order of about $850,000 to $1.2 million (estimate does not include the cost associated with subcontractor bidding, confirmational sampling, or water treatment and disposal).

- **Soil Vapor Extraction**

SVE may also be used to address the soil source areas at the C&L Site. Based on a review of this technology, a cost of $20 to $30 per ton can be assumed for application of this technology. Assuming that 5,000 to 6,000 tons of contaminated soil will require treatment, the cost for in-situ SVE would be expected to fall within the range from about $100,000 to $180,000 (estimate does not include the cost associated with design, permitting, treatment of off-gas, continued monitoring, system operation and maintenance, or reporting).

- **In-Situ Anaerobic-Aerobic Bioremediation of PCE**

A variety of different enhanced in-situ bioremediation technologies have been used to cleanup chlorinated solvents from dry-cleaning operations with TCE and PCE as the primary contaminants in groundwater. These methods involve the subsurface injection of substances to promote bioremediation. Based on the data in the FRTR database (2001), the cost for reported design and implementation (five sites) ranged from approximately $51,000 to $150,000 (or more), depending on the size of the area and the amount of design required. O&M costs were provided for one site ($150,000 estimated for 12 months). Due to site uncertainties, the cost for implementing this treatment technology at the C&L Site cannot be estimated at this time.

- **Groundwater Pump-and-Treat with Air Sparging**

Five drycleaners sites were evaluated by the FRTR (various locations, 2001-2002) to evaluate the use of multi-phase extraction or pump and treat to cleanup soil and groundwater contaminated with chlorinated solvents from dry-cleaning operations. In some of the cases, several groundwater extraction wells were installed to remove groundwater and soil vapor. Extracted vapors were treated using granular-activated carbon. Extracted groundwater was treated using a low-profile air stripper. The cost for implementation of this remedy ranged from about $60,000 to more than $245,000. As noted previously, the likely cost for implementing this treatment technology at the C&L Site cannot be estimated at this time.

- **Oxidation Using Modified Fenton's Reagent**

The costs associated with the application of a variety of in-situ chemical oxidation to address chlorinated solvent contamination (such as PCE) were evaluated by FRTR during 2000-2001. This study included the evaluation of two sites which used Fenton's Reagent (pressurized injection of concentrated hydrogen peroxide and ferrous iron catalyst). The cost for design and implementation of the Fenton's Reagent systems ranged from $110,000 to $170,000 (only one of the two sites reported achieving the remediation goals). A different study showed that the cost for a phased application of Fenton's Reagent reduced the concentration of total VOCs below the required cleanup objectives. The reported cost for this multi-phase project was nearly $1 million, which was still substantially below the projected implementation of the Fenton's Reagent systems ranged groundwater pump-and-treat cost of $12 million. Due to site uncertainties, the likely cost for implementing this treatment technology at the C&L Site cannot be estimated at this time.

- **Permeable Reactive Barriers**

The costs associated with installing PRBs at six sites were determined by FRTR in 2002 (iron or iron and sand mixtures). According to this database, total project installation costs ranged from less than $50,000 (pilot study evaluation) up to $1.3 million for a full-scale, 130-foot long PRB. Design costs ranging from $30,000 to $200,000 for the PRB were identified. The cost for installing a PRB with a modified zeolite component is more expensive. Due to site uncertainties, the likely cost for implementing this treatment technology at the C&L Site cannot be estimated at this time.

While the design of the appropriate remedy for the C&L Site cannot be determined until investigation efforts are complete, it is reasonable to assume that the cleanup strategy will include a combination of source control and treatment methods (with possible institutional controls).

8.0 REFERENCES

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2. American Society of Testing and Materials, 1998. *Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, Designation: E 1903-97. West Conshohocken, Pennsylvania. February 1998. 14 pp.

3. American Society of Testing and Materials, 2000. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, Designation: E 1527-00. West Conshohocken, Pennsylvania. July, 2000. 27 pp.

4. STS Consultants, Ltd, 2000. Phase I Environmental Site Assessment C&L Industrial Cleaners, City of Kenosha, Department of City Development (excerpts).

5. STS Consultants, Ltd, 2001. Phase II Environmental Site Assessment C&L Industrial Cleaners, City of Kenosha, Department of City Development (excerpts).

6. T N & Associates, Inc., 2003. *U.S. EPA Region 5 Brownfields Program Overview and Approach for Conducting Phase I and Phase II Environmental Site Assessments at Candidate Brownfields Sites in U.S. EPA Region 5*, May 2003.

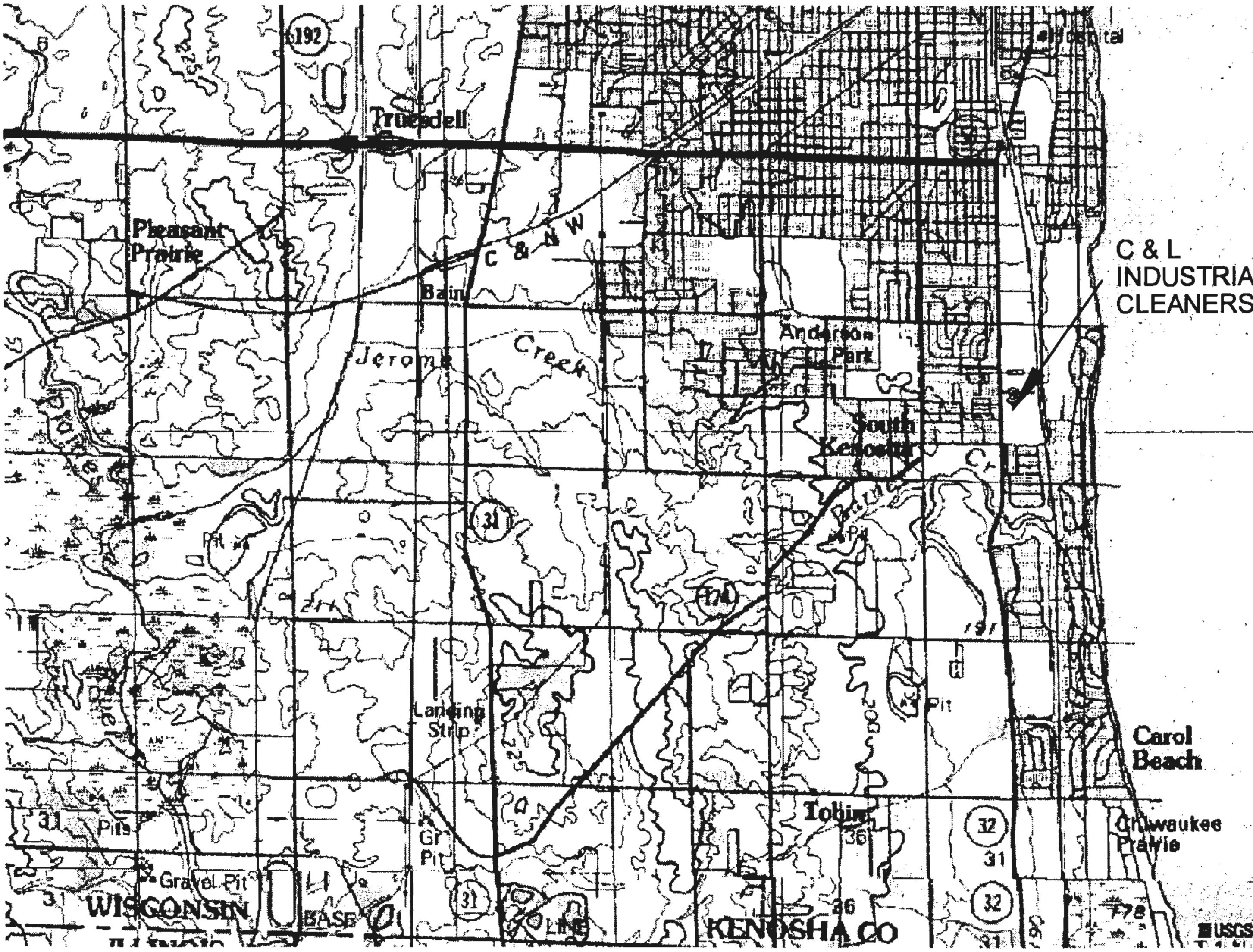
7. T N & Associates, Inc., 2003a. *Multi-Site Quality Assurance Project Plan for Targeted Brownfields Assessments in U.S. EPA Region 5*, May 2003.

8. TN & Associates, Inc., 2003b, *Safety and Health Plan for Phase I & Phase II Environmental Site Assessments*, May 2003.

9. TN & Associates, Inc., 2003c, Field Sampling Plan for a Targeted Brownfields Assessment at the C&L Industrial Cleaners Site; Kenosha, Wisconsin. November 2003.

10. Federal Remediation Technologies Roundtable. Internet address 2004: www.frtr.gov.

C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WI 53143



APPROXIMATE
SCALE IN MILES

1 0.5 0 1

SOURCE:
TOPOGRAPHIC QUADRANGLE MAP: KENOSHA, WI
01, 1978

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FIGURE 1
SITE LOCATION MAP

PROJECT 2001061
DRAWING C&L SITE
DATE APRIL 2004

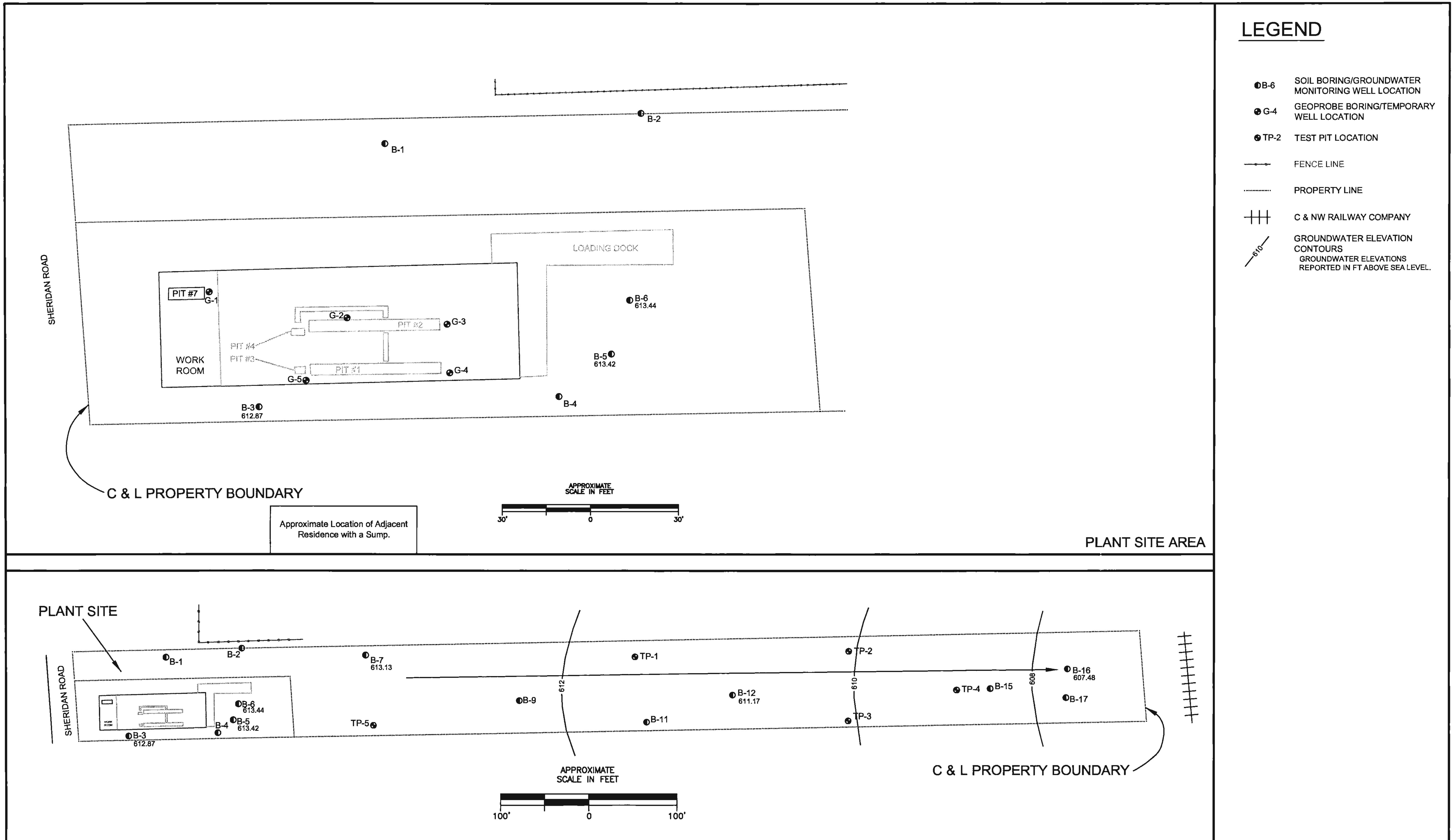

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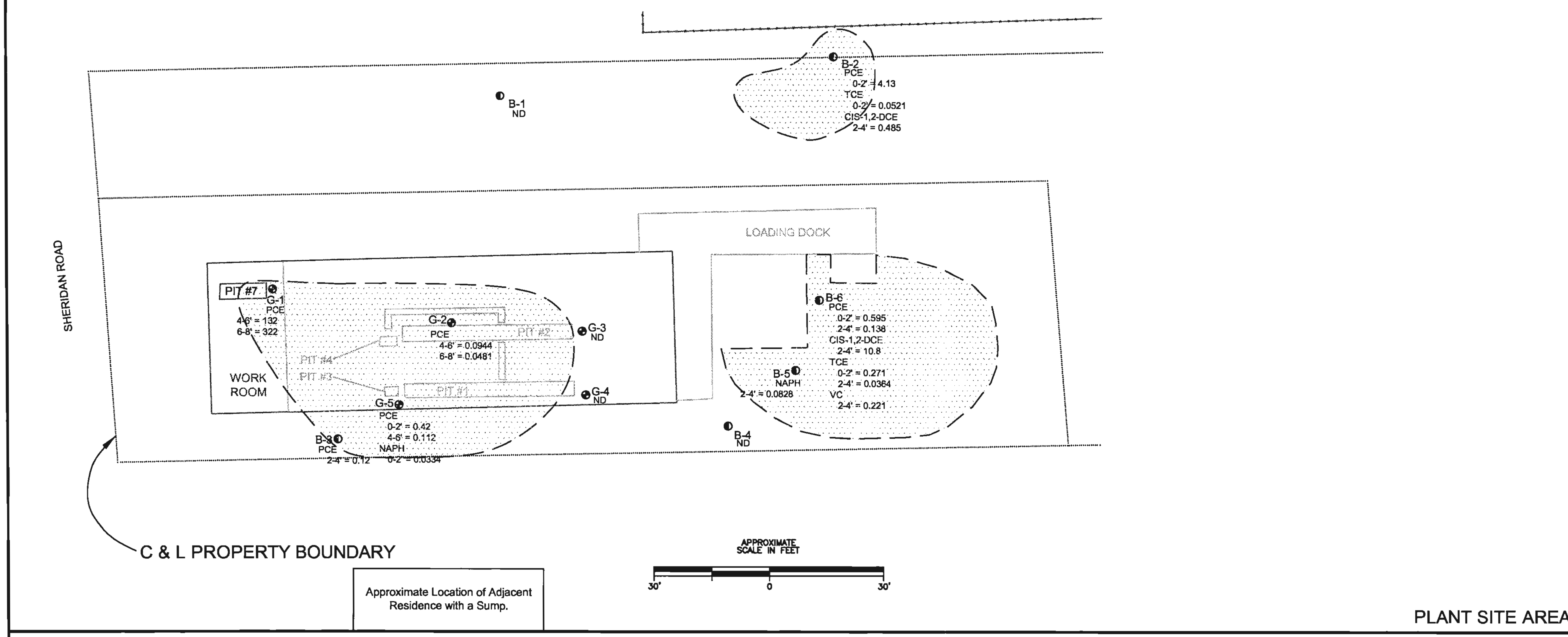
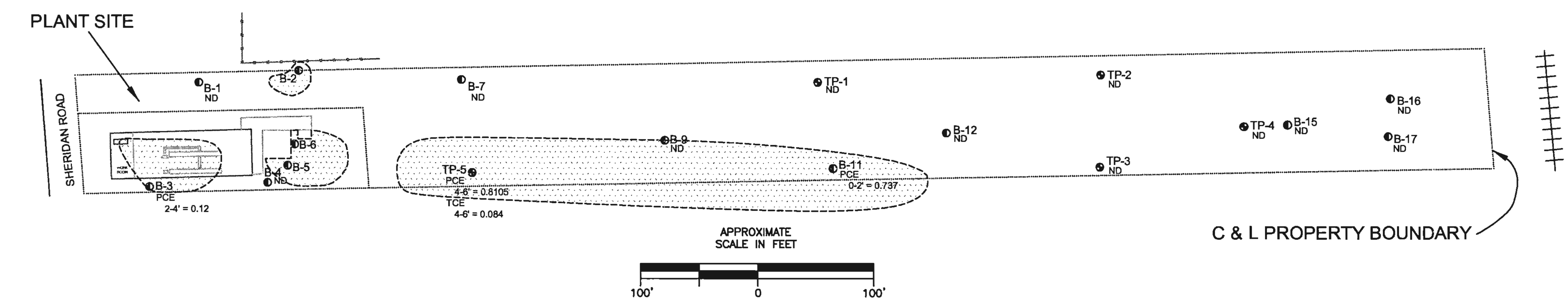
FIGURE 2
GROUNDWATER ELEVATION MAP (STS CONSULTANTS)
(ADAPTED FROM STS CONSULTANTS, OCTOBER 2001)

C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WISCONSIN

PROJECT 2001061
DRAWING C&L SITE
DATE AUGUST 2004





LEGEND

- B-6 SOIL BORING/GROUNDWATER MONITORING WELL LOCATION
- G-4 GEOPROBE BORING/TEMPORARY WELL LOCATION
- TP-2 TEST PIT LOCATION
- FENCE LINE
- PROPERTY LINE
- C & NW RAILWAY COMPANY
- INFERRED EXTENT OF CHLORINATED VOC IMPACTS IN SOIL

SAMPLE DEPTH IN FT BELOW GROUND SURFACE (ft bgs)
RESULTS SHOWN IN MILLIGRAMS/KILOGRAM (mg/kg)
ND = ANALYTE NOT DETECTED

DETECTED CONSTITUENTS
PCE = TETRACHLOROETHYLENE
TCE = TRICHLOROETHYLENE
CIS-1,2-DCE = CIS-1,2-DICHLOROETHYLENE
VC = VINYL CHLORIDE
NAPH = NAPHTHALENE

REGULATORY SCREENING CRITERIA (mg/kg)

ANALYTE	DIRECT CONTACT[A]		GROUNDWATER PATHWAY[G]
	RESIDENTIAL	INDUSTRIAL	
PCE	1.5	3.4	0.06
TCE	0.05	0.11	0.006
CIS-1,2-DCE	43	150	0.4
VC	0.08	0.75	0.01
NAPH	--	--	--

A = WDNR NR 720 GENERIC RCL OR EPA REGION 9 PRG
G = EPA REGION 9 RISK BASED CONCENTRATION FOR TRANSFER FROM SOIL TO WATER

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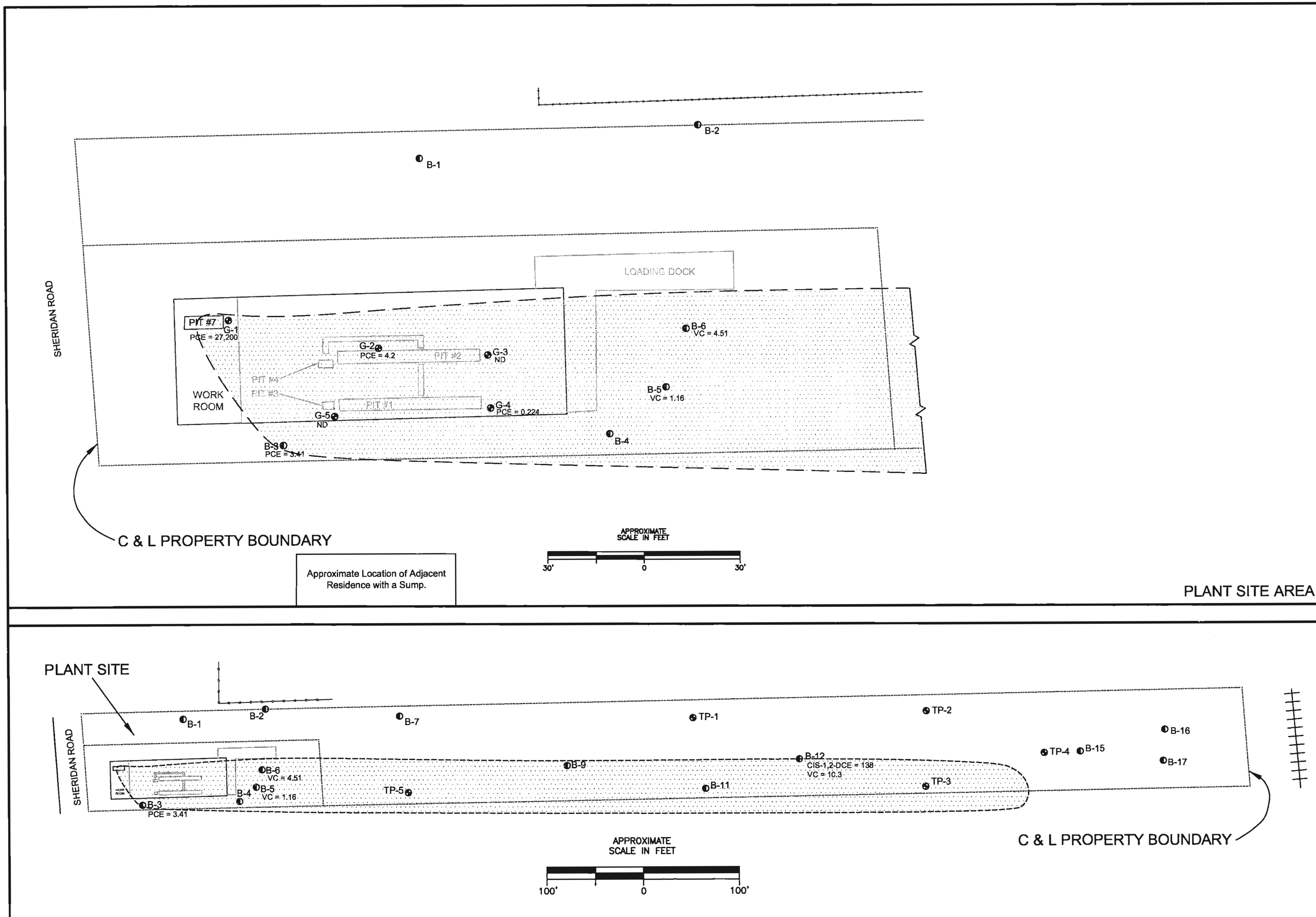
FIGURE 3
SOIL ANALYTICAL RESULTS (STS CONSULTANTS)
(ADAPTED FROM STS CONSULTANTS, OCTOBER 2001)

C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WISCONSIN

PROJECT 2001061
DRAWING C&L SITE
DATE AUGUST 2004



LEGEND

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- G-4 GEOPROBE BORING/TEMPORARY WELL LOCATION
- TP-2 TEST PIT LOCATION
- FENCE LINE
- PROPERTY LINE
- C & NW RAILWAY COMPANY
- INFERRED EXTENT OF CHLORINATED VOC GROUNDWATER CONTAMINATION

RESULTS SHOWN IN MICROGRAMS/LITER (ug/L)

ND = ANALYTE NOT DETECTED

DETECTED CONSTITUENTS
PCE = TETRACHLOROETHYLENE
CIS-1,2-DCE = CIS-1,2-DICHLOROETHYLENE
VC = VINYL CHLORIDE

REGULATORY SCREENING CRITERIA (ug/L)

ANALYTE	WDNR NR140 STANDARDS	
	PREVENTATIVE ACTION LIMITS (PAL)	ENFORCEMENT STANDARDS (ES)
PCE	0.5	5
CIS-1,2-DCE	7	70
VC	0.02	0.2

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FIGURE 4
GROUNDWATER ANALYTICAL RESULTS (STS CONSULTANTS)

(ADAPTED FROM STS CONSULTANTS, OCTOBER 2001)

C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WISCONSIN

PROJECT 2001061
DRAWING C&L SITE
DATE AUGUST 2004

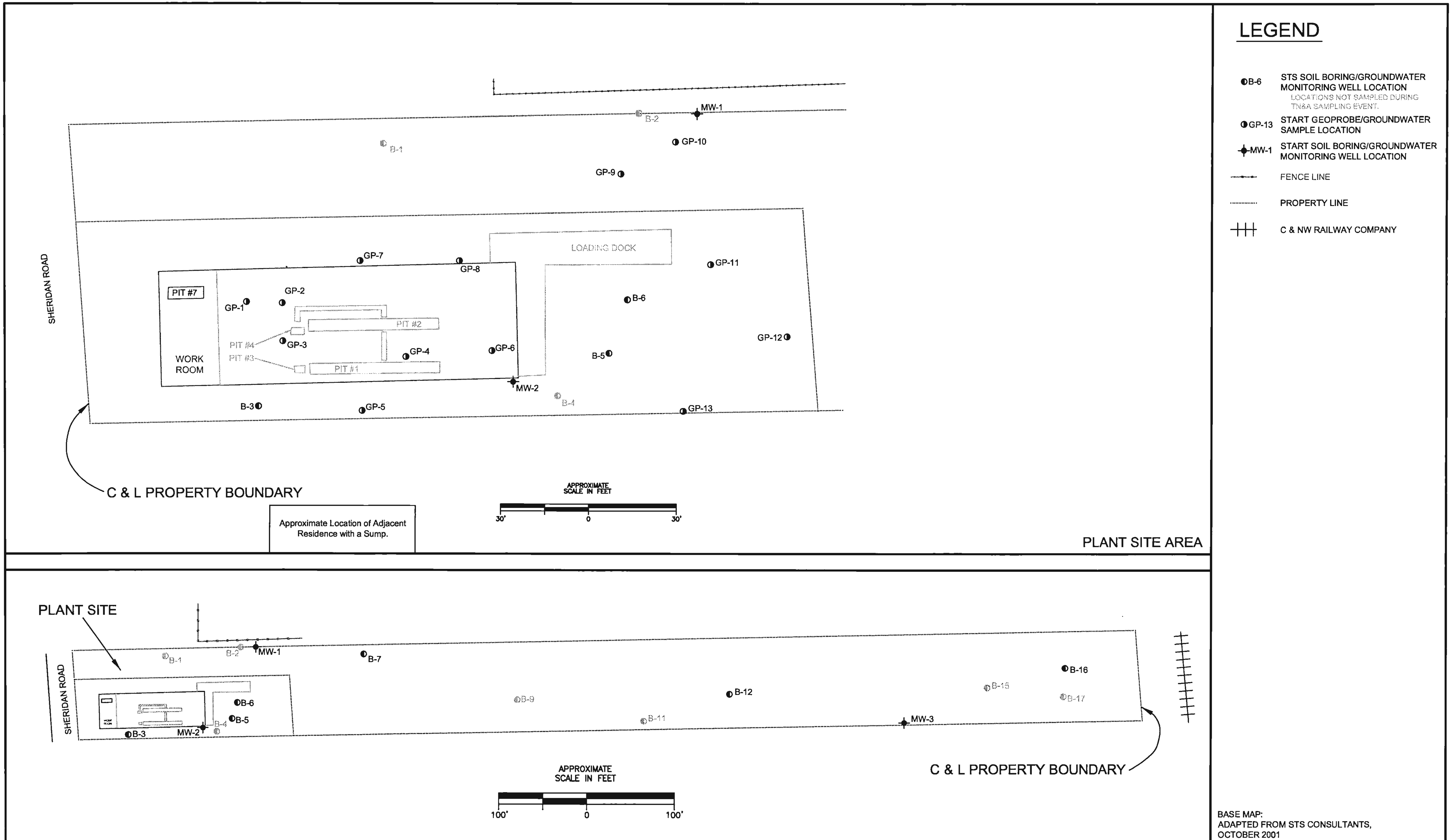

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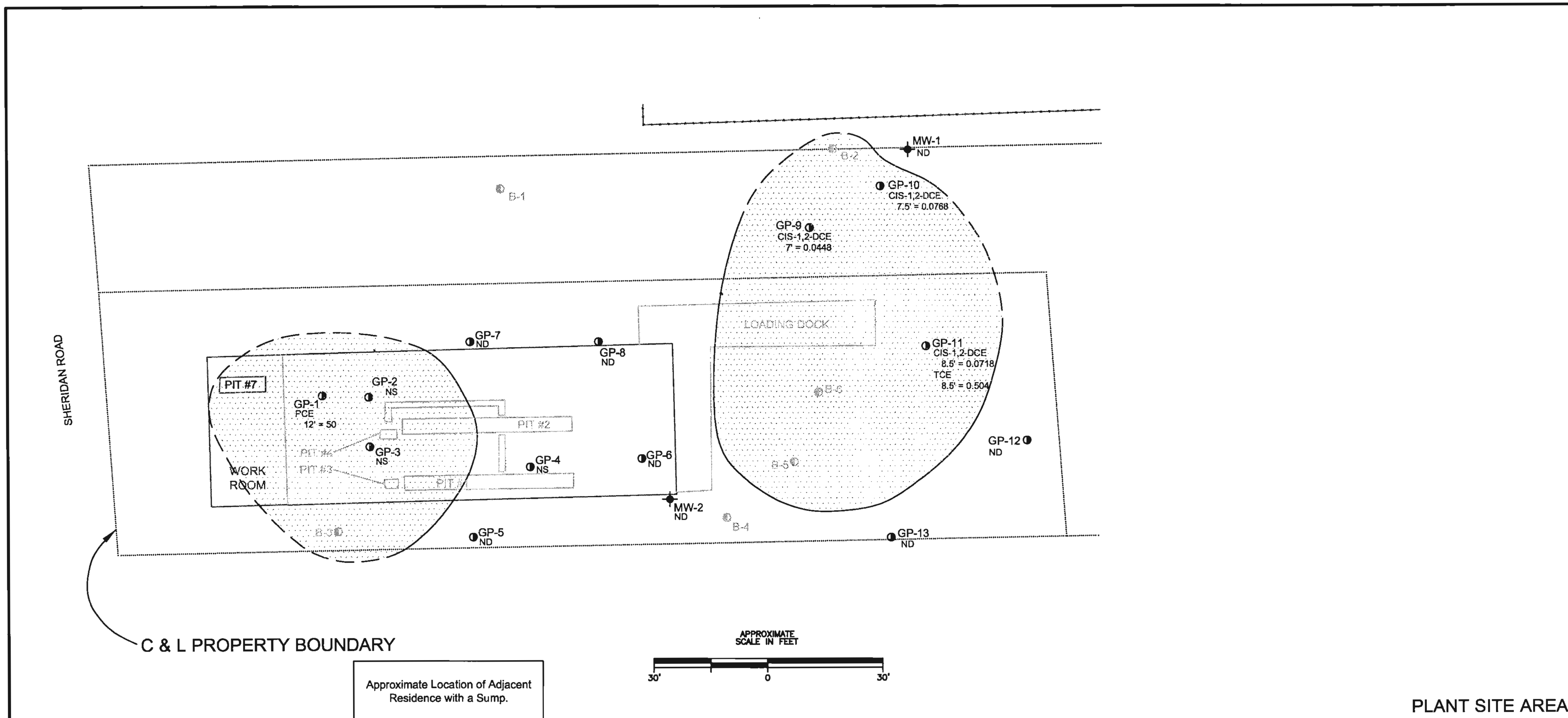
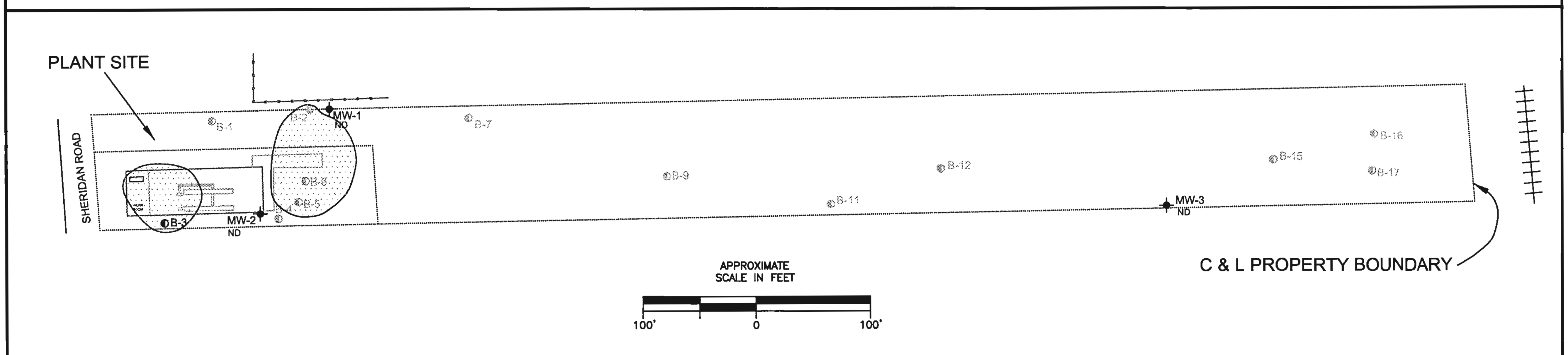
FIGURE 5
TBA INVESTIGATION LOCATIONS

C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WISCONSIN

PROJECT
2001061
DRAWING
C&L SITE
DATE
AUGUST 2004





LEGEND

- B-6 — STS SOIL BORING/GROUNDWATER MONITORING WELL LOCATION (LOCATIONS NOT SAMPLED DURING TN&A SAMPLING EVENT.)
- GP-13 — START GEOPROBE/GROUNDWATER SAMPLE LOCATION
- MW-1 — START SOIL BORING/GROUNDWATER MONITORING WELL LOCATION
- FENCE LINE
- PROPERTY LINE
- C & NW RAILWAY COMPANY
- EXTENT OF CHLORINATED VOC IMPACTS IN SOIL, DASHED WHERE INFERRED

RESULTS SHOWN IN MICROGRAMS/LITER (ug/L)

ND = ANALYTE NOT DETECTED

NS = NO SAMPLE COLLECTED

DETECTED CONSTITUENTS
PCE = TETRACHLOROETHYLENE
CIS-1,2-DCE = CIS-1,2-DICHLOROETHYLENE
VC = VINYL CHLORIDE

REGULATORY SCREENING CRITERIA (ug/L)

ANALYTE	WDNR NR140 STANDARDS	
	PREVENTATIVE ACTION LIMITS (PAL)	ENFORCEMENT STANDARDS (ES)
PCE	0.5	5
CIS-1,2-DCE	7	70
VC	0.02	0.2

BASE MAP:
ADAPTED FROM STS CONSULTANTS, OCTOBER 2001

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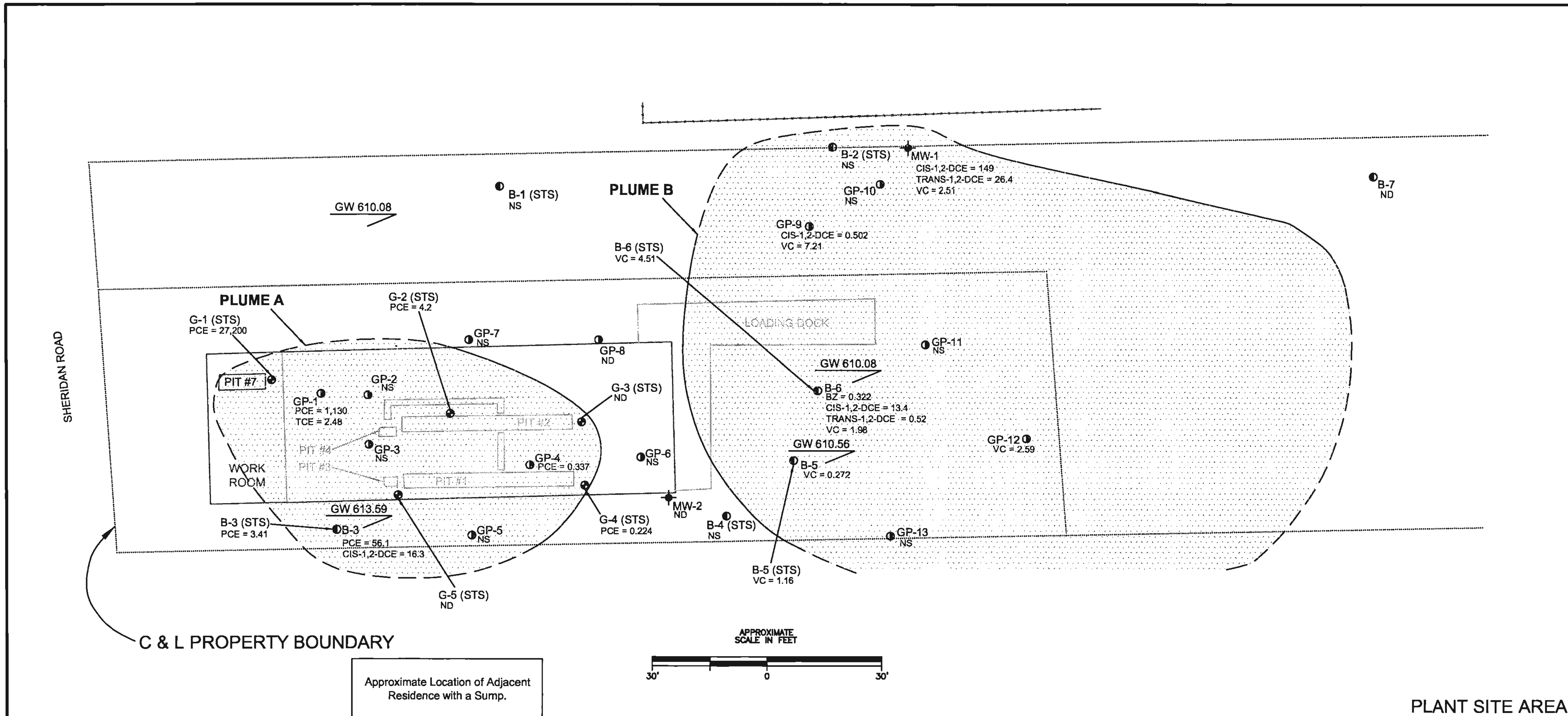
FIGURE 6
CHLORINATED VOCs IN SOIL

C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WISCONSIN

PROJECT 2001061
DRAWING C&L SITE
DATE AUGUST 2004



LEGEND

- B-6 STS SOIL BORING/GROUNDWATER MONITORING WELL LOCATION
- G-4 STS GEOPROBE BORING/TEMPORARY WELL LOCATION
- GP-13 START GEOPROBE/GROUNDWATER SAMPLE LOCATION
- MW-1 START SOIL BORING/GROUNDWATER MONITORING WELL LOCATION
- FENCE LINE
- PROPERTY LINE
- C & NW RAILWAY COMPANY
- EXTENT OF CHLORINATED VOC GROUNDWATER CONTAMINATION, DASHED WHERE INFERRED

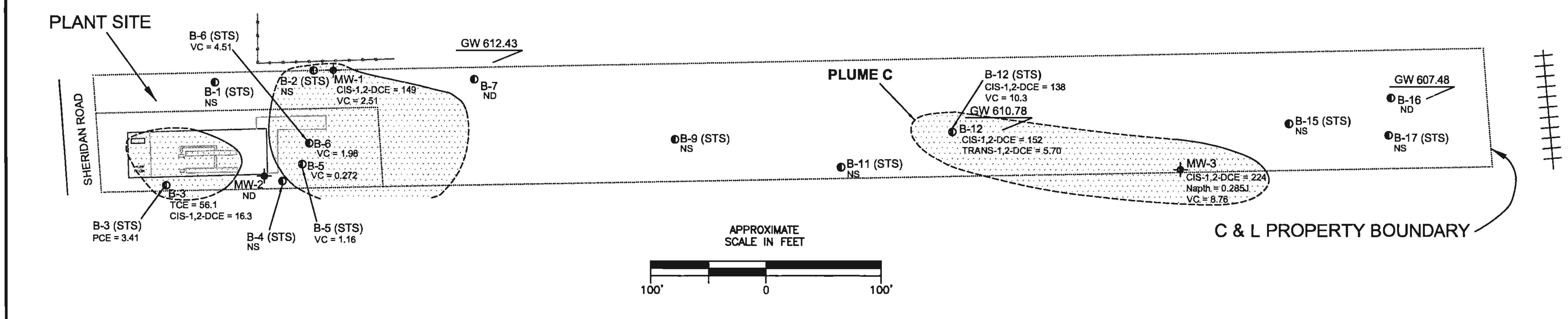
SAMPLE DEPTH IN FT BELOW GROUND SURFACE (ft bgs)
RESULTS SHOWN IN MILLIGRAMS/KILOGRAM (mg/kg)
ND = ANALYTE NOT DETECTED
NS = NO SAMPLE COLLECTED
(STS) = STS SAMPLE RESULT

DETECTED CONSTITUENTS
PCE = TETRACHLOROETHYLENE
TCE = TRICHLOROETHYLENE
CIS-1,2-DCE = CIS-1,2-DICHLOROETHYLENE
VC = VINYL CHLORIDE
NAPH = NAPHTHALENE

REGULATORY SCREENING CRITERIA (mg/kg)

ANALYTE	DIRECT CONTACT[A]		GROUNDWATER PATHWAY[G]
	RESIDENTIAL	INDUSTRIAL	
PCE	1.5	3.4	0.06
TCE	0.05	0.11	0.006
CIS-1,2-DCE	43	150	0.4
VC	0.08	0.75	0.01
NAPH	--	--	--

A = WDNR NR 720 GENERIC RCL OR EPA REGION 9 PRG
G = EPA REGION 9 RISK BASED CONCENTRATION FOR TRANSFER FROM SOIL TO WATER



BASE MAP:
ADAPTED FROM STS CONSULTANTS, OCTOBER 2001

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FIGURE 7
DETECTED VOCs IN GROUNDWATER

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KENOSHA, WISCONSIN

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DRAWING C&L SITE
DATE AUGUST 2004

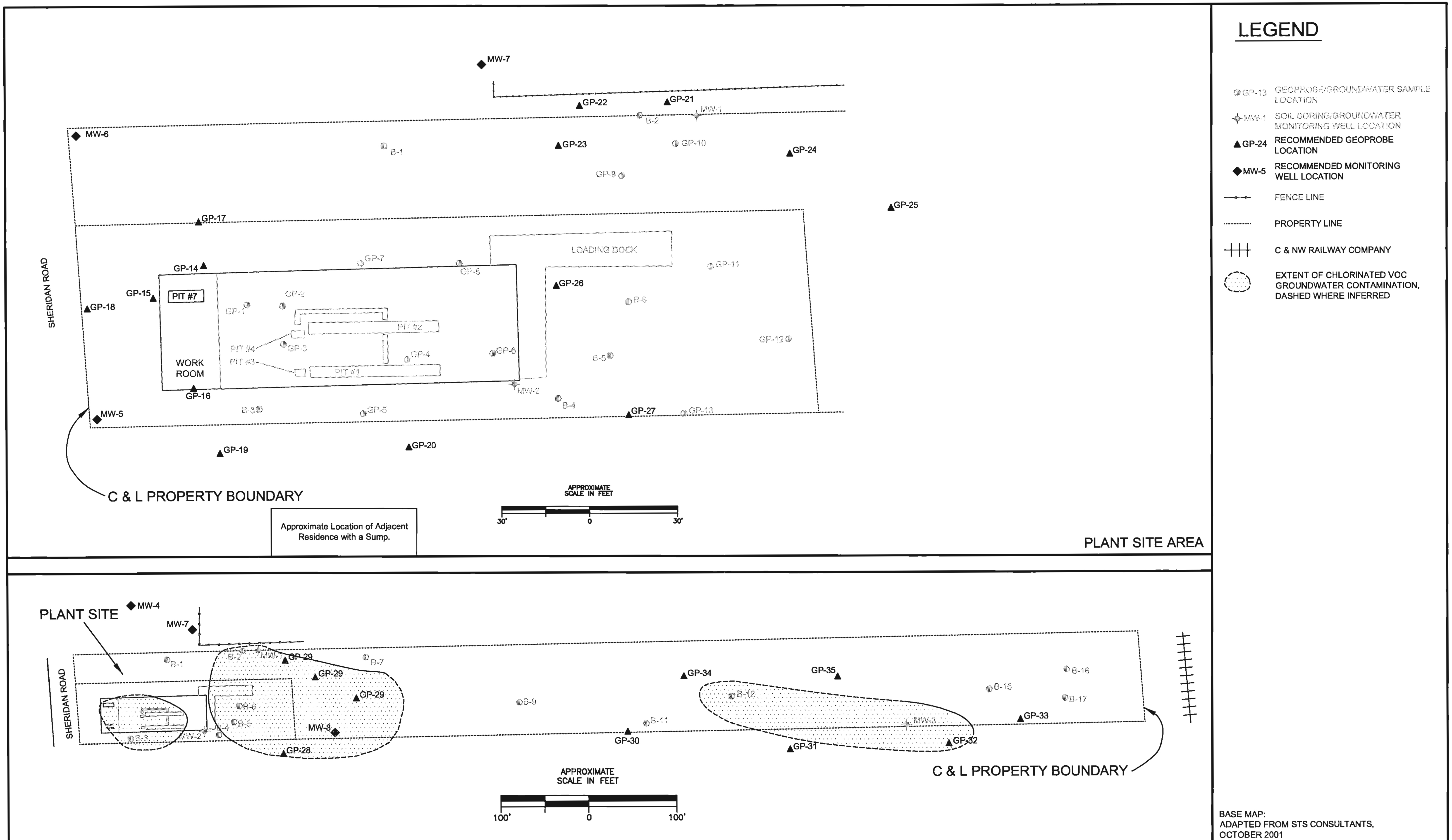

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FIGURE 8
SUPPLEMENTAL BORING AND MONITORING WELL LOCATIONS

C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WISCONSIN

PROJECT	2001061
DRAWING	C&L SITE
DATE	AUGUST 2004

Table 1
Summary of Soil Analytical Results – Geoprobe and Test Pit Samples
Kenosha Brownfield Investigation – C L Industrial Cleaners
STS Project No. 86415XB Task 2000

Parameters	NR 720 Generic RCLs: Direct Contact Pathway		NR 720 Generic RCLs	Sample Number, Date, Depth and PID Reading: Geoprobes										Test Pits				
	Non-Industrial[A]	Industrial[B]	Groundwater Pathway[C]	CL-G1-SO3	CL-G1-SO4	CL-G2-SO3	CL-G2-SO4	CL-G3-SO3	CL-G3-SO4	CL-G4-SO3	CL-G4-SO4	CL-G5-SO1	CL-G5-SO3	CL-TP1-S03	CL-TP2-S03	CL-TP3-S02	CL-TP4-S04	CL-TP5-S04
				4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/23/01	4/23/01	4/23/01	4/23/01	4/23/01
				4-6'	6-8'	4-6'	6-8'	4-6'	6-8'	4-6'	6-8'	0-2'	4-6'	5-6'	5-6'	8-10'	5-7'	4-6'
				0.8	1.8	0.6	0.4	0.0	0.0	0.0	0.0	0.6	2.3	1.2	0.0	0.0	0.0	0.0
Metals (mg/kg)																		
Total Antimony	–	–	–	<2.07	<2.05	<2.11	<2.04	<1.99	<1.88	<2.00	<2.08	<1.87	<2.04	0.118	0.0486	<0.0476	0.153	0.335
Total Arsenic	0.039	1.6	–	1.24[A]	8.70[AB]	9.00[AB]	2.93[AB]	5.92[AB]	5.07[AB]	8.67[AB]	1.39[AB]	3.98[AB]	4.07[AB]	1.86[AB]	1.82[AB]	3.04[AB]	3.44[AB]	6.08[AB]
Total Barium	–	–	–	6.91	15.7	49.0	5.91	101	14.4	197	7.47	31.5	32.7	9.43	18.7	31.9	32.5	26.0
Total Cadmium	8	510	–	0.219	0.112	0.249	0.103	0.409	0.0632	1.11	0.159	0.507	0.886	<0.0407	0.0608	0.0733	0.112	0.141
Total Chromium	16,000	NA	–	9.81	14.5	16.2	4.21	15.8	12.1	19.4	4.85	13.3	12.3	11.7	7.85	7.01	11.3	11.7
Total Copper	–	–	–	21.1	25.0	26.4	8.38	23.7	12.7	36.4	10.4	113	90.7	2.79	4.40	12.3	8.05	16.3
Total Lead	50	500	–	5.88	7.60	13.6	4.34	11.4	5.80	11.5	4.38	38.2	38.1	2.95	3.77	5.10	6.07	8.16
Total Mercury	–	–	–	<0.0487	<0.0483	<0.0498	<0.0481	<0.0467	<0.0443	<0.0471	<0.0488	0.0771	0.079	<0.0493	<0.0486	<0.0488	<0.0499	0.0621
Total Nickel	–	–	–	11.7	16.6	33.5	6.79	28.7	14.0	114	9.46	20.8	19.8	5.91	4.26	9.85	8.22	18.3
Total Selenium	–	–	–	<0.402	<0.398	1.02	<0.397	0.491	<0.366	1.08	<0.403	<0.363	<0.395	<0.407	<0.401	<0.403	<0.411	<0.387
Total Silver	–	–	–	<0.122	<0.121	<0.124	<0.12	<0.117	<0.111	<0.118	<0.122	0.363	<0.12	0.136	<0.122	<0.122	<0.125	<0.117
	NR 720 Generic RCLs: Direct Contact Pathway Non-Industrial[A]	Industrial[B]	Groundwater Pathway[C]															
PAHs (mg/kg)																		
1-Methyl Naphthalene	1,100	70,000	23	<0.0353	<0.0035	<0.00361	<0.00349	<0.00339	<0.00322	<0.00342	<0.00354	<0.0319	<0.0347	<0.0358	<0.0352	<0.0354	<0.0362	<0.034
2-Methyl Naphthalene	600	40,000	20	<0.028	<0.00277	<0.00285	<0.00276	<0.00269	<0.00255	<0.00271	<0.00281	<0.0253	<0.0275	<0.0284	<0.0279	<0.0281	<0.0287	<0.027
Acenaphthene	900	60,000	38	<0.0755	<0.00748	<0.00771	<0.00745	<0.00724	<0.00687	<0.0073	<0.00757	<0.0683	<0.0743	<0.0764	<0.0753	<0.0757	<0.0773	<0.0727
Acenaphthylene	18	360	0.7	<0.0512	<0.00507	<0.00522	<0.00505	<0.00491	<0.00466	<0.00495	<0.00513	<0.0463	<0.0503	<0.0518	<0.051	<0.0513	<0.0524	<0.0492
Anthracene	5,000	300,000	3,000	<0.0353	<0.0035	<0.00361	<0.00349	<0.00339	<0.00322	<0.00342	<0.00354	0.0628	<0.0347	<0.0358	<0.0352	<0.0354	<0.0362	<0.034
Benzo(a)Anthracene	0.088	3.9	17	<0.0305	<0.00302	<0.00311	<0.003	<0.00292	<0.00277	<0.00294	<0.00305	0.464[A]	0.108[A]	<0.0308	<0.0304	<0.0305	<0.0312	<0.0293
Benzo(a)Pyrene	0.0088	0.39	48	<0.028	<0.00277	<0.00286	<0.00276	<0.00269	<0.00255	<0.00271	<0.00281	0.677[A]	0.172[A]	<0.0284	<0.0279	<0.0281	<0.0287	<0.027
Benzo(b)Fluoranthene	0.088	3.9	360	<0.0134	<0.00133	<0.00137	<0.00132	<0.00129	<0.00122	<0.0013	<0.00134	1.08[A]	0.325[A]	<0.0136	<0.0134	<0.0134	<0.0137	<0.0129
Benzo(ghi)Perylene	1.8	39	6,800	<0.0122	<0.00121	<0.00124	<0.0012	<0.00117	<0.00111	<0.00118	<0.00122	0.805	0.326	<0.0123	<0.0122	<0.0122	<0.0125	<0.0117
Benzo(k)Fluoranthene	0.88	39	870	<0.0146	<0.00145	<0.00149	<0.00144	<0.0014	<0.00133	<0.00141	<0.00147	0.322	0.0965	<0.0148	<0.0146	<0.0147	<0.015	<0.0141
Chrysene	8.8	390	37	<0.0244	<0.00241	<0.00249	<0.0024	<0.00234	<0.00222	<0.00236	<0.00244	0.446	0.11	<0.0247	<0.0243	<0.0244	<0.0249	<0.0234
Dibenzo(a,h)Anthracene	0.0088	0.39	38	<0.0171	<0.00169	<0.00174	<0.00168	<0.00164	<0.00155	<0.00165	<0.00171	0.0441A	0.402[AB]	<0.0173	<0.017	<0.0171	<0.0175	<0.0164
Fluoranthene	600	40,000	500	<0.0317	<0.00314	<0.00323	<0.00313	<0.00304	<0.00288	<0.00306	<0.00317	0.568	0.125	<0.0321	<0.0316	<0.0317	<0.0324	<0.0305
Fluorene	600	40,000	100	<0.0426	<0.00422	<0.00435	<0.00421	<0.00409	<0.00388	<0.00412	<0.00427	<0.0382	<0.0419	<0.0432	<0.0425	<0.0427	<0.0436	<0.041
Indeno(1,2,3-cd)Pyrene	0.088	3.9	680	<0.0207	<0.00205	<0.00211	<0.00204	<0.00199	<0.00188	<0.002	<0.00208	0.848[A]	0.327[A]	<0.021	<0.0207	<0.0208	<0.0212	<0.0199
Naphthalene	20	110	0.4	<0.0475	<0.0047	<0.00485	<0.00469	<0.00456	<0.00432	<0.00459	<0.00476	<0.043	<0.0467	<0.0481	<0.0474	<0.0476	<0.0486	<0.0457
Phenanthrene	18	390	1.8	0.0667	0.00456[J]	<0.00199	<0.00192	<0.00187	<0.00177	<0.00188	<0.00195	0.194	0.0423	<0.0197	<0.0194	<0.0195	<0.02	<0.0188
Pyrene	500	30,000	8,700	<0.0378	<0.00374	<0.00386	<0.00373	<0.00362	<0.00344	<0.00365	<0.00379	0.637	0.157	<0.0382	<0.0377	<0.0379	<0.0387	<0.0363
	NR 720 Generic RCLs or EPA Region IX Preliminary Remediation Goals: Direct Contact Pathway Residential[E]	Industrial[F]	Groundwater Pathway															
VOCs (mg/kg)																		
1,2,4-Trimethylbenzene	52	170	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
cis-1,2-Dichloroethylene	43	150	0.4[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	–	–	2.9[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropyl Ether	–	–	–	<1.22	<2.41	<0.025	<0.24	<0.023	<0.022	<0.024	<0.024	<0.022	<0.024	<0.025	<0.024	<0.024	<0.025	<0.023
m- & p-Xylene	–	–	4.1[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	–	–	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0334	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	140	240	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
o-Xylene	–	–	4.1[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	110	220	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0701	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethylene	5.7	19	0.06[G]	132[E,F,G]	322[E,F,G]	0.0944[G]	0.0481[G]	<0.025	<0.025	<0.025	<0.025	0.42[G]	0.112[G]	<0.025	<0.025	<0.025	<0.025	0.8105[G]
Toluene	–	–	1.5[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethylene	63	210	0.7[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethylene	2.8	6.1	0.006[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.084[G]
Vinyl Chloride	0.15	0.83	0.01[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes:
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds
A = Exceedance of Generic RCL for protection of human health due to direct contact for non-industrial sites.
B = Exceedance of Generic RCL for protection of human health due to direct contact for industrial sites.
C = Exceedance of Generic RCL for protection of groundwater quality.
D = NR 720 Generic RCLs based on protection of groundwater.
E = Exceedance of EPA Region III Risk-Based Concentration for ingestion at a residential site.
F = Exceedance of EPA Region III Risk-Based Concentration for ingestion at an industrial site.
G = Exceedance of EPA Region III Risk-Based Concentration for transfer from soil to groundwater.
Bold indicates value above detection limit.
J = Estimated concentration below laboratory quantitation level.

Table 1
Summary of Soil Analytical Results – Geoprobe and Test Pit Samples
Kenosha Brownfield Investigation – C L Industrial Cleaners
STS Project No. 86415XB Task 2000

Parameters	NR 720 Generic RCLs			Sample Number, Date, Depth and PID Reading														
	Direct Contact Pathway			Geoprobes										Test Pits				
	Non-Industrial[A]	Industrial[B]	Groundwater Pathway[C]	CL-G1-SO3	CL-G1-SO4	CL-G2-SO3	CL-G2-SO4	CL-G3-SO3	CL-G3-SO4	CL-G4-SO3	CL-G4-SO4	CL-G5-SO1	CL-G5-SO3	CL-TP1-S03	CL-TP2-S03	CL-TP3-S02	CL-TP4-S04	CL-TP5-S04
				4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/30/01	4/23/01	4/23/01	4/23/01	4/23/01	4/23/01
				4-6'	6-8'	4-6'	6-8'	4-6'	6-8'	4-6'	6-8'	0-2'	4-6'	5-6'	5-6'	8-10'	5-7'	4-6'
				0.8	1.8	0.6	0.4	0.0	0.0	0.0	0.0	0.6	2.3	1.2	0.0	0.0	0.0	0.0
Metals (mg/kg)																		
Total Antimony	–	–	–	<2.07	<2.05	<2.11	<2.04	<1.99	<1.88	<2.00	<2.08	<1.87	<2.04	0.118	0.0486	<0.0476	0.153	0.335
Total Arsenic	0.039	1.6	–	1.24[A]	8.70[AB]	9.00[AB]	2.93[AB]	5.92[AB]	5.07[AB]	8.67[AB]	1.39[AB]	3.98[AB]	4.07[AB]	1.86[AB]	1.82[AB]	3.04[AB]	3.44[AB]	6.08[AB]
Total Barium	–	–	–	6.91	15.7	49.0	5.91	101	14.4	197	7.47	31.5	32.7	9.43	18.7	31.9	32.5	26.0
Total Cadmium	8	510	–	0.219	0.112	0.249	0.103	0.409	0.0632	1.11	0.159	0.507	0.886	<0.0407	0.0608	0.0733	0.112	0.141
Total Chromium	16,000	NA	–	9.81	14.5	16.2	4.21	15.9	12.1	19.4	4.85	13.3	12.3	11.7	7.85	7.01	11.3	11.7
Total Copper	–	–	–	21.1	25.0	26.4	8.38	23.7	12.7	36.4	10.4	113	90.7	2.79	4.40	12.3	8.05	16.3
Total Lead	50	500	–	5.88	7.60	13.6	4.34	11.4	5.80	11.5	4.38	38.2	38.1	2.95	3.77	5.10	6.07	8.16
Total Mercury	–	–	–	<0.0487	<0.0483	<0.0498	<0.0481	<0.0467	<0.0443	<0.0471	<0.0488	0.0771	0.079	<0.0493	<0.0486	<0.0488	<0.0499	0.0621
Total Nickel	–	–	–	11.7	16.6	33.5	6.79	28.7	14.0	114	9.46	20.8	19.8	5.91	4.26	9.85	8.22	18.3
Total Selenium	–	–	–	<0.402	<0.398	1.02	<0.397	0.491	<0.366	1.08	<0.403	<0.363	<0.395	<0.407	<0.401	<0.403	<0.411	<0.387
Total Silver	–	–	–	<0.122	<0.121	<0.124	<0.12	<0.117	<0.111	<0.118	<0.122	0.363	<0.12	0.136	<0.122	<0.122	<0.125	<0.117
	NR 720 Generic RCLs																	
	Direct Contact Pathway																	
	Non-Industrial[A]	Industrial[B]	Groundwater Pathway[C]															
PAHs (mg/kg)																		
1-Methyl Naphthalene	1,100	70,000	23	<0.0353	<0.0035	<0.00361	<0.00349	<0.00339	<0.00322	<0.00342	<0.00354	<0.0319	<0.0347	<0.0358	<0.0352	<0.0354	<0.0362	<0.034
2-Methyl Naphthalene	600	40,000	20	<0.028	<0.00277	<0.00286	<0.00276	<0.00269	<0.00255	<0.00271	<0.00281	<0.0253	<0.0275	<0.0284	<0.0279	<0.0281	<0.0287	<0.027
Acenaphthene	900	60,000	38	<0.0755	<0.00748	<0.00771	<0.00745	<0.00724	<0.00687	<0.0073	<0.00757	<0.0683	<0.0743	<0.0764	<0.0753	<0.0757	<0.0773	<0.0727
Acenaphthylene	18	360	0.7	<0.0512	<0.00507	<0.00522	<0.00505	<0.00491	<0.00466	<0.00495	<0.00513	<0.0463	<0.0503	<0.0518	<0.051	<0.0513	<0.0524	<0.0492
Anthracene	5,000	300,000	3,000	<0.0353	<0.0035	<0.00361	<0.00349	<0.00339	<0.00322	<0.00342	<0.00354	0.0628	<0.0347	<0.0358	<0.0352	<0.0354	<0.0362	<0.034
Benzo(a)Anthracene	0.088	3.9	17	<0.0305	<0.00302	<0.00311	<0.003	<0.00292	<0.00277	<0.00294	<0.00305	0.464[A]	0.108[A]	<0.0308	<0.0304	<0.0305	<0.0312	<0.0293
Benzo(a)Pyrene	0.0088	0.39	48	<0.028	<0.00277	<0.00286	<0.00276	<0.00269	<0.00255	<0.00271	<0.00281	0.677[A]	0.172[A]	<0.0284	<0.0279	<0.0281	<0.0287	<0.027
Benzo(b)Fluoranthene	0.088	3.9	360	<0.0134	<0.00133	<0.00137	<0.00132	<0.00129	<0.00122	<0.0013	<0.00134	1.08[A]	0.325[A]	<0.0136	<0.0134	<0.0134	<0.0137	<0.0129
Benzo(ghi)Perylene	1.8	39	6,800	<0.0122	<0.00121	<0.00124	<0.0012	<0.00117	<0.00111	<0.00118	<0.00122	0.805	0.326	<0.0123	<0.0122	<0.0122	<0.0125	<0.0117
Benzo(k)Fluoranthene	0.88	39	870	<0.0146	<0.00145	<0.00149	<0.00144	<0.0014	<0.00133	<0.00141	<0.00147	0.322	0.0965	<0.0148	<0.0146	<0.0147	<0.015	<0.0141
Chrysene	8.8	390	37	<0.0244	<0.00241	<0.00249	<0.0024	<0.00234	<0.00222	<0.00236	<0.00244	0.446	0.11	<0.0247	<0.0243	<0.0244	<0.0249	<0.0234
Dibenzo(a,h)Anthracene	0.0088	0.39	38	<0.0171	<0.00169	<0.00174	<0.00168	<0.00154	<0.00155	<0.00165	<0.00171	0.0441A	0.402[AB]	<0.0173	<0.017	<0.0171	<0.0175	<0.0164
Fluoranthene	600	40,000	500	<0.0317	<0.00314	<0.00323	<0.00313	<0.00304	<0.00288	<0.00306	<0.00317	0.568	0.125	<0.0321	<0.0316	<0.0317	<0.0324	<0.0305
Fluorene	600	40,000	100	<0.0426	<0.00422	<0.00435	<0.00421	<0.00409	<0.00388	<0.00412	<0.00427	<0.0382	<0.0419	<0.0432	<0.0425	<0.0427	<0.0436	<0.041
Indeno(1,2,3-cd)Pyrene	0.088	3.9	680	<0.0207	<0.00205	<0.00211	<0.00204	<0.00199	<0.00188	<0.002	<0.00208	0.848[A]	0.327[A]	<0.021	<0.0207	<0.0208	<0.0212	<0.0199
Naphthalene	20	110	0.4	<0.0475	<0.0047	<0.00485	<0.00469	<0.00456	<0.00432	<0.00459	<0.00476	<0.043	<0.0467	<0.0481	<0.0474	<0.0476	<0.0486	<0.0457
Phenanthrene	18	390	1.8	0.0667	0.00456[J]	<0.00199	<0.00192	<0.00187	<0.00177	<0.00188	<0.00195	0.194	0.0423	<0.0197	<0.0194	<0.0195	<0.02	<0.0188
Pyrene	500	30,000	8,700	<0.0378	<0.00374	<0.00386	<0.00373	<0.00362	<0.00344	<0.00365	<0.00379	0.637	0.157	<0.0382	<0.0377	<0.0379	<0.0387	<0.0363
	NR 720 Generic RCLs or EPA Region IX Preliminary Remediation Goals																	
	Direct Contact Pathway																	
	Residential[E]	Industrial[F]	Groundwater Pathway															
VOCs (mg/kg)																		
1,2,4-Trimethylbenzene	52	170	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
cis-1,2-Dichloroethylene	43	150	0.4[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	–	–	2.9[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropyl Ether	–	–	–	<1.22	<2.41	<0.025	<0.24	<0.023	<0.022	<0.024	<0.024	<0.022	<0.024	<0.025	<0.024	<0.024	<0.025	<0.023
m- & p-Xylene	–	–	4.1[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	–	–	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0334	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	140	240	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
o-Xylene	–	–	4.1[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	110	220	–	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0701	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethylene	5.7	19	0.06[G]	132[E,F,G]	322[E,F,G]	0.0944[G]	0.0481[G]	<0.025	<0.025	<0.025	<0.025	0.42[G]	0.112[G]	<0.025	<0.025	<0.025	<0.025	0.8105[G]
Toluene	–	–	1.5[D]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethylene	63	210	0.7[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethylene	2.8	6.1	0.006[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.084[G]
Vinyl Chloride	0.15	0.83	0.01[G]	<1.00	<2.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes:
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds
A = Exceedance of Generic RCL for protection of human health due to direct contact for non-industrial sites.
B = Exceedance of Generic RCL for protection of human health due to direct contact for industrial sites.
C = Exceedance of Generic RCL for protection of groundwater quality.
D = NR 720 Generic RCLs based on protection of groundwater.
E = Exceedance of EPA Region III Risk-Based Concentration for ingestion at a residential site.
F = Exceedance of EPA Region III Risk-Based Concentration for ingestion at an industrial site.
G = Exceedance of EPA Region III Risk-Based Concentration for transfer from soil to groundwater.
Bold indicates value above detection limit.
J = Estimated concentration below laboratory quantitation level.

Table 2
Summary of Soil Analytical Results – Soil Boring Samples
Kenosha Brownfield Investigation – C L Industrial Cleaners
STS Project No. 86415XB Task 2000

	NR 720 Generic RCLs			Sample Number, Date, Depth and PID Reading																			
	Direct Contact Pathway			Soil Borings																			
Parameters	Non-Industrial[A]	Industrial[B]	Groundwater Pathway[D]	CL-B01-S02 4/30/01 2.5-4.5' 1.6	CL-B01-S03 4/30/01 5-7' 0.8	CL-B02-S01 4/30/01 0-2' 0.8	CL-B02-S02 4/30/01 2-4' 1.2	CL-B03-S02 4/30/01 2-4' 0.4	CL-B03-S03 4/30/01 5-7' 0.0	CL-B04-S02 4/30/01 2.5-4.5' 0.2	CL-B04-S04 4/30/01 7.5-9.5' 0.0	CL-B05-S01 4/30/01 0-2' 3.1	CL-B05-S02 4/30/01 2.5-4.5' 1.0	CL-B06-S01 5/1/01 0-2' 6.3	CL-B06-S02 5/1/01 2.5-4.5' 9.4	CL-B07-S02 5/2/01 2.5-4.5' 7.7	CL-B09-S03 5/2/01 5-7' 3.1	CL-B11-S01 5/2/01 0-2' 0.0	CL-B12-S03 5/1/01 5-7' 0.0	CL-B15-S03 5/2/01 5-7' 0.0	CL-B16-S03 5/1/01 5-7' 0.0	CL-B17-S02 5/1/01 2.5-4.5' NA	CL-B17-S03 5/1/01 5-7' NA
Metals (mg/kg)																							
Total Antimony	–	–	–	<1.97	<2.01	<2.00	<2.12	<1.93	<2.03	<2.06	<2.05	<1.88	<1.98	<1.94	<1.94	<1.97	<2.05	<1.89	<1.91	<2.32	<2.14	<2.48	<2.25
Total Arsenic	0.039	1.6	–	2.60^{AB}	3.85^{AB}	3.40^{AB}	6.10^{AB}	2.51^{AB}	3.56^{AB}	3.33^{AB}	1.40^{A}	4.58^{AB}	7.30^{AB}	3.28^{AB}	3.66^{AB}	5.06^{AB}	3.27^{AB}	4.11^{AB}	9.89^{AB}	2.02^{AB}	1.14^{A}	2.22^{AB}	1.67^{AB}
Total Barium	–	–	–	38.9	12.8	49.4	86.9	34.9	22.0	64.5	3.98	37.4	66.7	25.9	31.1	50.8	41.3	20.4	79.7	69.7	31.8	57.5	67.4
Total Cadmium	8	510	–	0.151	0.272	0.141	0.96	0.204	0.0752	0.339	0.277	0.255	0.256	0.137	0.308	0.22	0.104	0.211	0.248	0.559	0.0754	0.321	0.265
Total Chromium	16,000	NA	–	12.6	7.62	13.6	14.8	11.8	18.3	14.5	3.89	9.05	12.3	9.01	22.3	6.96	14.5	15.1	14.1	12.1	6.77	9.39	9.38
Total Copper	–	–	–	7.25	7.27	22.7	18.6	20.4	7.63	14.8	13.0	45.5	18.0	38.6	66.5	6.79	15.5	34.3	16.9	19.1	3.73	10.4	8.20
Total Lead	50	500	–	4.92	4.07	6.92	461^{A}	32.1	6.30	20.5	4.24	22.2	9.91	8.13	26.2	7.77	71.7^{A}	20.9	10.1	8.09	3.35	10.2	5.58
Total Mercury	–	–	–	0.0742	<0.0473	<0.0469	0.0561	0.059	<0.0477	0.0582	<0.0481	<0.0443	<0.0466	<0.0456	0.125	<0.0463	<0.0482	<0.0444	0.0529	0.0832	<0.0503	0.0584	0.0796
Total Nickel	–	–	–	8.42	11.6	16.5	15.3	8.75	9.83	11.9	6.14	9.99	17.8	9.17	23.8	10.2	12.7	17.2	22.3	9.75	4.54	6.15	5.40
Total Selenium	–	–	–	<0.382	<0.391	<0.387	1.03	0.522	<0.394	<0.4	<0.397	<0.366	<0.384	0.433	0.764	0.544	<0.398	<0.367	<0.372	0.982	0.427	1.2	0.57
Total Silver	–	–	–	<0.116	<0.118	<0.117	<0.125	<0.113	<0.119	<0.121	<0.12	<0.111	<0.116	<0.114	<0.114	<0.116	<0.12	<0.111	<0.113	<0.136	<0.126	<0.146	<0.133
	NR 720 Generic RCLs																						
	Direct Contact Pathway																						
	Non-Industrial[A]	Industrial[B]	Groundwater Pathway[D]																				
PAHs (mg/kg)																							
1-Methyl Naphthalene	1,100	70,000	23	<0.00336	<0.00343	<0.0034	<0.0362	0.00687^{J}	<0.00346	0.0632	<0.0349	<0.00322	<0.00358	0.00539^{J}	<0.0331	<0.00336	<0.0349	<0.0322	<0.00327	<0.00396	<0.00364	0.00426^{J}	<0.00385
2-Methyl Naphthalene	600	40,000	20	<0.00267	<0.00272	<0.0027	<0.0287	0.00937	<0.00274	0.0314	<0.0277	<0.00255	0.00303^{J}	0.00321^{J}	0.1	<0.00266	<0.0277	<0.0256	<0.00259	<0.00314	<0.00289	0.00667^{J}	<0.00305
Acenaphthene	900	60,000	38	<0.00718	<0.00734	<0.00728	<0.0773	0.0136^{J}	<0.0074	<0.0752	<0.0746	<0.00687	<0.00722	<0.00706	<0.0707	<0.00718	<0.0747	<0.0689	<0.00698	<0.00846	<0.00779	<0.00905	<0.00822
Acenaphthylene	18	360	0.7	<0.00487	<0.00497	<0.00493	<0.0524	<0.00476	<0.00501	<0.0509	<0.0505	<0.00466	<0.00489	<0.00478	<0.0479	<0.00486	<0.0506	<0.0467	<0.00473	<0.00573	<0.00528	<0.00613	<0.00557
Anthracene	5,000	300,000	3,000	<0.00336	<0.00343	<0.0034	<0.0362	0.00632^{J}	<0.00346	0.13	<0.0349	<0.00322	0.0111	<0.0033	<0.0331	<0.00336	0.173	<0.0322	<0.00327	<0.00396	<0.00364	<0.00423	<0.00385
Benzo(a)Anthracene	0.088	3.9	17	0.00502^{J}	<0.00246	<0.00293	<0.0312	0.147^{A}	<0.00298	0.762^{A}	<0.0301	0.0122	0.0115	0.0178	<0.0285	0.00389^{J}	0.242^{A}	<0.0278	<0.00282	<0.00341	<0.00314	<0.00365	<0.00332
Benzo(a)Pyrene	0.0088	0.39	48	0.0046^{J}	<0.00272	<0.0027	<0.0287	0.265^{A}	<0.00274	0.65^{AB}	<0.0277	0.0142^{A}	0.00808^{J}	0.0371^{A}	0.027^{A}	0.00363^{J}	0.249^{A}	0.0439^{A}	<0.00259	<0.00314	<0.00289	0.00413^{J}	<0.00305
Benzo(b)Fluoranthene	0.088	3.9	360	0.0262	<0.0013	0.0129	0.0584	0.362^{A}	<0.00131	0.629^{A}	<0.0132	0.0312	0.0136	0.0429	<0.0125	0.00704	0.292^{A}	0.0753	<0.00124	<0.0015	0.00461	0.00778	<0.00146
Benzo(ghi)Perylene	1.8	39	6,800	0.00505	<0.00118	0.0604	0.0192	0.26	<0.00119	0.253	<0.012	0.00831	0.012	0.0228	<0.0114	0.00242^{J}	0.181	0.0294	<0.00113	<0.00136	<0.00126	0.00323^{J}	<0.00133
Benzo(k)Fluoranthene	0.88	39	870	<0.00139	<0.00142	0.0194	0.0207	0.138	<0.00143	0.379	<0.0144	0.00965	0.0126	0.0253	<0.0137	<0.00139	0.131	0.0356	<0.00135	<0.00164	0.0029^{J}	0.0027^{J}	<0.00159
Chrysene	8.8	390	37	0.00684^{J}	<0.00237	<0.00235	0.0423	0.141	<0.00239	0.857	<0.0241	0.0106	0.0105	0.0191	0.0335	0.00469^{J}	0.2	0.0333	<0.00225	<0.00273	0.00307^{J}	<0.00292	<0.00265
Dibenzo(a,h)Anthracene	0.0088	0.39	38	0.00783	<0.00166	<0.00164	0.0279^{A}	<0.00159	<0.00167	0.0305^{A}	<0.0168	0.0367^{A}	0.0253^{A}	0.0708^{A}	<0.016	<0.00162	0.128^{A}	<0.0156	<0.00158	<0.00191	<0.00176	<0.00204	<0.00186
Fluoranthene	600	40,000	500	0.0221	<0.00308	0.0553^{J}	0.0374	0.164	0.00348^{J}	1.52	<0.0313	0.0366	0.032	0.0281	0.0425	0.0177	0.801	0.0587	<0.00293	0.0057^{J}	0.0079^{J}	0.0171	<0.00345
Fluorene	600	40,000	100	<0.00406	<0.00414	<0.00411	<0.0436	<0.00397	<0.00418	<0.0424	<0.0421	<0.00388	<0.00407	<0.00399	<0.0399	<0.00405	<0.0422	<0.0389	<0.00394	<0.00477	<0.0044	<0.00511	<0.00464
Indeno(1,2,3-cd)Pyrene	0.088	3.9	680	0.00592^{J}	<0.00201	0.011	0.0276	0.278^{A}	<0.00203	0.285^{A}	<0.0205	0.0171	0.00853	0.0296	0.029	0.00731	0.198^{A}	0.0429	<0.00191	<0.00232	0.00489^{J}	0.0122	<0.00225
Naphthalene	20	110	0.4	0.00461^{J}	<0.00462	<0.00458	<0.0486	0.00747^{J}	<0.00465	<0.0473	<0.0469	<0.00432	<0.00454	<0.00444	<0.0445	<0.00451	<0.047	<0.0433	<0.00439	<0.00532	<0.0049	<0.00569	<0.00517
Phenanthrene	18	390	1.8	0.0129	<0.00189	0.0158	0.0608	0.00533^{J}	<0.00191	0.469	<0.0193	0.0162	0.035	0.0179	0.0566	0.0116	0.665	0.0531	<0.0018	0.0117	0.00882	0.0165	<0.00212
Pyrene	500	30,000	8,700	0.0166	<0.00367	0.00798^{J}	0.063	0.209	<0.0037	2.29	<0.0373	0.0314	0.0315	0.0413	0.0675	0.0105^{J}	0.199	0.0637	<0.00349	0.00714^{J}	0.00745^{J}	0.0147	<0.00411
	NR 720 Generic RCLs or EPA Region IX Preliminary Remediation Goals																						
	Direct Contact Pathway																						
	Residential[E]	Industrial[F]	Groundwater Pathway																				
VOCs (mg/kg)																							
1,2,4-Trimethylbenzene	52	170	–	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0452	0.064	<0.025	<0.025	<0.025	0.0342	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
cis-1,2-Dichloroethylene	43	150	0.4^{C}	<0.025	<0.025	<0.025	0.485^{G}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.361	10.8^{G}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	–	–	2.9^{D}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.065	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropyl Ether	–	–	–	<0.023	<0.024	<0.024	<0.025	<0.023	<0.024	<0.024	<0.024	<0.022	<0.023	0.255	<0.023	<0.023	<0.024	<0.022	<0.024	<0.027	<0.025	<0.025	<0.025
m- & p-Xylene	–	–	4.1^{D}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0341	<0.025	<0.025	0.0415	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	–	–	–	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0828	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	140	240	–	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.174	0.319	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
o-Xylene	–	–	4.1^{D}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0341	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	110	220	–	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.121	0.166	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethylene	5.7	19	0.06^{G}	<0.025	<0.025	4.13^{G}	<0.025	0.12^{G}	0.0594	<0.025	<0.025	0.327^{G}	<0.025	0.595^{G}	0.138^{G}	<0.025	<0.025	0.737^{G}	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	–	–	1.5^{D}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0683	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethylene	63	210	0.7^{G}	<0.025	<0.025	<0.025	0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.031	0.399	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethylene	2.8	6.1	0.006^{G}	<0.025	<0.025	0.0521^{G}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.271^{G}	0.0364^{G}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Vinyl Chloride	0.15	0.83	0.01^{G}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	$0.221^{E,G}$	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes:
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds
A = Exceedance of Generic RCL for protection of human health due to direct contact for non-industrial sites.
B = Exceedance of Generic RCL for protection of human health due to direct contact for industrial sites.
C = Exceedance of Generic RCL for protection of groundwater quality.
D = NR 720 Generic RCLs based on protection of groundwater.
E = Exceedance of EPA Region III Risk-Based Concentration for ingestion at a residential site.
F = Exceedance of EPA Region III Risk-Based Concentration for ingestion at an industrial site.
G = Exceedance of EPA Region III Risk-Based Concentration for transfer from soil to groundwater.
Bold indicates value above detection limit.
J = Estimated concentration below laboratory quantitation level.

Table 3
Summary of Pit Sludge Results
Kenosha Brownfield Investigation - C L Industrial Cleaners
STS Project No. 86415XB Task 2000

Parameters (in mg/kg except as noted)	Sample Number and Date						
	CL-P1-SL010423 04/23/2001	CL-P4-SL010423 04/23/2001	CL-P5-SL010423 04/23/2001	CL-P6-SL010423 04/23/2001	CL-P7-SL010423 04/23/2001	CL-P3W010423 04/23/2001 *(liquid sample) results in mg/L*	TCLP Regulatory Level (mg/L)
Metals							
Antimony	**178**	**20.9**	**36.9**	**35.8**	**17.9**	<0.080	
Arsenic	**12.1**	**7.08**	**9.86**	**11.4**	**7.94**	**0.029**	5.0
Barium	**2400**[A]	**882**	**253**	**217**	**118**	**3.810**	100
Cadmium	**193**[A]	**106**[A]	**45.5**[A]	**35.0**[A]	**55.3**[A]	**0.182**	1.0
Chromium	**805**[A]	**966**[A]	**1240**[A]	**1140**[A]	**620**[A]	**3.640**	5.0
Copper	**15000**	**13500**	**29600**	**33700**	**39500**	**7.450**	
Lead	**3540**[A]	**1790**[A]	**1860**[A]	**1520**[A]	**1270**[A]	**3.910**	5.0
Mercury	**2.34**	**0.709**	**0.504**	**0.358**	**0.25**	**0.00110**	0.2
Nickel	**280**	**2010**	**4680**	**4980**	**979**	**1.300**	
Selenium	**43.3**[A]	**16.0**	**7.83**	**4.86**	**43.8**[A]	**0.033**	1.0
Silver	**12.7**	**7.46**	**33.8**	**27.3**	**9.27**	**0.034**	5.0
PAHs							
1-Methyl Naphthalene	**19.3**	<1.03	**0.346**	<0.0346	**17.6**	**0.00172**	
2-Methyl Naphthalene	**21.9**	**2.68**	**0.283**	<0.0274	<2.50	**0.00717**	
Acenaphthene	<2.36	<2.20	<0.713	<0.074	<6.73	<0.00100	
Acenaphthylene	<1.60	<1.49	<0.483	<0.0501	<4.56	<0.00150	
Anthracene	<1.10	<1.03	<0.334	**0.163**	**11.3**	<0.0009	
Benzo(a)Anthracene	**11.7**	**2.18**	**1.45**	<0.0298	**5.65**	<0.0003	
Benzo(a)Pyrene	<0.532	**2.85**	**0.824**	**0.625**	**2.91**	<0.0002	
Benzo(b)Fluoranthene	**1.64**	**3.59**	**1.14**	**0.809**	**5.42**	<0.0002	
Benzo(ghi)Perylene	**2.29**	**3.19**	**1.19**	**0.484**	**9.77**	<0.0009	
Benzo(k)Fluoranthene	**1.38**	**1.69**	**0.567**	**0.354**	**2.26**	<0.0003	
Chrysene	**5.29**	**1.16**	**0.644**	<0.0239	**6.13**	<0.0002	
Dibenzo(a,h)Anthracene	**0.967**	<0.496	<0.161	**0.249**	<1.52	<0.0006	
Fluoranthene	**2.77**	**8.50**	**2.59**	**0.893**	**54.1**	<0.0003	
Fluorene	**3.47**	<1.24	<0.403	**0.0943**	**4.43**	**0.000753**	
Indeno(1,2,3-cd)Pyrene	**2.42**	**0.63**	**0.705**	**0.376**	**1.90**	<0.0006	
Naphthalene	**7.90**	**2.52**	<0.449	<0.0465	<4.23	**0.0126**	
Phenanthrene	**17.0**	**2.26**	**0.716**	**0.47**	**63.3**	<0.00110	
Pyrene	**8.80**	**8.21**	**3.29**	**1.65**	**29.4**	<0.00100	
VOCs							
1,2,4-Trimethylbenzene	**19.2**	**24.6**	**4.17**	**0.905**	<0.4	**0.315**	
1,3,5-Trimethylbenzene	**16.0**	**22.0**	**2.21**	**0.8**	<0.4	**0.131**	
Ethylbenzene	**4.47**	<2.00	<0.4	**0.0394**	<0.4	**0.080**	
Isopropylbenzene	<2.00	<2.00	<0.4	<0.025	<0.4	**0.0139**	
m- & p-Xylene	**19.9**	**4.88**	**0.6**	**0.138**	<0.4	**0.589**	
Naphthalene	<2.00	**3.95**	**1.01**	**0.132**	<0.4	**0.0213**	
n-Butylbenzene	**6.68**	<2.00	**5.01**	**1.09**	<0.4	**0.0131**	
n-Propylbenzene	<2.00	**5.40**	**1.09**	<0.025	<0.4	**0.0269**	
o-Xylene	**4.08**	<2.00	<0.4	**0.0752**	<0.4	**0.193**	
p-Isopropyltoluene	<2.00	<2.00	**8.28**	**0.693**	<0.4	<0.004	
sec-Butylbenzene	<2.00	<2.00	<0.4	**1.24**	<0.4	**0.00840**	
Styrene	<2.00	<2.00	<0.4	**0.0451**	<0.4	<0.003	
tert-Butylbenzene	<2.00	<2.00	<0.4	**0.529**	<0.4	<0.003	
Tetrachloroethylene	<2.00	**3.38**	<0.4	**0.122**	**67.5**	<0.003	0.7
Toluene	<2.00	<2.00	**0.984**	**0.795**	<0.4	**0.0188**	
PCBS							
1016	<98.8	<0.092	<0.75	<7.76	<7.06	<0.0054	
1221	<198	<0.184	<1.5	<15.5	<14.1	<0.0054	
1232	<342	<0.319	<2.59	<26.8	<24.4	<0.0058	
1242	<76	<0.071	<0.58	<5.97	<5.43	<0.0034	
1248	<236	<0.220	<1.78	<18.5	<16.8	<0.006	
1254	<380	<0.355	<2.88	<29.8	<27.1	<0.0054	
1260	<106	<0.099	<0.81	<8.35	<7.6	<0.006	

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons
PCBs = Polychlorinated Biphenyls
VOCs = Volatile Organic Compounds
Bold indicates value above detection limit.
Note: Only detected VOCs are presented above.
[A] - Exceeds the theoretical TCLP regulatory limit. For solid samples, a twenty-fold dilution is incorporated into the TCLP limit. Therefore solid samples having in excess of 20 times the TCLP regulatory limit could exceed their respective TCLP limit. These materials need to be re-tested using the TCLP method to confirm or deny whether they should be classified as TCLP hazardous.

Table 4
Summary of Groundwater Analytical Results
Kenosha Brownfield Investigation – C L Industrial Cleaners
STS Project No. 86415XB Task 2000

Parameter	RCLs ES	RCLs PAL	Temporary Well Samples: CL-G1-W010501 5/01/01	CL-G2-D010501 5/01/01 (Duplicate)	CL-G2-W010501 5/01/01	CL-G3-B010501 5/01/01 (Blank)	CL-G3-W010501 5/01/01	CL-G4-W010501 5/01/01	CL-G5-W010501 5/01/01	NR 141 Well Samples: CL-SB03W010514 5/14/01	CL-SB05W10514 5/14/01	CL-SB06W010514 5/14/01	CL-SB07D010514 5/14/01 (Duplicate)	CL-SB07W010514 5/14/01	CL-SB12B010514 5/14/01 (Blank)	CL-SB12W010514 5/14/01	CL-SB16W010514 5/14/01
Metals (ug/L)																	
Antimony	6	1.2	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21	<1.21
Arsenic	50	5	**4.90**	<2.40	<2.40	<2.40	<2.40	<2.40	<2.40	<2.40	<2.40	**3.01^{J}**	<2.40	<2.40	<2.40	<2.40	<2.40
Barium	2000	400	**11**	**22**	**22**	**72**	**39**	**17**	**7**	**69**	**157**	**189**	**53**	**56**	<2	**134**	**199**
Cadmium	5	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	0.37	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	100	10	<1	**1.6^{J}**	**1^{J}**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	1300	130	<4	<4	<4	<4	<4	**10^{J}**	<4	<4	<4	<4	<4	<4	<4	<4	<4
Lead	15	1.5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Mercury	2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nickel	100	20	**4^{J}**	**4^{J}**	**6^{J}**	<3	**74**	**120**	<3	<3	**8^{J}**	**23**	**4^{J}**	**4^{J}**	<3	<3	**4^{J}**
Selenium	50	10	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Silver	50	10	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
PAHs (µg/l)																	
Acenaphthene	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	--	--	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Anthracene	3000	600	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Benzo(a)Anthracene	--	--	<0.03	<0.03	<0.03	<0.03	**0.07^{J}**	<0.03	**0.084^{J}**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)Pyrene	0.2	0.02	<0.02	<0.02	<0.02	<0.02	**0.175**	<0.02	**0.17**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(b)Fluoranthene	0.2	0.02	<0.02	<0.02	<0.02	<0.02	**0.213**	<0.02	**0.233**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(k)Fluoranthene	--	--	<0.03	<0.03	<0.03	<0.03	**0.105**	<0.03	**0.104**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(ghi)Perylene	--	--	<0.09	<0.09	<0.09	<0.09	**0.159^{J}**	<0.09	**0.151^{J}**	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Chrysene	0.2	0.02	<0.02	<0.02	<0.02	<0.02	**0.071**	<0.02	**0.085**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenzo(a,h)Anthracene	--	--	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Fluoranthene	400	80	<0.03	<0.03	<0.03	<0.03	**0.16**	<0.03	**0.087^{J}**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Fluorene	400	80	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Indeno(1,2,3-cd)Pyrene	--	--	<0.06	<0.06	<0.06	<0.06	**0.206**	<0.06	**0.196^{J}**	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
1-Methyl Naphthalene	--	--	<0.13	<0.13	<0.13	<0.13	**0.162^{J}**	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
2-Methyl Naphthalene	--	--	<0.12	<0.12	<0.12	<0.12	**0.284^{J}**	<0.12	**0.151^{J}**	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Naphthalene	40	8	<0.06	<0.06	<0.06	<0.06	**0.128^{J}**	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Phenanthrene	--	--	<0.11	<0.11	<0.11	<0.11	**0.197^{J}**	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Pyrene	250	50	<0.1	<0.1	<0.1	<0.1	**0.115^{J}**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VOCs (µg/l)																	
Benzene	5	0.5	<150	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	**0.375^{J}**	<0.15	**0.216^{J}**	<0.15	<0.15	<0.15
cis-1,2-Dichloroethene	70	7	<150	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	**0.524**	**1.28**	**6.65**	<0.15	<0.15	<0.15	**138**	<0.15
Tetrachloroethene	5	0.5	**27,200**	**4.18**	**4.20**	<0.15	<0.15	**0.224^{J}**	<0.15	**3.41**	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
trans-1,2-Dichloroethene	100	20	<150	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	**0.415^{J}**	<0.15	<0.15	<0.15	**6.10**	<0.15
Trichloroethene	5	0.5	<100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.486**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl Chloride	0.2	0.02	<120	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	**1.16**	**4.51**	<0.12	<0.12	<0.12	**10.3**	<0.12

Notes:
VOCs = Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
12 - NR140, WAC Preventive Action Limit exceedance
200 - NR140 Enforcement Standard exceedance
Bold indicates value above detection limit.
-- No NR140 ES or PAL established
NA = Not analyzed.
J = Estimated concentration below laboratory quantitation limit.

Table 5
Groundwater Measurements and Elevations
C & L Industrial Cleaners; Kenosha, Wisconsin

Well ID	Total Well Depth (Feet)	Top of Casing Elevation (Ft AMSL)[1]	Depth to Water (Feet)		Groundwater Elevations (Ft AMSL)	
			May 2001 (STS)	December 2003 (START)	May 2001 (STS)	December 2003 (START)
Monitoring Wells						
B3	17.57	620.84	7.97	7.25	612.87	613.59
B5	17.55	621.2	7.78	10.64	613.42	610.56
B6	17.68	621.82	8.38	11.74	613.44	610.08
B7	17.84	618.02	4.89	5.59	613.13	612.43
B12	16.69	617.11	5.94	6.33	611.17	610.78
B16	17.97	615.17	7.69	7.69	607.48 [2]	607.48
MW-1	17.49	--	--	9.71	--	--
MW-2	17.77	--	--	10.76	--	--
MW-3	17.52	--	--	7.06	--	--

Notes: 1. Elevation measurements obtained by STS.
2. Corrected value (originally reported as 609.42 feet, see Table 1 in STS report)

Table 6
Analytical Constituents in Soil
Targeted Brownfields Assessment
C & L Industrial Cleaners; Kenosha, Wisconsin

Well No.	Sample ID	Sample Depth (ft bgs)	Volatile Organic Compounds (mg/kg) Method EPA 8021			Method EPA 6010
			Cis-1,2-Dichloroethylene (DCE)	Trichloroethylene (TCE)	Tetrachloroethylene (PCE)	Total Nickel
Monitoring Wells						
MW-1	2003TN01S16	4-6	<0.025	<0.025	<0.025	6.93
	2003TN01S17	12-14	<0.025	<0.025	<0.025	8.08
MW-2	2003TN01S18	6-8	<0.025	<0.025	<0.025	15.1
	2003TN01S19	12-14	<0.025	<0.025	<0.025	17.9
MW-3	2003TN01S14	6-8	<0.025	<0.025	<0.025	6.39
	2003TN01S15	12-14	<0.025	<0.025	<0.025	23.5
Geoprobe Locations						
GP-1	2003TN01S13	12	<0.025	<0.025	**50**	--
GP-2	2003TN01S12	--	--	--	--	--
GP-3	2003TN01S11	--	--	--	--	--
GP-4	2003TN01S09	--	--	--	--	--
GP-5	2003TN01S08	9	<0.025	<0.025	<0.025	--
GP-6	2003TN01S06	12	<0.025	<0.025	<0.025	--
GP-7	2003TN01S10	10.5	<0.025	<0.025	<0.025	--
GP-8	2003TN01S07	8	<0.025	<0.025	<0.025	--
GP-9	2003TN01S04	7	**0.0448**	<0.025	<0.025	--
GP-10	2003TN01S03	7.5	**0.0768**	<0.025	<0.025	--
GP-11	2003TN01S02	8.5	**0.0718**	**0.504**	<0.025	--
GP-12	2003TN01S01	9	<0.025	<0.025	<0.025	--
GP-13	2003TN01S05	8	<0.025	<0.025	<0.025	--

Notes: ft bgs – feet below ground surface
All results reported in mg/kg
-- = no sample taken

Table 7
Organics Constituents in Groundwater
Targeted Brownfields Assessment
C & L Industrial Cleaners; Kenosha, Wisconsin

Well or Boring	Field Sample ID	Sampling Interval[1] (ft bgs)	Volatile Organics (ug/L) Method EPA 8021							Polynuclear Aromatics (ug/l) Method EPA 8310	
			Benzene	Cis 1,2-DCE	Trans 1,2-DCE	PCE	TCE	Vinyl Chloride	Naphthalene	1-Methyl Naphthalene	2-Methyl Naphthalene
Monitoring Wells											
MW-1	2003TN01S52	5-15	<0.31	**149**	**26.4**	<0.32	<0.36	**2.51**	<0.8	<0.0872	<0.12
MW-2	2003TN01S56	5-15	<0.31	<0.23	<0.39	<0.32	<0.36	<0.2	<0.8	--	--
MW-3	2003TN01S53	5-15	<0.62	**224**	<7.8	<6.4	<7.2	**8.76**	0.125J	0.125J	0.309J
B-3	2003TN01S55	7.57-17.50	<1.55	**16.3**	<1.95	**56.1**	<1.8	<1	<4.00	--	--
B-5	2003TN01S57	7.71-17.55	<0.31	<0.23	<0.39	<0.32	<0.36	**0.272**	<0.8	--	--
B-6	2003TN01S58	7.98-17.68	0.322	**13.4**	0.52	<0.32	<0.36	**1.98**	<0.8	<1.68	<2.31
B-7	2003TN01S51	7.95-17.84	<0.31	<0.23	<0.39	<0.32	<0.36	<0.2	<0.8	--	--
B-12	2003TN01S54	6.94-16.69	<0.31	**152**	5.70	<0.32	<0.36	<0.2	<0.8	--	--
B-16	2003TN01S50	8-17.97	<0.31	<0.23	<0.39	<0.32	<0.36	<0.2	<0.8	<0.0872	<0.12
Geoprobe Locations											
GP-1	2003TN01S13	8	<0.31	<0.23	<0.39	**1,130**	**2.48**	<0.2	<0.8	<0.114	<0.157
GP-4	2003TN01S09	9	<0.31	<0.23	<0.39	0.337	<0.36	<0.2	<0.8	--	--
GP-5*	2003TN01S08	9	--	--	--	--	--	--	--	--	--
GP-8	2003TN01S07	8	<0.31	<0.23	<0.39	<0.32	<0.36	<0.2	<0.8	--	--
GP-9	2003TN01S04	7	<0.31	0.502	<0.39	<0.32	<0.36	**7.21**	<0.8	--	--
GP-12	2003TN01S01	9	<0.31	<0.23	<0.39	<0.32	<0.36	**2.59**	<0.8	<0.44	<0.605
GP-13	2003TN01S05	8	<0.31	<0.23	<0.39	<0.32	<0.36	<0.2	<0.8	--	--
Regulatory Criteria											
NR 140 Preventative Action Limit			**0.5**	**7**	**20**	**0.5**	**0.5**	**0.02**	**8**		
NR 140 Enforcement Standard			**5**	**70**	**100**	**5**	**5**	**0.2**	**40**		

Notes: [1] Sampling Interval: top of screen equals depth originally reported be STS. Bottom of well measurement adjusted based on information collected by START.
ft bgs – feet below ground surface
* Not sampled for VOCs
J – Estimated value
-- = No sample taken

Table 8
Nickel in Groundwater
Targeted Brownfields Assessment
C & L Industrial Cleaners; Kenosha, Wisconsin

Well or Boring	Field Sample ID	Sampling Interval (ft bgs)	Method EPA 6010			Method EPA 6010		
			Nickel (Total)	LOD	LOQ	Nickel (Dissolved)	LOD	LOQ
Monitoring Wells								
MW-1	2003TN01S52	5-15	--	--	--	0.0481	0.003	0.01
MW-2	2003TN01S56	5-15	--	--	--	--	--	--
MW-3	2003TN01S53	5-15	--	--	--	0.0129	0.003	0.01
B-3	2003TN01S55	7.57-17.50	--	--	--	--	--	--
B-5	2003TN01S57	7.71-17.55	--	--	--	--	--	--
B-6	2003TN01S58	7.98-17.68	--	--	--	0.0062J	0.003	0.01
B-7	2003TN01S51	7.95-17.84	--	--	--	--	--	--
B-12	2003TN01S54	6.94-16.69	--	--	--	--	--	--
B-16	2003TN01S50	8-17.97	--	--	--	0.0201	0.003	0.01
Geoprobe Locations								
GP-1	2003TN01S13	8	--	--	--	--	--	--
GP-4	2003TN01S09	9	0.0833	0.003	0.01	--	--	--
GP-5*	2003TN01S08	9	0.0039J	0.003	0.01	--	--	--
GP-8	2003TN01S07	8	--	--	--	--	--	--
GP-9	2003TN01S04	7	0.008J	0.003	0.01	--	--	--
GP-12	2003TN01S01	9	0.015	0.003	0.01	--	--	--
GP-13	2003TN01S05	8	0.009J	0.003	0.01	--	--	--
Regulatory Criteria								
NR 140 Preventative Action Limit			**NE**			**20**		
NR 140 Enforcement Standard			**NE**			**100**		

Notes: [1] Sampling Interval: top of screen equals depth originally reported be STS. Bottom of well measurement adjusted based on information collected by START.
ft bgs – feet below ground surface
* Not sampled for VOCs
J – Estimated value
-- = No sample taken
NE – Not Established

Exhibit 1

City of Kenosha Request for Targeted Brownfields Assessment Assistance

JOHN M. ANTARAMIAN
MAYOR

CITY OF KENOSHA
625 - 52nd Street
Kenosha, Wisconsin 53140
(262) 653-4000
Fax (262) 653-4010

November 6, 2002

US Environmental Protection Agency
ATTN: Mr. Joe Dufficy
Region 5
Brownfield and Early Action Section
77 West Jackson Boulevard
Chicago, IL 60604-3590

Dear Mr. Dufficy:

The City of Kenosha is requesting Targeted Brownfield Assessment (TBA) assistance for a brownfield site owned by the city.

C & L Industrial Cleaners, 8927 Sheridan Road, Kenosha, Kenosha County, Wisconsin is a former industrial cleaner. After C & L, the site was then owned by BBL Barrel Company, who sold industrial supplies. Phase I and II assessments have been performed at the site that display sludge, soil and groundwater contamination with elevated concentrations of chlorinated volatile organic constituents, including PCE, TCE, DCE and vinyl chloride. The site is next to a residential area and sits west of a wetlands area.

We are seeking funds to perform supplemental assessments (Phase III) to determine what areas of the site are contaminated, the nature of the contamination, if the concentrations are significant with respect to human health and the environment and if remediation is required for redevelopment of the site. The site is an active participant in Wisconsin Department of Natural Resources clean up program and is currently involved in emergency clean up measures conducted by EPA.

It is our intention to clean up the C & L Industrial Cleaners site, and sell it with high expectations of gaining interested buyers for commercial use due to its prime location on a main highway. If you have any questions regarding this, please contact me or my staff member, Sharon Krewson, at 262-653-4028.

Sincerely,

John M. Antaramian
Mayor
City of Kenosha

JMA:jds

cc: Laura Ripley, EPA, Region V

Appendix A

Excerpts from STS Reports

Fid 230116500

STS CONSULTANTS

STS CONSULTANTS, LTD.

Phase II Environmental Site Assessment C&L Industrial Cleaners

City of Kenosha
Department of City Development

STS Project No. 586415XB-2000

THE INFRASTRUCTURE IMPERATIVE

STS Consultants, Ltd.
Solutions through Science & Engineering

October 4, 2001

Ms. Sharon Krewson
City of Kenosha - Department of City Development
625 - 52nd Street, Room 308
Kenosha, WI 53140

Re: Phase II Environmental Assessment for the Former C&L Industrial Cleaners, 8927 Sheridan Road, Kenosha, Wisconsin - STS Project No. 86415XB-T-2000

Dear Ms. Krewson:

STS Consultants, Ltd. (STS) has completed the Phase II Environmental Site Assessment authorized for the above-referenced property in general conformance with Sampling and Analysis Plan dated March 14, 2001 and the Quality Assurance Project Plan dated March 1, 2001. The purpose of this report is to present the results of the Phase II ESA.

We appreciate the opportunity to be of service to you. If there are any questions concerning the information contained in this report, please contact us.

Respectfully,

STS CONSULTANTS LTD.

Lanette Altenbach

Lanette Altenbach, P.G.
Senior Project Engineer

Thomas W. Kroeger

Thomas W. Kroeger, P.H.
Principal Hydrologist

Attachments

STS

NR 700 CERTIFICATIONS

"I, Lanette L. Altenbach, certify that I am a hydrogeologist as that term is defined in s.NR712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR700 to 726, Wis. Adm. Code."

Lanette L. Altenbach, P.G., C.P.G.
Senior Project Hydrogeologist

Date 10-10-01

WISCONSIN
LANETTE L.
ALTENBACH
G 167
MILWAUKEE,
WI
PROFESSIONAL GEOLOGIST

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EXECUTIVE SUMMARY

On behalf of the City of Kenosha Department of City Development, STS Consultants, Ltd. (STS) has completed a Phase II Environmental Site Assessment (ESA) for the property located at 8927 Sheridan Road in the City of Kenosha, Wisconsin. The City of Kenosha, under a grant from the United States Environmental Protection Agency (USEPA) Brownfields Economic Redevelopment Initiative, authorized this ESA to facilitate potential acquisition and redevelopment of the subject site. This Phase II ESA was performed for the purpose of determining the presence and nature of contamination due to the recognized environmental conditions (RECs), identified in the Phase I ESA.

The site buildings were previously occupied by C&L Industrial Cleaners and more recently by BBL Barrel Company. Reportedly, C&L Industrial Cleaners cleaned carpets for building entrances. It was not known if C&L Industrial Cleaners was involved in cleaning other types of materials or what type(s) of cleaning processes were used. Based on the results of the Phase II, it appears that a dry cleaning process involving tetrachloroethylene was used on the site. The BBL Barrel Company reportedly sold industrial supplies.

The following summarizes STS' findings regarding environmental conditions discovered as a result of completing the Phase II ESA for the site:

- It appears that C&L Industrial Cleaner used the dry cleaning solvent, tetrachloroethylene (PCE) in their cleaning process. Very high concentrations of PCE were observed in the sludge from Pit #7, located in the western portion of the building, as well as in the soil and groundwater samples collected from geoprobe G-1 located adjacent to this pit. It appears that Pit #7, or activity that may have occurred very close to Pit #7, present a source of PCE on the site. A secondary source of PCE is likely near G-5, which is located adjacent to a floor drain in the main garage area.
- Based on concentrations of PCE on other areas of the site (particularly in the drum storage areas near the shed; at B-2, near the northern property line; and, at TP-5, B-11 and B-12, in the undeveloped portion of the site), spillage of PCE appears to have occurred outside the building.
- Sludge samples collected from the various pits located within the building indicate that all or at least some of the sludge material is hazardous waste as defined under NR605.09. The sludges containing PCE (Pit #4, 6 and 7) may be classified as U210 or F002 listed hazardous waste. The sludge with no detectable PCE (Pit #1, 3, and 5) may also be classified as hazardous waste due to elevated levels of cadmium, chromium, lead, barium and selenium.
- An inventory of drummed wastes indicates that there are at least 15 sealed drums whose contents is either unknown or unconfirmed.

- Low levels of petroleum-related volatile organic constituents (VOCs) were detected in some of the soil samples collected from the site. These are likely a result of spills of small quantities of petroleum products but do not pose a significant risk to human health or the environment.

- The fill materials located on the eastern two-thirds of the site do not appear to be significantly affecting the underlying soil or groundwater quality of the site. The fill piles contained primarily concrete rubble and asphalt, as was observed on the surface. However, at TP-1 and TP-2, wood, a tire and hubcaps were observed and at TP-3, old car parts, a motor and electrical conduit were also observed. The materials may require removal prior to redevelopment for geotechnical and site grading purposes. ? AST in phase I

- It does not appear that the off-site underground storage tank (UST) located to the north of the site and identified in the Phase I ESA has impacted the site, since petroleum products were not detected in either of the borings (B-1 or B-2) located near the northern property limits.

- The potential impact of the off-site sources of solvents, identified in the Phase I ESA, is not apparent from the existing soil and groundwater information. Off-site sources may or may not be contributing to the impacts observed on the subject site.

Based on the above summary of findings and in consideration of the data quality objectives (DQOs) outlined in the Quality Assurance Project Plan (QAPP) and discussed further in the Sampling and Analysis Plan, STS has reached the following conclusions. Elevated concentrations of chlorinated volatile organic constituents, including PCE, trichloroethylene (TCE), dichloroethylene (DCE) and vinyl chloride were detected in the sludges, soil and groundwater of the subject property. The horizontal and vertical extent of the impacts has not been determined. It appears that the source of the contamination is within or near to Pit #7 located in the northern portion of the building and is a result of the use of PCE as a dry cleaning solvent on the subject property. The contaminant concentrations are significant with respect to human health and the environment and will require additional investigation and likely some element of remedial action prior to redevelopment of the site. However, it does not appear at this time that the level of impacts would preclude redevelopment of the site.

Based on the Phase II summary of findings and conclusions STS recommends the following:

- Additional groundwater monitoring wells should be installed and sampled in conjunction with re-sampling existing wells to evaluate the horizontal and vertical extent of chlorinated VOC impacts. We anticipate that an additional 6-8 monitoring wells will be necessary to determine the extent of the impacts.

- The sludge materials should be further tested to determine the appropriate management for disposal of the wastes.

- Drummed waste stored onsite should be evaluated by a hazardous waste contractor to determine their contents and for the management of their disposal.

PHASE II ENVIRONMENTAL SITE ASSESSMENT
C & L INDUSTRIAL CLEANERS
8927 SHERIDAN ROAD
KENOSHA, WISCONSIN

1.0 PROJECT OVERVIEW

1.1 Project Description

STS Consultants, Ltd. (STS) completed a Phase II Environmental Site Assessment (ESA) of the C & L Industrial Cleaners property located at 8927 Sheridan Road in Kenosha, Wisconsin. The property is owned by the City of Kenosha and encompasses approximately 2.9 acres. The City of Kenosha, under a grant from the United States Environmental Protection Agency (USEPA) Brownfields Economic Redevelopment Initiative, authorized this Phase II ESA to facilitate potential acquisition and redevelopment of the subject site. This Phase II ESA was performed for the purpose of determining the presence and nature of contamination due to the recognized environmental conditions (RECs), identified in the Phase I ESA.

The site is located in the Northwest ¼ of the Southeast ¼ of Section 18, Township 1 North, Range 23 East, in the City of Kenosha, Kenosha County Wisconsin. The location of the subject site is depicted in Figure 1. The site boundaries are depicted in Figure 2.

The following parties are involved in this project:

Site Owner:	City of Kenosha 625 52nd Street, Room 308 Kenosha, WI 53140	Ms. Sharon Krewson Development Director (262) 653-4028
Environmental Consultant:	STS Consultants, Ltd. 11425 W. Lake Park Dr. Milwaukee, WI 53224	Ms. Lanette Altenbach Project Hydrogeologist (414) 359-3030
Drilling Subcontractor:	North Shore Drilling P.O. Box 255 Grafton, WI 53024	Mr. Russ Lein President (262) 375-8121

Analytical Laboratory:

Analytical Laboratory:	U.S. Filter – Enviroscan 301 W. Military Road Rothschild, WI 54474	Mr. Eric Martin Quality Assurance Manager (715) 359-7226

1.2 Project History

On behalf of the City of Kenosha Department of City Development, STS completed a Phase I ESA report dated August 30, 2000 for the C&L Cleaners Site. As a result, the following site history/background was developed. The approximately 2.9 acre site is occupied by a main building (approximately 1,250 square feet) with attached garage (approximately 5,150 square feet) and a storage shed (approximately 625 square feet). The buildings are located within the western one-quarter of the property. East of the buildings the property is vacant. Piles of concrete rubble and miscellaneous debris are present on the eastern portion of the property. The building was occupied by C&L Industrial Cleaners from 1967 to 1995 and by BBL Barrel Company in 1998. It is not known how the property was used prior to 1967. According to Ms. Sharon Krewson of the City of Kenosha, C&L Industrial Cleaners cleaned carpets for building entrances. It is not known is C&L Industrial Cleaners was involved in cleaning other types of materials or what type(s) of cleaning processes were used. The BBL Barrel Company sold industrial supplies.

The Phase I ESA identified the following recognized environmental conditions in connection with the property:

- Several pits in the floor of the main building and garage contained either sludge of unknown composition, a rust-like substance, or water.
- The south and east sides of the shed were lined with 55-gallon drums. Some of the drums had covers. Drums with covers were not opened. Drums without covers contained used one-gallon paint cans, concrete rubble, and miscellaneous refuse.

Potential recognized environmental conditions associated with the property include the following:

- Solvents and other chemicals were used on one property to the north and one property to the south of the subject property. WDNR files for both of these sites indicate potential dumping and improper handling of wastes.
- The adjacent property to the north was observed to have an aboveground storage tank (AST). This AST was not registered with the State and its contents are not known.
- Mounds of concrete rubble were present east of the buildings.

2.0 METHODS OF INVESTIGATION

The investigative procedures used in this site investigation were consistent with the procedures described in the Sampling and Analysis Plan (SAP), dated March 14, 2001 and the Quality Assurance Project Plan (QAPP), dated March 1, 2001, except where noted below. A brief summary of the work is provided below:

- A drum inventory was conducted to obtain general information on the numbers, locations, condition and apparent contents of drums present on-site.
- Samples collected from the six accessible pits located within the building were analyzed for PCBs, metals, VOCs and PAHs.
- Five test pits were conducted on the undeveloped portion of the site.
- Five geoprobes were conducted within the building.
- Thirteen soil borings were advanced using conventional drilling techniques, adjacent to the building and in the undeveloped portion of the site.
- Six of the above soil borings were completed as water table monitoring wells. The wells were constructed, developed, purged, sampled and surveyed in accordance with WDNR guidelines and NR141 code requirements.

2.1 Drum Inventory

An inventory of drums present on the site on April 23, 2001 was conducted as part of this investigation. The inventory includes the collection of information on drum location, general condition, whether the drum is open or closed and, if open, the apparent contents of the drum. Sealed drums were not opened by STS personnel. Sampling of the drums is anticipated in a later phase of the site work and will be conducted by a drum disposal contractor.

2.2 Sludge Sampling

STS collected one sample of the material observed in each of the accessible pits located in the building. The sludge samples were collected on April 23, 2001. Pits #1, 4, 5, 6 and 7 contained a relatively solid sludge and were therefore sampled using a stainless steel scoop. Pit #3 contained liquid with a thin immiscible floating layer and was sampled using a disposable bailer. Pit #2 was not accessible for sampling. Samples from the pits were analyzed for polychlorinated biphenyls (PCBs), metals, volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs).

2.3 Test Pits

Five test pits were conducted on April 23, 2001 on the undeveloped portion of the site. A.W. Oakes and Son conducted the test pits as a subcontract backhoe operator to STS. The locations of the test pits are shown on Figure 3. TP-1, TP-2, TP-3 and TP-5 replaced proposed borings B-10, B-13, B-14 and B-8, respectively. The test pits extended approximately 8 to 10 feet below the ground surface. The test pits were visually evaluated by an STS Field Hydrogeologist. Samples of representative soil/fill material were collected from the backhoe bucket and were screened in the field with a photo-ionization detector (PID). One soil sample from each test pit was selected for laboratory analysis for metals, PAHs and VOCs. Test pit logs were completed for each test pit and are provided in Appendix A. The test pits were backfilled with the material that was removed and replaced in approximately the same order as removed.

2.4 Geoprobe Sampling

Five geoprobes were conducted within the building on April 30, 2001 to evaluate subsurface conditions in connection with the RECs identified in the building. Soil probes were advanced to approximately 16 feet below the ground surface. Soil samples were collected continuously at two-foot intervals and screened in the field using a PID with a 10.6 eV lamp for the presence of volatile organic compounds (VOCs). Duplicate soil samples were collected from each interval for soil classification purposes. The soil information was documented on boring logs. Soil samples with the highest PID reading, soil with obvious visual or olfactory indications of contamination, and/or soil samples from just above the groundwater table at each soil probe were submitted for laboratory testing. Two soil samples from each probe location were submitted for laboratory testing for VOCs, PAHs and metals.

One groundwater sample was collected from each of the probe locations on May 1, 2001. A temporary PVC well screen was inserted into the probehole. The groundwater samples were collected from the temporary well using a peristaltic pump with low flow sampling technique. The water samples were analyzed for metals, VOCs and PAHs. The soil probes/temporary wells were abandoned by pulling the PVC riser/screen and then filling with chipped bentonite after use. Geoprobe boring logs and abandonment forms are provided in Appendix B.

2.5 Soil Borings

A total of 13 soil borings were completed on the site between April 20 and May 2, 2001 to evaluate 1) a release outside of the building, particularly in the vicinity of the outside drum storage areas; 2) the characteristics of the on-site fill material; and 3) the potential for contamination due to off-site RECs. The final boring locations are shown on Figure 3.

Proposed borings B-8, B-10, B-13 and B-14 were replaced with test pits TP-5, TP-1, TP-2 and TP-3, respectively, as allowed for in the Sampling and Analysis Plan.

Soil borings were advanced using a truck mounted drilling rig equipped with 4-1/4 inch ID hollow-stemmed augers to a depth of approximately 15 feet below the ground surface. Soil samples were collected from the ground surface and at 2.5-foot intervals through the maximum depth of each boring using conventional split-spoon methods. Soil boring logs are provided in Appendix C. In general, two soil samples per boring location were submitted for analytical testing. Soil sample handling and presentation methods as described in Section 5.3 of the QAPP were followed. Soil samples were analyzed for metals, VOCs and PAHs by U.S. Filter-Enviroscan. Soil borings not completed as monitoring wells were abandoned in general conformance with Wisconsin Administrative Code NR141 and documented on form 3300-5B (see Appendix C).

2.6 Groundwater Monitoring Wells

Six groundwater monitoring wells were installed and sampled at boring locations B-3, B-5, B-6, B-7, B-12 and B-16. The monitoring well locations are shown on Figure 3. The wells were installed to evaluate groundwater quality, particularly with respect to the overall industrial cleaning operations, the drum storage areas, the fill area and the off-site RECs.

Groundwater monitoring wells were installed and developed in general accordance with NR141 of the Wisconsin Administrative Code (WAC). The wells were placed so that the well screen would intersect the water table. Each of the monitoring wells was completed to an approximate depth of 15 feet. The actual well construction details are provided in Appendix D. The monitoring wells were completed with a 10-foot long factory slotted (0.10 inch) PVC well screen with solid PVC riser. The monitoring wells were completed above grade and protector pipes were placed around the wells as necessary. The typical well installation procedures and well development procedures as provided in Appendix 2 of the QAPP were followed.

On May 14, 2001, one round of groundwater samples was collected from the six monitoring wells. The groundwater samples were analyzed for dissolved metals, PAHs and VOCs. The procedures that used for sample collection are documented in Appendix 2 of the QAPP.

2.7 Surveying

STS completed a site survey to determine the locations and elevations of all soil borings and monitoring wells under the direction of a registered land surveyor. Geoprobe™ locations were determined by an Environmental Technician relative to existing building features as shown on Figure 3. Locations were determined relative to existing landmarks and elevations relative to mean sea level.

2.8 Investigative Waste Handling

Soil and groundwater generated during the drilling, well development, and sampling of the proposed borings/wells was to be drummed if elevated PID readings or visual or olfactory observations indicated contamination is present. Soil from borings B-5 and B-6 was drummed due to elevated PID readings and noticeable odor in the upper 4 feet of the borings. Drummed soil generated during this investigation was labeled and stored onsite.

2.9 Quality Assurance/Quality Control Sample Collection

In order to assess the representativeness and quality of field collected samples, it is necessary to incorporate a method of comparison into the sampling program. This is accomplished by the use of field blank, trip blank, equipment blank and duplicate samples. A discussion concerning the type, frequency, and method of preparation for QA samples is presented in Section 3.6 of the QAPP. Two blank and two duplicate samples were collected for this project.

3.0 SITE GEOLOGIC AND HYDROGEOLOGIC SETTING

Published geologic and hydrogeologic information was reviewed to assess soil and bedrock types in the area, regional groundwater flow direction, and groundwater sources. The United States Geological Survey 7.5-minute quadrangle map was used to determine general land features in the area of the subject site, to evaluate the local topography and to estimate shallow groundwater flow direction. The sources reviewed for geologic and hydrogeologic information are referenced in the text and are listed in Section 8.0 (References).

3.1 Topographic Setting

The 7.5-Minute topographic map of the Kenosha, Wisconsin Quadrangle (dated 1958, photo revised 1971) shows the parcel and vicinity features including the area topography and surface water features. Lake Michigan is located approximately 0.5 miles east of the subject site. The closest river to the site is Barnes Creek. Barnes Creek is located approximately 0.5 miles southwest of the subject site.

3.2 Geologic Setting

The native surficial soils in the vicinity of the subject site consist of the Boyer-Granby Association. The Boyer-Granby Association consists of well drained to very poorly drained soils that have a loam to sand subsoil. The Boyer-Granby Association is underlain by sandy glacial outwash on ridges and knobs and in drainageways and depressions (USDA Soil Conservation Service, 1970). Specifically, the western portion of the subject site is mapped as loamy sand and the eastern portion of the site is mapped as fine sandy loam.

Glacial till deposits found below the surficial soils in the subject vicinity are mapped as the Pleistocene Age Oak Creek Formation (Mickelson, 1984). The glacial ice of the Lake Michigan lobe deposited the till of the Oak Creek Formation. The Oak Creek Formation consists of fine-grained glacial till, lacustrine clay, silt, sand, and some glaciofluvial sand and gravel. The underlying bedrock is the Silurian Niagara Dolomite. Bedrock is anticipated to be between 50 and 100 feet below ground surface (Trotta and Cotter, 1973).

Based on the soil samples collected from the test pits, geoprobes and soil borings conducted as part of this Phase II, the site is underlain by up to eight feet of fill materials (see TP-3 in Appendix A). The fill includes silty fine to coarse sand, wood, concrete, asphalt and in three locations was observed to contain tires, hubcaps and/or other miscellaneous car parts. Below the fill, layers of organic silt, silty fine sand, silty fine to coarse sand, silt and silty clay were observed. No distinct soil type appeared to be contiguous across the site.

3.3 Hydrogeologic Setting

Based on the six NR141 groundwater monitoring wells installed and monitored on the site, groundwater is approximately 5 to 8.5 feet below ground surface on the subject site. Groundwater flow is primarily to the east, as shown on Figure 5. It is difficult to determine, due to the site configuration, whether there is a northerly or southerly component of flow on the site. Likewise there is no information as to vertical flow. A summary of groundwater elevations is provided on Table 1.

The subject site is serviced by the City of Kenosha municipal water supply and sanitary sewer. The City of Kenosha uses Lake Michigan for its potable water supply.

4.0 DATA QUALITY ASSESSMENT

4.1 QA Evaluation of Field Data

Three brownfield sites in Kenosha were included under the Quality Assurance Project Plan (QAPP) prepared for this project. The field investigative work was performed consecutively at the three sites. In conformance with the QAPP an internal field audit was performed on the third day of field sampling for the C& L Industrial Cleaners site. The results of the field audit are provided in Appendix E. The corrective actions undertaken as a result of the internal audit were continued throughout the remainder of the field activities.

Other activities to evaluate the field data took place on a daily basis and included the following actions by the project manager or her designee.

- Reviewing the field logs and field notes;
- Checking and comparing the sample jar labels to the chain of custody before delivery of the samples to the laboratory; and
- Reviewing the acknowledgment of receipt of the samples by the laboratory.

Additionally, the project manager (or her designee) were in daily contact with the field staff to discuss field conditions and the selected sample locations. Minor adjustments to soil boring locations were made to accommodate field conditions.

Upon review of the field data, all of the field data is considered useable.

4.2 QA Evaluation of Laboratory Data

Samples from the Kenosha Brownfields C&L Cleaners site were collected from April 23 to May 14, 2001 and were submitted to U.S. Filter on STS or U.S. Filter Chain of Custody forms. U.S. Filter issued five analytical reports, grouping the sample submittals as follows:

U.S. Filter Report No.	Chain of Custody Nos.	Sample Dates
069106	U.S. Filter COC	April 23, 2001
069832	33252, 33253, 33247	April 30, 2001
070021 (revised 6/20/01)	33270, 29095	May 1, 2001
070153	33272	May 2, 2001
071182	26875	May 14, 2001

Samples consisted of sludges soil and groundwater tested for some or all of the following: PCBs, PAH, VOCs, and metals (antimony, arsenic, barium, cadmium, chromium, copper, lead, nickel, selenium, silver, mercury).

The U.S. Filter analytical reports and supporting data were evaluated in accordance with Sections 9.2, 9.3, 9.4, 9.5 and 12.3 of the Final Approved Quality Assurance Project Plan. This technical memorandum discusses the results of that evaluation, and is organized by QAPP section reference.

4.2.1 Data Reporting

The QAPP specified that the U.S. Filter laboratory data will not be issued until it has been reviewed by U.S. Filter. The STS QA Manager then reviewed the U.S. Filter reports to determine whether they met the reporting requirements specified in the QAPP. Each of the five reports was signed by one of the U.S. Filter analysts involved in the specified analyses and was also approved by the Laboratory Manager, Mr. James Salkowski.

The reports included the elements specified in the QAPP, with the exception of stating in the report the name and company of the person or persons who performed the in-field sampling. This information is provided on the Chain-of-Custody forms that are attached at the back of each of the three reports. This deviation from the QAPP does not adversely affect data quality.

4.2.2 Data Review, Validation, and Verification Requirements

Sample Handling - The U.S. Filter reports included a "Sample Receipt Report" which provides information such as whether the samples were received warm, after the holding time had elapsed, broken, or open; and whether soil samples for VOCs were within sample weight tolerances or required additional methanol. Additional methanol was added to some of the soil-VOC samples, but none of the samples arrived in a state that required the samples be discarded or the analytical results flagged.

Additional comments on samples were made in the Case Narratives that accompanied each report. None of the information in the Sample Receipt Reports or Case Narratives adversely affect the data usability.

A "Sample Narrative" was provided for samples CL-P1-SL010423, CL-P4-SL010423, CL-P5-SL010423, and CL-P7-SL010423 submitted for PCBs. The sample narrative stated that the physical characteristics and/or high levels of interfering compounds required that clean-up techniques be applied to the sample extract and that the sample extract was diluted for analysis. Cleanup techniques may result in some loss of analyte (depending upon the interfering compound and physical nature of the sample), and diluting the extract results in higher detection limits. The results for these samples may be biased low, or analytes may have been masked or diluted out.

Analytical Procedures – Analyses of soil samples were performed using the methods specified in the QAPP: VOCs were analyzed according to method 8021; PAHs according to method 8310; metals according to method 6010 (with the exception of 7471 for mercury, and 7041 for antimony); and polychlorinated biphenyls according to method 8082.

Water samples were analyzed using the same methods, except the analyses for VOCs and the following metals: antimony, arsenic, cadmium, lead, and selenium. Analysis for VOCs was performed according to Method 8260 rather than 8021 because the gas chromatograph for the 8021 analysis was inoperable due to contamination. In order to meet the sample holding times, the VOCs were analyzed by method 8260. The laboratory SOP for 8260 was reviewed and approved by EPA prior to the analyses being completed. The five metals were performed using graphite furnace atomic absorption methods (which were not included in the QAPP) so that detection limits near the Wisconsin groundwater quality standards could be met. A copy of the SOPs for these methods is provided in Appendix E.

Quality Control – The laboratory analyses were performed using the quality control procedures specified in the QAPP. In general, the quality control measurements fell within the control limits. For some analyses and some samples, one or more quality control measurements either fell outside control limits or exhibited a high or low bias, and the sample data were flagged appropriately.

Measurements exhibiting a high or low bias included matrix spike recoveries, relative percent difference (RPD) for duplicate analyses, and check standards. Because the soil samples are non-homogeneous, high RPD is common. Non-homogeneity of soil samples cannot be overcome entirely because samples to be analyzed for VOCs and SVOCs should not be handled or mixed excessively. Excessive handling can result in loss of analytes. High RPD in analysis of soils for metals is partly due to the fact that only a very small sub-sample (a few grams) is analyzed for the metals.

The surrogate recovery was low for several of the PAH and VOC samples. Since the surrogate is a measure of the extraction or purging efficiency of each specific sample, the surrogate recovery may be the best indicator of any bias in the sample data. The data for affected samples were flagged accordingly to indicate that the results may exhibit a low bias. The following samples had low PAH surrogate recovery: P3-W010423 and P6-SL010423. The following samples had low VOC surrogate recovery: CL-B05-S01, CL-B05-S02, P3-W010423. A low bias in analyte recovery may mask some analytes that are actually present above regulatory thresholds.

In a few cases, measurement for check standards or laboratory control samples exhibited a low or high bias. The QAPP (see SOPs) allows for reporting of associated data, provided the data are flagged and the potential effects on data quality are noted.

In general, for the parameters and quality control measurements of concern, either the sample results were sufficiently above or below regulatory thresholds that an undetermined high or low bias in the data would not impact interpretation of data and soil quality. In other cases, no regulatory threshold exists for the parameter in question. Specific parameters and samples are identified in the analytical reports.

Calibration – The calibration data were not provided in any of the analytical reports. The QAPP allows either the U.S. Filter QA Manager or the STS QA Officer to evaluate the adequacy of the calibration data. The laboratory manager's signature on the analytical reports constitutes approval of the calibration data.

The laboratory quality assurance manual and the SOPs (except SOPs for graphite furnace analyses for selected metals) were reviewed by STS to determine what quality assurance procedures are required with respect to instrument calibration. According to the SOPs provided by U.S. Filter and included in the QAPP, the calibration standards used appropriately bracketed the range of analyte concentrations observed in the samples, or the samples were diluted to bring the concentrations within the range of the calibration curve. The SOPS require the U.S. Filter analyst to review the calibration data and verify that the calibration curves are acceptable, and that results of the calibration checks fell within the acceptable range.

4.2.3 Data Validation and Verification and Reconciliation with Data Quality Objectives

Samples were shipped, preserved, and received in accordance with the procedures outlined in the QAPP. Extractions and analyses were completed within the holding times and according to the methods specified in the QAPP. Where QC measurements fell outside control limits or indicated a potential bias in the sample results, sample data reports were flagged accordingly. For some of the PAH and VOC analyses, low bias in sample results (indicated by low surrogate recoveries) may be masking exceedances of regulatory thresholds for additional PAHs or VOCs.

Some of the samples were diluted to bring the target analytes within the range of the calibration curve, or to control interference from non-target analytes present in the samples at high concentrations. As a result, the detection limits of some parameters were elevated. For some of the samples tested for PCBs, detection limits on the order of 20 mg/kg (CL-P7-SL010423) to 400 mg/kg (CL-P1-SL010423) pose difficulties in determining the best disposal options for the samples. The PCB detection limits for CL-P1-SL010423 make this data point unusable. The PCB detection limits for these samples were discussed with the U.S. Filter laboratory QA Manager, Eric Martin. Mr. Martin indicated that the elevated detection limits were a result of the sample matrix and that the laboratory could not attain lower limits using EPA-approved methods. A copy of a memo from Mr. Martin in response to this issue is provided in Appendix E. It was decided that resampling would be preferred over using non-approved or non-validated techniques.

With the exception of the PCB data, detection limits were not elevated to a point where the usability of the data was adversely affected. Data qualifiers have been used to guide the project manager in interpreting data. The data qualifiers do not render the data unusable. Sufficient high quality data are available for each matrix and parameter to allow the project manager to make appropriate decisions for the project.

4.2.4 Completeness

All analyses were completed as requested and in accordance with the QAPP. All data was considered usable except for one PCB analysis, as discussed above. Completeness = 99.4% for the C&L Cleaners site.

4.3 Data Quality Objectives

The data quality objectives for this project were to evaluate the identified recognized environmental conditions and to collect samples to evaluate if contamination of the subsurface had occurred at the site of the recognized environmental condition. The field and laboratory data sets have been validated as useable with the exception of one PCB analysis as described above. The data has met the data quality objective because an evaluation of each recognized environmental condition with respect to potential subsurface contamination is possible and is discussed in the Section 5. Conclusions obtained from the data analysis are provided in Section 6.

5.0 INVESTIGATION RESULTS

5.1 Drum Inventory

A total of 44 drums were observed and documented on the site on April 23, 2001. A drum inventory summary is provided as Table 2. The designated drum locations and numbers, as referenced in Table 2, are shown on Figure 3. Nineteen of these drums were observed to be empty. Of the remaining 25 drums, 15 were closed and therefore the contents are unknown. Five of these were labeled "A1 mag Oil", but it is unknown whether this represents a new or waste material, or whether the contents actually reflect the labeling at all. The remaining 10 drums were open and contained various wastes including paint cans, concrete rubble, wood, glass, oil containers, rags, spray cans, plastic sheeting, brake fluid containers, plastic, buckets, rope, paper, and carpet. The majority of these materials can likely be disposed as solid waste, or even recycled. A few of the items, such as paint cans, spray cans and used oil and brake fluid containers, may require special handling.

All closed drums will need to be tested by a hazardous waste contractor to determine their contents and disposal requirements. Open and empty drums should be evaluated for disposal by a solid waste contractor.

5.2 Sludge Sampling Results

The results of the Pit Sludge Testing are summarized on Table 3. Six of the seven pits were sampled. Pit #2 appears to have been filled with concrete and therefore could not be sampled. Pits #1, #4, #5, #6, and #7 contained relatively solid sludges and were thus analyzed as solids. Pit #3 contained liquid and thus was analyzed as a wastewater. The pit locations and respective pit numbers are shown on Figure 2. Copies of the laboratory reports are provided in Appendix F.

The sample results from Pit #3 were compared directly to the TCLP regulatory levels. None of the constituents detected from this sample exceeded any of the TCLP regulatory levels for the parameters tested.

The solid samples collected from Pits #1, #4, #5, #6 and #7 were compared to a theoretical TCLP limit. For solid samples, a twenty-fold dilution is incorporated into the TCLP analytical method. Therefore, only solid samples having in excess of 20 times the TCLP regulatory limit could theoretically exceed their respective TCLP limit. All five of these pit samples contained concentrations of cadmium, chromium and lead which could theoretically exceed their respective TCLP limits. In addition the sample from Pit #1 contained barium and selenium concentrations that could theoretically exceed the TCLP limits. The sample from Pit #7 contained selenium and tetrachloroethylene (PCE) that could also theoretically exceed the TCLP limits.

The reported concentration of PCE (67.5 mg/kg) in Pit #7 is significant more so because it is indicative of the use of PCE as a cleaning solvent on the site. As such, waste on this site containing PCE, may be classified as a listed hazardous waste (U210 or F002) under NR605.09, including spill residues and contaminated soil (as per NR605.09(3)(a)4), depending on the nature of the spill.

5.3 Soil Analytical Results

Soil samples were collected from the five test pits, located within the eastern two thirds of the property, the five geoprobes located within the building and the other 13 soil borings located across the whole site. Sample locations are shown on Figure 4. Samples were analyzed for select metals, VOCs and PAHs. The analytical testing results are summarized on Table 4 and are discussed further below. Copies of the analytical laboratory reports are provided in Appendix F.

5.3.1 Metals Results

The concentrations of metals detected in the soil samples were compared to the NR720 Residual Contaminant Levels (RCLs) which are based on protection of human health due to direct contact in both industrial and non-industrial settings. In general the metals concentrations on the subject site are low. Arsenic and lead were the only metals to exceed RCLs.

Arsenic was detected in each of the samples tested. Concentrations were detected from 1.14 to 9.89 mg/kg. The arsenic concentrations exceeded the direct contact RCL for non-industrial sites in every sample analyzed and for industrial sites in all but three of the samples collected. These concentrations are within the range generally accepted as representative of background conditions in this area of Wisconsin. The arsenic concentrations do not represent contamination, or a release on the subject site.

Two soil samples exceeded the non-industrial RCL for lead. The industrial RCL was not exceeded for any of the samples tested. The elevated lead results were reported in samples B02-S02 (461 mg/kg) at 2 to 4 feet below ground surface and B09-S03 (71.7 mg/kg) at 5 to 7 feet below ground surface. These concentrations are greater than the non-industrial direct contact RCL, but less than the industrial direct contact RCL. Proper material management will be necessary during remediation or redevelopment. If significant grading were to occur and the site were proposed to be used for non-industrial purposes, additional investigation of these lead concentrations would be recommended. Although elevated levels of lead were also reported in the pit sludge samples, as discussed above, there appears to be no distinct pattern of lead occurrence in the soil which would indicate a major release or disposal of lead wastes on the site.

5.3.2 PAH Results

The concentrations of PAHs detected in the soil samples were compared to the Suggested Generic Residual Contaminant Levels (RCLs) for protection of groundwater quality and protection of human health due to direct contact on both industrial sites and non-industrial sites. In general the concentrations of PAHs were low. Several PAHs were detected in roughly one-half of the samples collected from the site. Direct contact RCLs for non-industrial sites were exceeded for benzo(a)anthracene, benzo(b)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and ideno(1,2,3-cd)pyrene. Direct contact RCLs for industrial sites were exceeded in only two samples: benzo(a)pyrene at B-4 and dibenzo(a,h)anthracene at G-5. No apparent pattern was observed in the soils relative to sample depth, soil type or apparent source area. No Groundwater Pathway RCLs were exceeded in any of the samples.

5.3.3 VOC Results

The concentrations of VOCs in the soil samples were compared to NR720 RCLs, which were developed for the protection of groundwater quality, where available, and were compared to EPA's Region IX Preliminary Remediation Goals (PRGs) for direct contact and migration to groundwater. The PRGs are risk-based values that consider ingestion, inhalation and dermal contact as potential exposure pathways and are thus relatively conservative and consistent with the intent of Wisconsin's NR720. The samples were also screened in the field using a PID equipped with a 10.6 eV lamp; however, no elevated readings (>10 PID units) were measured. The VOCs detected in the soil samples consisted of both petroleum-related VOCs and chlorinated VOCs.

The petroleum-related volatile organic constituents (PVOCs) detected in the soil samples include ethylbenzene, toluene, xylene, 1,2,4-trimethylbenzene, naphthalene, n-butylbenzene, and sec-butylbenzene. The majority of these detects were observed in the drum storage areas (at B-5 and B-6), located near the shed, adjacent to a floor drain within the building (G-5) and one isolated PVOC detection located at B-9 in the undeveloped portion of the site. These detections are likely a result of small quantities of petroleum-related products. The concentrations had no distinct pattern relative to sample depth. The distribution of the PVOC concentrations is shown on Figure 6. None of the PVOC concentrations detected exceeded NR720 RCLs or EPA Region IX PRGs.

The chlorinated VOCs detected in the soil samples include tetrachloroethylene (PCE) and its breakdown products, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, trichloroethylene and vinyl chloride. The highest concentrations of PCE in the soil (132 and 322 mg/kg) were observed in the two soil samples collected from G-1, located adjacent to Pit #7 in the main building. It is likely that Pit #7 or activities that occurred very close to Pit #7 represent a source of PCE. Within the building concentrations of PCE generally decreased to non-detectable with distance from Pit #7. It appears that other sources of PCE may have been present within the building based on the PCE concentration at G5-S01. G5-S01 is a surficial soil sample. With no possible transport mechanism between Pit #7 and G5, a second release in this area is apparent. Outside the building concentrations of PCE were detected at B-2, northeast of the building; B-5 and B-6, located in observed drum storage areas; and at TP-5 and B-11, located a considerable distance away from the building. With the exception of TP-5 S04, which was collected below the fill material, soil samples collected from these other locations were from at or just below the ground surface. This suggests that there may have been spillage or leakage of PCE outside the building. Chlorinated VOCs were not detected near the eastern property boundary as was suspected due to potential off-site sources. The distribution of the chlorinated VOCs in the soil is shown on Figure 7.

Because NR720 does not specify generic RCLs for the chlorinated VOCs, STS compared the results to the EPA Region IX Preliminary Remediation Goals (PRGs) for these parameters. Exceedances of the PRGs for migration from soil to groundwater occurred for cis-1,2-dichloroethylene in three soil samples; for PCE in 14 soil samples; for trichloroethylene in four soil sample; and for vinyl chloride in one soil sample. The two soil samples collected from G-1, near Pit #7, also contained PCE concentrations that exceeded the PRG for direct contact at residential and industrial sites. One sample, from B-6, also contained vinyl chloride that exceeded the PRG for direct contact at residential sites.

It should also be noted that the very high concentrations of PCE at G-1 (132 and 322 mg/kg) could potentially represent TCLP hazardous waste. If these soils were excavated or moved during development or remediation, they could be subject to the solid and hazardous waste regulations. As discussed in Section 5.2, solid wastes having total concentrations in excess of 20 times the TCLP regulatory limit could theoretically exceed their respective TCLP limit. For PCE the TCLP limit is 0.7 mg/l and the corresponding theoretical limit for total concentration would be 14 mg/kg, considerably lower than the reported concentrations at G-1. This is significant, as it likely will affect any remedial action plans and their respective implementation costs. Also discussed in Section 5.2, contaminated soil could potentially be considered "listed" hazardous waste (U210 or F002) depending on the nature of the spill.

5.4 Groundwater Analytical Results

The groundwater samples were analyzed for VOCs, PAHs and select metals. The laboratory analytical results and groundwater quality standards (NR 140.10) for the groundwater samples collected from the monitoring wells are summarized in Table 5. Copies of the analytical laboratory reports are provided Appendix G.

The groundwater sample laboratory results are compared to Wisconsin's groundwater quality standards established in Wisconsin Administrative Code NR 140, Table 1. Wisconsin has two levels of groundwater quality standard. The first level, the preventive action limit, is a concentration that is 10% (for carcinogenic, mutagenic or teratogenic compounds) or 20% of the enforcement standard. The PAL has been established as the concentration at which notification to the WDNR is required. Remedial action is not always required if a preventive action limit is exceeded. The enforcement standard is a health-risk based concentration and exceedance of enforcement standards usually results in further subsurface investigation, remedial action requirements, or monitoring.

The metals concentrations in the groundwater samples were generally low. There were no ES or PAL exceedances for any of the metals except for nickel. The PAL was exceeded at temporary well G-3 and at well B-6. The ES was exceeded at temporary well G-4. Typically metals and PAHs that easily bind to soil particles have slightly higher apparent groundwater concentrations when sampled from a temporary well or open borehole, due to silt particles that may be present in the samples. Additional sampling for nickel in permanently constructed wells may show that nickel is not a contaminant of concern for the site.

The PAH concentrations in the groundwater samples were also low. All of the NR141 groundwater monitoring wells, as well as temporary wells G-1, G-2 and G-4, had no detectable PAHs. Temporary wells G-3 and G-5 had detectable levels of several PAHs, including PAL exceedances for benzo(a)pyrene and chrysene and ES exceedances for benzo(b)fluoranthene. At G-5, the soil samples also contained most of these same PAHs, none of them at levels exceeding the RCL for protection of groundwater. This would suggest, similar to the metals discussed above, that these PAHs were actually bound to the sediment suspended in the groundwater sample and not a true reflection of groundwater quality. It does not appear that PAHs are a contaminant of concern in the groundwater at the subject site.

The VOCs detected in the groundwater at the subject site are primarily the chlorinated VOCs, including PCE, TCE, DCE and vinyl chloride. Benzene was also detected in two groundwater samples (B-6 and B-7); however, it was 1) detected below the laboratory quantitation limit, 2) not confirmed in the duplicate sample for B-7, and 3) below the PAL in both samples. Benzene is not, therefore, considered a contaminant of concern in the groundwater of the subject site.

The distribution of chlorinated VOCs is shown on Figure 8. The highest concentration of PCE (27,200 ug/l) was reported in temporary well G-1, located adjacent to Pit #7, on the west end of the building. This is consistent with the pit sludge results (see section 5.2) and the soil sample results (see section 5.3.3) at this location. The PCE concentrations drop off dramatically to the east with primarily the breakdown products (DCE, TCE and vinyl chloride) being detected in the down-gradient wells. Elevated levels of chlorinated VOCs were detected in the groundwater at B-12, far down-gradient of the apparent primary source area, suggesting that there may have been spillage or leakage of PCE or its breakdown products outside the building.

Concentrations of PCE exceed the ES at G-1, and the PAL at G-2 and B-3. The concentration of cis-1,2-dichloroethylene exceeds the ES at B-12. The concentrations of vinyl chloride exceed the ES at B-5, B-6 and B-12. Based on these exceedances, the chlorinated VOCs are considered contaminants of concern for the subject site.

The extent of the chlorinated VOC impacts in the groundwater on the subject site has not been defined. Additional work is recommended to define the horizontal and vertical extent of the chlorinated VOC impacts.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Phase II study was performed to evaluate recognized environmental conditions associated with the C&L Industrial Cleaners property located at 8927 Sheridan Road in Kenosha, Wisconsin. The following subsections present first a summary of the investigative findings for the subject site and secondly, the more generalized conclusions that answer the questions posed under the "Data Quality Objectives" section of the Sampling and Analysis Plan. These questions were:

- What areas of the site are contaminated?
- What is the nature of the contamination?
- Are the contaminant concentrations significant with respect to human health and the environment?
- Is the site developable and if so, what type of redevelopment would be allowed?
- Is remediation required for redevelopment?

The final subsection presented below will provide recommendations resulting from the summary of findings and conclusions.

6.1 Summary of Findings

The site buildings were previously occupied by C&L Industrial Cleaners and more recently by BBL Barrel Company. Reportedly, C&L Industrial Cleaners cleaned carpets for building entrances. It was not known if C&L Industrial Cleaners was involved in cleaning other types of materials or what type(s) of cleaning processes were used. Based on the results of the Phase II, it appears that a dry cleaning process using tetrachloroethylene was used on the site. The BBL Barrel Company reportedly sold industrial supplies.

The following summarizes STS' findings regarding environmental conditions discovered as a result of completing the Phase II ESA for the site:

- It appears that C&L Industrial Cleaner used the dry cleaning solvent, tetrachloroethylene (PCE) in their cleaning process. Very high concentrations of PCE were observed in the sludge from Pit #7, located in the western portion of the building, as well as in the soil and groundwater samples collected from geoprobe G-1 located adjacent to this pit. It appears that this pit, or activity conducted very close to this pit present a source of PCE on the site. A secondary source of PCE is likely near G-5, which is located adjacent to a floor drain in the main garage area.
- Based on concentrations of PCE on other areas of the site (particularly in the drum storage areas near the shed; at B-2, near the northern property line; and, at TP-5, B-11 and B-12, in the undeveloped portion of the site), spillage of PCE appears to have occurred outside the building.

- Sludge samples collected from the various pits located within the building indicate that all or at least some of the sludge material is hazardous waste as defined under NR605.09. The sludges containing PCE (Pit #4, 6 and 7) may be classified as D039, U210 or F002 listed hazardous waste. The sludge with no detectable PCE (Pit #1, 3, and 5) may also be classified as hazardous waste due to elevated levels of cadmium, chromium, lead, barium and selenium.
- An inventory of drummed wastes indicates that there are at least 15 sealed drums whose contents is either unknown or unconfirmed.
- Low levels of petroleum-related VOCs were detected in some of the soil samples collected from the site. These are likely a result of spills of small quantities of petroleum products but do not pose a significant risk to human health or the environment.
- The fill materials located on the eastern two-thirds of the site do not appear to be significantly affecting the underlying soil or groundwater quality of the site. The fill piles contained primarily concrete rubble and asphalt, as was observed on the surface. However, at TP-1 and TP-2, wood, a tire and hubcaps were observed and at TP-3, old car parts, a motor and electrical conduit were also observed. The fill material does not appear to have affected the soil or groundwater quality of the site. The materials may require removal prior to redevelopment for geotechnical or site grading purposes.
- It does not appear that the off-site UST located to the north of the site and identified in the Phase I ESA, has impacted the site, since petroleum products were not detected in either of the borings (B-1 or B-2) located near the northern property limits.
- The potential impact of the off-site sources of solvents, identified in the Phase I ESA, is not apparent from the existing soil and groundwater information. Off-site sources may or may not be contributing to the impacts observed on the subject site.

6.2 Conclusions

Based on the above summary of findings and in consideration of the DQOs outlined above and discussed further in the Sampling and Analysis Plan, STS has reached the following conclusions. Elevated concentrations of chlorinated volatile organic constituents, including PCE, TCE, DCE and vinyl chloride were detected in the sludges, soil and groundwater of the subject property. The horizontal and vertical extent of the impacts has not been determined. It appears that the source of the contamination is within or near to Pit #7 located in the northern portion of the building and is a result of the use of PCE as a dry cleaning solvent on the subject property. The contaminant concentrations are significant with respect to human health and the environment and will require additional investigation and likely some element of remedial action prior to redevelopment of the site. However, it does not appear at this time that the level of impacts would preclude redevelopment of the site.

6.3 Recommendations

Based on the Phase II summary of findings and conclusions STS recommends the following:

- Additional soil sampling should be conducted to define the extent of chlorinated VOC impacts, particularly in the vicinity of G-1, B-2, B-11 and TP-5.
- Additional groundwater monitoring wells should be installed and sampled in conjunction with re-sampling existing wells to evaluate the horizontal and vertical extent of chlorinated VOC impacts. We anticipate that an additional 6-8 monitoring wells will be necessary to determine the extent of the impacts.
- The sludge materials should be further tested to determine the appropriate management for disposal of the wastes.
- Drummed waste stored onsite should be evaluated by a hazardous waste contractor to determine their contents and for the management of their disposal.

7.0 GENERAL QUALIFICATIONS

The purpose of this Phase II Environmental Assessment is to evaluate the RECs identified in the Phase I ESA to determine whether they have impacted the soil and/or groundwater of the site. STS assumes no responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with the recommendations and/or suggestions contained in this report in no way assures elimination of hazards or the fulfillment of a property owner's obligation under any local, state or federal laws or any modifications or changes thereto. It is the responsibility of the property owner to notify authorities of any conditions that are in violation of the current legal standards.

Factual information regarding operations, conditions, and test data were obtained, in part, from the client, outside agents and third parties and have been assumed by STS to be correct and complete. Because the facts stated in this report are subject to professional interpretation, they could result in differing conclusions. In addition, the findings and conclusions contained in this report are based on various quantitative factors as they existed on or near the date of the survey.

STS has prepared this report at the request of its client, the City of Kenosha Department of City Development. STS assumes responsibility for the accuracy of the report's contents, subject to what is stated elsewhere in this section, but recommends the report be used only for the purpose intended by the client and STS when the report was prepared. The report may be unsuitable for other uses, and reliance on its contents by anyone other than the client is done at the sole risk of the user. STS accepts no responsibility for application or interpretation of the results by anyone other than the client.

This report reflects conditions, operations, and practices as observed on the date of the site visit. Changes or modifications to procedures and/or facilities made after the site visit are not included.

8.0 REFERENCES

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FIGURES

Appendix B

Soil Boring Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/10/2003	12/10/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 22		0	Concrete				0						
				Fill										
			2	Sand, red-brown	SM									
	48 26		4	Silty Sand, gray-brown	SM			0						
				Slity Clay, with sand, gray	CL									
			6	Silty Sand	SM									
	48 48		7.5	Sand, gray-brown to red-brown, moist	SM			0						
			8.5	Sand, gray-brown, saturated	SC									
13 GS			10.5	Clay, gray EOB @ 12'	CL									Water and Soil sample collected

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/10/2003	12/10/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section 18, T 1 N, R 23 E

Lat. ° ' "
Long. ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 12			Concrete				0						
				Sand, red-brown	SP									
			1	Concrete										
			2–3	Sand, red-brown	SP									
	48 38		4					0						
			5–6	Clay, gray	CL									
			7	Sand, brown, damp to moist	SM									
	48 48		8					0						
			9	Sand, gray, saturated	SC									
			10–12	Silty Clay, gray EOB @ 12'	CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/10/2003	12/10/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 34		0	Concrete				0						PID condition poor, wet and rainy
				Fill, black										
			1	Silty Sand, red, damp	SP									
	48 48		4					0						
			5	Sandy Clay, red-brown	CL									
				Clay, gray	CL									
			6	Silty Sand, red-brown, damp	SM									
	48 44		8					0						
			9	Sand, gray, saturated	SC									
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number GP-3 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	36							0						
			13	Sandy Clay	CL									
			14	Silty Clay, gray	CL									
			15	EOB @ 15'										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-4

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/10/2003	12/10/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 44		0	Asphalt				0						PID poor condition, wet and rainy
				Gravel Sub-base										
			1											
				Fill										
			2											
			3											
	48 43		4	Sand, red-brown, damp	SC			0						
			5	Sandy Clay, damp	CL									
				Clay, damp	CL									
			6											
			7	Silty Sand, red-brown, damp										
	48 41		8					0						
			9	Saturated to bottom	SM									
			10											
9 GS			11	Clay plug in bottom of probe. EOB @ 12'										Water Sample collected
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-5

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/10/2003	12/10/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 30		0–2	Topsoil				0						PID conditions poor, wet and rainy
			2–4	Silty Sand, red-brown, damp	SM									
	48 34		4–4.5	Silty Clay, red-brown	CL			0						
			4.5–9.5	Silty Sand, red-brown, moist	SM									
	48 39		8	Grading to gray, saturated				0						
			9.5–12	Silty Clay, gray	CL									
8 GS			12	EOB @ 12'										Water and Soil sample collected

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-6

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ___ ° ___ ' ___ "
Long. ___ ° ___ ' ___ "
Local Grid Location (If applicable)
Feet ☐ N ☐ S
Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 28		0	Fill				0						
	48 38		4					0						
			4.5	Silty Sand, red-brown, damp	SM									
	48 48		8					0						
6 GS			8.5											Soil sample collected
			10.2	Saturated										
			10.5	Silty Clay, gray	CL									
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Margaret Earnest
Firm: T N & Associates, Inc.
1033 N. Mayfair Road Milwaukee, WI 53226
Tel:
Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number GP-6 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 48		13 14 15	Silty Clay, Oak Creek Till, gray	CL			0						
			16	EOB @ 16'										Hole caved to 12' when the sampler was removed after the 12-16' interval. The Geoprobe operator could not advace the sampler past 12'.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 29		0–5.5	Fill										No PID samples
	48 34		4											
			5.5	Clay, brown to gray	CL									
			6	Silty Sand, red-brown	SM									
	48 40		8											
			9	Grading to gray, saturated										
			10	Clay, saturated	CL									
10 GS			11											Soil sample collected between 10-12'
			12	EOB @ 12'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Margaret Earnest
Firm T N & Associates, Inc.
1033 N. Mayfair Road Milwaukee, WI 53226
Tel:
Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-8

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 24		0–4.5	Fill										
	48 28		4.5–10.5	Silty Sand, red-brown	SM									
	48 34		9	Red to gray color change, saturated										
7 GS			10.5–12	Clay, gray	CL									Water and Soil sample collected at 10-12'
			12	EOB @ 12'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-9

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 48		0–4	Fill										No PID samples
	48 48		4	Silty Sand, brown	SM									
				Topsoil										
			5	Sandy Silty Clay, light brown	CL									
			6	Fine Sand, brown	SM									
4 GS	48 48		8	Saturated										Water and Soil sample collected
			9	Fine Sand, gray	SM									
			11	Clay, gray EOB @ 12'	CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Margaret Earnest
Firm: T N & Associates, Inc.
1033 N. Mayfair Road Milwaukee, WI 53226
Tel:
Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-10

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 40		0	Fill				0						
	48 40		4					0						
			5.5	Silty Fine Sand, brown, damp	SM									
3 GS	48 48		8	Fine Sand, gray, saturated	SM			0						Soil Sample collected
			11	Clay, gray, saturated EOB @ 12'	CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-11

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable) ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 42		0	Fill				0						
			2.5	Fine Sand, gray	SM									
	48 32		4					0						
			5	Very Fine Sand, brown, damp										
			6	damp to moist	SM									
	48 29		8	Fine Sand, gray to brown, saturated				0						
2 GS			8.8											Soil Sample collected
			10		SM									
			12	EOB @ 12'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-12

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 / 41		0–1	Clayey Silt	ML			0						
			1–1.5	Sandy Silt, black	ML									
			1.5–2	Silty Clay, brown	CL									
			2–3	Sandy Silt, dark brown	ML									
			3–4	Sandy Silt, some gravel, red-brown	ML									
	48 / 29		4	Cinders, black				0						
			4–6	Fine Sand, reddish brown	SM									
			6–8	Silty Clay, gray	CL									
	48 / 36		8–9	Fat Clay, gray to brown	CL			0						
1 GS			9–9.5	Very Fine Sand, gray	SM									Water and Soil sample collected
			9.5–12	Silty Sand, dark brown, saturated	SM									
			12	EOB @ 12'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		GP-13

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf	12/9/2003	12/9/2003	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable) ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48 35		0	Fill				0						
	48 48		4					0						
			6	Fine Silty Sand, brown, moist	SM									
			7	Fine Sand, gray, damp	SM									
5 GS	48 48		8					0						Water Sample collected
5 GS			11	Silty Clay, gray, saturated EOB @ 12'	CL									Soil Sample collected

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Margaret Earnest

Firm: T N & Associates, Inc.
1033 N. Mayfair Road Milwaukee, WI 53226
Tel:
Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		MW-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Michael McArdle	12/9/2003	12/9/2003	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PL522			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24 16	4 7 7 6	0–1	Fill - crumbly, Fe-stained sandy soil, glass, black cinder/ash				0						
	24 16	7 8 8 12	2–3	Fill - clay, some organics, grading to sand				0						
16 GS	24 24	7 9 9 9	4–5	Grades to very fine red/yellow sand, moist				0						
	24 8	24 22 18 17	6–7					0						
	24 6	4 8 5 2	8–9	Poor recovery color grade to gray	SC			0						
	24 24	14 15 17 20	10–12	Sand, fine to medium coarse, gray, saturated, grades to dense gray silty clay				0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MW-1 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 GS	24 / 18	21 21 23 24	13 14 15		SC			0						
				EOB @ 15.5'										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		MW-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Micael McArdle	12/9/2003	12/9/2003	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PL523			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24 24	3 3 4 4	0–2	Fill - Sandy Soil, some clay, dark brown, loose, dry				0						
	24 24	3 4 4 2	2–4	Fill - Sand, Clay, brown to black grading, moist				0						slight odor
	24 18	4 4 4 6	4–6					0						
18 GS	24 24	5 5 5 5	6–8	Silty fine sand, red-yellow, moist				0						
	24 24	12 16 19 21	8–10	saturated, gray	SM			0						
	24 18	8 11 8 7	10–12	Hard dense silt to very fine sand				0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Margaret Earnest

Firm T N & Associates, Inc.
1033 N. Mayfair Road Milwaukee, WI 53226
Tel:
Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-2 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
19 GS	24 24 18	7 17 14 15	13 14 15		SM			0						
				EOB @ 15.5'										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
C & L Industrial Cleaners		MW-3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Michael McArdle	12/9/2003	12/9/2003	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PL521			Feet MSL	Feet MSL	Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section 18, T 1 N, R 23 E
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24 18	2 4 4 6	1	Fine Sandy Silty Loam, dark brown, dry				0						
	24 10	3 6 8	2 3	Very Fine Silty Sand, red-brown, moist, 2" soil plug and a piece of concrete plug at bottom				0						
	24 10	5 2 3 3	4 5	Silty Sand Fill, dark brown, with brown rusty fragments, pebbles, Piece of Rubber at 4'				0						
14 GS	24 18	2 3 5 6	6 7	Fine Sand to Silty Soil, red-brown, with black organics and glass, saturated	SM			0						
	24 18	9 10 12 12	8 9	Very Fine Sand, gray, saturated				0						
	24 18	10 13 12 10	10 11 12	Siltier grading back to fine sand	SM			0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Margaret Earnest

Firm T N & Associates, Inc.
1033 N. Mayfair Road Milwaukee, WI 53226
Tel:
Fax:

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MW-3 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
15 GS	24 20 18	11 14 18 23	13 14 15	Silty Clay, very dense	CH			0						
				EOB @ 15.5'										

Appendix C

Well Construction Diagrams

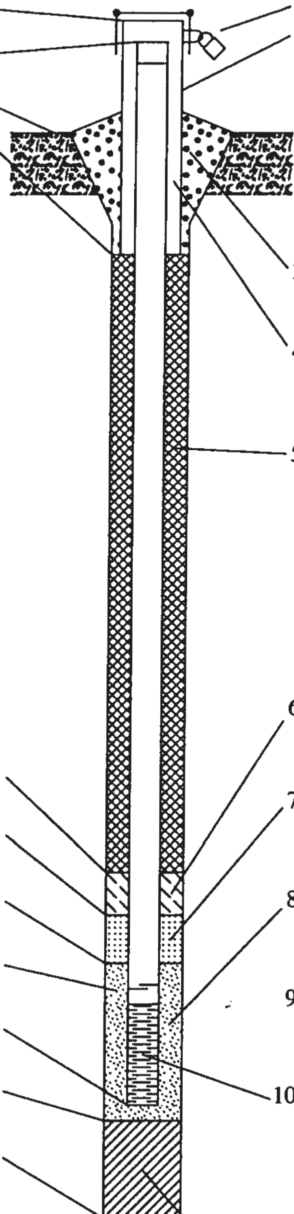
State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name	Local Grid Location of Well	Well Name
C&L Industrial Cleaners - STS # 86415XB	9900.1 ft. ☒ N. ☐ S. 9905.4 ft. ☒ E. ☐ W.	B-3
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No PC283 / DNR Well Number
Facility ID	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed 04/30/2001
Type of Well: Well Code 11/mw	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Gary Braun
Distance Well Is From Waste/Source Boundary ______ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	STS Consultants, Ltd.

A. Protective pipe, top elevation ______ ft. MSL
B. Well casing, top elevation ______ ft. MSL
C. Land surface elevation 618.3 ft. MSL
D. Surface seal, bottom 617.3 ft. MSL or 1.0 ft.



12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐ Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☒ 4 1; ______ Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ______

17. Source of water (attach analysis): NA

E. Bentonite seal, top 617.3 ft. MSL or 1.0 ft.
F. Fine sand, top 614.5 ft. MSL or 3.8 ft.
G. Filter pack, top 614.1 ft. MSL or 4.2 ft.
H. Screen joint, top 613.6 ft. MSL or 4.7 ft.
I. Well bottom 603.6 ft. MSL or 14.7 ft.
J. Filter pack, bottom 603.1 ft. MSL or 15.2 ft.
K. Borehole, bottom 601.3 ft. MSL or 17.0 ft.
L. Borehole, diameter 8" in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☒ 0 4; Other ☐
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ______
3. Surface seal: Bentonite ☐ 3 0; Concrete ☒ 0 1; Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Coarse sand over bentonite Other ☒
5. Annular space seal: a. Granular Bentonite ☒ 3 3
   b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ______Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 3 2
   c. ______ Other ☐
7. Fine sand material: Manufacturer, product name and mesh size
   a. Red flint #40-60
   b. Volume added ______ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. Red flint #30
   b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; Other ☐
10. Screen material: PVC schedule 40
   a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐
   b. Manufacturer Env. Manufacturing, Inc.
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm STS Consultants, Ltd. 11425 West Lake Park Drive Milwaukee, WI 53224 Tel: 414-359-3030 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 6-97

Facility/Project Name: C&L Industrial Cleaners - STS # 86415XB	Local Grid Location of Well: 9919.5 ft. ☒N. ☐S. 10027.1 ft. ☒E. ☐W.	Well Name: B-5
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or St. Plane ft. N, ft. E. S/C/N	Wis. Unique Well No: PC282 / DNR Well Number
Facility ID		Date Well Installed: 04/30/2001
Type of Well: Well Code 11/mw	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 18, T. 1 N, R. 23 ☒E ☐W	Well Installed By: (Person's Name and Firm) Gary Braun, STS Consultants, Ltd.
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation ______ ft. MSL

B. Well casing, top elevation ______ ft. MSL

C. Land surface elevation 618.3 ft. MSL

D. Surface seal, bottom 614.7 ft. MSL or 3.6 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☒ 4 1; Other ☐ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ______

17. Source of water (attach analysis):
NA

E. Bentonite seal, top 618.3 ft. MSL or 0.0 ft.

F. Fine sand, top 614.7 ft. MSL or 3.6 ft.

G. Filter pack, top 614.2 ft. MSL or 4.1 ft.

H. Screen joint, top 613.7 ft. MSL or 4.6 ft.

I. Well bottom 603.7 ft. MSL or 14.6 ft.

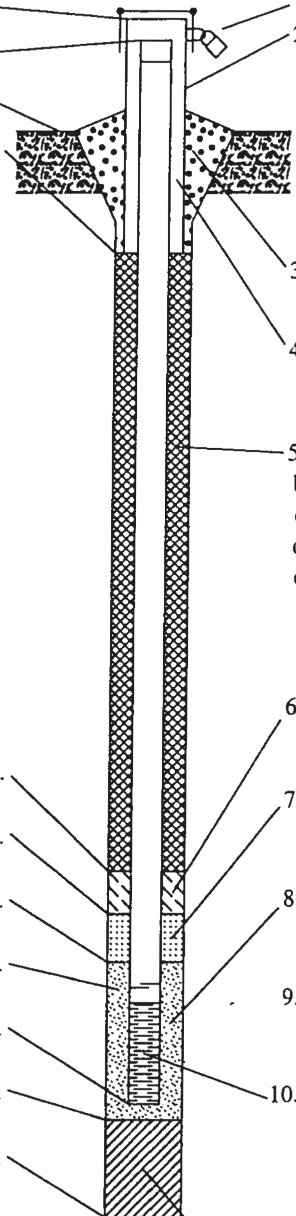
J. Filter pack, bottom 603.2 ft. MSL or 15.1 ft.

K. Borehole, bottom 601.3 ft. MSL or 17.0 ft.

L. Borehole, diameter 8" in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☒ 0 4; Other ☐
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ______
3. Surface seal: Bentonite ☒ 3 0; Concrete ☐ 0 1; Bentonite & native soil (top) Other ☒
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Coarse sand over bentonite chips Other ☒
5. Annular space seal: a. Granular Bentonite ☒ 3 3
   b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ____Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 3 2
   c. ______ Other ☐
7. Fine sand material: Manufacturer, product name and mesh size
   a. Red flint #40-60
   b. Volume added ______ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. Red flint #30
   b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; Other ☐
10. Screen material: PVC schedule 40
    a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐
    b. Manufacturer Env. Manufacturing, Inc.
    c. Slot size: 0.010 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	STS Consultants, Ltd. 11425 West Lake Park Drive Milwaukee, WI 53224	Tel: 414-359-3030 Fax: 414-359-0822

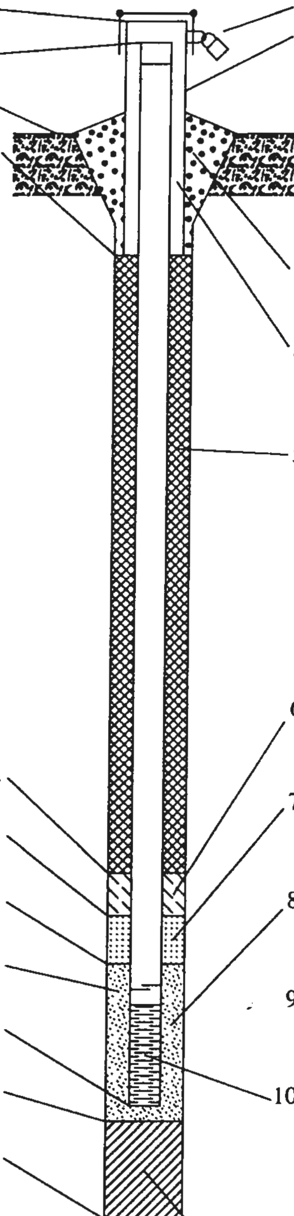
Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: C&L Industrial Cleaners - STS # 86415XB	Local Grid Location of Well: 9938 ft. ☒ N. ☐ S. 10033.4 ft. ☒ E. ☐ W.	Well Name: B-6
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or St. Plane ft. N, ft. E. S / C / N	Wis. Unique Well No: PC281 / DNR Well Number
Facility ID		Date Well Installed: 05/01/2001
Type of Well: Well Code 11/mw	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Gary Braun, STS Consultants, Ltd.
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	



A. Protective pipe, top elevation ______ ft. MSL
B. Well casing, top elevation ______ ft. MSL
C. Land surface elevation 618.5 ft. MSL
D. Surface seal, bottom 615.0 ft. MSL or 3.5 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

Drilling additives used? ☐ Yes ☒ No

Describe ______

17. Source of water (attach analysis):
NA

E. Bentonite seal, top 618.5 ft. MSL or 0.0 ft.
F. Fine sand, top 615.0 ft. MSL or 3.5 ft.
G. Filter pack, top 614.5 ft. MSL or 4.0 ft.
H. Screen joint, top 613.9 ft. MSL or 4.6 ft.
I. Well bottom 603.9 ft. MSL or 14.6 ft.
J. Filter pack, bottom 603.4 ft. MSL or 15.1 ft.
K. Borehole, bottom 601.5 ft. MSL or 17.0 ft.
L. Borehole, diameter 8" in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☒ 0 4
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ______
3. Surface seal: Bentonite ☒ 3 0
Concrete ☐ 0 1
Bentonite & native soil (top) Other ☒
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
Coarse sand over bentonite chips Other ☒
5. Annular space seal: a. Granular Bentonite ☐ 3 3
b. ______ Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ______ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ______ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ______ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 3 2
c. ______ Other ☐
7. Fine sand material: Manufacturer, product name and mesh size
a. Red flint #40-60
b. Volume added ______ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. Red flint #30
b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
Other ☐
10. Screen material: PVC schedule 40
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
Other ☐
b. Manufacturer Env. Manufacturing, Inc.
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

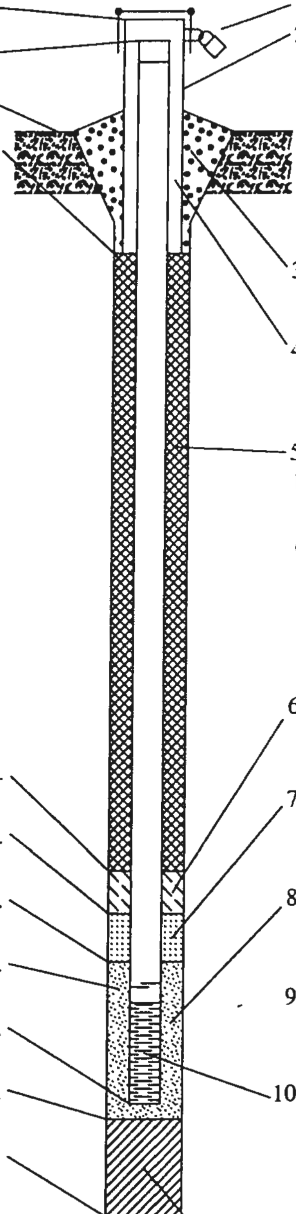
Signature / Firm: STS Consultants, Ltd.
11425 West Lake Park Drive Milwaukee, WI 53224
Tel: 414-359-3030
Fax: 414-359-0822

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name C&L Industrial Cleaners - STS # 86415XB	Local Grid Location of Well 9994.6 ft. ☒ N. ☐ S. 10178.5 ft. ☒ E. ☐ W.	Well Name B-7
cility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis. Unique Well No: PC284 / DNR Well Number
cility ID	St. Plane ft. N, ft. E. S/C/N	Date Well Installed 05/02/2001
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Gary Braun STS Consultants, Ltd.
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	



A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation 615.3 ft. MSL

D. Surface seal, bottom 611.8 ft. MSL or 3.5 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis):

E. Bentonite seal, top 615.3 ft. MSL or 0.0 ft.

F. Fine sand, top 611.8 ft. MSL or 3.5 ft.

G. Filter pack, top 611.3 ft. MSL or 4.0 ft.

H. Screen joint, top 610.5 ft. MSL or 4.8 ft.

I. Well bottom 600.5 ft. MSL or 14.8 ft.

J. Filter pack, bottom 600.0 ft. MSL or 15.3 ft.

K. Borehole, bottom 598.3 ft. MSL or 17.0 ft.

L. Borehole, diameter 8" in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 6x6 (sq.) in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Anodized aluminum Other ☒
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 3 0
Concrete ☐ 0 1
Bentonite & native soil (top) Other ☒

4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
Coarse sand over bentonite chips Other ☒

5. Annular space seal: a. Granular Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 3 2
c. ____ Other ☐

7. Fine sand material: Manufacturer, product name and mesh size
a. Red flint #40-60
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. Red flint #30
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
Other ☐

10. Screen material: PVC schedule 40
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
Other ☐
b. Manufacturer Env. Manufacturing, Inc.
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 1 4
Other ☐

reby certify that the information on this form is true and correct to the best of my knowledge.

nature [signature]	Firm STS Consultants, Ltd. 11425 West Lake Park Drive Milwaukee, WI 53224	Tel: 414-359-3030 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: C&L Industrial Cleaners - STS # 86415XB	Local Grid Location of Well: 9951.2 ft. ☒ N. ☐ S. 10602.2 ft. ☒ E. ☐ W.	Well Name: B-12
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ___° ___' ___" Long. ___° ___' ___" or St. Plane ___ ft. N, ___ ft. E. S/C/N	Wis. Unique Well No: PC285 / DNR Well Number
Facility ID	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Date Well Installed: 05/01/2001
Type of Well: Well Code 11/mw		Well Installed By: (Person's Name and Firm) Gary Braun, STS Consultants, Ltd.
Distance Well Is From Waste/Source Boundary ___ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation ______ ft. MSL

B. Well casing, top elevation ______ ft. MSL

C. Land surface elevation 616.0 ft. MSL

D. Surface seal, bottom ______ ft. MSL or ______ ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐ _ _

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ______

17. Source of water (attach analysis):
NA

E. Bentonite seal, top 616.0 ft. MSL or 0.0 ft.

F. Fine sand, top 612.0 ft. MSL or 4.0 ft.

G. Filter pack, top 611.5 ft. MSL or 4.5 ft.

H. Screen joint, top 611.0 ft. MSL or 5.0 ft.

I. Well bottom 601.0 ft. MSL or 15.0 ft.

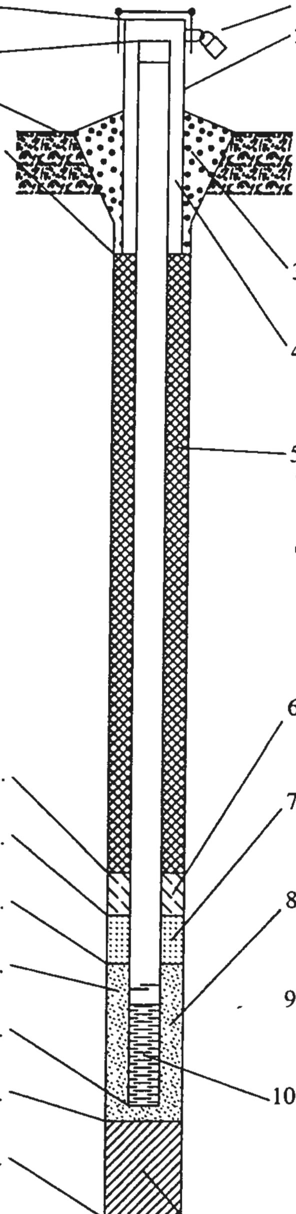
J. Filter pack, bottom 601.0 ft. MSL or 15.0 ft.

K. Borehole, bottom 599.0 ft. MSL or 17.0 ft.

L. Borehole, diameter 8" in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☒ 0 4; Other ☐
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ______
3. Surface seal: Bentonite ☒ 3 0; Concrete ☐ 0 1; Bentonite & native soil (top) Other ☒
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Coarse sand over bentonite chips Other ☒
5. Annular space seal: a. Granular Bentonite ☐ 3 3
   b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ____Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 3 2
   c. ______ Other ☐
7. Fine sand material: Manufacturer, product name and mesh size
   a. Red flint #40-60
   b. Volume added ______ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. Red flint #30
   b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; Other ☐
10. Screen material: PVC schedule 40
    a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐
    b. Manufacturer Env. Manufacturing, Inc.
    c. Slot size: 0.010 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] | Firm: STS Consultants, Ltd., 11425 West Lake Park Drive Milwaukee, WI 53224 | Tel: 414-359-3030 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: C&L Industrial Cleaners - STS # 86415XB	Local Grid Location of Well: 9985.1 ft. ☒ N. ☐ S. 10988.5 ft. ☒ E. ☐ W.	Well Name: B-16
ility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No: PC286 / DNR Well Number
ility ID	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed: 05/01/2001
Type of Well: Well Code 11/mw	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Gary Braun, STS Consultants, Ltd.
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation ______ ft. MSL

B. Well casing, top elevation ______ ft. MSL

C. Land surface elevation 612.2 ft. MSL

D. Surface seal, bottom 608.4 ft. MSL or 3.8 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
______ Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ______

17. Source of water (attach analysis):
NA

E. Bentonite seal, top 612.2 ft. MSL or 0.0 ft.

F. Fine sand, top 608.4 ft. MSL or 3.8 ft.

G. Filter pack, top 608.0 ft. MSL or 4.2 ft.

H. Screen joint, top 607.5 ft. MSL or 4.7 ft.

I. Well bottom 597.5 ft. MSL or 14.7 ft.

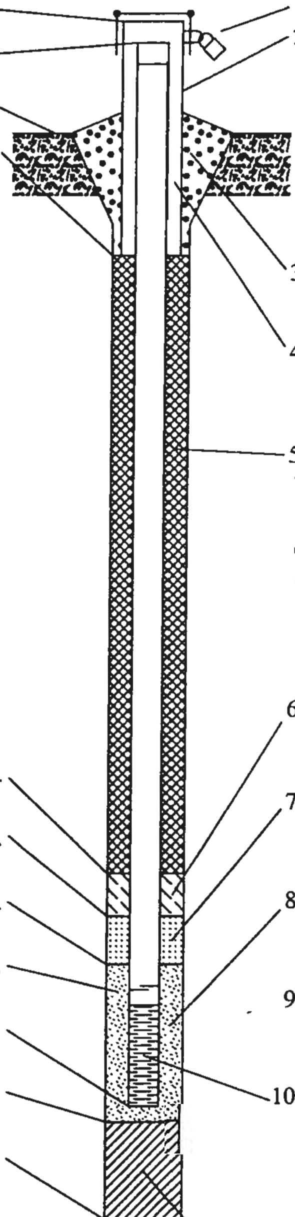
J. Filter pack, bottom 597.0 ft. MSL or 15.2 ft.

K. Borehole, bottom 597.2 ft. MSL or 15.0 ft.

L. Borehole, diameter 8" in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 6x6 (sq.) in.
   b. Length: 5.0 ft.
   c. Material: Steel ☐ 0 4
   Anodized aluminum Other ☒
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ______
3. Surface seal: Bentonite ☒ 3 0
   Concrete ☐ 0 1
   Bentonite & native soil (top) Other ☒
4. Material between well casing and protective pipe:
   Bentonite ☐ 3 0
   Coarse sand over bentonite chips Other ☒
5. Annular space seal: a. Granular Bentonite ☐ 3 3
   b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ______Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1
   Tremie pumped ☐ 0 2
   Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 3 2
   c. ______ Other ☐
7. Fine sand material: Manufacturer, product name and mesh size
   a. Red flint #40-60
   b. Volume added ______ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. Red flint #30
   b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   ______ Other ☐
10. Screen material: PVC schedule 40
   a. Screen Type: Factory cut ☒ 1 1
   Continuous slot ☐ 0 1
   ______ Other ☐
   b. Manufacturer Env. Manufacturing, Inc.
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
   ______ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm: STS Consultants, Ltd.
11425 West Lake Park Drive Milwaukee, WI 53224
Tel: 414-359-3030
Fax: 414-359-0822

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: C & L Industrial Cleaners	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis.Unique Well No.: PL522 / DNR Well Number:
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Well Installed By:
Distance Well Is From Waste/Source Boundary ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☒ Not Known	

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 0.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☒ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

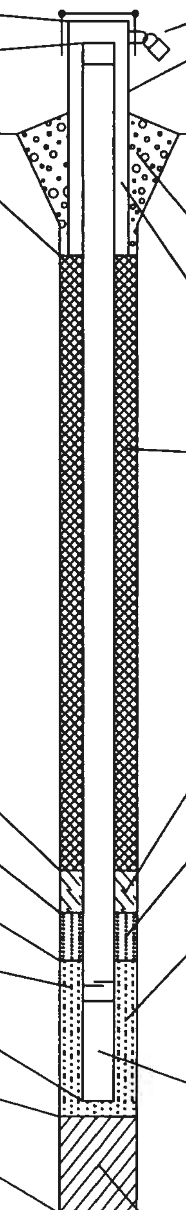
14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☒ Yes ☐ No
Describe No

17. Source of water (attach analysis):
City of Sheboygan

E. Bentonite seal, top ____ ft. MSL or 1.0 ft.
F. Fine sand, top ____ ft. MSL or ____ ft.
G. Filter pack, top ____ ft. MSL or 4.0 ft.
H. Screen joint, top ____ ft. MSL or 5.0 ft.
I. Well bottom ____ ft. MSL or ____ ft.
J. Filter pack, bottom ____ ft. MSL or 15.5 ft.
K. Borehole, bottom ____ ft. MSL or 15.5 ft.
L. Borehole, diameter ____ in.
M. O.D. well casing 2.38 in.
N. I.D. well casing ____ in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☐ 0 4; Steel Other ☒ __
   d. Additional protection? ☒ Yes ☐ No
   If yes, describe: no
3. Surface seal: Bentonite ☐ 3 0; Concrete ☒ 0 1; Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; None Other ☒ __
5. Annular space seal: a. Granular Bentonite ☐ 3 3
   b. ____ Lbs/gal mud wt . . . Bentonite-sand slurry ☐ 3 5
   c. ____ Lbs/gal mud wt . . . Bentonite slurry ☐ 3 1
   d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. 0.9 Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4in. ☒ 3/8in. ☐ 1/2in. Bentonite pellets ☒ 3 2
   c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh siz
   a. #30 Red Flint Sand __
   b. Volume added 3.1 ft^3
8. Filter pack material: Manufacturer, product name and mesh si
   a. ____ __
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   Johnson Screen Other ☒ __
10. Screen material: Schedule 40 PVC __
   a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐ __
   b. Manufacturer Johnson Screen
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4; None Other ☒ __

[redacted]ereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name	Local Grid Location of Well	Well Name
C & L Industrial Cleaners	______ ft. ☐ N. ☐ S. ______ ft. ☐ E. ☐ W.	MW-2

Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐)	Wis.Unique Well No.	DNR Well Number
	Lat. ___° ___' ___" Long. ___° ___' ___" or	PL523	

Facility ID	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed
	Section Location of Waste/Source	

Type of Well	____1/4 of____ 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Well Installed By:
Well Code 11/mw		

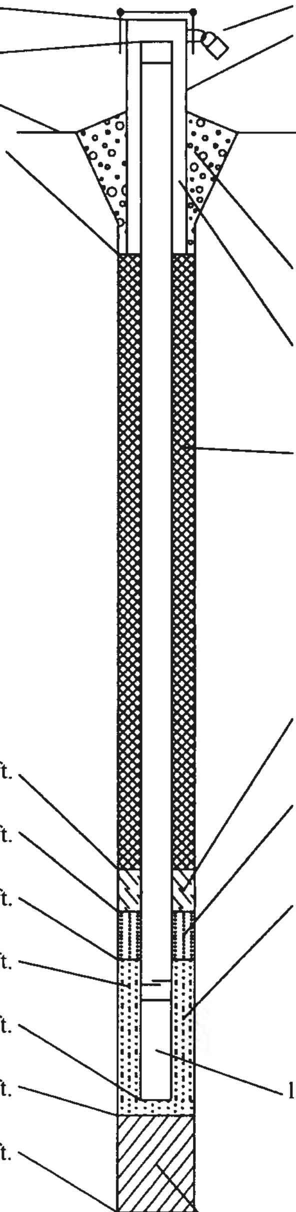
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source	
	u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☒ Not Known	

A. Protective pipe, top elevation ______ ft. MSL

B. Well casing, top elevation ______ ft. MSL

C. Land surface elevation ______ ft. MSL

D. Surface seal, bottom ______ ft. MSL or 0.0 ft.



12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
______ Other ☐ __ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☒ Yes ☐ No

Describe No

17. Source of water (attach analysis):
City of Sheboygan

E. Bentonite seal, top ______ ft. MSL or 1.0 ft.

F. Fine sand, top ______ ft. MSL or ______ ft.

G. Filter pack, top ______ ft. MSL or 4.0 ft.

H. Screen joint, top ______ ft. MSL or 5.0 ft.

I. Well bottom ______ ft. MSL or ______ ft.

J. Filter pack, bottom ______ ft. MSL or 15.5 ft.

K. Borehole, bottom ______ ft. MSL or 15.5 ft.

L. Borehole, diameter ______ in.

M. O.D. well casing 2.38 in.

N. I.D. well casing ______ in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☐ 0 4
      Steel Other ☒ __ __
   d. Additional protection? ☒ Yes ☐ No
      If yes, describe: no
3. Surface seal: Bentonite ☐ 3 0
   Concrete ☒ 0 1
   ______ Other ☐ __ __
4. Material between well casing and protective pipe:
   Bentonite ☐ 3 0
   None Other ☒ __ __
5. Annular space seal: a. Granular Bentonite ☐ 3 3
   b. ____Lbs/gal mud wt . . . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud wt . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. 0.9 Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1
      Tremie pumped ☐ 0 2
      Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4in. ☒ 3/8in. ☐ 1/2in. Bentonite pellets ☒ 3 2
   c. ______ Other ☐ __ __
7. Fine sand material: Manufacturer, product name and mesh size
   a. #30 Red Flint Sand __ __
   b. Volume added 3.1 ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. ______ __ __
   b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   Johnson Screen Other ☒ __ __
10. Screen material: Schedule 40 PVC __ __
    a. Screen Type: Factory cut ☒ 1 1
       Continuous slot ☐ 0 1
       ______ Other ☐ __ __
    b. Manufacturer Johnson Screen
    c. Slot size: 0.010 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
    None Other ☒ __ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Margaret Earnest	T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226	Tel: Fax:

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: C & L Industrial Cleaners
Local Grid Location of Well: ______ ft. ☐ N. ☐ S. ______ ft. ☐ E. ☐ W.
Well Name: MW-3

Facility License, Permit or Monitoring No.
Grid Origin Location (Check if estimated: ☐) Lat. ___° ___' ___" Long. ___° ___' ___" or
St. Plane ______ ft. N, ______ ft. E. S/C/N
Wis.Unique Well No.: PL521
DNR Well Number

Facility ID
Date Well Installed

Type of Well: Well Code 11/mw
Section Location of Waste/Source: ___1/4 of ___1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W
Well Installed By:

Distance Well Is From Waste/Source Boundary ______ ft.
Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☒ Not Known

A. Protective pipe, top elevation ______ ft. MSL
B. Well casing, top elevation ______ ft. MSL
C. Land surface elevation ______ ft. MSL
D. Surface seal, bottom ______ ft. MSL or 0.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐ __

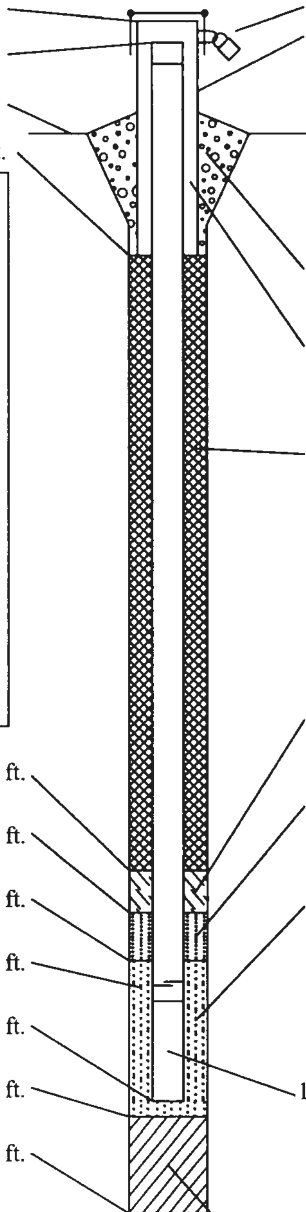
15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☒ Yes ☐ No

Describe: No

17. Source of water (attach analysis): City of Sheboygan

E. Bentonite seal, top ______ ft. MSL or 1.0 ft.
F. Fine sand, top ______ ft. MSL or ______ ft.
G. Filter pack, top ______ ft. MSL or 4.0 ft.
H. Screen joint, top ______ ft. MSL or 5.0 ft.
I. Well bottom ______ ft. MSL or ______ ft.
J. Filter pack, bottom ______ ft. MSL or 15.5 ft.
K. Borehole, bottom ______ ft. MSL or 15.5 ft.
L. Borehole, diameter ______ in.
M. O.D. well casing 2.38 in.
N. I.D. well casing ______ in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☐ 0 4; Steel — Other ☒ __
   d. Additional protection? ☒ Yes ☐ No
   If yes, describe: no
3. Surface seal: Bentonite ☐ 3 0; Concrete ☒ 0 1; Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; N — Other ☒ __
5. Annular space seal: a. Granular Bentonite ☐ 3 3
   b. ____Lbs/gal mud wt . . . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud wt . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. 1.05 Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4in. ☒ 3/8in. ☐ 1/2in. Bentonite pellets ☒ 3 2
   c. ______ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh size
   a. #30 Red Flint Sand __
   b. Volume added 2.6 ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. ______ __
   b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; Johnson Screen — Other ☒ __
10. Screen material: Schedule 40 PVC __
   a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐ __
   b. Manufacturer: Johnson Screen
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4; None — Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Margaret Earnest
Firm: T N & Associates, Inc.
1033 N. Mayfair Road Milwaukee, WI 53226
Tel:
Fax:

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Appendix D

Well Development/Sampling Forms

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Remediation/Redevelopment ☒ Waste Management ☐ Other ☐

Facility/Project Name	County	Well Name	
C & L Industrial Cleaners	Kenosha	MW-1	
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	30	PL522	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☒	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other ____________	☐	__

3. Time spent developing well ____ min.

4. Depth of well (from top of well casing) 90 ft.

5. Inside diameter of well 17.5 in.

6. Volume of water in filter pack and well casing 1.3 gal.

7. Volume of water removed from well 40.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added ____________

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	9.71 ft.	9.70 ft.
Date	b.	12/11/2003	12/11/2003
Time	c.	08:00 am	09:30 am
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☒ 1 0 Turbid ☐ 1 5 (Describe)	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

	Before Development	After Development
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm

Michael McArdle
M&K Environmental Soils

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: ____________

Firm: ____________

Street: ____________

City/State/Zip: ____________

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Margaret Earnest

Print Name: Margaret Earnest

Firm: T N & Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name	
C & L Industrial Cleaners	Kenosha	MW-2	
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	30	PL523	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:
   - surged with bailer and bailed ☐ 4 1
   - surged with bailer and pumped ☐ 6 1
   - surged with block and bailed ☐ 4 2
   - surged with block and pumped ☒ 6 2
   - surged with block, bailed, and pumped ☐ 7 0
   - compressed air ☐ 2 0
   - bailed only ☐ 1 0
   - pumped only ☐ 5 1
   - pumped slowly ☐ 5 0
   - other ________ ☐ __

3. Time spent developing well ____ min.

4. Depth of well (from top of well casing) 90 ft.

5. Inside diameter of well 17.8 in.

6. Volume of water in filter pack and well casing 1.2 gal.

7. Volume of water removed from well 40.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added ________

10. Analysis performed on water added? ☐ Yes ☒ No
    (If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	10.76 ft.	10.80 ft.
Date	b.	12/11/2003	12/11/2003
Time	c.	09:45 am	11:15 am
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☒ 1 0 Turbid ☐ 1 5 (Describe)	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

	Before Development	After Development
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Michael McArdle
M&K Environmental Soils

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: ________
Firm: ________
Street: ________
City/State/Zip: ________

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Margaret Earnest
Print Name: Margaret Earnest
Firm: T N & Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Remediation/Redevelopment ☒ Waste Management ☐ Other ☐

Facility/Project Name	County	Well Name	
C & L Industrial Cleaners	Kenosha	MW-3	
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	30	PL521	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☒	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other ______	☐	__

3. Time spent developing well ____ min.

4. Depth of well (from top of well casing) 60 ft.

5. Inside diameter of well 17.5 in.

6. Volume of water in filter pack and well casing 1.8 gal.

7. Volume of water removed from well 40.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added ______

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	7.06 ft.	7.00 ft.
Date	b.	12/11/2003	12/11/2003
Time	c.	11:30 am	12:30 pm
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

	Before Development	After Development
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Michael McArdle
M&K Environmental Soils

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address
Name: ______
Firm: ______
Street: ______
City/State/Zip: ______

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Margaret Earnest
Print Name: Margaret Earnest
Firm: T N & Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

TN [redacted] & Associates, Inc.
&A Engineering and Science

Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** B - 3 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ____________ Sampling Equipment/ID No: ____________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.50 **Static Water Level** (Depth to Water from TOC) (d): 7.25

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________

Casing Volumes = three x (f) ________ = ________

6" Diameter = ~1.5 gal/ft
4" Diameter = ~0.67 gal/ft
3" Diameter = ~0.37 gal/ft
2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (us/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/11/03	1520					9.50	7.12	0.610	6.8	115.0	349	
	1525					11.54	7.0	0.676	2.84	108.2	33.7	
	1530					11.9	7.0	0.69	4.2	101.6	72.8	Can't sustain water level in the well, will shut down the pump and use a bailer tomorrow.
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: MC Checked By: ____________

TN & Associates, Inc.
Engineering and Science

Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** B - 5 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ____________ Sampling Equipment/ID No: ____________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.55 **Static Water Level** (Depth to Water from TOC) (d): 10.64

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________

Casing Volumes = three x (f) ________ = ________

6" Diameter = ~1.5 gal/ft
4" Diameter = ~0.67 gal/ft
3" Diameter = ~0.37 gal/ft
2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/12/03	0946					9.8	6.53	1.305	0.32	12.0	201	
	0949					10.58	6.45	1.300	0.12	3.4	150	
	0952					11.08	6.37	1.322	0.06	-5.0	39.9	
	0958					11.24	6.34	1.325	0.05	-12.6	11.4	
	1001					11.30	6.31	1.329	0.04	-15.1	6.71	
	1005					11.24	6.29	1.3	0.05	-16.4	5.65	
	1009					11.27	6.30	1.343	0.04	-18.0	4.68	
	1014					11.33	6.28	1.345	0.04	-20.2	4.82	
	1017				5	11.39	6.29	1.346	0.03	-21.3	4.55	Sampled 3 VOCs
	;											
	;											
	;											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ____________

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Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** B - 6 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ____________ Sampling Equipment/ID No: ____________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.68 **Static Water Level** (Depth to Water from TOC) (d): 11.74 6" Diameter = ~1.5 gal/ft

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________ 4" Diameter = ~0.67 gal/ft

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________ 3" Diameter = ~0.37 gal/ft

Casing Volumes = three x (f) ________ = ________ 2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/12/03	1045					10.43	6.57	1.088	0.07	-71.4	51.2	
	1050					10.58	6.50	1.069	0.04	-76.8	91.6	
	1055					10.51	6.49	1.057	0.04	-77.9	39.1	
	1101					10.59	6.46	1.047	0.08	-76.0	18.0	Very slow pumping, had to lower the pump 1 ft.
	1104					10.6	6.46	1.042	0.08	-74.4	25.5	
	1109					10.74	6.44	1.036	0.06	-73.6	15.9	
	1115					10.68	6.46	1.027	0.06	-74.7	31.1	
	1118					10.58	6.45	1.026	0.06	-73.2	19.2	
	1123				7	10.77	6.44	1.02	0.06	-73.0	12.6	Regular and DUP Samples taken for VOCs, PAHs, Nickel. MS/D for nickel was also taken.
	:											
	:											
	:											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ____________

TN&A & Associates, Inc.
Engineering and Science

Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ______ Page ___ of ____

SITE ID: ________ **LOCATION ID:** B - 7 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ____________ Sampling Equipment/ID No: ____________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.84 **Static Water Level** (Depth to Water from TOC) (d): 5.59

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________

Casing Volumes = three x (f) ________ = ________

6" Diameter = ~1.5 gal/ft
4" Diameter = ~0.67 gal/ft
3" Diameter = ~0.37 gal/ft
2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/11/03	1030					9.31	6.77	0.749	0.8	107.2	9.21	
	1035					9.31	6.62	0.725	0.77	86	3.26	
	1038					9.34	6.59	0.725	0.74	75.4	1.71	
	:1041				3	9.28	6.56	0.725	0.73	73.5	1.41	Sampled 3 VOCs
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ____________

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Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** B - 12 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ________ Sampling Equipment/ID No: ________

Well Casing Diameter (a) in : ________ Unit Casing Volume (b): ________

Sounding (Depth to Well Bottom from TOC) (c): 16.69 **Static Water Level** (Depth to Water from TOC) (d): 6.33

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________

Casing Volumes = three x (f) ________ = ________

6" Diameter = ~1.5 gal/ft
4" Diameter = ~0.67 gal/ft
3" Diameter = ~0.37 gal/ft
2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/11/03	1318					9.4	6.59	1.416	0.41	115.1	31	
	1321					10.07	6.53	1.286	0.19	96.8	22	
	1328					10.64	6.50	0.98	0.07	32.5	11.4	
	1331					10.57	6.48	0.960	0.07	24.1	8.51	
	1334					10.7	6.48	0.944	0.06	19.0	6.23	
	1337					10.69	6.47	0.936	0.06	14.5	5.48	
	1340					10.67	6.45	0.927	0.06	12.8	4.5	
	1343					10.7	6.43	0.924	0.06	11.3	3.98	Sampled 3 VOCs
	:											
	:											
	:											
	:											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ________

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Engineering and Science

Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** B - 16 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ________________ Sampling Equipment/ID No: ________________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.97 **Static Water Level** (Depth to Water from TOC) (d): 7.69 6" Diameter = ~1.5 gal/ft

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________ 4" Diameter = ~0.67 gal/ft

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________ 3" Diameter = ~0.37 gal/ft

Casing Volumes = three x (f) ________ = ________ 2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/11/03	0920					9.67	6.09	1.037	0.43	116.6	6.23	
	0923					9.03	6.04	1.10	0.23	126.0	6.41	
	0926					9.10	6.03	1.130	0.21		5.53	
	0929					9.11	6.02	1.133	0.22	133.5	3.71	
	0932					9.04	6.01	1.131	0.21	136.2	2.96	
	0935				5	8.92	6.0	1.125	0.20	138.7	2.56	
	:											
	:											
	:											
	:											
	:											
	:											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ________________

TN&A & Associates, Inc. Engineering and Science

Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** MW - 1 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ____________ Sampling Equipment/ID No: ____________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.49 **Static Water Level** (Depth to Water from TOC) (d): 9.71

6" Diameter = ~1.5 gal/ft

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________

4" Diameter = ~0.67 gal/ft

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________

3" Diameter = ~0.37 gal/ft

Casing Volumes = three x (f) ________ = ________

2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/11/03	1412					9.0	6.31	1.070	2.57	80.1	67.2	
	1415					10.49	6.55	1.077	1.98	75.8	23.3	
	1418					10.79	6.59	1.082	1.66	75.8	12.0	
	1421					10.84	6.59	1.086	1.48	76.3	7.40	
	1424					10.82	6.58	1.087	1.33	76	5.55	
	1427					10.79	6.58	1.083	1.27	74.7	3.77	
	1430					10.88	6.58	1.079	1.15	70.9	5.04	
	1433					10.93	6.57	1.077	1.04	68.1	5.0	
	1436					10.98	6.57	1.076	1.01	66.9	4.04	Sampled, and collected the MS/D and DUP
	:											
	:											
	:											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________

* Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ____________

TN&A & Associates, Inc.
Engineering and Science

Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** MW - 2 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ____________ Sampling Equipment/ID No: ____________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.77 **Static Water Level** (Depth to Water from TOC) (d): 10.76 6" Diameter = ~1.5 gal/ft

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________ 4" Diameter = ~0.67 gal/ft

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________ 3" Diameter = ~0.37 gal/ft

Casing Volumes = three x (f) ________ = ________ 2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/12/03	0845					9.97	6.56	0.987	1.87	124.2	45	
	0850					10.92	6.34	0.990	2.4	103.0	26.7	
	0853					11.09	6.38	0.993	1.50	90.8	17.5	
	0856					11.14	6.27	0.992	1.19	87.3	13.7	
	0900					11.20	6.37	0.994	1.0	90.8	12	
	0903					11.19	6.34	0.994	0.85	77.3	10.7	
	0909					11.19	6.33	0.996	0.77	73.3	9.3	
	0915					11.22	6.32	0.996	0.74	71.6	8.59	
	0918				5	11.25	6.29	0.997	0.69	70.0	8.5	Sampled 3 VOCs
	:											
	:											
	:											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ____________

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Engineering and Science

Groundwater Well Development/Purge Log

Project Name: C & L Industrial Cleaners Project No. 2001061 Phase ___ Task ___ Page ___ of ___

SITE ID: ________ **LOCATION ID:** MW - 3 (Well Number) Target Purge Volume : ________ gal

Purging Method/Equipment: ________________ Sampling Equipment/ID No: ________________

Well Casing Diameter (a) in : ____________ Unit Casing Volume (b): ____________

Sounding (Depth to Well Bottom from TOC) (c): 17.52 **Static Water Level** (Depth to Water from TOC) (d): 7.06 6" Diameter = ~1.5 gal/ft

Length of Static Water Column in Casing (e) = (c) - (d) = ________ - ________ = ________ 4" Diameter = ~0.67 gal/ft

Casing Water Volume (f) = (b) x (e) = ________ x ________ = ________ 3" Diameter = ~0.37 gal/ft

Casing Volumes = three x (f) ________ = ________ 2" Diameter = ~0.17 gal/ft

Date	Time 24hr	Recovery Time (min)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp (C°)	pH	Specific Conductivity (ms/cm)	Dissolved oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Water Description
12/11/03	1130					8.99	6.26	1.102	6.18	125.3	13.2	
	1133					9.23	6.23	1.103	5.86	130.2	4.7	
	1136					9.31	6.19	1.107	5.45	133.0	3.6	
	1139				3	9.36	6.17	1.109	5.27	132.2	2.8	Sampled
	:											
	:											
	;											
	;											
	;											
	;											
	;											
	;											

Recovery Depth* (ft from TOC) : ________ Final **Recovery Time*** (min) : ________ * Taken As Final Water Level Reading and Time after sampling is complete and well has recovered.

Prepared By: ME Checked By: ________________

Appendix E

Chain of Custody Records

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: David Voight
Company: TN & Associates
Address: 1033 N. Mayfair Rd Suite 200
Milwaukee WI 53226
Phone: (414) 601 6722
P.O.#
Project # 2001061-023907 Quote #
Location Kenosha, WI

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	VOC (SW 8021)	TPH (SW 8310)	Ni (SW6010)			REMARKS
	12-10-03	~~1200~~ 1115		1	2003TN01S08			1			
		1200		3	2003TN01S09	2		1			1 empty vial
		1300		4	2003TN01S13	3	1				
		1200		3	2003TN01D09	2		1			1 empty vial
		1300		1	" D13		1				
	12-10-03	1115		1	" D08			1			
	12-9-03	1320		6	2003TN01S01	3	1	2			
	12-9-03	1435		5	" S04	3		2			
	12-9-03	1400		5	" S05	3		2			
		1445		3	" S07	3					

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on Ice? Y N N/A __°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Margaret Earnest

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
Margaret Earnest	12-10-03 1600	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* — DATE/TIME

REQUEST FOR SERVICES — USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: DAVID Voight
Company: [illegible]
Address: [illegible] N MAYFAIR RD

Phone: (414) [illegible] 6772
P.O.#
Project # 2001A061-02-3707 Quote #
Location C[illegible] [illegible]

BILL TO: (if different from Report To info)
Name:
Company:
Address:

Phone: (______)

Sample Type
(Check all that apply)
- ❑ Groundwater
- ❑ Wastewater
- ☒ Soil/Solid
- ❑ Drinking Water
- ❑ Oil
- ❑ Vapor
- ❑ Other

Turnaround Time
- ❑ Normal
- ❑ Rush (Pre-approved by Lab)

Date Needed ________
Approved By ________

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	VOCs 8260	Nickel	[illegible]			REMARKS
	12/9/[illegible]	[illegible]45		6	2003[illegible]01S18	3	2	1		1	[illegible]
		1305		6	2003[illegible]01S19	3	2	1			
		[illegible]		5	2003TN01S16	3	1	1			
		[illegible]		76	2003TN01S17	3	3	1			[illegible] sample for MS/MSD
		0710		5	2003TN01S14	3	1	1			
		0930		5	2003TN01S15	3	1	1			
		—		3	2003TN01D90		2	1			

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A __°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Nova Clit[illegible]

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
Nova Clitz	12/9/03 1505	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* — DATE/TIME

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: David Voight
Company: [illegible]
Address: [illegible] Suite 200
Milwaukee WI 53226
Phone: (414) 607-[illegible]772
P.O.#
Project # 2001061-02-3707 Quote #
Location Kenosha, WI

BILL TO: (if different from Report To info)
Name:
Company:
Address:

Phone: ( )

Sample Type
(Check all that apply)
- ☐ Groundwater
- ☐ Wastewater
- ☒ Soil/Solid
- ☐ Drinking Water
- ☐ Oil
- ☐ Vapor
- ☐ Other

Turnaround Time
- ☒ Normal
- ☐ Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	GRAB	SAMPLE ID	VOCs (SW5035/8021)	Ni (SW6010)	TCLP			REMARKS
	12-10-03	1050		3	2003INU1513	3					[illegible]
	12-10-03	0900		5	2003INU1508	3	2				" "
	12-10-03	1405		7	2003INU1514	3		4			" " "

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Margaret Earnest

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
Margaret Earnest	12-10-03 / 1800	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* — DATE/TIME

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on Ice? Y N N/A ___°C

Comments:

REQUEST FOR SERVICES

USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

7226

REPORT TO:
Name: David Voight
Company: [illegible]
Address: [illegible] 53221
Phone: ([illegible]) [illegible]
P.O.#
Project # [illegible] / Quote #
Location

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [x] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

correct

LAB USE ONLY	DATE	TIME	No. of Containers COMP	GRAB	SAMPLE ID	Voc (SW5035/8021)	PAH (SW8310)				REMARKS
	[illegible]	0110		3	2003INUIS01	3					All VOCs
		0930		3	2003INUIS02	3					have
		1130		3	2003INUIS03	3					dry wt
		1140		3	2003INUIS04	3					samples
		1015		4	2003INUIS05	3	1				
		1040		3	2003INUIS06	3					
		1225		4	2003INUIS07	3	1				
		1240		3	2003INUIS10	3					

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A __°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* [signature]

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
[signature]	[illegible]/1651		
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)*	DATE/TIME

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: David Voigt
Company: [illegible]
Address: [illegible]
[illegible]
Phone: ([illegible]) [illegible] 772
P.O.#
Project # [illegible]-3767 Quote #
Location [illegible]

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	~~[illegible]~~	PAH (SW8310)	Ni (SW6010)			REMARKS
	[illegible] 03			2	[illegible] 50		1	1			
	12-11-03	1445		6	" 52		3	3			
	12-11-03	1145		2	53		1	1			
	12-11-03	1445		2	" D52		1	1			
	12-12-03				Empty Bottles				9		Returns

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A __°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Margaret Earnest

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
Margaret Earnest	12-12-03 / 1600	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)*

DATE/TIME

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: David Voight
Company: TN & Associates
Address: [illegible] Suite 200
[illegible] 53226
Phone: ([illegible]) 257-4200
P.O.#
Project # 20016-02-3707 Quote #
Location [illegible], WI

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	GRAB	SAMPLE ID	[illegible] (SW 8310)	Ni (SW 6010)				REMARKS
	12-12-03	1115		8	2003TN01S58	5	3				2 Extra PAHs
	12-12-03	1115		2	" D58	1	1				

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A __°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Margaret Earnest

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
Margaret Earnest	12-12-03 1600		
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)*	DATE/TIME

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: David Voight
Company: TN & Associates
Address: 1033 N Mayfair Rd Suite 200
Milwaukee WI 53226
Phone: (414) 257 4200
P.O.#
Project # 2001061 62 330 Quote #
Location

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

error
correct is 8021

LAB USE ONLY	DATE	TIME	No. of Containers COMP	GRAB	SAMPLE ID	VOCs (SW1311/SW8260B)	(SW1311) SW8260B			REMARKS
	12-11-03	1445		9	2003TN01S52	9				
	12-11-03	1042		3	" S51	3				
	12-11-03	0935		3	2003 TN01S50	3				
	12-11-03	1445		3	" D52	3				
	12-12-03	0900		3	" S56	3				
	12-12-03	1000		3	" S57	3				
	12-12-03	0830		3	" S55	3				
	12-11-03	1145		3	S53	3				
	12-11-03	1330		3	2003TN01S54	3				
	LOOK	AT	2nd		Sheet →		More			

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A __°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Margaret Earnest

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
Margaret Earnest	12-12-03 / 1600		
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)*	DATE/TIME

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: David Voight
Company: TN & Associates
Address: 1033 N Mayfair Rd Suite 200
Milwaukee, WI 53226
Phone: (414) 257-4200
P.O.#
Project # 2001061.02-3707 Quote #
Location Kenosha, WI

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

error C=8021

ANALYTICAL REQUESTS
(use separate sheet if necessary)

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	~~VOC (SW 8021)~~ SW 8260B					REMARKS
	12-12-03	1115		3	2003TNC1S58	3					
	12-12-03	1115		3	" D58	3					

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A __°C
Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Margaret Earnest

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
Margaret Earnest	12-12-03 1600		
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)*	DATE/TIME

Appendix F

Laboratory Analytical Reports

Detected Volatile Organics in Groundwater
U.S. EPA Targeted Brownfields Assessment
C&L Industrial Cleaners Site; Kenosha, Wisconsin

Contaminant	Sample ID	Well/ Geoprobe	Method 8021 (ug/L) Result	LOD	LOQ	Dilution Factor	NR 140 PAL	NR 140 ES
Benzene	2003TN01S58	B-6	0.322J	0.31	1.03	1	**0.5**	**5**
	2003TN01D58	B-6	0.319J	0.31	1.03	1		
cis-1,2-Dichloroethylene	2003TN01S04	GP-9	0.502J	0.23	0.77	1	**7**	**70**
	2003TN01S52	MW-1	**149**	0.23	0.77	50		
	2003TN01D52	MW-1	**162**	0.23	0.77	50		
	2003TN01S55	B-3	**16.3**	0.23	0.77	5		
	2003TN01S53	MW-3	**224**	0.23	0.77	20		
	2003TN01S54	B-12	**152**	0.23	0.77	10		
	2003TN01S58	B-6	**13.4**	0.23	0.77	1		
	2003TN01D58	B-6	**14.2**	0.23	0.77	1		
trans-1,2-Dichloroethylene	2003TN01S52	MW-1	**26.4**	0.39	1.3	1	**20**	**100**
	2003TN01D52	MW-1	**26.2**	0.39	1.3	1		
	2003TN01S54	B-12	5.70	0.39	1.3	10		
	2003TN01S58	B-6	0.524J	0.39	1.3	1		
Tetrachloroethylene	2003TN01S09	GP-4	0.337J	0.32	1.07	1	**0.5**	**5**
	2003TN01S09	GP-4	**0.522J**	0.32	1.07	1		
	2003TN01S13	GP-1	**1,130**	0.32	1.07	100		
	2003TN01S55	B-3	**56.1**	0.32	1.07	5		
Trichloroethylene	2003TN01S13	GP-1	**2.48**	0.36	1.2	1	**0.5**	**5**
Vinyl Chloride	2003TN01S05	GP-13	**2.59**	0.2	0.67	1	**0.02**	**0.2**
	2003TN01S04	GP-9	**7.21**	0.2	0.67	1		
	2003TN01S52	MW-1	**2.51**	0.2	0.67	1		
	2003TN01D52	MW-1	**2.56**	0.2	0.67	1		
	2003TN01S57	B-5	**0.272J**	0.2	0.67	1		
	2003TN01S53	MW-3	**8.76**	0.2	0.67	20		
	2003TN01S58	B-6	**1.98**	0.2	0.67	1		
	2003TN01D58	B-6	**1.76**	0.2	0.67	1		

Note: J - Estimated concentration below laboratory quantitation level.

Detected Volatile Organics in Soil
U.S. EPA Brownfields Targeted Brownfields Assessment
C&L Industrial Cleaners Site; Kenosha, Wisconsin

Contaminant	Sample ID	Well/ Geoprobe	Method 8021 mg/kg)			Dilution Factor
			Result	LOD	LOQ	
cis-1,2-Dichloroethylene	2003TN01S02	GP-11	0.0718	0.007	0.023	0.9
	2003TN01S03	GP-10	0.0768	0.007	0.023	0.9
	2003TN01S04	GP-9	0.0448	0.007	0.023	1
Tetrachloroethylene	2003TN01S13	GP-1	50	0.009	0.03	83.6
Trichloroethylene	2003TN01S02	GP-11	0.504	0.011	0.037	0.9

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.21
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Qualifier Descriptions

J	Estimated concentration below laboratory quantitation level.
CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.20
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01D07** Matrix: **GRDWTR** Sample Date/Time: **12/09/03 15:20** Lab No. **145829**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/17/03	JJP
EPA 6010								
Total Nickel	0.008	mg/l	0.003	0.01	1	J	12/24/03	BMS

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.19
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S07** Matrix: **GRDWTR** Sample Date/Time: **12/09/03 14:45** Lab No. **145828**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/18/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1	CSH	12/18/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/18/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/18/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
PID Surrogate Recovery (S)	104.	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	120.	%	-	-	1		12/18/03	LMP

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.18
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S07 Matrix: GRDWTR Sample Date/Time: 12/09/03 14:45 Lab No. 145828

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/18/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/18/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/18/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/18/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/18/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/18/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/18/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/18/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/18/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/18/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/18/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/18/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		12/18/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/18/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/18/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		12/18/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/18/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/18/03	LMP

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FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.17
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S05** Matrix: **GRDWTR** Sample Date/Time: **12/09/03 14:00** Lab No. **145827**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/18/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/18/03	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/18/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1	CSH	12/18/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/18/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/18/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
PID Surrogate Recovery (S)	102.	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	121.	%	-	-	1		12/18/03	LMP

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.16
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S05** Matrix: **GRDWTR** Sample Date/Time: **12/09/03 14:00** Lab No. **145827**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/17/03	JJP
EPA 6010								
Total Nickel	0.009	mg/l	0.003	0.01	1	J	12/24/03	BMS
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/18/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/18/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/18/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/18/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/18/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/18/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/18/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/18/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/18/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/18/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/18/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/18/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		12/18/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/18/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/18/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		12/18/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.15
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S04 Matrix: GRDWTR Sample Date/Time: 12/09/03 14:35 Lab No. 145826

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/18/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/18/03	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/18/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1	CSH	12/18/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Vinyl Chloride	7.21	µg/l	0.2	0.67	1		12/18/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/18/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
PID Surrogate Recovery (S)	104.	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	110.	%	-	-	1		12/18/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.14
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S04 Matrix: GRDWTR Sample Date/Time: 12/09/03 14:35 Lab No. 145826

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/17/03	JJP
EPA 6010								
Total Nickel	0.008	mg/l	0.003	0.01	1	J	12/24/03	BMS
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/18/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/18/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/18/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/18/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/18/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/18/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/18/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/18/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/18/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/18/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/18/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
cis-1,2-Dichloroeth(yl)ene	0.502	µg/l	0.23	0.77	1	J	12/18/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/18/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		12/18/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/18/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/18/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		12/18/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.13
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S01** Matrix: **GRDWTR** Sample Date/Time: **12/09/03 13:20** Lab No. **145825**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/18/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/18/03	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/18/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1	CSH	12/18/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Vinyl Chloride	2.59	µg/l	0.2	0.67	1		12/18/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/18/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
PID Surrogate Recovery (S)	104.	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	113.	%	-	-	1		12/18/03	LMP
EPA 8310								
Acenaphthene	<0.33	µg/l	0.06	0.20	5.5		12/23/03	SLO
Acenaphthylene	<0.33	µg/l	0.06	0.20	5.5		12/23/03	SLO
Anthracene	<0.275	µg/l	0.05	0.17	5.5		12/23/03	SLO
Benzo(a)Anthracene	<0.22	µg/l	0.04	0.13	5.5		12/23/03	SLO
Benzo(a)Pyrene	<0.0935	µg/l	0.017	0.057	5.5		12/23/03	SLO
Benzo(b)Fluoranthene	<0.22	µg/l	0.04	0.13	5.5		12/23/03	SLO
Benzo(k)Fluoranthene	<0.22	µg/l	0.04	0.13	5.5		12/23/03	SLO
Benzo(ghi)Perylene	<0.275	µg/l	0.05	0.17	5.5		12/23/03	SLO
Chrysene	<0.275	µg/l	0.05	0.17	5.5		12/23/03	SLO
Dibenzo(a,h)Anthracene	<0.33	µg/l	0.06	0.20	5.5		12/23/03	SLO
Fluoranthene	<0.33	µg/l	0.06	0.20	5.5		12/23/03	SLO
Fluorene	<0.66	µg/l	0.12	0.40	5.5		12/23/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.275	µg/l	0.05	0.17	5.5		12/23/03	SLO
1-Methyl Naphthalene	<0.44	µg/l	0.08	0.27	5.5		12/23/03	SLO
2-Methyl Naphthalene	<0.605	µg/l	0.11	0.37	5.5		12/23/03	SLO
Naphthalene	<0.55	µg/l	0.1	0.33	5.5		12/23/03	SLO
Phenanthrene	<0.44	µg/l	0.08	0.27	5.5		12/23/03	SLO
Pyrene	<0.495	µg/l	0.09	0.30	5.5		12/23/03	SLO
9,10-Diphenylanthracene (S)	25.3	%	-	-	5.5		12/23/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/15/03	KAM

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TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.12
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S01 Matrix: GRDWTR Sample Date/Time: 12/09/03 13:20 Lab No. 145825

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/17/03	JJP
EPA 6010								
Total Nickel	0.015	mg/l	0.003	0.01	1		12/24/03	BMS
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/18/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/18/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/18/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/18/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/18/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/18/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/18/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/18/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/18/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/18/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/18/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/18/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/18/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/18/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/18/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/18/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/18/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		12/18/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/18/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/18/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/18/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/18/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/18/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/18/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		12/18/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/18/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/18/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/18/03	LMP

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.11
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01D08** Matrix: **GRDWTR** Sample Date/Time: 12/10/03 11:15 Lab No. 145824

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/15/03	JJP
EPA 6010								
Total Nickel	0.0049	mg/l	0.003	0.01	1	J	12/16/03	DJB

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.10
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01D13 Matrix: GRDWTR Sample Date/Time: 12/10/03 13:00 Lab No. 145823

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.0924	µg/l	0.06	0.20	1.5		12/23/03	SLO
Acenaphthylene	<0.0924	µg/l	0.06	0.20	1.5		12/23/03	SLO
Anthracene	<0.077	µg/l	0.05	0.17	1.5		12/23/03	SLO
Benzo(a)Anthracene	<0.0616	µg/l	0.04	0.13	1.5		12/23/03	SLO
Benzo(a)Pyrene	<0.0261	µg/l	0.017	0.057	1.5		12/23/03	SLO
Benzo(b)Fluoranthene	<0.0616	µg/l	0.04	0.13	1.5		12/23/03	SLO
Benzo(k)Fluoranthene	<0.0616	µg/l	0.04	0.13	1.5		12/23/03	SLO
Benzo(ghi)Perylene	<0.077	µg/l	0.05	0.17	1.5		12/23/03	SLO
Chrysene	<0.077	µg/l	0.05	0.17	1.5		12/23/03	SLO
Dibenzo(a,h)Anthracene	<0.0924	µg/l	0.06	0.20	1.5		12/23/03	SLO
Fluoranthene	<0.0924	µg/l	0.06	0.20	1.5		12/23/03	SLO
Fluorene	<0.185	µg/l	0.12	0.40	1.5		12/23/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.077	µg/l	0.05	0.17	1.5		12/23/03	SLO
1-Methyl Naphthalene	<0.123	µg/l	0.08	0.27	1.5		12/23/03	SLO
2-Methyl Naphthalene	<0.169	µg/l	0.11	0.37	1.5		12/23/03	SLO
Naphthalene	<0.154	µg/l	0.1	0.33	1.5		12/23/03	SLO
Phenanthrene	<0.123	µg/l	0.08	0.27	1.5		12/23/03	SLO
Pyrene	<0.139	µg/l	0.09	0.30	1.5		12/23/03	SLO
9,10-Diphenylanthracene (S)	68.8	%	-	-	1.5		12/23/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/15/03	KAM

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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.9
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01D09** Matrix: **GRDWTR** Sample Date/Time: **12/10/03 12:00** Lab No. **145822**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/17/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/17/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/17/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/17/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/17/03	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/17/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/17/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/17/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1	CSH	12/17/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/17/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/17/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
PID Surrogate Recovery (S)	104.	%	-	-	1		12/17/03	LMP
HALL Surrogate Recovery (S)	112.	%	-	-	1		12/17/03	LMP

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.8
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01D09 Matrix: GRDWTR Sample Date/Time: 12/10/03 12:00 Lab No. 145822

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/15/03	JJP
EPA 6010								
Total Nickel	0.0857	mg/l	0.003	0.01	1		12/16/03	DJB
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/17/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/17/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/17/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/17/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/17/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/17/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/17/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/17/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/17/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/17/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/17/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/17/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/17/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/17/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/17/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/17/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/17/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/17/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/17/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/17/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/17/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		12/17/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/17/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/17/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/17/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/17/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/17/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/17/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/17/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		12/17/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
Tetrachloroeth(yl)ene	0.522	µg/l	0.32	1.07	1	J	12/17/03	LMP

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.7
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S13** Matrix: **GRDWTR** Sample Date/Time: **12/10/03 13:00** Lab No. **145821**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/17/03	LMP
Trichloroeth(yl)ene	2.48	µg/l	0.36	1.2	1		12/17/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/17/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/17/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/17/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/17/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/17/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
PID Surrogate Recovery (S)	94.9	%	-	-	1		12/17/03	LMP
HALL Surrogate Recovery (S)	111.	%	-	-	1		12/17/03	LMP
EPA 8310								
Acenaphthene	<0.0858	µg/l	0.06	0.20	1.4		12/23/03	SLO
Acenaphthylene	<0.0858	µg/l	0.06	0.20	1.4		12/23/03	SLO
Anthracene	<0.0715	µg/l	0.05	0.17	1.4		12/23/03	SLO
Benzo(a)Anthracene	<0.0572	µg/l	0.04	0.13	1.4		12/23/03	SLO
Benzo(a)Pyrene	<0.0243	µg/l	0.017	0.057	1.4		12/23/03	SLO
Benzo(b)Fluoranthene	<0.0572	µg/l	0.04	0.13	1.4		12/23/03	SLO
Benzo(k)Fluoranthene	<0.0572	µg/l	0.04	0.13	1.4		12/23/03	SLO
Benzo(ghi)Perylene	<0.0715	µg/l	0.05	0.17	1.4		12/23/03	SLO
Chrysene	<0.0715	µg/l	0.05	0.17	1.4		12/23/03	SLO
Dibenzo(a,h)Anthracene	<0.0858	µg/l	0.06	0.20	1.4		12/23/03	SLO
Fluoranthene	<0.0858	µg/l	0.06	0.20	1.4		12/23/03	SLO
Fluorene	<0.172	µg/l	0.12	0.40	1.4		12/23/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.0715	µg/l	0.05	0.17	1.4		12/23/03	SLO
1-Methyl Naphthalene	<0.114	µg/l	0.08	0.27	1.4		12/23/03	SLO
2-Methyl Naphthalene	<0.157	µg/l	0.11	0.37	1.4		12/23/03	SLO
Naphthalene	<0.143	µg/l	0.1	0.33	1.4		12/23/03	SLO
Phenanthrene	<0.114	µg/l	0.08	0.27	1.4		12/23/03	SLO
Pyrene	<0.129	µg/l	0.09	0.30	1.4		12/23/03	SLO
9,10-Diphenylanthracene (S)	51.9	%	-	-	1.4		12/23/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/15/03	KAM

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.6
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S13 Matrix: GRDWTR Sample Date/Time: 12/10/03 13:00 Lab No. 145821

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/17/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/17/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/17/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/17/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/17/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/17/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/17/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/17/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/17/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/17/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/17/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/17/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/17/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/17/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/17/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/17/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/17/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/17/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/17/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/17/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/17/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/17/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/17/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/17/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/17/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/17/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/17/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/17/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/17/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		12/17/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
Tetrachloroeth(yl)ene	1,130.	µg/l	0.32	1.07	100		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/17/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/17/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/17/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/17/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/17/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145819.5
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Attn: David Voight

Sample ID: **2003TN01S09** Matrix: **GRDWTR** Sample Date/Time: **12/10/03 12:00** Lab No. **145820**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/17/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/17/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/17/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/17/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/17/03	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/17/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/17/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/17/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/17/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/17/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/17/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
PID Surrogate Recovery (S)	102.	%	-	-	1		12/17/03	LMP
HALL Surrogate Recovery (S)	114.	%	-	-	1		12/17/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.4
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TW01S09 Matrix: GRDWTR Sample Date/Time: 12/10/03 12:00 Lab No. 145820

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/15/03	JJP
EPA 6010								
Total Nickel	0.0833	mg/l	0.003	0.01	1		12/16/03	DJB
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/17/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/17/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/17/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/17/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/17/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/17/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/17/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/17/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/17/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/17/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/17/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/17/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/17/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/17/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/17/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/17/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/17/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/17/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/17/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/17/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/17/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/17/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/17/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/17/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/17/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/17/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/17/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/17/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/17/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/17/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/17/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		12/17/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/17/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/17/03	LMP
Tetrachloroeth(yl)ene	0.337	µg/l	0.32	1.07	1	J	12/17/03	LMP

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145819.3
DATE REC'D : 12/11/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003N01S08** Matrix: **GRDWTR** Sample Date/Time: **12/10/03 11:15** Lab No. **145819**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3010								
Metal Prep	COMP		-	-	-		12/15/03	JJP
EPA 6010								
Total Nickel	0.0039	mg/l	0.003	0.01	1	J	12/16/03	DJB

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TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
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Sample Summary

145819.2

Lab Id	Client Sample ID	Date/Time	Matrix
145819	2003N01S08	12/10/03 11:15	GROUNDWATER
145820	2003TN01S09	12/10/03 12:00	GROUNDWATER
145821	2003TN01S13	12/10/03 13:00	GROUNDWATER
145822	2003TN01D09	12/10/03 12:00	GROUNDWATER
145823	2003TN01D13	12/10/03 13:00	GROUNDWATER
145824	2003TN01D08	12/10/03 11:15	GROUNDWATER
145825	2003TN01S01	12/09/03 13:20	GROUNDWATER
145826	2003TN01S04	12/09/03 14:35	GROUNDWATER
145827	2003TN01S05	12/09/03 14:00	GROUNDWATER
145828	2003TN01S07	12/09/03 14:45	GROUNDWATER
145829	2003TN01D07	12/09/03 15:20	GROUNDWATER

Sample Narrative/Sample Status

LOGIN:

GENERAL:

ANALYSES:

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection
LOQ = Limit of Quantitation
< = Less Than
COMP = Complete
SUBCON = Subcontracted analysis
mv = millivolts
pCi/l = picocurie per liter
ml/l = mililiters/Liter

µg/l = Micrograms per liter = parts per billion (ppb)
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/l = Milligrams per liter = parts per million (ppm)
mg/kg = Milligrams per kilogram = parts per million (ppm)
NOT PRES = Not Present
ppth = Parts per thousand
(S) = Surrogate Compound

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Sample Summary

145963.2

Lab Id	Client Sample ID	Date/Time	Matrix
145963	2003TN01S52	12/11/03 14:45	GROUNDWATER
145964	2003TN01S51	12/11/03 10:42	GROUNDWATER
145965	2003TN01S50	12/11/03 09:35	GROUNDWATER
145966	2003TN01D52	12/11/03 14:45	GROUNDWATER
145967	2003TN01S56	12/12/03 09:00	GROUNDWATER
145968	2003TN01S57	12/12/03 10:00	GROUNDWATER
145969	2003TN01S55	12/12/03 08:30	GROUNDWATER
145970	2003TN01S53	12/11/03 11:45	GROUNDWATER
145971	2003TN01S54	12/11/03 13:30	GROUNDWATER
145972	2003TN01S58	12/12/03 11:15	GROUNDWATER
145973	2003TN01D58	12/12/03 11:15	GROUNDWATER
145974	TRIP BLANK-USF	12/12/03	WATER
145975	2003TN01S58	12/12/03 11:15	GROUNDWATER
145976	2003TN01D58	12/12/03 11:15	GROUNDWATER
145977	2003TN01S50	12/12/03	GROUNDWATER
145978	2003TN01S52	12/11/03 14:45	GROUNDWATER
145979	2003TN01S53	12/11/03 11:45	GROUNDWATER
145980	2003TN01D52	12/11/03 14:45	GROUNDWATER

Sample Narrative/Sample Status

LOGIN:

GENERAL:

ANALYSES:

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection
LOQ = Limit of Quantitation
< = Less Than
COMP = Complete
SUBCON = Subcontracted analysis
mv = millivolts
pCi/l = picocurie per liter
ml/l = mililiters/Liter

µg/l = Micrograms per liter = parts per billion (ppb)
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/l = Milligrams per liter = parts per million (ppm)
mg/kg = Milligrams per kilogram = parts per million (ppm)
NOT PRES = Not Present
ppth = Parts per thousand
(S) = Surrogate Compound

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.3
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145963

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	149.	µg/l	0.23	0.77	50		12/22/03	LMP
trans-1,2-Dichloroethylene	26.4	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.4
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145963

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	2.51	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	105.	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	120.	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	0.186	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	188.	µg/l	0.1	0.33	10		12/17/03	MRD
trans-1,2-Dichloroethylene	20.9	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	0.413	µg/l	0.2	0.67	1	J	12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.5
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145963

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	S1H CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1	S2L	12/16/03	MRD
1,2,4-Trimethylbenzene	0.203	µg/l	0.15	0.50	1	J	12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	3.33	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.6
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: **2003TN01S51** Matrix: **GRDWTR** Sample Date/Time: **12/11/03 10:42** Lab No. **145964**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.7
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S51 Matrix: GRDWTR Sample Date/Time: 12/11/03 10:42 Lab No. 145964

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	108.	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	123.	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,2-Dichloroethylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.8
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S51 Matrix: GRDWTR Sample Date/Time: 12/11/03 10:42 Lab No. 145964

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.9
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S50 Matrix: GRDWTR Sample Date/Time: 12/11/03 09:35 Lab No. 145965

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.10
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S50 Matrix: GRDWTR Sample Date/Time: 12/11/03 09:35 Lab No. 145965

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	<0.000	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	<0.000	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,2-Dichloroethylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.11
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TW01S50 Matrix: GRDWTR Sample Date/Time: 12/11/03 09:35 Lab No. 145965

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.12
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01D52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145966

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	162.	µg/l	0.23	0.77	50		12/22/03	LMP
trans-1,2-Dichloroethylene	26.2	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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301 WEST MILITARY ROAD
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FACSIMILE 715-355-3221
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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.13
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01D52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145966

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	2.56	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	104.	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	118.	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	0.178	µg/l	0.1	0.33	1	J	12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	186.	µg/l	0.1	0.33	10		12/17/03	MRD
trans-1,2-Dichloroethylene	19.8	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	0.326	µg/l	0.2	0.67	1	J	12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.14
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01D52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145966

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	0.166	µg/l	0.15	0.50	1	J	12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	3.11	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

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TN & Assosiates
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.15
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S56 Matrix: GRDWTR Sample Date/Time: 12/12/03 09:00 Lab No. 145967

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.16
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S56 Matrix: GRDWTR Sample Date/Time: 12/12/03 09:00 Lab No. 145967

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	108.	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	120.	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,2-Dichloroethylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.17
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TW01S56 Matrix: GRDWTR Sample Date/Time: 12/12/03 09:00 Lab No. 145967

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.18
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S57 Matrix: GRDWTR Sample Date/Time: 12/12/03 10:00 Lab No. 145968

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.19
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S57 Matrix: GRDWTR Sample Date/Time: 12/12/03 10:00 Lab No. 145968

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	0.272	µg/l	0.2	0.67	1	J	12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	109.	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	115.	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	0.252	µg/l	0.1	0.33	1	J	12/17/03	MRD
trans-1,2-Dichloroethylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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PROJECT NO.: 200106102370
REPORT NO. : 145963.20
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TN01S57 Matrix: GRDWTR Sample Date/Time: 12/12/03 10:00 Lab No. 145968

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.21
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S55 Matrix: GRDWTR Sample Date/Time: 12/12/03 08:30 Lab No. 145969

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<1.55	µg/l	0.31	1.03	5		12/19/03	LMP
Bromobenzene	<2.05	µg/l	0.41	1.37	5		12/19/03	LMP
Bromochloromethane	<0.95	µg/l	0.19	0.63	5		12/19/03	LMP
Bromodichloromethane	<4.15	µg/l	0.83	2.76	5		12/19/03	LMP
Bromoform	<3.55	µg/l	0.71	2.36	5		12/19/03	LMP
Bromomethane	<2.85	µg/l	0.57	1.9	5		12/19/03	LMP
n-Butylbenzene	<1.80	µg/l	0.36	1.2	5		12/19/03	LMP
sec-Butylbenzene	<1.65	µg/l	0.33	1.1	5		12/19/03	LMP
tert-Butylbenzene	<1.55	µg/l	0.31	1.03	5		12/19/03	LMP
Carbon Tetrachloride	<2.95	µg/l	0.59	1.96	5		12/19/03	LMP
Chlorobenzene	<1.55	µg/l	0.31	1.03	5		12/19/03	LMP
Dibromochloromethane	<4.35	µg/l	0.87	2.9	5		12/19/03	LMP
Chloroethane	<2.20	µg/l	0.44	1.47	5		12/19/03	LMP
Chloroform	<1.35	µg/l	0.27	0.90	5		12/19/03	LMP
Chloromethane	<1.45	µg/l	0.29	0.97	5		12/19/03	LMP
2-Chlorotoluene	<1.50	µg/l	0.3	1.0	5		12/19/03	LMP
4-Chlorotoluene	<1.50	µg/l	0.3	1.0	5		12/19/03	LMP
Dibromochloropropane(DBCP)	<3.05	µg/l	0.61	2.03	5		12/19/03	LMP
1,2-Dibromoethane(EDB)	<5.50	µg/l	1.1	3.66	5		12/19/03	LMP
Dibromomethane	<15.0	µg/l	3.0	10.0	5		12/19/03	LMP
1,2-Dichlorobenzene	<2.55	µg/l	0.51	1.7	5		12/19/03	LMP
1,3-Dichlorobenzene	<1.45	µg/l	0.29	0.97	5		12/19/03	LMP
1,4-Dichlorobenzene	<1.50	µg/l	0.3	1.0	5		12/19/03	LMP
Dichlorodifluoromethane	<2.30	µg/l	0.46	1.53	5		12/19/03	LMP
1,1-Dichloroethane	<1.80	µg/l	0.36	1.2	5		12/19/03	LMP
1,2-Dichloroethane	<0.85	µg/l	0.17	0.57	5		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<1.95	µg/l	0.39	1.3	5		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	16.3	µg/l	0.23	0.77	5		12/19/03	LMP
trans-1,2-Dichloroethylene	<1.95	µg/l	0.39	1.3	5		12/19/03	LMP
1,2-Dichloropropane	<1.25	µg/l	0.25	0.83	5		12/19/03	LMP
1,3-Dichloropropane	<3.35	µg/l	0.67	2.23	5		12/19/03	LMP
2,2-Dichloropropane	<7.50	µg/l	1.5	5.0	5	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<1.55	µg/l	0.31	1.03	5		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<1.25	µg/l	0.25	0.83	5		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<1.30	µg/l	0.26	0.87	5		12/19/03	LMP
Ethylbenzene	<2.50	µg/l	0.5	1.67	5		12/19/03	LMP
Hexachlorobutadiene	<5.00	µg/l	1.0	3.33	5		12/19/03	LMP
Isopropylbenzene	<1.55	µg/l	0.31	1.03	5		12/19/03	LMP
Isopropyl Ether	<2.30	µg/l	0.46	1.53	5		12/19/03	LMP
p-Isopropyltoluene	<1.60	µg/l	0.32	1.07	5		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<1.50	µg/l	0.3	1.0	5		12/19/03	LMP
Methylene Chloride	<2.55	µg/l	0.51	1.7	5		12/19/03	LMP
Naphthalene	<4.00	µg/l	0.8	2.66	5	CSH	12/19/03	LMP
n-Propylbenzene	<1.50	µg/l	0.3	1.0	5		12/19/03	LMP
Styrene	<1.45	µg/l	0.29	0.97	5		12/19/03	LMP
Tetrachloroeth(yl)ene	56.1	µg/l	0.32	1.07	5		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<2.80	µg/l	0.56	1.86	5		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<3.05	µg/l	0.61	2.03	5		12/19/03	LMP
Toluene	<1.50	µg/l	0.3	1.0	5		12/19/03	LMP
1,2,3-Trichlorobenzene	<1.65	µg/l	0.33	1.1	5		12/19/03	LMP
1,2,4-Trichlorobenzene	<2.35	µg/l	0.47	1.57	5		12/19/03	LMP
1,1,1-Trichloroethane	<2.10	µg/l	0.42	1.4	5		12/19/03	LMP

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FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.22
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S55 Matrix: GRDWTR Sample Date/Time: 12/12/03 08:30 Lab No. 145969

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<2.50	µg/l	0.5	1.67	5		12/19/03	LMP
Trichloroeth(yl)ene	<1.80	µg/l	0.36	1.2	5		12/19/03	LMP
Trichlorofluoromethane	<3.50	µg/l	0.7	2.33	5		12/19/03	LMP
1,2,3-Trichloropropane	<5.50	µg/l	1.1	3.66	5		12/19/03	LMP
1,2,4-Trimethylbenzene	<2.00	µg/l	0.4	1.33	5		12/19/03	LMP
1,3,5-Trimethylbenzene	<1.55	µg/l	0.31	1.03	5		12/19/03	LMP
Vinyl Chloride	<1.00	µg/l	0.2	0.67	5		12/19/03	LMP
m- & p-Xylene	<3.10	µg/l	0.62	2.06	5		12/19/03	LMP
o-Xylene	<1.50	µg/l	0.3	1.0	5		12/19/03	LMP
PID Surrogate Recovery (S)	109.	%	-	-	5		12/19/03	LMP
HALL Surrogate Recovery (S)	114.	%	-	-	5		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	19.4	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,2-Dichloroethylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145963.23
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TN01S55 Matrix: GRDWTR Sample Date/Time: 12/12/03 08:30 Lab No. 145969

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	56.5	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	1.39	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.24
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S53 Matrix: GRDWTR Sample Date/Time: 12/11/03 11:45 Lab No. 145970

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<6.20	µg/l	0.31	1.03	20		12/19/03	LMP
Bromobenzene	<8.20	µg/l	0.41	1.37	20		12/19/03	LMP
Bromochloromethane	<3.80	µg/l	0.19	0.63	20		12/19/03	LMP
Bromodichloromethane	<16.6	µg/l	0.83	2.76	20		12/19/03	LMP
Bromoform	<14.2	µg/l	0.71	2.36	20		12/19/03	LMP
Bromomethane	<11.4	µg/l	0.57	1.9	20		12/19/03	LMP
n-Butylbenzene	<7.20	µg/l	0.36	1.2	20		12/19/03	LMP
sec-Butylbenzene	<6.60	µg/l	0.33	1.1	20		12/19/03	LMP
tert-Butylbenzene	<6.20	µg/l	0.31	1.03	20		12/19/03	LMP
Carbon Tetrachloride	<11.8	µg/l	0.59	1.96	20		12/19/03	LMP
Chlorobenzene	<6.20	µg/l	0.31	1.03	20		12/19/03	LMP
Dibromochloromethane	<17.4	µg/l	0.87	2.9	20		12/19/03	LMP
Chloroethane	<8.80	µg/l	0.44	1.47	20		12/19/03	LMP
Chloroform	<5.40	µg/l	0.27	0.90	20		12/19/03	LMP
Chloromethane	<5.80	µg/l	0.29	0.97	20		12/19/03	LMP
2-Chlorotoluene	<6.00	µg/l	0.3	1.0	20		12/19/03	LMP
4-Chlorotoluene	<6.00	µg/l	0.3	1.0	20		12/19/03	LMP
Dibromochloropropane(DBCP)	<12.2	µg/l	0.61	2.03	20		12/19/03	LMP
1,2-Dibromoethane(EDB)	<22.0	µg/l	1.1	3.66	20		12/19/03	LMP
Dibromomethane	<60.0	µg/l	3.0	10.0	20		12/19/03	LMP
1,2-Dichlorobenzene	<10.2	µg/l	0.51	1.7	20		12/19/03	LMP
1,3-Dichlorobenzene	<5.80	µg/l	0.29	0.97	20		12/19/03	LMP
1,4-Dichlorobenzene	<6.00	µg/l	0.3	1.0	20		12/19/03	LMP
Dichlorodifluoromethane	<9.20	µg/l	0.46	1.53	20		12/19/03	LMP
1,1-Dichloroethane	<7.20	µg/l	0.36	1.2	20		12/19/03	LMP
1,2-Dichloroethane	<3.40	µg/l	0.17	0.57	20		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<7.80	µg/l	0.39	1.3	20		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	224.	µg/l	0.23	0.77	20		12/19/03	LMP
trans-1,2-Dichloroethylene	<7.80	µg/l	0.39	1.3	20		12/19/03	LMP
1,2-Dichloropropane	<5.00	µg/l	0.25	0.83	20		12/19/03	LMP
1,3-Dichloropropane	<13.4	µg/l	0.67	2.23	20		12/19/03	LMP
2,2-Dichloropropane	<30.0	µg/l	1.5	5.0	20	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<6.20	µg/l	0.31	1.03	20		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<5.00	µg/l	0.25	0.83	20		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<5.20	µg/l	0.26	0.87	20		12/19/03	LMP
Ethylbenzene	<10.0	µg/l	0.5	1.67	20		12/19/03	LMP
Hexachlorobutadiene	<20.0	µg/l	1.0	3.33	20		12/19/03	LMP
Isopropylbenzene	<6.20	µg/l	0.31	1.03	20		12/19/03	LMP
Isopropyl Ether	<9.20	µg/l	0.46	1.53	20		12/19/03	LMP
p-Isopropyltoluene	<6.40	µg/l	0.32	1.07	20		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<6.00	µg/l	0.3	1.0	20		12/19/03	LMP
Methylene Chloride	<10.2	µg/l	0.51	1.7	20		12/19/03	LMP
Naphthalene	<16.0	µg/l	0.8	2.66	20	CSH	12/19/03	LMP
n-Propylbenzene	<6.00	µg/l	0.3	1.0	20		12/19/03	LMP
Styrene	<5.80	µg/l	0.29	0.97	20		12/19/03	LMP
Tetrachloroeth(yl)ene	<6.40	µg/l	0.32	1.07	20		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<11.2	µg/l	0.56	1.86	20		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<12.2	µg/l	0.61	2.03	20		12/19/03	LMP
Toluene	<6.00	µg/l	0.3	1.0	20		12/19/03	LMP
1,2,3-Trichlorobenzene	<6.60	µg/l	0.33	1.1	20		12/19/03	LMP
1,2,4-Trichlorobenzene	<9.40	µg/l	0.47	1.57	20		12/19/03	LMP
1,1,1-Trichloroethane	<8.40	µg/l	0.42	1.4	20		12/19/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.25
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S53 Matrix: GRDWTR Sample Date/Time: 12/11/03 11:45 Lab No. 145970

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<10.0	µg/l	0.5	1.67	20		12/19/03	LMP
Trichloroeth(yl)ene	<7.20	µg/l	0.36	1.2	20		12/19/03	LMP
Trichlorofluoromethane	<14.0	µg/l	0.7	2.33	20		12/19/03	LMP
1,2,3-Trichloropropane	<22.0	µg/l	1.1	3.66	20		12/19/03	LMP
1,2,4-Trimethylbenzene	<8.00	µg/l	0.4	1.33	20		12/19/03	LMP
1,3,5-Trimethylbenzene	<6.20	µg/l	0.31	1.03	20		12/19/03	LMP
Vinyl Chloride	8.76	µg/l	0.2	0.67	20		12/19/03	LMP
m- & p-Xylene	<12.4	µg/l	0.62	2.06	20		12/19/03	LMP
o-Xylene	<6.00	µg/l	0.3	1.0	20		12/19/03	LMP
PID Surrogate Recovery (S)	108.	%	-	-	20		12/19/03	LMP
HALL Surrogate Recovery (S)	117.	%	-	-	20		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	0.132	µg/l	0.1	0.33	1	J	12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	0.213	µg/l	0.1	0.33	1	J	12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	223.	µg/l	0.1	0.33	10		12/17/03	MRD
trans-1,2-Dichloroethylene	1.76	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145963.26
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TN01S53 Matrix: GRDWTR Sample Date/Time: 12/11/03 11:45 Lab No. 145970

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	0.579	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	0.154	µg/l	0.15	0.50	1	J	12/16/03	MRD
Vinyl Chloride	28.0	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.27
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S54 Matrix: GRDWTR Sample Date/Time: 12/11/03 13:30 Lab No. 145971

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<3.10	µg/l	0.31	1.03	10		12/19/03	LMP
Bromobenzene	<4.10	µg/l	0.41	1.37	10		12/19/03	LMP
Bromochloromethane	<1.90	µg/l	0.19	0.63	10		12/19/03	LMP
Bromodichloromethane	<8.30	µg/l	0.83	2.76	10		12/19/03	LMP
Bromoform	<7.10	µg/l	0.71	2.36	10		12/19/03	LMP
Bromomethane	<5.70	µg/l	0.57	1.9	10		12/19/03	LMP
n-Butylbenzene	<3.60	µg/l	0.36	1.2	10		12/19/03	LMP
sec-Butylbenzene	<3.30	µg/l	0.33	1.1	10		12/19/03	LMP
tert-Butylbenzene	<3.10	µg/l	0.31	1.03	10		12/19/03	LMP
Carbon Tetrachloride	<5.90	µg/l	0.59	1.96	10		12/19/03	LMP
Chlorobenzene	<3.10	µg/l	0.31	1.03	10		12/19/03	LMP
Dibromochloromethane	<8.70	µg/l	0.87	2.9	10		12/19/03	LMP
Chloroethane	<4.40	µg/l	0.44	1.47	10		12/19/03	LMP
Chloroform	<2.70	µg/l	0.27	0.90	10		12/19/03	LMP
Chloromethane	<2.90	µg/l	0.29	0.97	10		12/19/03	LMP
2-Chlorotoluene	<3.00	µg/l	0.3	1.0	10		12/19/03	LMP
4-Chlorotoluene	<3.00	µg/l	0.3	1.0	10		12/19/03	LMP
Dibromochloropropane(DBCP)	<6.10	µg/l	0.61	2.03	10		12/19/03	LMP
1,2-Dibromoethane(EDB)	<11.0	µg/l	1.1	3.66	10		12/19/03	LMP
Dibromomethane	<30.0	µg/l	3.0	10.0	10		12/19/03	LMP
1,2-Dichlorobenzene	<5.10	µg/l	0.51	1.7	10		12/19/03	LMP
1,3-Dichlorobenzene	<2.90	µg/l	0.29	0.97	10		12/19/03	LMP
1,4-Dichlorobenzene	<3.00	µg/l	0.3	1.0	10		12/19/03	LMP
Dichlorodifluoromethane	<4.60	µg/l	0.46	1.53	10		12/19/03	LMP
1,1-Dichloroethane	<3.60	µg/l	0.36	1.2	10		12/19/03	LMP
1,2-Dichloroethane	<1.70	µg/l	0.17	0.57	10		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<3.90	µg/l	0.39	1.3	10		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	152.	µg/l	0.23	0.77	10		12/19/03	LMP
trans-1,2-Dichloroethylene	5.70	µg/l	0.39	1.3	10		12/19/03	LMP
1,2-Dichloropropane	<2.50	µg/l	0.25	0.83	10		12/19/03	LMP
1,3-Dichloropropane	<6.70	µg/l	0.67	2.23	10		12/19/03	LMP
2,2-Dichloropropane	<15.0	µg/l	1.5	5.0	10	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<3.10	µg/l	0.31	1.03	10		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<2.50	µg/l	0.25	0.83	10		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<2.60	µg/l	0.26	0.87	10		12/19/03	LMP
Ethylbenzene	<5.00	µg/l	0.5	1.67	10		12/19/03	LMP
Hexachlorobutadiene	<10.0	µg/l	1.0	3.33	10		12/19/03	LMP
Isopropylbenzene	<3.10	µg/l	0.31	1.03	10		12/19/03	LMP
Isopropyl Ether	<4.60	µg/l	0.46	1.53	10		12/19/03	LMP
p-Isopropyltoluene	<3.20	µg/l	0.32	1.07	10		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<3.00	µg/l	0.3	1.0	10		12/19/03	LMP
Methylene Chloride	<5.10	µg/l	0.51	1.7	10		12/19/03	LMP
Naphthalene	<8.00	µg/l	0.8	2.66	10	CSH	12/19/03	LMP
n-Propylbenzene	<3.00	µg/l	0.3	1.0	10		12/19/03	LMP
Styrene	<2.90	µg/l	0.29	0.97	10		12/19/03	LMP
Tetrachloroeth(yl)ene	<3.20	µg/l	0.32	1.07	10		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<5.60	µg/l	0.56	1.86	10		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<6.10	µg/l	0.61	2.03	10		12/19/03	LMP
Toluene	<3.00	µg/l	0.3	1.0	10		12/19/03	LMP
1,2,3-Trichlorobenzene	<3.30	µg/l	0.33	1.1	10		12/19/03	LMP
1,2,4-Trichlorobenzene	<4.70	µg/l	0.47	1.57	10		12/19/03	LMP
1,1,1-Trichloroethane	<4.20	µg/l	0.42	1.4	10		12/19/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.28
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S54 Matrix: GRDWTR Sample Date/Time: 12/11/03 13:30 Lab No. 145971

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<5.00	µg/l	0.5	1.67	10		12/19/03	LMP
Trichloroeth(yl)ene	<3.60	µg/l	0.36	1.2	10		12/19/03	LMP
Trichlorofluoromethane	<7.00	µg/l	0.7	2.33	10		12/19/03	LMP
1,2,3-Trichloropropane	<11.0	µg/l	1.1	3.66	10		12/19/03	LMP
1,2,4-Trimethylbenzene	<4.00	µg/l	0.4	1.33	10		12/19/03	LMP
1,3,5-Trimethylbenzene	<3.10	µg/l	0.31	1.03	10		12/19/03	LMP
Vinyl Chloride	<2.00	µg/l	0.2	0.67	10		12/19/03	LMP
m- & p-Xylene	<6.20	µg/l	0.62	2.06	10		12/19/03	LMP
o-Xylene	<3.00	µg/l	0.3	1.0	10		12/19/03	LMP
PID Surrogate Recovery (S)	108.	%	-	-	10		12/19/03	LMP
HALL Surrogate Recovery (S)	114.	%	-	-	10		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	140.	µg/l	0.1	0.33	10		12/17/03	MRD
trans-1,2-Dichloroethylene	7.43	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.29
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S54 Matrix: GRDWTR Sample Date/Time: 12/11/03 13:30 Lab No. 145971

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	8.03	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.30
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145972

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	0.322	µg/l	0.31	1.03	1	J	12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1		12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	13.4	µg/l	0.23	0.77	1		12/19/03	LMP
trans-1,2-Dichloroethylene	0.524	µg/l	0.39	1.3	1	J	12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.31
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145972

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	1.98	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	108.	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	119.	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	0.278	µg/l	0.1	0.33	1	J	12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	10.6	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,2-Dichloroethylene	0.572	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.32
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TW01S58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145972

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	2.53	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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1033 N. Mayfair Road
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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.33
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01D58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145973

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	0.319	µg/l	0.31	1.03	1	J	12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	14.2	µg/l	0.23	0.77	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
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PROJECT NO.: 200106102370
REPORT NO. : 145963.34
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TN01D58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145973

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	1.76	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	<0.000	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	<0.000	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	0.285	µg/l	0.1	0.33	1	J	12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	10.6	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,2-Dichloroethylene	0.571	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.35
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01D58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145973

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	2.45	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.36
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: TRIP BLANK-USF Matrix: WATER Sample Date/Time: 12/12/03 Lab No. 145974

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		12/19/03	LMP
Bromochloromethane	<0.19	µg/l	0.19	0.63	1		12/19/03	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		12/19/03	LMP
Bromoform	<0.71	µg/l	0.71	2.36	1		12/19/03	LMP
Bromomethane	<0.57	µg/l	0.57	1.9	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		12/19/03	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		12/19/03	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1		12/19/03	LMP
Chloroform	<0.27	µg/l	0.27	0.90	1		12/19/03	LMP
Chloromethane	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
Dibromomethane	<3.00	µg/l	3.0	10.0	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.57	1		12/19/03	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.77	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		12/19/03	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		12/19/03	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		12/19/03	LMP
1,1-Dichloroprop(yl)ene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
t-1,3-Dichloroprop(yl)ene	<0.25	µg/l	0.25	0.83	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.26	µg/l	0.26	0.87	1		12/19/03	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/19/03	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		12/19/03	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		12/19/03	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	12/19/03	LMP
n-Propylbenzene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
Styrene	<0.29	µg/l	0.29	0.97	1		12/19/03	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.56	µg/l	0.56	1.86	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		12/19/03	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		12/19/03	LMP

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145963.37
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: TRIP BLANK-USF   Matrix: WATER   Sample Date/Time: 12/12/03   Lab No. 145974

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		12/19/03	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		12/19/03	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		12/19/03	LMP
1,2,3-Trichloropropane	<1.10	µg/l	1.1	3.66	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		12/19/03	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.67	1		12/19/03	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		12/19/03	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		12/19/03	LMP
PID Surrogate Recovery (S)	108.	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	115.	%	-	-	1		12/19/03	LMP
EPA 8260								
Benzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromodichloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Bromoform	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Bromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
n-Butylbenzene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
sec-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
tert-Butylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Carbon Tetrachloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chlorobenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloroethane	<0.6	µg/l	0.6	2.0	1		12/16/03	MRD
Chloroform	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Chloromethane	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
2-Chlorotoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Chlorotoluene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Dibromochloromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromochloropropane(DBCP)	<0.3	µg/l	0.3	1.0	1		12/16/03	MRD
1,2-Dibromoethane(EDB)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Dibromomethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichlorobenzene	<0.2	µg/l	0.2	0.67	1	CSL	12/16/03	MRD
1,3-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,4-Dichlorobenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Dichlorodifluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
cis-1,2-Dichloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,2-Dichloroethylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,3-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
2,2-Dichloropropane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1-Dichloropropene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
cis-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
trans-1,3-Dichloropropene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Ethylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		12/16/03	MRD
Isopropylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
4-Isopropyltoluene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD

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TN & Associates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.38
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: **TRIP BLANK-USF** Matrix: **WATER** Sample Date/Time: **12/12/03** Lab No. **145974**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8260								
Methylene Chloride	<0.25	µg/l	0.25	0.83	1		12/16/03	MRD
Methyl t-Butyl Ether(MTBE)	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Naphthalene	<1.00	µg/l	1.0	3.33	1	CSH	12/16/03	MRD
n-Propylbenzene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Styrene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,1,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2,2-Tetrachloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Tetrachloroeth(yl)ene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Toluene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,3-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,2,4-Trichlorobenzene	<0.5	µg/l	0.5	1.67	1		12/16/03	MRD
1,1,1-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,1,2-Trichloroethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
Trichloroeth(yl)ene	<0.2	µg/l	0.2	0.67	1		12/16/03	MRD
Trichlorofluoromethane	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
1,2,3-Trichloropropane	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD
1,2,4-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
1,3,5-Trimethylbenzene	<0.15	µg/l	0.15	0.50	1		12/16/03	MRD
Vinyl Chloride	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
o-Xylene	<0.1	µg/l	0.1	0.33	1		12/16/03	MRD
m-& p-Xylene	<0.4	µg/l	0.4	1.33	1		12/16/03	MRD

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.39
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145975

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 6010								
Diss. Nickel	0.0062	mg/l	0.003	0.01	1	J	12/19/03	DJB
EPA 8310								
Acenaphthene	<1.26	µg/l	0.06	0.20	21		12/24/03	SLO
Acenaphthylene	<1.26	µg/l	0.06	0.20	21		12/24/03	SLO
Anthracene	<1.05	µg/l	0.05	0.17	21		12/24/03	SLO
Benzo(a)Anthracene	<0.84	µg/l	0.04	0.13	21		12/24/03	SLO
Benzo(a)Pyrene	<0.357	µg/l	0.017	0.057	21		12/24/03	SLO
Benzo(b)Fluoranthene	<0.84	µg/l	0.04	0.13	21		12/24/03	SLO
Benzo(k)Fluoranthene	<0.84	µg/l	0.04	0.13	21		12/24/03	SLO
Benzo(ghi)Perylene	<1.05	µg/l	0.05	0.17	21		12/24/03	SLO
Chrysene	<1.05	µg/l	0.05	0.17	21		12/24/03	SLO
Dibenzo(a,h)Anthracene	<1.26	µg/l	0.06	0.20	21		12/24/03	SLO
Fluoranthene	<1.26	µg/l	0.06	0.20	21		12/24/03	SLO
Fluorene	<2.52	µg/l	0.12	0.40	21		12/24/03	SLO
Indeno(1,2,3-cd)Pyrene	<1.05	µg/l	0.05	0.17	21		12/24/03	SLO
1-Methyl Naphthalene	<1.68	µg/l	0.08	0.27	21		12/24/03	SLO
2-Methyl Naphthalene	<2.31	µg/l	0.11	0.37	21		12/24/03	SLO
Naphthalene	<2.10	µg/l	0.1	0.33	21		12/24/03	SLO
Phenanthrene	<1.68	µg/l	0.08	0.27	21		12/24/03	SLO
Pyrene	<1.89	µg/l	0.09	0.30	21		12/24/03	SLO
9,10-Diphenylanthracene (S)	47.9	%	-	-	21		12/24/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/18/03	MJG

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PROJECT NO.: 200106102370
REPORT NO. : 145963.40
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TN01D58 Matrix: GRDWTR Sample Date/Time: 12/12/03 11:15 Lab No. 145976

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 6010								
Diss. Nickel	0.0069	mg/l	0.003	0.01	1	J	12/19/03	DJB
EPA 8310								
Acenaphthene	<1.30	µg/l	0.06	0.20	21.7		12/24/03	SLO
Acenaphthylene	<1.30	µg/l	0.06	0.20	21.7		12/24/03	SLO
Anthracene	<1.09	µg/l	0.05	0.17	21.7		12/24/03	SLO
Benzo(a)Anthracene	<0.868	µg/l	0.04	0.13	21.7		12/24/03	SLO
Benzo(a)Pyrene	<0.369	µg/l	0.017	0.057	21.7		12/24/03	SLO
Benzo(b)Fluoranthene	<0.868	µg/l	0.04	0.13	21.7		12/24/03	SLO
Benzo(k)Fluoranthene	<0.868	µg/l	0.04	0.13	21.7		12/24/03	SLO
Benzo(ghi)Perylene	<1.09	µg/l	0.05	0.17	21.7		12/24/03	SLO
Chrysene	<1.09	µg/l	0.05	0.17	21.7		12/24/03	SLO
Dibenzo(a,h)Anthracene	<1.30	µg/l	0.06	0.20	21.7		12/24/03	SLO
Fluoranthene	<1.30	µg/l	0.06	0.20	21.7		12/24/03	SLO
Fluorene	<2.60	µg/l	0.12	0.40	21.7		12/24/03	SLO
Indeno(1,2,3-cd)Pyrene	<1.09	µg/l	0.05	0.17	21.7		12/24/03	SLO
1-Methyl Naphthalene	<1.74	µg/l	0.08	0.27	21.7		12/24/03	SLO
2-Methyl Naphthalene	<2.39	µg/l	0.11	0.37	21.7		12/24/03	SLO
Naphthalene	<2.17	µg/l	0.1	0.33	21.7		12/24/03	SLO
Phenanthrene	<1.74	µg/l	0.08	0.27	21.7		12/24/03	SLO
Pyrene	<1.95	µg/l	0.09	0.30	21.7		12/24/03	SLO
9,10-Diphenylanthracene (S)	44.8	%	-	-	21.7		12/24/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/18/03	MJG

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PROJECT NO.: 200106102370
REPORT NO. : 145963.41
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TN01S50 Matrix: GRDWTR Sample Date/Time: 12/12/03 Lab No. 145977

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 6010								
Diss. Nickel	0.0201	mg/l	0.003	0.01	1		12/19/03	DJB
EPA 8310								
Acenaphthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Acenaphthylene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Anthracene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Benzo(a)Anthracene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(a)Pyrene	<0.0185	µg/l	0.017	0.057	1		12/24/03	SLO
Benzo(b)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(k)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(ghi)Perylene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Chrysene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Dibenzo(a,h)Anthracene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluoranthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluorene	<0.131	µg/l	0.12	0.40	1		12/24/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
1-Methyl Naphthalene	<0.0872	µg/l	0.08	0.27	1		12/24/03	SLO
2-Methyl Naphthalene	<0.12	µg/l	0.11	0.37	1		12/24/03	SLO
Naphthalene	<0.109	µg/l	0.1	0.33	1		12/24/03	SLO
Phenanthrene	<0.0872	µg/l	0.08	0.27	1		12/24/03	SLO
Pyrene	<0.0981	µg/l	0.09	0.30	1		12/24/03	SLO
9,10-Diphenylanthracene (S)	76.7	%	-	-	1		12/24/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/18/03	MJG

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PROJECT NO.: 200106102370
REPORT NO. : 145963.42
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TW01S52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145978

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 6010								
Diss. Nickel	0.0481	mg/l	0.003	0.01	1		12/19/03	DJB
EPA 8310								
Acenaphthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Acenaphthylene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Anthracene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Benzo(a)Anthracene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(a)Pyrene	<0.0185	µg/l	0.017	0.057	1		12/24/03	SLO
Benzo(b)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(k)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(ghi)Perylene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Chrysene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Dibenzo(a,h)Anthracene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluoranthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluorene	<0.131	µg/l	0.12	0.40	1		12/24/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
1-Methyl Naphthalene	<0.0872	µg/l	0.08	0.27	1		12/24/03	SLO
2-Methyl Naphthalene	<0.12	µg/l	0.11	0.37	1		12/24/03	SLO
Naphthalene	<0.109	µg/l	0.1	0.33	1		12/24/03	SLO
Phenanthrene	<0.0872	µg/l	0.08	0.27	1		12/24/03	SLO
Pyrene	<0.0981	µg/l	0.09	0.30	1		12/24/03	SLO
9,10-Diphenylanthracene (S)	82.7	%	-	-	1		12/24/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/18/03	MJG

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.43
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Sample ID: 2003TN01S53 Matrix: GRDWTR Sample Date/Time: 12/11/03 11:45 Lab No. 145979

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 6010								
Diss. Nickel	0.0129	mg/l	0.003	0.01	1		12/19/03	DJB
EPA 8310								
Acenaphthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Acenaphthylene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Anthracene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Benzo(a)Anthracene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(a)Pyrene	<0.0185	µg/l	0.017	0.057	1		12/24/03	SLO
Benzo(b)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(k)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(ghi)Perylene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Chrysene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Dibenzo(a,h)Anthracene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluoranthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluorene	<0.131	µg/l	0.12	0.40	1		12/24/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
1-Methyl Naphthalene	0.125	µg/l	0.08	0.27	1	J	12/24/03	SLO
2-Methyl Naphthalene	0.309	µg/l	0.11	0.37	1	J	12/24/03	SLO
Naphthalene	0.285	µg/l	0.1	0.33	1	J	12/24/03	SLO
Phenanthrene	<0.0872	µg/l	0.08	0.27	1		12/24/03	SLO
Pyrene	<0.0981	µg/l	0.09	0.30	1		12/24/03	SLO
9,10-Diphenylanthracene (S)	83.4	%	-	-	1		12/24/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/18/03	MJG

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PROJECT NO.: 200106102370
REPORT NO. : 145963.44
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Attn: David Voight

Sample ID: 2003TN01D52 Matrix: GRDWTR Sample Date/Time: 12/11/03 14:45 Lab No. 145980

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 6010								
Diss. Nickel	0.0481	mg/l	0.003	0.01	1		12/19/03	DJB
EPA 8310								
Acenaphthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Acenaphthylene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Anthracene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Benzo(a)Anthracene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(a)Pyrene	<0.0185	µg/l	0.017	0.057	1		12/24/03	SLO
Benzo(b)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(k)Fluoranthene	<0.0436	µg/l	0.04	0.13	1		12/24/03	SLO
Benzo(ghi)Perylene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Chrysene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
Dibenzo(a,h)Anthracene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluoranthene	<0.0654	µg/l	0.06	0.20	1		12/24/03	SLO
Fluorene	<0.131	µg/l	0.12	0.40	1		12/24/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.0545	µg/l	0.05	0.17	1		12/24/03	SLO
1-Methyl Naphthalene	<0.0872	µg/l	0.08	0.27	1		12/24/03	SLO
2-Methyl Naphthalene	0.136	µg/l	0.11	0.37	1	J	12/24/03	SLO
Naphthalene	0.109	µg/l	0.1	0.33	1	J	12/24/03	SLO
Phenanthrene	<0.0872	µg/l	0.08	0.27	1		12/24/03	SLO
Pyrene	<0.0981	µg/l	0.09	0.30	1		12/24/03	SLO
9,10-Diphenylanthracene (S)	80.6	%	-	-	1		12/24/03	SLO
Method 3510 Liquid Ext.	COMP		-	-	-		12/18/03	MJG

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145963.45
DATE REC'D : 12/15/03
REPORT DATE: 01/07/04
PREPARED BY: GPF

Qualifier Descriptions

CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
J	Estimated concentration below laboratory quantitation level.
S1H	Sample matrix spike recovery was high. Sample result may be biased high.
S2L	Sample matrix spike duplicate recovery was low. Sample result may be biased low.

COPY

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Sample Summary

145691.2

Lab Id	Client Sample ID	Date/Time		Matrix
145691	2003TN01S01	12/09/03	09:10	SOIL
145692	2003TN01S02	12/09/03	09:30	SOIL
145693	2003TN01S03	12/09/03	11:30	SOIL
145694	2003TN01S04	12/09/03	11:40	SOIL
145695	2003TN01S05	12/09/03	10:15	SOIL
145696	2003TN01S06	12/09/03	10:40	SOIL
145697	2003TN01S07	12/09/03	12:25	SOIL
145698	2003TN01S10	12/09/03	12:40	SOIL
145699	2003TN01S18	12/09/03	12:45	SOIL
145700	2003TN01S19	12/09/03	13:05	SOIL
145701	2003TN01S16	12/09/03	11:20	SOIL
145702	2003TN01S17	12/09/03	11:30	SOIL
145703	2003TN01S14	12/09/03	09:10	SOIL
145704	2003TN01S15	12/09/03	09:30	SOIL
145705	2003TN01D90	12/09/03		SOIL

Sample Narrative/Sample Status

LOGIN:

145691 REC'D ENCORE SAMPLER FOR VOC
145692 REC'D ENCORE SAMPLER FOR VOC
145693 REC'D ENCORE SAMPLER FOR VOC
145694 REC'D ENCORE SAMPLER FOR VOC

GENERAL:

ANALYSES:

145699 Preserved with methanol after HT was up on 12-19-03 - EAZ
145700 Preserved with methanol after HT was up on 12-19-03 - EAZ
145701 Preserved with methanol after HT was up on 12-19-03 - EAZ
145702 Preserved with methanol after HT was up on 12-19-03 - EAZ
145703 Preserved with methanol after HT was up on 12-19-03 - EAZ
145704 Preserved with methanol after HT was up on 12-19-03 - EAZ

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection
LOQ = Limit of Quantitation
< = Less Than
COMP = Complete
SUBCON = Subcontracted analysis
mv = millivolts
pCi/l = picocurie per liter
ml/l = mililiters/Liter

µg/l = Micrograms per liter = parts per billion (ppb)
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/l = Milligrams per liter = parts per million (ppm)
mg/kg = Milligrams per kilogram = parts per million (ppm)
NOT PRES = Not Present
ppth = Parts per thousand
(S) = Surrogate Compound

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.3
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S01** Matrix: **SOIL** Sample Date/Time: **12/09/03 09:10** Lab No. **145691**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	87.0	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	0.8	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	0.8		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	0.8		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	0.8	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	0.8	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	0.8		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	0.8		12/18/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.8	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	0.8		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	0.8		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	0.8		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	0.8	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	0.8	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	0.8		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	0.8		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	0.8		12/18/03	LMP

All results calculated on a dry weight basis.

USFilter

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TN & Assosiates
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Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145691.4
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Attn: David Voight

Sample ID: **2003TN01S01** Matrix: SOIL Sample Date/Time: **12/09/03 09:10** Lab No. **145691**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	0.8		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	0.8		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	0.8	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
PID Surrogate Recovery (S)	93.9	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	127.	%	-	-	1		12/18/03	LMP

All results calculated on a dry weight basis.

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TN & Assosiates
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.5
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S02 Matrix: SOIL Sample Date/Time: 12/09/03 09:30 Lab No. 145692

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	84.5	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	0.9	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	0.9		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	0.9		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	0.9	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	0.9	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	0.9		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	0.9		12/18/03	LMP
cis-1,2-Dichloroethylene	0.0718	mg/kg	0.007	0.023	0.9		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	0.9	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	0.9	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Trichloroethylene	0.504	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP

All results calculated on a dry weight basis.

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.6
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S02 Matrix: SOIL Sample Date/Time: 12/09/03 09:30 Lab No. 145692

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	0.9	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
PID Surrogate Recovery (S)	92.9	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	120.	%	-	-	1		12/18/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.7
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S03 Matrix: **SOIL** Sample Date/Time: **12/09/03 11:30** Lab No. **145693**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	83.7	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	0.9	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	0.9		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	0.9		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	0.9	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	0.9	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	0.9		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	0.9		12/18/03	LMP
cis-1,2-Dichloroethylene	0.0768	mg/kg	0.007	0.023	0.9		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	0.9	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	0.9	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP

All results calculated on a dry weight basis.

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PROJECT NO.: 200106102370
REPORT NO. : 145691.8
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Attn: David Voight

Sample ID: 2003TN01S03 Matrix: SOIL Sample Date/Time: 12/09/03 11:30 Lab No. 145693

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	0.9	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
PID Surrogate Recovery (S)	103.	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	117.	%	-	-	1		12/18/03	LMP

All results calculated on a dry weight basis.

USFilter

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301 WEST MILITARY ROAD
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FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.9
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S04** Matrix: **SOIL** Sample Date/Time: **12/09/03 11:40** Lab No. **145694**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	86.9	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/18/03	LMP
cis-1,2-Dichloroethylene	0.0448	mg/kg	0.007	0.023	1		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/18/03	LMP

All results calculated on a dry weight basis.

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145691.10
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Attn: David Voight

Sample ID: **2003TN01S04** Matrix: **SOIL** Sample Date/Time: **12/09/03 11:40** Lab No. **145694**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
PID Surrogate Recovery (S)	95.4	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	125.	%	-	-	1		12/18/03	LMP

All results calculated on a dry weight basis.

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TN & Assosiates
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.11
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S05 Matrix: SOIL Sample Date/Time: 12/09/03 10:15 Lab No. 145695

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	80.9	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	0.9	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	0.9		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	0.9		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	0.9	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	0.9	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	0.9		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	0.9		12/18/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	0.9	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	0.9	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP

All results calculated on a dry weight basis.

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145691.12
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Attn: David Voight

Sample ID: 2003TN01S05 Matrix: SOIL Sample Date/Time: 12/09/03 10:15 Lab No. 145695

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	0.9	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
PID Surrogate Recovery (S)	95.3	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	125.	%	-	-	1		12/18/03	LMP
EPA 8310								
Acenaphthene	<0.00581	mg/kg	0.0047	0.016	1		12/22/03	SLO
Acenaphthylene	<0.00816	mg/kg	0.0066	0.022	1		12/22/03	SLO
Anthracene	<0.00124	mg/kg	0.001	0.0033	1		12/22/03	SLO
Benzo(a)Anthracene	<0.00507	mg/kg	0.0041	0.014	1		12/22/03	SLO
Benzo(a)Pyrene	<0.00284	mg/kg	0.0023	0.0077	1		12/22/03	SLO
Benzo(b)Fluoranthene	<0.0026	mg/kg	0.0021	0.007	1		12/22/03	SLO
Benzo(k)Fluoranthene	<0.00358	mg/kg	0.0029	0.0097	1		12/22/03	SLO
Benzo(ghi)Perylene	<0.0026	mg/kg	0.0021	0.007	1		12/22/03	SLO
Chrysene	<0.00284	mg/kg	0.0023	0.0077	1		12/22/03	SLO
Dibenzo(a,h)Anthracene	<0.00173	mg/kg	0.0014	0.0047	1		12/22/03	SLO
Fluoranthene	<0.00124	mg/kg	0.001	0.0033	1		12/22/03	SLO
Fluorene	<0.00247	mg/kg	0.002	0.0067	1		12/22/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.00198	mg/kg	0.0016	0.0053	1		12/22/03	SLO
1-Methyl Naphthalene	<0.00433	mg/kg	0.0035	0.012	1		12/22/03	SLO
2-Methyl Naphthalene	<0.00507	mg/kg	0.0041	0.014	1		12/22/03	SLO
Naphthalene	<0.00198	mg/kg	0.0016	0.0053	1		12/22/03	SLO
Phenanthrene	<0.00284	mg/kg	0.0023	0.0077	1		12/22/03	SLO
Pyrene	<0.00124	mg/kg	0.001	0.0033	1		12/22/03	SLO
Method 3550 Ultrasonic Ext.	COMP		-	-	-		12/12/03	KAM

All results calculated on a dry weight basis.

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301 WEST MILITARY ROAD
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TN & Assosiates
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.13
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S06** Matrix: **SOIL** Sample Date/Time: **12/09/03 10:40** Lab No. **145696**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	82.4	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	0.9	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	0.9		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	0.9		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	0.9	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	0.9	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	0.9		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	0.9		12/18/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.9	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	0.9	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	0.9	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.9		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	0.9		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	0.9		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	0.9		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	0.9		12/18/03	LMP

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.14
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S06** Matrix: **SOIL** Sample Date/Time: **12/09/03 10:40** Lab No. **145696**

EPA 8021 (Only positively identified analytes are reported on a dry weight basis

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	0.9		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	0.9		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	0.9	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	0.9		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	0.9		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	0.9		12/18/03	LMP
PID Surrogate Recovery (S)	95.7	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	127.	%	-	-	1		12/18/03	LMP

All results calculated on a dry weight basis.

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TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.15
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S07 Matrix: SOIL Sample Date/Time: 12/09/03 12:25 Lab No. 145697

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	80.2	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	0.8	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	0.8		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	0.8		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	0.8	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	0.8	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	0.8		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	0.8		12/18/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.8	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	0.8		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	0.8		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	0.8		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	0.8	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	0.8	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	0.8		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	0.8		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	0.8		12/18/03	LMP

All results calculated on a dry weight basis.

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.16
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S07 Matrix: SOIL Sample Date/Time: 12/09/03 12:25 Lab No. 145697

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	0.8		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	0.8		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	0.8	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
PID Surrogate Recovery (S)	95.8	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	126.	%	-	-	1		12/18/03	LMP
EPA 8310								
Acenaphthene	<0.00586	mg/kg	0.0047	0.016	1		12/22/03	SLO
Acenaphthylene	<0.00823	mg/kg	0.0066	0.022	1		12/22/03	SLO
Anthracene	<0.00125	mg/kg	0.001	0.0033	1		12/22/03	SLO
Benzo(a)Anthracene	<0.00511	mg/kg	0.0041	0.014	1		12/22/03	SLO
Benzo(a)Pyrene	<0.00287	mg/kg	0.0023	0.0077	1		12/22/03	SLO
Benzo(b)Fluoranthene	<0.00262	mg/kg	0.0021	0.007	1		12/22/03	SLO
Benzo(k)Fluoranthene	<0.00362	mg/kg	0.0029	0.0097	1		12/22/03	SLO
Benzo(ghi)Perylene	<0.00262	mg/kg	0.0021	0.007	1		12/22/03	SLO
Chrysene	<0.00287	mg/kg	0.0023	0.0077	1		12/22/03	SLO
Dibenzo(a,h)Anthracene	<0.00175	mg/kg	0.0014	0.0047	1		12/22/03	SLO
Fluoranthene	<0.00125	mg/kg	0.001	0.0033	1		12/22/03	SLO
Fluorene	<0.00249	mg/kg	0.002	0.0067	1		12/22/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.002	mg/kg	0.0016	0.0053	1		12/22/03	SLO
1-Methyl Naphthalene	<0.00436	mg/kg	0.0035	0.012	1		12/22/03	SLO
2-Methyl Naphthalene	<0.00511	mg/kg	0.0041	0.014	1		12/22/03	SLO
Naphthalene	<0.002	mg/kg	0.0016	0.0053	1		12/22/03	SLO
Phenanthrene	<0.00287	mg/kg	0.0023	0.0077	1		12/22/03	SLO
Pyrene	<0.00125	mg/kg	0.001	0.0033	1		12/22/03	SLO
9,10-Diphenylanthracene (S)	118.	%	-	-	1		12/22/03	SLO
Method 3550 Ultrasonic Ext.	COMP		-	-	-		12/12/03	KAM

All results calculated on a dry weight basis.

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301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
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TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.17
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S10 Matrix: SOIL Sample Date/Time: 12/09/03 12:40 Lab No. 145698

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	82.0	%	-	0.33	-		12/11/03	SAK
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/18/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/18/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.18
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S10 Matrix: SOIL Sample Date/Time: 12/09/03 12:40 Lab No. 145698

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
PID Surrogate Recovery (S)	95.5	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	128.	%	-	-	1		12/18/03	LMP

All results calculated on a dry weight basis.

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
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Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.19
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S18** Matrix: **SOIL** Sample Date/Time: **12/09/03 12:45** Lab No. **145699**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	87.7	%	-	0.33	-		12/11/03	SAK
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	15.1	mg/kg	0.1	0.33	1		12/24/03	BMS
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/19/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1	DUP	12/19/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/19/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL	12/19/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/19/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/19/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/19/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/19/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.20
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S18 Matrix: SOIL Sample Date/Time: 12/09/03 12:45 Lab No. 145699

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH LCH DUP	12/19/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
PID Surrogate Recovery (S)	95.9	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	132.	%	-	-	1		12/19/03	LMP
EPA 8310								
Acenaphthene	<0.00536	mg/kg	0.0047	0.016	1		12/24/03	SLO
Acenaphthylene	<0.00753	mg/kg	0.0066	0.022	1		12/24/03	SLO
Anthracene	<0.00114	mg/kg	0.001	0.0033	1		12/24/03	SLO
Benzo(a)Anthracene	<0.00468	mg/kg	0.0041	0.014	1		12/24/03	SLO
Benzo(a)Pyrene	<0.00262	mg/kg	0.0023	0.0077	1		12/24/03	SLO
Benzo(b)Fluoranthene	<0.00239	mg/kg	0.0021	0.007	1		12/24/03	SLO
Benzo(k)Fluoranthene	<0.00331	mg/kg	0.0029	0.0097	1		12/24/03	SLO
Benzo(ghi)Perylene	<0.00239	mg/kg	0.0021	0.007	1		12/24/03	SLO
Chrysene	<0.00262	mg/kg	0.0023	0.0077	1		12/24/03	SLO
Dibenzo(a,h)Anthracene	<0.0016	mg/kg	0.0014	0.0047	1		12/24/03	SLO
Fluoranthene	<0.00114	mg/kg	0.001	0.0033	1		12/24/03	SLO
Fluorene	<0.00228	mg/kg	0.002	0.0067	1		12/24/03	SLO
Indeno(1,2,3-cd)Pyrene	<0.00182	mg/kg	0.0016	0.0053	1		12/24/03	SLO
1-Methyl Naphthalene	<0.00399	mg/kg	0.0035	0.012	1		12/24/03	SLO
2-Methyl Naphthalene	<0.00468	mg/kg	0.0041	0.014	1		12/24/03	SLO
Naphthalene	<0.00182	mg/kg	0.0016	0.0053	1		12/24/03	SLO
Phenanthrene	<0.00262	mg/kg	0.0023	0.0077	1		12/24/03	SLO
Pyrene	<0.00114	mg/kg	0.001	0.0033	1		12/24/03	SLO
9,10-Diphenylanthracene (S)	96.1	%	-	-	1		12/24/03	SLO
Method 3550 Ultrasonic Ext.	COMP		-	-	-		12/18/03	MJG

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.21
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S19 Matrix: SOIL Sample Date/Time: 12/09/03 13:05 Lab No. 145700

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	84.5	%	-	0.33	-		12/11/03	SAK
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	17.9	mg/kg	0.1	0.33	1		12/24/03	BMS
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/19/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1	DUP	12/19/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/19/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL	12/19/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/19/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/19/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/19/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/19/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.22
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S19** Matrix: **SOIL** Sample Date/Time: **12/09/03 13:05** Lab No. **145700**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH LCH DUP	12/19/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
PID Surrogate Recovery (S)	96.6	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	132.	%	-	-	1		12/19/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.23
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S16** Matrix: **SOIL** Sample Date/Time: **12/09/03 11:20** Lab No. **145701**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	88.2	%	-	0.33	-		12/11/03	SAK
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	6.93	mg/kg	0.1	0.33	1		12/24/03	BMS
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/19/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1	DUP	12/19/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/19/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL	12/19/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/19/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/19/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/19/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/19/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP

All results calculated on a dry weight basis.

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PROJECT NO.: 200106102370
REPORT NO. : 145691.24
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Attn: David Voight

Sample ID: 2003TN01S16 Matrix: SOIL Sample Date/Time: 12/09/03 11:20 Lab No. 145701

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH LCH DUP	12/19/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
PID Surrogate Recovery (S)	93.0	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	130.	%	-	-	1		12/19/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.25
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S17 Matrix: SOIL Sample Date/Time: 12/09/03 11:30 Lab No. 145702

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	85.6	%	-	0.33	-		12/11/03	SAK
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	8.08	mg/kg	0.1	0.33	1		12/24/03	BMS
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/19/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1	DUP	12/19/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/19/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL	12/19/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/19/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/19/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/19/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/19/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP

All results calculated on a dry weight basis.

25

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.26
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S17** Matrix: **SOIL** Sample Date/Time: **12/09/03 11:30** Lab No. **145702**

EPA 8021 (Only positively identified analytes are reported on a dry weight basis

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH LCH DUP	12/19/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
PID Surrogate Recovery (S)	94.0	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	133.	%	-	-	1		12/19/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.27
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01S14** Matrix: **SOIL** Sample Date/Time: **12/09/03 09:10** Lab No. **145703**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	82.8	%	-	0.33	-		12/11/03	SAK
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	6.39	mg/kg	0.1	0.33	1		12/24/03	BMS
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/19/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1	DUP	12/19/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/19/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL	12/19/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/19/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/19/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/19/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/19/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP

All results calculated on a dry weight basis.

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Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.28
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S14 Matrix: SOIL Sample Date/Time: 12/09/03 09:10 Lab No. 145703

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH LCH DUP	12/19/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
PID Surrogate Recovery (S)	98.1	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	131.	%	-	-	1		12/19/03	LMP

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.29
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: 2003TN01S15 Matrix: SOIL Sample Date/Time: 12/09/03 09:30 Lab No. 145704

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	80.8	%	-	0.33	-		12/11/03	SAK
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	23.5	mg/kg	0.1	0.33	1		12/24/03	BMS
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL	12/19/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/19/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1	DUP	12/19/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/19/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL	12/19/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/19/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/19/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/19/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/19/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/19/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1	CSL	12/19/03	LMP

All results calculated on a dry weight basis.

USFilter
ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145691.30
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Attn: David Voight

Sample ID: **2003TN01S15** Matrix: **SOIL** Sample Date/Time: **12/09/03 09:30** Lab No. **145704**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/19/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/19/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/19/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/19/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/19/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/19/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH LCH DUP	12/19/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/19/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/19/03	LMP
PID Surrogate Recovery (S)	95.9	%	-	-	1		12/19/03	LMP
HALL Surrogate Recovery (S)	126.	%	-	-	1		12/19/03	LMP

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.31
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Sample ID: **2003TN01D90** Matrix: **SOIL** Sample Date/Time: **12/09/03** Lab No. **145705**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	83.1	%	-	0.33	-		12/11/03	SAK
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	20.9	mg/kg	0.1	0.33	1		12/24/03	BMS

All results calculated on a dry weight basis.

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145691.32
DATE REC'D : 12/10/03
REPORT DATE: 12/30/03
PREPARED BY: JRS

Qualifier Descriptions

CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
LCL	The laboratory control sample for this analyte exibited a low bias. Sample results may also be biased low.
DUP	Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
LCH	The laboratory control sample for this analyte exibited a high bias. Sample results may also be biased high.

Appendix G

Boring Abandonment Forms

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-1
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
Gov't Lot ___ Grid Number ___
Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.
Civil Town Name

Street Address of Well: 8927 Sheridan Road
City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known)
Present Well Owner
Street or Route
City, State, Zip Code
Facility Well No. and/or Name (If Applicable)
WI Unique Well No.
Reason For Abandonment
Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/10/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ___
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☒ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.
Signature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04
Street or Route: 1033 N. Mayfair Road
Telephone Number
City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected
District/County
Reviewer/Inspector
☐ Complying Work
☐ Noncomplying Work
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

[redacted]ell/Drillhole/Borehole [redacted]ocation: GP-2
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
Gov't Lot ___ Grid Number ___
Grid Location ___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.
Civil Town Name
Street Address of Well: 8927 Sheridan Road
City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners
Original Well Owner (If Known)
Present Well Owner
Street or Route
City, State, Zip Code
Facility Well No. and/or Name (If Applicable)
WI Unique Well No.
Reason For Abandonment
Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/10/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ___
Casing Diameter (in.) ___
Casing Depth (ft.) ___
Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___
Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casing Left in Place? ☒ Yes ☐ No
If No, Explain ___

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☒ Yes ☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.
[redacted]ature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04
Street or Route: 1033 N. Mayfair Road
Telephone Number
City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected
District/County
Reviewer/Inspector
☐ Complying Work
☐ Noncomplying Work
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

[redacted]ell/Drillhole/Borehole Location: GP-3
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well
8927 Sheridan Road

City, Village
Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable) | WI Unique Well No.

Reason For Abandonment

Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/10/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) ___ (From groundsurface)
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 15.0 Feet

(4) Depth to Water (Feet) ___
Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casing Left in Place? ☒ Yes ☐ No
If No, Explain ___

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☒ Yes ☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	15.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.

[redacted]ature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04

[redacted]et or Route: 1033 N. Mayfair Road
Telephone Number

City, State, Zip Code
Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

[redacted]ell/Drillhole/Borehole [redacted]cation: GP-4
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 [X] E [ ] W
(If Applicable)

___ Gov't Lot ___ Grid Number

Grid Location
___ ft. [ ] N. [ ] S., ___ ft. [ ] E. [ ] W.

Civil Town Name:

Street Address of Well: 8927 Sheridan Road

City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known):

Present Well Owner:

Street or Route:

City, State, Zip Code:

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.:

Reason For Abandonment:

Date of Abandonment:

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/10/2003

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[X] Borehole

Construction Report Available? [X] Yes [ ] No

Construction Type:
[ ] Drilled [ ] Driven (Sandpoint) [ ] Dug
[X] Other (Specify) Direct Push

Formation Type:
[X] Unconsolidated Formation [ ] Bedrock

Total Well Depth (ft) ___ (From groundsurface)
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? [X] Yes [ ] No [ ] Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Liner(s) Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Screen Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Casing Left in Place?	[X] Yes	[ ] No	

If No, Explain ___

Was Casing Cut Off Below Surface?	[ ] Yes	[ ] No
Did Sealing Material Rise to Surface?	[X] Yes	[ ] No
Did Material Settle After 24 Hours?	[ ] Yes	[X] No
If Yes, Was Hole Retopped?	[X] Yes	[ ] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe - Gravity [ ] Conductor Pipe - Pumped
[ ] Dump Bailer [X] Other (Explain) Gravity

(6) Sealing Materials
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[ ] Chipped Bentonite

For monitoring wells and monitoring well boreholes only
[ ] Bentonite Pellets
[X] Granular Bentonite
[ ] Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.

[redacted]ature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04

Street or Route: 1033 N. Mayfair Road
Telephone Number:

City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	[ ] Complying Work [ ] Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

[redacted]ell/Drillhole/Borehole [redacted]cation: GP-5
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 8927 Sheridan Road

City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable)

WI Unique Well No.

Reason For Abandonment

Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/10/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) ___ (From groundsurface)
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☒ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.

[redacted]ature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04

Street or Route: 1033 N. Mayfair Road
Telephone Number

City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

[redacted]ell/Drillhole/Borehole [redacted]cation: GP-6
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
Gov't Lot ____ Grid Number ____
Grid Location: ____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.
Civil Town Name:
Street Address of Well: 8927 Sheridan Road
City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known):
Present Well Owner:
Street or Route:
City, State, Zip Code:
Facility Well No. and/or Name (If Applicable):
WI Unique Well No.:
Reason For Abandonment:
Date of Abandonment:

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ____
Casing Diameter (in.) ____
Casing Depth (ft.) ____
Lower Drillhole Diameter (in.) ____

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 16.0 Feet

(4) Depth to Water (Feet) ____
Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casing Left in Place? ☒ Yes ☐ No
If No, Explain ____

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☒ Yes ☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	16.0		

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.
[redacted]ature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04
Street or Route: 1033 N. Mayfair Road
Telephone Number:
City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected:
District/County:
Reviewer/Inspector:
☐ Complying Work
☐ Noncomplying Work
Follow-up Necessary:

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-7
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
___ Gov't Lot ___ Grid Number
Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.
Civil Town Name:
Street Address of Well: 8927 Sheridan Road
City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners
Original Well Owner (If Known):
Present Well Owner:
Street or Route:
City, State, Zip Code:
Facility Well No. and/or Name (If Applicable):
WI Unique Well No.:
Reason For Abandonment:
Date of Abandonment:

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ___
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___
Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casing Left in Place? ☒ Yes ☐ No
If No, Explain ___

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☒ Yes ☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.
Signature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04
Street or Route: 1033 N. Mayfair Road
Telephone Number:
City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected
District/County
Reviewer/Inspector
☐ Complying Work
☐ Noncomplying Work
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-8
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W

(If Applicable)
___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name:

Street Address of Well: 8927 Sheridan Road

City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known):

Present Well Owner:

Street or Route:

City, State, Zip Code:

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.:

Reason For Abandonment:

Date of Abandonment:

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) ___ (From groundsurface)
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☒ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.

Signature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04

Street or Route: 1033 N. Mayfair Road
Telephone Number:

City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-9
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W

(If Applicable)
______ Gov't Lot ______ Grid Number

Grid Location
______ ft. ☐ N. ☐ S., ______ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well
8927 Sheridan Road

City, Village
Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable)

WI Unique Well No.

Reason For Abandonment

Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ______
Casing Diameter (in.) ______
Casing Depth (ft.) ______

Lower Drillhole Diameter (in.) ______

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ______

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain ______

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☒ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ______

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.

Signature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04

Street or Route
1033 N. Mayfair Road
Telephone Number

City, State, Zip Code
Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

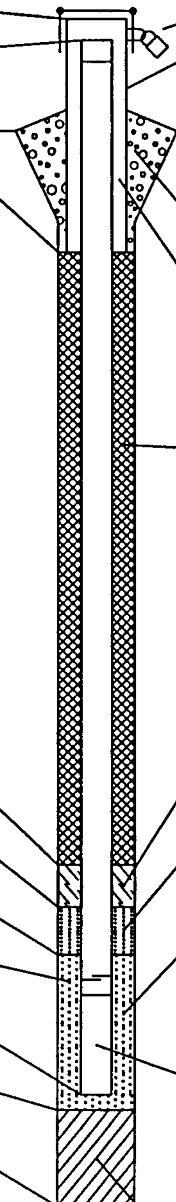
MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: C & L Industrial Cleaners	Local Grid Location of Well: ______ ft. ☐N. ☐S. ______ ft. ☐E. ☐W.	Well Name
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis.Unique Well No.: PL522 / DNR Well Number
Facility ID	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ___1/4 of___ 1/4 of Sec. 18, T. 1 N, R. 23 ☒ E ☐ W	Well Installed By:
Distance Well Is From Waste/Source Boundary ___ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☒ Not Known	

A. Protective pipe, top elevation ______ ft. MSL
B. Well casing, top elevation ______ ft. MSL
C. Land surface elevation ______ ft. MSL
D. Surface seal, bottom ______ ft. MSL or 0.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☒ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐
13. Sieve analysis attached? ☐ Yes ☒ No
14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☒ 4 1; Other ☐ __
15. Drilling fluid used: Water ☐ 0 2; Air ☐ 0 1; Drilling Mud ☐ 0 3; None ☒ 9 9
16. Drilling additives used? ☒ Yes ☐ No
Describe: No
17. Source of water (attach analysis): City of Sheboygan

E. Bentonite seal, top ______ ft. MSL or 1.0 ft.
F. Fine sand, top ______ ft. MSL or ______ ft.
G. Filter pack, top ______ ft. MSL or 4.0 ft.
H. Screen joint, top ______ ft. MSL or 5.0 ft.
I. Well bottom ______ ft. MSL or ______ ft.
J. Filter pack, bottom ______ ft. MSL or 15.5 ft.
K. Borehole, bottom ______ ft. MSL or 15.5 ft.
L. Borehole, diameter ______ in.
M. O.D. well casing 2.38 in.
N. I.D. well casing ______ in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☐ 0 4; Other ☒ __ Steel
   d. Additional protection? ☒ Yes ☐ No
   If yes, describe: no
3. Surface seal: Bentonite ☐ 3 0; Concrete ☒ 0 1; Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Other ☒ __ None
5. Annular space seal: a. Granular Bentonite ☐ 3 3
   b. ____Lbs/gal mud wt . . . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud wt . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. 0.9 Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4in. ☒ 3/8in. ☐ 1/2in. Bentonite pellets ☒ 3 2
   c. ______ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh size
   a. #30 Red Flint Sand __
   b. Volume added 3.1 ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. ______ __
   b. Volume added ______ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; Johnson Screen Other ☒ __
10. Screen material: Schedule 40 PVC __
   a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐ __
   b. Manufacturer Johnson Screen
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4; None Other ☒ __

ereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Margaret Earnest*	Firm: T N & Associates, Inc. 1033 N. Mayfair Road Milwaukee, WI 53226 — Tel: Fax:

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-10
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well
8927 Sheridan Road

City, Village
Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable) | WI Unique Well No.

Reason For Abandonment

Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) ___ (From groundsurface)
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☒ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.

Signature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04

Street or Route
1033 N. Mayfair Road
Telephone Number

City, State, Zip Code
Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

ell/Drillhole/Borehole cation: GP-11
County: Kenosha

1/4 of 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
Gov't Lot ____ Grid Number ____
Grid Location
____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.
Civil Town Name
Street Address of Well: 8927 Sheridan Road
City, Village: Kenosha

(2) FACILITY NAME: C & L Industrial Cleaners
Original Well Owner (If Known)
Present Well Owner
Street or Route
City, State, Zip Code
Facility Well No. and/or Name (If Applicable)
WI Unique Well No.
Reason For Abandonment
Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ____
Casing Diameter (in.) ____
Casing Depth (ft.) ____
Lower Drillhole Diameter (in.) ____

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ____
Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casing Left in Place? ☒ Yes ☐ No
If No, Explain

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☒ Yes ☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments

(9) Name of Person or Firm Doing Sealing Work: T N & Associates, Inc.
nature of Person Doing Work: Margaret Gasnast
Date Signed: 4-14-04
eet or Route: 1033 N. Mayfair Road
Telephone Number
City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected
District/County
Reviewer/Inspector
☐ Complying Work
☐ Noncomplying Work
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B   Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-12
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)

___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name:

Street Address of Well: 8927 Sheridan Road

City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners

Original Well Owner (If Known):

Present Well Owner:

Street or Route:

City, State, Zip Code:

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.:

Reason For Abandonment:

Date of Abandonment:

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ___
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☒ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work: T N & Associates, Inc.

Signature of Person Doing Work: Margaret Earnest
Date Signed: 4-14-04

Street or Route: 1033 N. Mayfair Road
Telephone Number:

City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-13
County: Kenosha

___ 1/4 of ___ 1/4 of Sec. 18 ; T. 1 N; R. 23 ☒ E ☐ W
(If Applicable)
___ Gov't Lot ___ Grid Number
Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.
Civil Town Name

Street Address of Well: 8927 Sheridan Road
City, Village: Kenosha

(2) FACILITY NAME C & L Industrial Cleaners
Original Well Owner (If Known)
Present Well Owner
Street or Route
City, State, Zip Code
Facility Well No. and/or Name (If Applicable)
WI Unique Well No.
Reason For Abandonment
Date of Abandonment

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 12/9/2003

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) ___
Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown
If Yes, To What Depth? 12.0 Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☒ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☒ Other (Explain) Gravity

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Granular Bentonite	Surface	12.0		

(8) Comments ___

(9) Name of Person or Firm Doing Sealing Work
T N & Associates, Inc.
Signature of Person Doing Work: Margaret Garrett
Date Signed: 4-14-04
Street or Route: 1033 N. Mayfair Road
Telephone Number
City, State, Zip Code: Milwaukee, WI 53226

(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected
District/County
Reviewer/Inspector
☐ Complying Work
☐ Noncomplying Work
Follow-up Necessary

DNR/COUNTY

Appendix H

Waste Disposal Documentation

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

Sample Summary

Lab Id	Client Sample ID	Date/Time	Matrix
145785	203TN01S13	12/10/03 10:50	SOIL
145786	2003TN01S08	12/10/03 09:00	SOIL
145787	2003TN01S14	12/10/03 14:05	SOIL
145788	2003TN01S14 EXT	12/16/03	TCLP EXTRACT

Sample Narrative/Sample Status

LOGIN:

145787 HOLD= POSSIBLE ADDITIONAL TCLP TESTING FOR METALS, SEMI, PEST,HERB
145788 HOLD= POSSIBLE ADDITIONAL TCLP TESTING

GENERAL:

ANALYSES:

145787 CANC ALK & ACID - PH BETWEEN 4-10. TCLP SEMI,HERB & PEST COMPLETE ON 11/18/03.

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection
LOQ = Limit of Quantitation
< = Less Than
COMP = Complete
SUBCON = Subcontracted analysis
mv = millivolts
pCi/l = picocurie per liter
ml/l = mililiters/Liter

µg/l = Micrograms per liter = parts per billion (ppb)
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/l = Milligrams per liter = parts per million (ppm)
mg/kg = Milligrams per kilogram = parts per million (ppm)
NOT PRES = Not Present
ppth = Parts per thousand
(S) = Surrogate Compound

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145785.3
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Sample ID: **203TN01S13** Matrix: **SOIL** Sample Date/Time: **12/10/03 10:50** Lab No. **145785**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	0.8	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	0.8		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	0.8		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	0.8	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	0.8	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	0.8		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	0.8		12/18/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	0.8	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	0.8		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	0.8		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	0.8		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	0.8	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
Tetrachloroethylene	50.0	mg/kg	0.009	0.03	83.6		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	0.8	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	0.8		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	0.8		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	0.8		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	0.8		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	0.8		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	0.8		12/18/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	0.8		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	0.8		12/18/03	LMP

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145785.4
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Sample ID: **203TN01S13** Matrix: **SOIL** Sample Date/Time: **12/10/03 10:50** Lab No. **145785**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Bromoform	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	0.8	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	0.8		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	0.8		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	0.8		12/18/03	LMP
PID Surrogate Recovery (S)	91.7	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	130.	%	-	-	1		12/18/03	LMP
MOSA21-2								
Total Solids	79.2	%	-	0.33	-		12/15/03	SAK

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145785.5
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Sample ID: **2003TN01S08** Matrix: **SOIL** Sample Date/Time: **12/10/03 09:00** Lab No. **145786**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 3050								
Metal Prep	COMP		-	-	-		12/16/03	JJP
EPA 6010								
Total Nickel	7.60	mg/kg	0.1	0.33	1		12/24/03	BMS
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	CSL LCL	12/18/03	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		12/18/03	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1		12/18/03	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	CSL LCL DUP	12/18/03	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	LCL DUP	12/18/03	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		12/18/03	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		12/18/03	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	CSL LCL DUP	12/18/03	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		12/18/03	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		12/18/03	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		12/18/03	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	CSL LCL	12/18/03	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		12/19/03	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1	CSH	12/18/03	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		12/18/03	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		12/18/03	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		12/18/03	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP

All results calculated on a dry weight basis.

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WEBSITE www.usfilter.com

TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145785.6
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Attn: David Voight

Sample ID: 2003TN01S08 Matrix: SOIL Sample Date/Time: 12/10/03 09:00 Lab No. 145786

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		12/18/03	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		12/18/03	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1		12/18/03	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		12/18/03	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromochloromethane	<0.025	mg/kg	0.006	0.02	1		12/18/03	LMP
Bromoform	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Bromomethane	<0.025	mg/kg	0.009	0.03	1	CSH	12/18/03	LMP
Dibromomethane	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
1,1-Dichloropropene	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
trans-1,3-dichloroprop(yl)e	<0.025	mg/kg	0.008	0.027	1		12/18/03	LMP
Styrene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.009	0.03	1		12/18/03	LMP
1,2,3-Trichloropropane	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
cis-1,3-Dichloroprop(yl)ene	<0.025	mg/kg	0.007	0.023	1		12/18/03	LMP
PID Surrogate Recovery (S)	101.	%	-	-	1		12/18/03	LMP
HALL Surrogate Recovery (S)	122.	%	-	-	1		12/18/03	LMP
MOSA21-2								
Total Solids	82.3	%	-	0.33	-		12/15/03	SAK

All results calculated on a dry weight basis.

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Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145785.7
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Sample ID: **2003TN01S14** Matrix: **SOIL** Sample Date/Time: **12/10/03 14:05** Lab No. **145787**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 1030								
Flash Point	Non-flammable		-	-	-		12/31/03	JCH
EPA 1311								
TCLP Extraction	COMP		-	-	-		12/18/03	JJP
Zero Headspace Extraction	COMP		-	-	-		12/16/03	JJP
TCLP Phase Determination	COMP		-	-	-		12/17/03	JJP
EPA 300.0								
Chloride	273.	mg/kg	1.0	3.33	10		12/17/03	YMD
EPA 8082								
PCB-1016	<15.4	µg/kg	1.3	4.33	10		01/02/04	CKV
PCB-1221	<30.7	µg/kg	2.6	8.66	10		01/02/04	CKV
PCB-1232	<53.2	µg/kg	4.5	15.0	10		01/02/04	CKV
PCB-1242	<11.8	µg/kg	1.0	3.33	10		01/02/04	CKV
PCB-1248	7,240.	µg/kg	3.1	10.3	100		12/31/03	CKV
PCB-1254	<10.6	µg/kg	0.9	3.0	10		01/02/04	CKV
PCB-1260	<16.5	µg/kg	1.4	4.66	10		01/02/04	CKV
Tetrachloro-m-xylene (S)	86.1	%	-	-	10		01/02/04	CKV
Decachlorobiphenyl (S)	53.2	%	-	-	10		01/02/04	CKV
Method 3550 Ultrasonic Ext.	COMP		-	-	-		12/18/03	MJG
EPA 9045								
pH - Laboratory	7.60		-	-	1		12/15/03	JJP
EPA 9095								
Free Liquids	0.000	%	-	-	1		12/17/03	JJP
ES-180								
Sp. Gravity	2.11		-	-	1		12/18/03	JJP
MOSA21-2								
Total Solids	84.7	%	-	0.33	-		12/15/03	SAK
SW846 MET								
Reactive Cyanide	<0.0154	mg/kg	0.013	0.043	1		12/16/03	LCK
Reactive Sulfide	<29.5	mg/kg	-	25.0	1		12/16/03	JJP

All results calculated on a dry weight basis.

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Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145785.8
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Attn: David Voight

Sample ID: 2003TN01S14 EXT   Matrix: TCLP-EXT   Sample Date/Time: 12/16/03   Lab No. 145788

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 420.2								
Phenols,colorimetric	<100.	mg/l	0.005	0.017	5		12/30/03	LCK
EPA 6010								
Arsenic	<0.016	mg/l	0.008	0.027	2		12/29/03	BMS
Barium	0.629	mg/l	0.001	0.0033	2		12/29/03	BMS
Cadmium	0.02	mg/l	0.0011	0.0037	2		12/29/03	BMS
Chromium	<0.0032	mg/l	0.0016	0.0053	2		12/29/03	BMS
Copper	0.404	mg/l	0.004	0.013	2		12/29/03	BMS
Lead	0.037	mg/l	0.016	0.053	2		12/29/03	BMS
Nickel	0.078	mg/l	0.003	0.01	2		12/29/03	BMS
Selenium	<0.036	mg/l	0.018	0.06	2		12/29/03	BMS
Silver	<0.006	mg/l	0.003	0.01	2		12/29/03	BMS
Zinc	2.96	mg/l	-	0.005	2		12/29/03	BMS
EPA 7470								
Mercury	<0.00175	mg/l	0.00007	0.0002	25		12/22/03	JCH
EPA 8021								
Benzene	<6.20	µg/l	0.31	1.03	20		12/18/03	LMP
Carbon Tetrachloride	<11.8	µg/l	0.59	1.96	20		12/18/03	LMP
Chlorobenzene	<6.20	µg/l	0.31	1.03	20		12/18/03	LMP
Chloroform	<5.40	µg/l	0.27	0.90	20		12/18/03	LMP
1,4-Dichlorobenzene	<6.00	µg/l	0.3	1.0	20		12/18/03	LMP
1,2-Dichloroethane	<3.40	µg/l	0.17	0.57	20		12/18/03	LMP
1,1-Dichloroeth(yl)ene	<7.80	µg/l	0.39	1.3	20		12/18/03	LMP
Methyl Ethyl Ketone(MEK)	<40.0	µg/l	2.0	6.66	20		12/18/03	LMP
Tetrachloroeth(yl)ene	<6.40	µg/l	0.32	1.07	20		12/18/03	LMP
Trichloroeth(yl)ene	<7.20	µg/l	0.36	1.2	20		12/18/03	LMP
Vinyl Chloride	<4.00	µg/l	0.2	0.67	20		12/18/03	LMP
EPA 8081								
g-BHC (Lindane)	<0.013	µg/l	0.0013	0.0043	10		01/02/04	JMM
Chlordane	<0.15	µg/l	0.015	0.05	10		01/02/04	JMM
Endrin	<0.033	µg/l	0.0033	0.011	10		01/02/04	JMM
Heptachlor	<0.009	µg/l	0.0009	0.003	10		01/02/04	JMM
Heptachlor Epoxide	<0.014	µg/l	0.0014	0.0047	10		01/02/04	JMM
Methoxychlor	<0.119	µg/l	0.0119	0.04	10		01/02/04	JMM
Toxaphene	<0.74	µg/l	0.074	0.25	10		01/02/04	JMM
Tetrachloro-m-xylene (S)	80.9	%	-	-	10		01/02/04	JMM
Decachlorobiphenyl (S)	54.1	%	-	-	10	SL	01/02/04	JMM
Method 3510 Liquid Ext.	COMP		-	-	-		12/19/03	JAS
EPA 8151								
2,4-D	<6.00	µg/l	0.6	2.0	10	CSH	12/30/03	EAL
2,4,5-TP (Silvex)	<0.7	µg/l	0.07	0.23	10	CSH	12/30/03	EAL
DCAA (S)	47.6	%	-	-	1	SL	12/30/03	EAL
Method 3510 Liquid Ext.	COMP		-	-	-		12/23/03	JAS
EPA 8270								
o-Cresol	<43.0	µg/l	43.0	143.	1		12/29/03	MRD
m-&p-Cresol	<51.0	µg/l	51.0	170.	1		12/29/03	MRD
2,4-Dinitrotoluene	<11.0	µg/l	11.0	36.6	1		12/29/03	MRD

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TN & Assosiates
1033 N. Mayfair Road
Suite 200
Milwaukee, WI 53226

Attn: David Voight

PROJECT NO.: 200106102370
REPORT NO. : 145785.9
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Sample ID: **2003TN01S14 EXT** Matrix: **TCLP-EXT** Sample Date/Time: **12/16/03** Lab No. **145788**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8270								
Hexachlorobenzene	<5.90	µg/l	5.9	19.6	1		12/29/03	MRD
Hexachlorobutadiene	<14.5	µg/l	14.5	48.3	1		12/29/03	MRD
Hexachloroethane	<12.0	µg/l	12.0	40.0	1		12/29/03	MRD
Nitrobenzene	<13.5	µg/l	13.5	45.0	1		12/29/03	MRD
Pentachlorophenol	<38.0	µg/l	38.0	127.	1		12/29/03	MRD
2,4,5-Trichlorophenol	<50.0	µg/l	50.0	167.	1		12/29/03	MRD
2,4,6-Trichlorophenol	<37.0	µg/l	37.0	123.	1		12/29/03	MRD
Pyridine	<11.0	µg/l	11.0	36.6	1		12/29/03	MRD
Method 3510 Liquid Ext.	COMP		-	-	-		12/19/03	JAS

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Suite 200
Milwaukee, WI 53226

PROJECT NO.: 200106102370
REPORT NO. : 145785.10
DATE REC'D : 12/11/03
REPORT DATE: 01/13/04
PREPARED BY: JRS

Attn: David Voight

Qualifier Descriptions

CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
LCL	The laboratory control sample for this analyte exibited a low bias. Sample results may also be biased low.
DUP	Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
SL	Surrogate recovery was low. Result for sample may be biased low.

REQUEST FOR SERVICES **USFilter**

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: David Voight
Company: TN & Associates
Address: 1033 N. Mayfair Rd, Suite 200
MILWAUKEE, WI 53226
Phone: (414) 607-6772
P.O.#
Project # 2001061-02-3707 Quote #
Location Kenosha, WI

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

E30412 12-11-03 SMA Per Mr. Voight test TCLP VOC but Hold all other TCLP work.

Sample Type
(Check all that apply)
- ☐ Groundwater
- ☐ Wastewater
- ☒ Soil/Solid
- ☐ Drinking Water
- ☐ Oil
- ☐ Vapor
- ☐ Other

Turnaround Time
- ☒ Normal
- ☐ Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

m-EPA8021 vacuum grout TS

LAB USE ONLY	DATE	TIME	No. of Containers COMP	GRAB	SAMPLE ID	VOCs (SW5035/8021)	NI (SW6010)	TCLP	TCLP VOC – TCLP metals – TCLP semi – TCLP pest – TCLP Herb	3 surface sples + TS cup	REMARKS
60145785	12-10-03	1050	4	3	2003TN01S13	3				✓	with dry wt cont
60145786	12-10-03	0900	6	5	2003TN01S08	3	2			✓	+ 2-802 amber foil lid
60145787	12-10-03	1405	8	7	2003TN01S14	3		4		✓	" " "
60145788											+ 2-902 jars
											+ 2 liter glass w/ soil

F/CN R-S (pH) Fl.pt

8021 take out - m-EPA8021 vacuum and add protocol B parameter per Mr. Voight request 12-15-03 2:30 SMA

e-mailed SMA inorganic ext. lab.

Del'v: Hand Comm.
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A 2 C

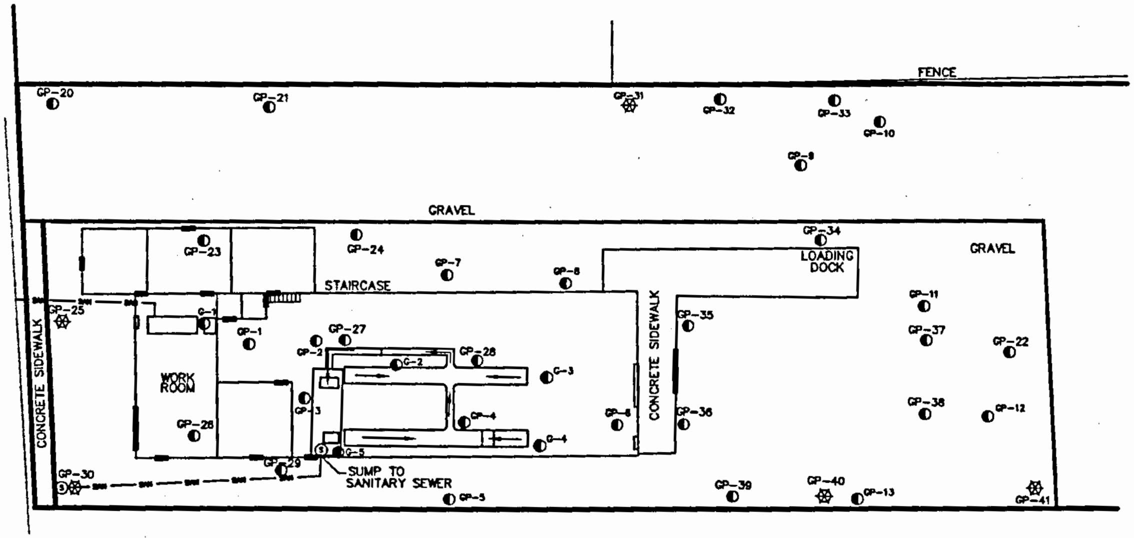
Comments: Verified TCLP testing w/ Sharon.

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* Margaret Earnest

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
Margaret Earnest	12-10-03 | 1800	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* [signature] — DATE/TIME 12-11-03 | 700

STS CONSULTANTS
11425 W. Lake Park Drive
Milwaukee, WI 53224
414-359-3030
www.stsconsultants.com



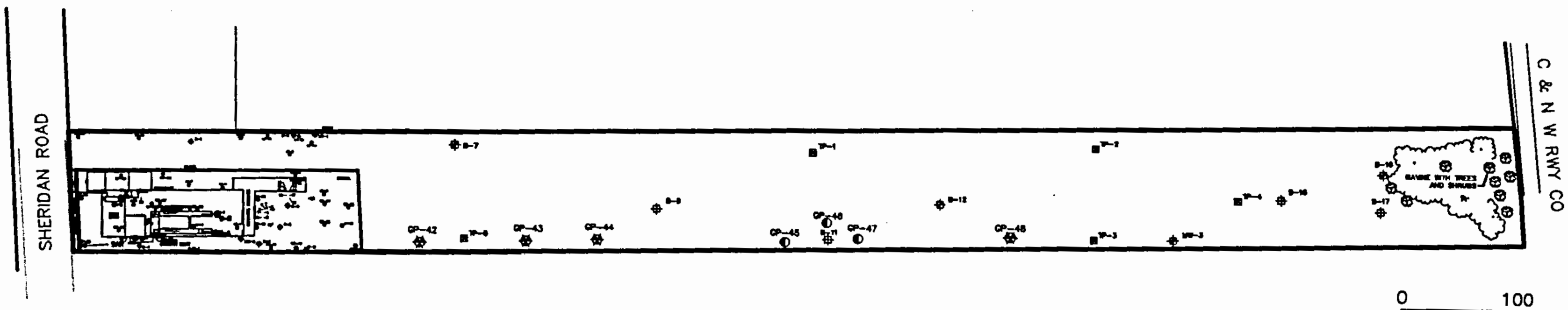
LEGEND

- G-1 TO G-6 AND GP-20 TO GP-48 STS GEOPROBE BORING/TEMPORARY WELL LOCATION
- GP-1 TO GP-13 TNA GEOPROBE BORING LOCATION
- B-4 SOIL BORING LOCATION
- B-6 STS GROUNDWATER MONITORING WELL LOCATION
- MW-1 TNA GROUNDWATER MONITORING WELL LOCATION
- GP STS 2004 GEOPROBE LOCATION W/ TEMPORARY WELL

APPROXIMATE SCALE IN FEET

30' 0 30'

- FENCE
- SAN — SANITARY SEWER
- DIRECTION OF WATER FLOW IN FORMER FLOOR DRAINAGE TRENCHES
- ASSUMED PROPERTY BOUNDARY



0 100

1" = 100'

SITE LAYOUT AND SAMPLE LOCATIONS
C & L INDUSTRIAL CLEANERS
8927 BSHERIDAN ROAD
KENOSHA, WISCONSIN

Drawn:	C.C. 09/17/2004
Checked:	LLA 09/17/2004
Approved:	T.W.K 09/17/2004
PROJECT NUMBER	86415XD
FIGURE NUMBER	2

X:\Projects\58641SXB\dwg\G58641SXB-SI-FIGURES-04.dwg, 09/21/2004 11:13:44 AM, guerra

Summary of Groundwater Analytical Results - Metals
Kenosha Brownfield Investigation - C&L Industrial Cleaners
STS Project No. 86415XD

Sample Location	Sample ID#	Sample Date	Antimony ug/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Lead ug/L	Mercury ug/L	Nickel ug/L	Selenium ug/L	Silver ug/L
	STS 2001Temp Wells												
G-1	CL-G1-W010501	5-1-01	<1.21	4.90	11	<0.2	<1	<4	<1.00	<0.2	4^{J}	<3.00	<3
G-2	CL-G2-W010501 (Dup)	5-1-01	<1.21	<2.40	22	<0.2	1.6^{J}	<4	<1.00	<0.2	4^{J}	<3.00	<3
G-2	CL-G2-D010501	5-1-01	<1.21	<2.40	22	<0.2	1^{J}	<4	<1.00	<0.2	6^{J}	<3.00	<3
G-3	CL-G3-W010501	5-1-01	<1.21	<2.40	72	<0.2	<1	<4	<1.00	<0.2	<3	<3.00	<3
G-3	CL-G3-B010501 (Blank)	5-1-01	<1.21	<2.40	39	<0.2	<1	<4	<1.00	<0.2	74	<3.00	<3
G-4	CL-G4-W010501	5-1-01	<1.21	<2.40	17	0.37	<1	10^{J}	<1.00	<0.2	**120**	<3.00	<3
G-5	CL-G5-W010501	5-1-01	<1.21	<2.40	7	<0.2	<1	<4	<1.00	<0.2	<3	<3.00	<3
	TNA 2003 Temp Wells												
GP-4	2003TN01S09	12-10-03	NT	NT	NT	NT	NT	NT	NT	NT	*83.3*	NT	NT
GP-4	2003NO1D08 (Dup)	12-10-03	NT	NT	NT	NT	NT	NT	NT	NT	*85.7*	NT	NT
GP-5	2003N01S08	12-10-03	NT	NT	NT	NT	NT	NT	NT	NT	3.9^{J}	NT	NT
GP-5	2003N01D08 (Dup)	12-10-03	NT	NT	NT	NT	NT	NT	NT	NT	4.9^{J}	NT	NT
GP-8	2003TN01D07	12-9-03	NT	NT	NT	NT	NT	NT	NT	NT	8^{J}	NT	NT
GP-9	2003TN01S04	12-9-03	NT	NT	NT	NT	NT	NT	NT	NT	8^{J}	NT	NT
GP-12	2003TN01201	12-9-03	NT	NT	NT	NT	NT	NT	NT	NT	15	NT	NT
GP-13	2003TN01S05	12-9-03	NT	NT	NT	NT	NT	NT	NT	NT	9^{J}	NT	NT
	STS Monitoring Wells												
B-3	CL-SB-3W010514	5-14-01	<1.21	<2.40	69	<0.2	<1	<4	<1.00	<0.2	<3	<3.00	<3
B-5	CL-SB-5W10514	5-14-01	<1.21	<2.40	157	<0.2	<1	<4	<1.00	<0.2	8^{J}	<3.00	<3
B-6	CL-SB-6W010514	5-14-01	<1.21	3.01^{J}	189	<0.2	<1	<4	<1.00	<0.2	*23*	<3.00	<3
B-6	2003TN01S58	12-12-03	NT	NT	NT	NT	NT	NT	NT	NT	6.2J	NT	NT
B-6	2003TN01D58 (Dup)	12-12-03	NT	NT	NT	NT	NT	NT	NT	NT	9.6J	NT	NT
B-7	CL-SB-7W010514	5-14-01	<1.21	<2.40	56	<0.2	<1	<4	<1.00	<0.2	4^{J}	<3.00	<3
B-7	CL-SB-7D010514 (Dup)	5-14-01	<1.21	<2.40	53	<0.2	<1	<4	<1.00	<0.2	4^{J}	<3.00	<3
B-12	CL-SB-12W010514	5-14-01	<1.21	<2.40	134	<0.2	<1	<4	<1.00	<0.2	<3	<3.00	<3
B-12	CL-SB-12B010514 (blank)	5-14-01	<1.21	<2.40	<2	<0.2	<1	<4	<1.00	<0.2	<3	<3.00	<3
B-16	CL-SB-16W010514	5-14-01	<1.21	<2.40	199	<0.2	<1	<4	<1.00	<0.2	4^{J}	<3.00	<3
B-16	2003TN01S50	12-12-03	NT	NT	NT	NT	NT	NT	NT	NT	*20.1*	NT	NT
	TNA Monitoring Wells												
MW-1	MW-1	12-11-03	NT	NT	NT	NT	NT	NT	NT	NT	*48.10*	NT	NT
MW-1	MW-1(Dup)	12-11-03	NT	NT	NT	NT	NT	NT	NT	NT	*48.10*	NT	NT
MW-3	MW-3	12-11-03	NT	NT	NT	NT	NT	NT	NT	NT	12.9	NT	NT
	PAL		*1.2*	*5*	*400*	*0.5*	*10*	*130*	*1.5*	*0.2*	*20*	*10*	*10*
	ES		**6**	**50**	**2000**	**5**	**100**	**1300**	**15**	**2**	**100**	**50**	**50**

Notes: Dup = Duplicate sample
PAL = Preventive Action Limit established under Wisconsin Administrative Code NR140.10 Table 1, October 2003, Exceedances are underlined, italic's.
ES = Enforcement standard established under Wisconsin Administrative Code NR140.10 Table 1, Ocober 2003, Exceedances are bold.
NT = Not Tested

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Summary of Groundwater Analytical Results - VOCs
Kenosha Brownfield Investigation - C&L Industrial Cleaners
STS Project No. 86415XD

Sample Location	Sample ID#	Sample Date	Benzene µg/L	Dichloro difluoromethane µg/L	cis-1,2-Dichloroethene µg/L	trans-1,2-Dichloroethene µg/L	1,1-Dichloro ethylene µg/L	1-1 Dichloro propene µg/L	Tetrachloro-ethene µg/L	Trichloroethene µg/L	1,2,4-Trimethyl benzene µg/L	1,3,5-Trimethyl benzene µg/L	Vinyl Chloride µg/L
	STS 2001 Temp Wells												
G-1	CL-G1-W010501	5-1-01	<150	<150	<150	<150	<150	<250	**27,200**	<100	<400	<150	<120
G-2	CL-G2-W010501	5-1-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	*4.20*	<0.1	<0.4	<0.15	<0.12
G-2	CL-G2-D010501 (Dup)	5-1-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	*4.18*	<0.1	<0.4	<0.15	<0.12
G-3	CL-G3-W010501	5-1-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	<0.12
G-3	CL-G3-B010501 (Blank)	5-1-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	<0.12
G-4	CL-G4-W010501	5-1-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	0.224[J]	<0.1	<0.4	<0.15	<0.12
G-5	CL-G5-W010501	5-1-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	<0.12
	TNA 2003 Temp Wells												
GP-1	2003TN01S13	12-10-03	<0.31	<0.46	<0.23	<0.39	<0.39	<0.31	**1130**	*2.48*	<0.4	<0.31	<0.2
GP-4	2003TN01S09	12-10-03	<0.31	<0.46	<0.23	<0.39	<0.39	<0.31	0.337[J]	<0.36	<0.4	<0.31	<0.2
GP-4	2003TN01D09 (Dup)	12-10-03	<0.31	<0.46	<.023	<0.39	<0.39	<0.31	*0.522[J]*	<0.36	<0.4	<0.31	<0.2
GP-8	2003TN01507	12-19-04	<0.31	<0.46	<0.23	<0.39	<0.39	<0.31	<0.32	<0.36	<0.4	<0.31	<0.2
GP-9	2003TN01504	12-19-04	<0.31	<0.46	0.502[J]	<0.39	<0.39	<0.31	<0.32	<0.36	<0.4	<0.31	**7.21**
GP-12	2003TN01501	12-19-04	<0.31	<0.46	<0.23	<0.39	<0.39	<0.31	<0.32	<0.36	<0.4	<0.31	**2.59**
GP-13	2003TN01505	12-19-04	<0.31	<0.46	<0.23	<0.39	<0.39	<0.31	<0.32	<0.36	<0.4	<0.31	<0.2
	STS Monitoring Wells												
B-3	CL-SB03W010514	5-14-01	<0.15	<0.15	0.524	<0.15	<0.15	<0.25	*3.41*	0.486	<0.4	<0.15	<0.12
B-3	2003TN01555	12-12-03	<0.1	<0.1	*19.4*	<0.1	<0.1	<0.2	**56.5**	*1.39*	<0.15	<0.15	<0.1
B-5	CL-SB05W10514	5-14-01	<0.15	<0.15	1.28	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	**1.16**
B-5	2003TN01557	12-12-03	<0.1	<0.1	0.252[J]	<0.1	<0.1	<0.2	<0.1	<0.2	<0.15	<0.15	**0.272[JZ]**
B-6	CL-SB06W010514	5-14-01	0.375[J]	<0.15	6.65	0.415[J]	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	**4.51**
B-6	2003TN01S58	12-12-03	0.319[J,Z]	<0.15	*14.2[Z]*	0.751	<0.1	<0.2	<0.1	<0.2	<0.15	<0.15	**2.45**
B-7	CL-SB07D010514 (Dup)	5-14-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	<0.12
B-7	CL-SB07W010514	5-14-01	0.216[J]	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	<0.12
B-7	2003NO1S51	12-11-03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.2	<0.15	<0.15	<0.1
B-12	CL-SB12B010514 (Blank)	5-14-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	<0.12
B-12	CL-SB12W010514	5-14-01	<0.15	<0.15	**138**	6.10	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	**10.3**
B-12	2003TN01S54	12-11-03	<.01	<0.1	**152[Z]**	7.43	<0.1	<0.2	<0.1	<0.2	<0.15	<0.15	**8.03**
B-16	CL-SB16W010514	5-14-01	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.1	<0.4	<0.15	<0.12
B-16	2003TN01550	12-11-03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<.01	<0.2	<0.15	<0.15	<0.1
	TNA Monitoring Wells												
MW-1	2003TN01552	12-11-03	<0.1	0.186	**188**	*26.4[Z]*	<0.1	0.413[J]	<0.1	<0.2	0.203J	<0.15	**3.33**
MW-1	2003TN01552 (Dup)	12-11-03	<0.1	0.178J	**186**	*26.2[Z]*	<0.1	0.326[J]	<0.1	<0.2	0.166J	<0.15	**3.11**
MW-2	2003TN01556	12-12-03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.2	<0.15	<0.15	<0.1
MW-3	2003TN01553	12-11-03	<0.1	0.132[J]	**224[Z]**	1.76	0.213[J]	<0.2	<0.1	<0.2	0.579	0.154[J]	**28.0**
	PAL		*0.5*	200	*7*	*20*	*0.7*	NE	*0.5*	*0.5*	96*	96*	*0.02*
	ES		**5**	**1000**	**70**	**100**	**7**	**NE**	**5**	**5**	480*	480*	**0.2**

All values for VOCs on 12/12/03 from Method 8260B except where flagged with [Z]:
[Z] Analytical method SW-846 8021B results were reported because analyte was not detected in 8260 method or was detected at a higher concentration in the 8021B method.
* PAL and ES values are for total trimethylebenzenes (both 1,2,4- and 1,3,5-)
Dup = Duplicate sample
PAL = Preventive Action Limit established under Wisconsin Administrative Code NR140.10 Table 1, October 2003, Exceedances are underlined, italic's.
ES = Enforcement standard established under Wisconsin Administrative Code NR140.10 Table 1, Ocober 2003, Exceedances are bold.

Summary of Groundwater Analytical Results - PAHs
Kenosha Brownfield Investigation - C&L Industrial Cleaners
STS Project No. 86415XD

Sample Location	Sample ID#	Sample Date	Acenaphthene µg/L	Acenaphthylene µg/L	Anthracene µg/L	Benzo(a) Anthracene µg/L	Benzo(a) Pyrene µg/L	Benzo(b) Fluoranthene µg/L	Benzo(k) Fluoranthene µg/L	Benzo(ghi) Perylene µg/L	Chrysene µg/L	Dibenzo(a,h) Anthracene µg/L	Fluoranthene µg/L	Fluorene µg/L	Indeno(1,2,3-cd)Pyrene µg/L	1-Methyl Naphthalene µg/L	2-Methyl Naphthalene µg/L	Naphthalene µg/L	Phenanthrene µg/L	Pyrene µg/L
	STS Temp Wells (2001)																			
G-1	CL-G1-W010501	5-1-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
G-2	CL-G2-D010501	5-1-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
G-2	CL-G2-W010501 (Dup)	5-1-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
G-3	CL-G3-W010501	5-1-01	<0.1	<0.15	<0.09	**0.07**^{J}	*0.175*	**0.213**	**0.105**	**0.159**^{J}	*0.071*	<0.06	**0.16**	<0.11	**0.206**	**0.162**^{J}	**0.284**^{J}	**0.128**^{J}	**0.197**^{J}	**0.115**^{J}
G-3	CL-G3-B010501 (Blank)	5-1-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
G-4	CL-G4-W010501	5-1-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
G-5	CL-G5-W010501	5-1-01	<0.1	<0.15	<0.09	**0.084**^{J}	*0.17*	**0.233**	**0.104**	**0.151**^{J}	*0.085*	<0.06	**0.087**^{J}	<0.11	**0.196**^{J}	<0.13	**0.151**^{J}	<0.06	<0.11	<0.1
	TNA Temp Wells (2003)																			
GP-1	2003TN01S13	12-10-03	<0.0858	<0.0858	<0.0715	<0.0572	<0.0243	<0.0572	<0.0572	<0.0715	<0.0715	<0.0858	<0.0858	<0.172	<0.0715	<0.114	<0.157	<0.143	<0.114	<0.129
	STS Monitoring Wells (2001)																			
B-3	CL-SB-3W010514	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
B-5	CL-SB-5W10514	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
B-6	CL-SB-6W010514	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
	2003TN01S58	12-12-03	<1.26	<1.26	<1.05	<0.84	<0.357	<0.84	<0.84	<1.05	<1.05	<1.26	<1.26	<2.52	<1.05	<1.68	<2.31	<2.10	<1.68	<1.89
	2003TN01D58 (Dup)	12-12-03	<0.30	<1.30	<1.09	<0.868	<0.369	<0.868	<0.868	<1.09	<1.09	<1.30	<1.30	<2.60	<1.09	<1.74	<2.39	<2.17	<1.74	<1.95
B-7	CL-SB-7D010514 (Dup)	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
B-7	CL-SB-7W010514	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
B-12	CL-SB-12B010514 (Blank)	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
B-12	CL-SB12W010514	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
B-16	CL-SB-16W010514	5-14-01	<0.1	<0.15	<0.09	<0.03	<0.02	<0.02	<0.03	<0.09	<0.02	<0.06	<0.03	<0.11	<0.06	<0.13	<0.12	<0.06	<0.11	<0.1
	2003TN01S50	12-12-03	<0.0654	<0.0654	<0.0545	<0.0436	<0.0185	<0.0436	<0.0436	<0.0545	<0.0545	<0.0654	<0.0654	<0.131	<0.0545	<0.0872	<0.12	<0.109	<0.0872	<0.0981
	TNA Monitoring Wells (2003)																			
MW-1	2003TN01S52	12-11-03	<0.0654	<0.0654	<0.0545	<0.0436	<0.0185	<0.0436	<0.0436	<0.0545	<0.0545	<0.0654	<0.0654	<0.131	<0.0545	<0.0872	<0.12	<0.109	<0.0872	<0.0981
MW-1 (Dup)	2003TN01D52	12-11-03	<0.0654	<0.0654	<0.0545	<0.0436	<0.0185	<0.0436	<0.0436	<0.0545	<0.0545	<0.0654	<0.0654	<0.131	<0.0545	<0.0872	**0.136**	**0.109**	<0.0872	<0.0981
MW-3	2003TN01S53	12-11-03	<0.0654	<0.0654	<0.0545	<0.0436	<0.0185	<0.0436	<0.0436	<0.0545	<0.0545	<0.0654	<0.0654	<0.131	<0.0545	**0.125**	**0.309**	**0.285**	<0.0872	<0.0981
	PAL		--	--	*600*	--	*0.02*	*0.02*	--	--	*0.02*	--	*80*	*80*	--	--	--	*8*	--	*50*
	ES		--	--	**3000**	--	**0.2**	**0.2**	--	--	**0.2**	--	**400**	**400**	--	--	--	**40**	--	**250**

Notes: Dup = Duplicate sample
PAL = Preventive Action Limit established under Wisconsin Administrative Code NR140.10 Table 1, October 2003, Exceedances are underlined, italic's.
ES = Enforcement standard established under Wisconsin Administrative Code NR140.10 Table 1, Ocober 2003, Exceedances are bold.
-- = Not Established

Summary of Soil Analytical Results - VOCs
Kenosha Brownfield Investigation - C&L Industrial Cleaners
STS Project No. 86415XD

Sample Location/ Sample Number	Depth (feet bgs)	n-Butyl benzene (mg/kg)	sec-Butyl benzene (mg/kg)	cis-1,2-Dichloro ethylene (mg/kg)	trans-1,2-Dichloro ethylene (mg/kg)	Ethyl benzene (mg/kg)	Isopropyl Ether (mg/kg)	Naphthalene (mg/kg)	Tetrachloro ethylene (mg/kg)	Toluene (mg/kg)	Trichloro ethylene (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	o-Xylene (mg/kg)	m- & p-Xylene (mg/kg)	Vinyl Chloride (mg/kg)
STS 2001 Soil Probes															
G-1 (CL-G1-SO3)	4-6'	<1.00	<1.00	<1.00	<1.00	<1.00	<1.22	<1.00	**132**^{A,C}	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
G-1 (CL-G1-SO4)	6-8'	<2.00	<2.00	<2.00	<2.00	<2.00	<2.41	<2.00	**322**^{A,C}	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
G-2 (CL-G2-SO3)	4-6'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.0944**^{C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
G-2 (CL-G2-SO4)	6-8'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.24	<0.025	**0.0481**^{C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
G-3 (CL-G3-SO3)	4-6'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
G-3 (CL-G3-SO4)	6-8'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
G-4 (CL-G4-SO3)	4-6'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
G-4 (CL-G4-SO4)	6-8'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
G-5 (CL-G5-SO1)	0-2'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	0.0334	**0.42**^{C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
G-5 (CL-G5-SO3)	4-6'	<0.025	0.0701	<0.025	<0.025	<0.025	<0.024	<0.025	**0.112**^{C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
STS 2001 Soil Borings															
B-1 (CL-B01-SO2)	2.5-4.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-1 (CL-B01-SO3)	5-7'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-2 (CL-B02-SO1)	0-2'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	**4.13**^{A,C}	<0.025	**0.0521**^{C}	<0.025	<0.025	<0.025	<0.025
B-2 (CL-B02-SO2)	2-4'	<0.025	<0.025	**0.485**^{C}	0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-3 (CL-B03-SO2)	2-4'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.025	**0.12**^{A,C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-3 (CL-B03-SO3)	5-7'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	0.0594	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-4 (CL-B04-SO2)	2.5-4.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-4 (CL-B04-SO4)	7.5-9.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-5 (CL-B05-SO1)	0-2'	0.174	0.121	<0.025	<0.025	<0.025	<0.022	<0.025	**0.327**^{C}	<0.025	<0.025	0.0452	<0.025	0.0341	<0.025
B-5 (CL-B05-SO2)	2.5-4.5'	0.319	0.166	<0.025	<0.025	<0.025	<0.023	0.0828	<0.025	<0.025	<0.025	0.064	<0.025	<0.025	<0.025
B-6 (CL-B06-S01)	0-2'	<0.025	<0.025	**0.361**^{C}	0.031	<0.025	0.255	<0.025	**0.595**^{C}	<0.025	**0.271**^{A,C}	<0.025	<0.025	<0.025	<0.025
B-6 (CL-B06-S02)	2.5-4.5'	<0.025	<0.025	**10.8**^{C}	**0.399**^{C}	0.065	<0.023	<0.025	**0.138**^{C}	0.0683	**0.0364**^{C}	<0.025	0.0341	0.0415	**0.221**^{A,C}
B-7 (CL-B07-S02)	2.5-4.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-9 (CL-B09-S03)	5-7'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	0.0342	<0.025	<0.025	<0.025
B-11 (CL-B11-S01)	0-2'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.025	**0.737**^{C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-12 (CL-B12-SO3)	5-7'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-15 (CL-B15-S03)	5-7'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.027	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-16 (CL-B16-S03)	5-7'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.027	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-17 (CL-B17-S02)	2.5-4.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.027	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-17 (CL-B17-S03)	5-7'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.027	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
TNA 2003 Soil Probes															
GP-1 (2003TN01S13)	11-12'	<0.025	<0.025	<0.025	<0.024	<0.025	<0.024	<0.025	**50**^{A,C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-5 (2003TN01S08)	11-12'	<0.025	<0.025	<0.025	<0.024	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-6 92003TN01S06)	9'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-7 (2003TN01S10)	10-12'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-8 (2003TN01S07)	10-12'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-9 (2003TN01S04)	8-9'	<0.025	<0.025	0.0448	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-10 (2003TN01S03)	8-9'	<0.025	<0.025	**0.0768**^{C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-11 (2003TN01S02)	9-10'	<0.025	<0.025	**1.0718**^{C}	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.504**^{A,C}	<0.025	<0.025	<0.025	<0.025
GP-12 (2003TN01S01)	9-10'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-13 (2003TN01S05)	11-12'	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
TNA 2003 Monitoring Wells															
MW-1 (2003TN01S16)	4-6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-1 (2003 TN01S17)	12-14	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-2 (2003TN01S18)	6-8	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-2 (2003TN01S19)	12-14	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-3 92003TN01S14)	6-8	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-3 (2003TN01S15)	12-14	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Non-Industrial RCL^{A}		--	--	156	313	156	6260	313	1.23	--	0.16	782	31300	3130	0.1456
Industrial RCL^{B}		--	--	--	--	--	--	--	5500	--	7.15	--	2,040,000	204,000	2.04
Groundwater Pathway RCL^{C}		--	--	0.055	0.098	2.9	--	0.4	0.0041	1.5	0.0037	2.8	4.1	4.1	0.0013

Notes:

VOCs = Volatile Organic Compounds.
RCL = Residual Contaminant Level.
-- = Not Established, human health criteria not available on USEPA web page.
^{A} = Exceedance of generic direct contact RCL for non industrial site calculated from USEPA web page using WDNR default values, on 9/2/04.
^{B} = Exceedance of generic direct contact RCL for industrial site calculated from USEPA web page using WDNR default values, on 9/2/04.
^{C} = Exceedance of generic RCL for soil to groundwater risk path calculated from USEPA web page using WDNR default values, on 9/2/04.
Note: Sample depth for TN & A probe samples were taken from the bore logs-not the TN & A produced tables.
Bold = Exceedances.
Standard font = Detected, no exceedances.
Grey font = Not detected at the detection limit shown.

Summary of Soil Analytical Results - Metals
Kenosha Brownfield Investigation - C&L Industrial Cleaners
STS Project No. 86415XD

Sample Location/Sample Number	Depth (feet bgs)	Total Antimony (mg/kg)	Total Arsenic (mg/kg)	Total Barium (mg/kg)	Total Cadmium (mg/kg)	Total Chromium (mg/kg)	Total Copper (mg/kg)	Total Lead (mg/kg)	Total Mercury (mg/kg)	Total Nickel (mg/kg)	Total Selenium (mg/kg)	Total Silver (mg/kg)
STS 2001 Soil Probes												
G-1 (CL-G1-SO3)	4-6'	<2.07	**1.24**[A]	6.91	0.219	9.81	21.1	5.88	<0.0487	11.7	<0.402	<0.122
G-1 (CL-G1-SO4)	6-8'	<2.05	**8.70**[A,B]	15.7	0.112	14.5	25.0	7.60	<0.0483	16.6	<0.398	<0.121
G-2 (CL-G2-SO3)	4-6'	<2.11	**9.00**[A,B]	49.0	0.249	16.2	26.4	13.6	<0.0498	33.5	1.02	<0.124
G-2 (CL-G2-SO4)	6-8'	<2.04	**2.93**[A,B]	5.91	0.103	4.21	8.38	4.34	<0.0481	6.79	<0.397	<0.12
G-3 (CL-G3-SO3)	4-6'	<1.99	**5.92**[A,B]	101	0.409	15.8	23.7	11.4	<0.0467	28.7	0.491	<0.117
G-3 (CL-G3-SO4)	6-8'	<1.88	**5.07**[A,B]	14.4	0.0632	12.1	12.7	5.80	<0.0443	14.0	<0.366	<0.111
G-4 (CL-G4-SO3)	4-6'	<2.00	**8.67**[A,B]	197	1.11	19.4	36.4	11.5	<0.0471	114	1.08	<0.118
G-4 (CL-G4-SO4)	6-8'	<2.08	**1.39**[A,B]	7.47	0.159	4.85	10.4	4.38	<0.0488	9.46	<0.403	<0.122
G-5 (CL-G5-SO1)	0-2'	<1.87	**3.98**[A,B]	31.5	0.507	13.3	113	38.2	0.0771	20.8	<0.363	0.363
G-5 (CL-G5-SO3)	4-6'	<2.04	**4.07**[A,B]	32.7	0.886	12.3	90.7	38.1	0.079	19.8	<0.395	<0.12
STS 2001 Soil Borings												
B-1 (CL-B01-SO2)	2.5-4.5'	<1.97	**2.60**[A,B]	38.9	0.151	12.6	7.25	4.92	0.0742	8.42	<0.382	<0.116
B-1 (CL-B01-SO3)	5-7'	<2.01	**3.85**[A,B]	12.8	0.272	7.62	7.27	4.07	<0.0473	11.6	<0.391	<0.118
B-2 (CL-B02-SO1)	0-2'	<2.00	**3.40**[A,B]	49.4	0.141	13.6	22.7	6.92	<0.0469	16.5	<0.387	<0.117
B-2 (CL-B02-SO2)	2-4'	<2.12	**6.10**[A,B]	86.9	0.96	14.8	18.6	**461**[A]	0.0561	15.3	1.03	<0.125
B-3 (CL-B03-SO2)	2-4'	<1.93	**2.51**[A,B]	34.9	0.204	11.8	20.4	32.1	0.059	8.75	0.522	<0.113
B-3 (CL-B03-SO3)	5-7'	<2.03	**3.56**[A,B]	22.0	0.0752	18.3	7.63	6.30	<0.0477	9.83	<0.394	<0.119
B-4 (CL-B04-SO2)	2.5-4.5'	<2.06	**3.33**[A,B]	64.5	0.339	14.5	14.8	20.5	0.0582	11.9	<0.4	<0.121
B-4 (CL-B04-SO4)	7.5-9.5'	<2.05	**1.40**[A]	3.98	0.277	3.89	13.0	4.24	<0.0481	6.14	<0.397	<0.12
B-5 (CL-B05-SO1)	0-2'	<1.88	**4.58**[A,B]	37.4	0.255	9.05	45.5	22.2	<0.0443	9.99	<0.366	<0.111
B-5 (CL-B05-SO2)	2.5-4.5'	<1.98	**7.30**[A,B]	66.7	0.256	12.3	18.0	9.91	<0.0466	17.8	<0.384	<0.116
B-6 (CL-B06-S01)	0-2'	<1.94	**3.28**[A,B]	25.9	0.137	9.01	38.6	8.13	<0.0456	9.17	0.433	<0.114
B-6 (CL-B06-S02)	2.5-4.5'	<1.94	**3.66**[A,B]	31.1	0.308	22.3	66.5	26.2	0.125	23.8	0.764	<0.114
B-7 (CL-B07-S02)	2.5-4.5'	<1.97	**5.06**[A,B]	50.8	0.22	6.96	6.79	7.77	<0.0463	10.2	0.544	<0.116
B-9 (CL-B09-S03)	5-7'	<2.05	**3.27**[A,B]	41.3	0.104	14.5	15.5	**71.7**[A]	<0.0482	12.7	<0.398	<0.12
B-11 (CL-B11-S01)	0-2'	<1.89	**4.11**[A,B]	20.4	0.211	15.1	34.3	20.9	<0.0444	17.2	<0.367	<0.111
B-12 (CL-B12-SO3)	5-7'	<1.91	**9.89**[A,B]	79.7	0.248	14.1	16.9	10.1	0.0529	22.3	<0.372	<0.113
B-15 (CL-B15-S03)	5-7'	<2.32	**2.02**[A,B]	69.7	0.559	12.1	19.1	8.09	0.0832	9.75	0.982	<0.136
B-16 (CL-B16-S03)	5-7'	<2.14	**1.14**[A]	31.8	0.0754	6.77	3.73	3.35	<0.0503	4.54	0.427	<0.126
B-17 (CL-B17-S02)	2.5-4.5'	<2.48	**2.22**[A,B]	57.5	0.321	9.39	10.4	10.2	0.0584	6.15	1.2	<0.146
B-17 (CL-B17-S03)	5-7'	<2.25	**1.67**[A,B]	67.4	0.265	9.38	8.20	5.58	0.0796	5.40	0.57	<0.133
TNA 2003 Data												
MW-1 (2003TN01S16)	4-6'	NT	NT	NT	NT	NT	NT	NT	NT	6.93	NT	NT
MW-1 (2003 TN01S17)	12-14'	NT	NT	NT	NT	NT	NT	NT	NT	8.08	NT	NT
MW-2 (2003TN01S18)	6-8'	NT	NT	NT	NT	NT	NT	NT	NT	15.1	NT	NT
MW-2 (2003TN01S19)	12-14'	NT	NT	NT	NT	NT	NT	NT	NT	17.9	NT	NT
MW-3 92003TN01S14)	6-8'	NT	NT	NT	NT	NT	NT	NT	NT	6.39	NT	NT
MW-3 (2003TN01S15)	12-14'	NT	NT	NT	NT	NT	NT	NT	NT	23.5	NT	NT
Non-Industrial RCL[A]		--	0.039[D]	1,100	8[D]	16,000[D]	--	50[D]	--	--	78.2	78.2
Industrial RCL[B]		--	1.6[D]	71,500	510[D]	NA	--	500[D]	--	--	5,110	5,110
GW Pathway RCL[C]		--	0.58	330	38	18,000	--	--	0.42	--	1	0.083

Notes:

NT = Not Tested -- - Not Established

[A] = Exceedance of generic direct contact RCL for non industrial site calculated from USEPA web page using WDNR default values on 9/2/04.

[B] = Exceedance of generic direct contact RCL for industrial site calculated from USEPA web page using WDNR default values on 9/2/04.

[C] = Exceedance of generic direct contact RCL for soil to groundwater pathway calculated from USEPA web page using WDNR default values on 9/2/04.

[D] = Wisc. Administrative Code NR 720.11, Table 2 direct contact RCLs, January 2001.

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Summary of Soil Analytical Results - PAHs
Kenosha Brownfield Investigation - C&L Industrial Cleaners
STS Project No. 86415XD

Sample Location/ Sample Number	Depth (feet bgs)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a) Anthracene (mg/kg)	Benzo(a) Pyrene (mg/kg)	Benzo(b) Fluoranthene (mg/kg)	Benzo(k) Fluoranthene (mg/kg)	Benzo(ghi) Perylene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd) Pyrene (mg/kg)	1-Methyl Naphthalene (mg/kg)	2-Methyl Naphthalene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
STS 2001 Soil Probes																			
G-1 (CL-G1-SO3)	4-6'	<0.0755	<0.0512	<0.0363	<0.0305	<0.028	<0.0134	<0.0146	<0.0122	<0.0244	<0.0171	<0.0317	<0.0426	<0.0207	<0.0353	<0.028	<0.0475	0.0667	<0.0378
G-1 (CL-G1-SO4)	6-8'	<0.00748	<0.00507	<0.0035	<0.00302	<0.00277	<0.00133	<0.00145	<0.00121	<0.00241	<0.00169	<0.00314	<0.00422	<0.00205	<0.0035	<0.00277	<0.0047	0.00456^J	<0.00374
G-2 (CL-G2-SO3)	4-6'	<0.00771	<0.00522	<0.00361	<0.00311	<0.00286	<0.00137	<0.00149	<0.00124	<0.00249	<0.00174	<0.00323	<0.00435	<0.00211	<0.00361	<0.00286	<0.00465	<0.00199	<0.00386
G-2 (CL-G2-SO4)	6-8'	<0.00745	<0.00505	<0.00349	<0.003	<0.00276	<0.00132	<0.00144	<0.0012	<0.0024	<0.00163	<0.00313	<0.00421	<0.00204	<0.00349	<0.00276	<0.00469	<0.00192	<0.00373
G-3 (CL-G3-SO3)	4-6'	<0.00724	<0.00491	<0.00339	<0.00292	<0.00269	<0.00129	<0.0014	<0.00117	<0.00234	<0.00164	<0.00304	<0.00409	<0.00199	<0.00339	<0.00269	<0.00456	<0.00187	<0.00362
G-3 (CL-G3-SO4)	6-8'	<0.00687	<0.00466	<0.00322	<0.00277	<0.00255	<0.00122	<0.00133	<0.00111	<0.00222	<0.00155	<0.00288	<0.00388	<0.00188	<0.00322	<0.00255	<0.00432	<0.00177	<0.00344
G-4 (CL-G4-SO3)	4-6'	<0.0073	<0.00495	<0.00342	<0.00294	<0.00271	<0.0013	<0.00141	<0.00118	<0.00236	<0.00165	<0.00306	<0.00412	<0.002	<0.00342	<0.00271	<0.00459	<0.00168	<0.00365
G-4 (CL-G4-SO4)	6-8'	<0.00757	<0.00513	<0.00354	<0.00305	<0.00281	<0.00134	<0.00147	<0.00122	<0.00244	<0.00171	<0.00317	<0.00427	<0.00208	<0.00354	<0.00281	<0.00476	<0.00195	<0.00379
G-5 (CL-G5-SO1)	0-2'	<0.0683	<0.0463	0.0628	**0.464^A**	**0.677^A**	**1.08^A**	0.322	0.805	0.446	**0.0441^A**	0.568	<0.0382	**0.848^A**	<0.0319	<0.0253	<0.043	0.194	0.637
G-5 (CL-G5-SO3)	4-6'	<0.0743	<0.0503	<0.0347	**0.108^A**	**0.172^A**	**0.325^A**	0.0965	0.326	0.11	**0.402^{A,B}**	0.125	<0.0419	**0.327^A**	<0.0347	<0.0275	<0.0467	0.0423	0.157
STS 2001 Soil Borings																			
B-1 (CL-B01-SO2)	2.5-4.5'	<0.00718	<0.00487	<0.00338	0.00502^J	0.0046^J	0.0262	<0.00139	0.00505	0.00684^J	0.00783	0.0221	<0.00408	0.00592^J	<0.00338	<0.00267	0.00461^J	0.0129	0.0166
B-1 (CL-B01-SO3)	5-7'	<0.00734	<0.00497	<0.00343	<0.00246	<0.00272	<0.0013	<0.00142	<0.00118	<0.00237	<0.00166	<0.00308	<0.00414	<0.00201	<0.00343	<0.00272	<0.00462	<0.00189	<0.00367
B-2 (CL-B02-SO1)	0-2'	<0.00728	<0.00493	<0.0034	<0.00293	<0.0027	0.0129	0.0194	0.0604	<0.00235	<0.00164	0.0553^J	<0.00411	0.011	<0.0034	<0.0027	<0.00453	0.0158	0.00798^J
B-2 (CL-B02-SO2)	2-4'	<0.0773	<0.0524	<0.0362	<0.0312	<0.0287	0.0584	0.0207	0.0192	0.0423	**0.0279^A**	0.0374	<0.0436	0.0276	<0.0362	<0.0287	<0.0486	0.0608	0.063
B-3 (CL-B03-SO2)	2-4'	0.0136^J	<0.00476	0.00632^J	**0.147^A**	**0.265^A**	**0.362^A**	0.138	0.26	0.141	<0.00159	0.164	<0.00397	**0.278^A**	0.00687^J	0.00937	0.00747^J	0.00533^J	0.209
B-3 (CL-B03-SO3)	5-7'	<0.0074	<0.00501	<0.00346	<0.00293	<0.00274	<0.00131	<0.00143	<0.00119	<0.00239	<0.00167	0.00348^J	<0.00416	<0.00203	<0.00346	<0.00274	<0.00465	<0.00191	<0.0037
B-4 (CL-B04-SO2)	2.5-4.5'	<0.0752	<0.0509	0.13	**0.762^A**	**0.65^{A,B}**	**0.629^A**	0.379	0.253	0.857	**0.0305^A**	1.52	<0.0424	**0.285^A**	0.0632	0.0314	<0.0473	0.469	2.29
B-4 (CL-B04-SO4)	7.5-9.5'	<0.0746	<0.0505	<0.0349	<0.0301	<0.0277	<0.0132	<0.0144	<0.012	<0.0241	<0.0168	<0.0313	<0.0421	<0.0205	<0.0349	<0.0277	<0.0469	<0.0183	<0.0373
B-5 (CL-B05-SO1)	0-2'	<0.00687	<0.00466	<0.00322	0.0122	**0.0142^A**	0.0312	0.00965	0.00831	0.0106	**0.0367^A**	0.0366	<0.00388	0.0171	<0.00322	<0.00255	<0.00432	0.0162	0.0314
B-5 (CL-B05-SO2)	2.5-4.5'	<0.00722	<0.00489	0.0111	0.0115	0.00808^J	0.0136	0.0126	0.012	0.0105	**0.0253^A**	0.032	<0.00407	0.00853	<0.00358	0.00303^J	<0.00454	0.035	0.0315
B-6 (CL-B06-S01)	0-2'	<0.00708	<0.00478	<0.0033	0.0178	**0.0371^A**	0.0429	0.0253	0.0228	0.0191	**0.0708^A**	0.0281	<0.00399	0.0296	0.00539^J	0.00321^J	<0.00444	0.0179	0.0413
B-6 (CL-B06-S02)	2.5-4.5'	<0.0707	<0.0479	<0.0331	<0.0285	**0.027^A**	<0.0125	<0.0137	<0.0114	0.0335	<0.016	0.0425	<0.0399	0.029	<0.0331	0.1	<0.0445	0.0566	0.0675
B-7 (CL-B07-S02)	2.5-4.5'	<0.00718	<0.00486	<0.00336	0.00389^J	0.00363^J	0.00704	<0.00139	0.00242^J	0.00469^J	<0.00162	0.0177	<0.00405	0.00731	<0.00336	<0.00266	<0.00451	0.0116	0.0105^J
B-9 (CL-B09-S03)	5-7'	<0.0747	<0.0506	0.173	**0.242^A**	**0.249^A**	**0.292^A**	0.131	0.181	0.2	**0.128^A**	0.801	<0.0422	**0.198^A**	<0.0349	<0.0277	<0.047	0.665	0.199
B-11 (CL-B11-S01)	0-2'	<0.0689	<0.0467	<0.0322	<0.0278	**0.0439^A**	0.0753	0.0356	0.0294	0.0333	<0.0156	0.0587	<0.0389	0.0429	<0.0322	<0.0256	<0.0433	0.0531	0.0637
B-12 (CL-B12-S03)	5-7'	<0.00698	<0.00473	<0.00327	<0.00282	<0.00259	<0.00124	<0.00135	<0.00113	<0.00225	<0.00158	<0.00293	<0.00394	<0.00191	<0.00327	<0.00259	<0.00439	<0.0018	<0.00349
B-15 (CL-B15-S03)	5-7'	<0.00846	<0.00573	<0.00396	<0.00341	<0.00314	<0.0015	<0.00164	<0.00136	<0.00273	<0.00191	0.0057^J	<0.00477	<0.00232	<0.00396	<0.00314	<0.00532	0.0117	0.00714^J
B-16 (CL-B16-S03)	5-7'	<0.00779	<0.00528	<0.00364	<0.00314	<0.00289	0.00461	0.0029^J	<0.00128	0.00307^J	<0.00176	0.0079^J	<0.0044	0.00489^J	<0.00364	<0.00289	<0.0049	0.00882	0.00745^J
B-17 (CL-B17-S02)	2.5-4.5'	<0.00905	<0.00613	<0.00423	<0.00365	0.00413^J	0.00778	0.0027^J	0.00323^J	<0.00292	<0.00204	0.0171	<0.00511	0.0122	0.00426^J	0.00667^J	<0.00569	0.0165	0.0147
B-17 (CL-B17-S03)	5-7'	<0.00822	<0.00557	<0.00385	<0.00332	<0.00305	<0.00146	<0.00159	<0.00133	<0.00265	<0.00186	<0.00345	<0.00464	<0.00225	<0.00385	<0.00305	<0.00517	<0.00212	<0.00411
TNA 2003 Data																			
GP-8 (2003TN01S07)	10-12'	<0.00586	<0.00623	<0.00125	<0.00511	<0.00257	<0.00262	0.00362	<0.00262	<0.00287	<0.00175	<0.00125	<0.00249	<0.002	<0.00436	<0.00511	<0.002	<0.00257	<0.00125
GP-13 (2003TN01S05)	11-12'	<0.00581	<0.00616	<0.00124	<0.00507	<0.00284	<0.0026	<0.00358	<0.0026	<0.00284	<0.00173	<0.00124	<0.00247	<0.00198	<0.00433	<0.00507	<0.00198	<0.00284	<0.00124
MW-2 (2003TN01S18)	6-8'	<0.00536	<0.00753	<0.00114	<0.00468	<0.00262	<0.00239	<0.00331	<0.00239	<0.00262	<0.0016	<0.0014	<0.00228	<0.00182	0.00399	0.00468	<0.00182	<0.00262	<0.00114
Non-Industrial RCL^A		900	18	5,000	0.088	0.0088	0.088	0.88	1.8	8.8	0.0088	600	600	0.088	1,100	600	20	18	500
Industrial RCL^B		60,000	360	300,000	3.9	0.39	3.9	39	39	390	0.39	40,000	40,000	3.9	70,000	40,000	110	390	30,000
GW Pathway RCL^C		38	0.7	3,000	17	48	360	870	6,800	37	38	500	100	680	23	20	0.4	1.8	8,700

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

^{A} = Exceedance of generic direct contact RCL for non-industrial site per the "Soil Cleanup Levels for PAHs, Interim Guidance", WDNR Publication RR-519-97, April 1997.

^{B} = Exceedance of generic direct for industrial site per the "Soil Cleanup Levels for PAHs, Interim Guidance", WDNR Publication RR-519-97, April 1997.

^{C} = Exceedance of generic soil to groundwater pathway RCL per the "Soil Cleanup Levels for PAHs, Interim Guidance", WDNR Publication RR-519-97, April, 1997.

^{J} = Estimated concentration below laboratory quantitation level.

RCL = Residual Contaminant Level

-- = Not Established

STS CONSULTANTS

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web www.stsconsultants.com

rec'd 7/29/04 MW

July 22, 2004

Ms. Sharon Krewson
City of Kenosha - Department of City Development
625 - 52nd Street, Room 308
Kenosha, WI 53140

Re: Proposal for NR 716 Site Investigation at C&L Industrial Cleaners Property at 8927 Sheridan Road, in Kenosha, Wisconsin -- STS Proposal No. 514035PP

Dear Ms. Krewson:

STS Consultants, Ltd. (STS) is pleased to submit this proposal to provide a scope of work for Supplemental Site Investigation, at the above-referenced property. A cost estimate for our services is provided. Please sign one copy of this letter and return it to our office as authorization to proceed. A signed copy will signify acceptance of the proposal.

We look forward to working with you on this project. If you have any questions with regard to the information contained in this proposal, or if we can be of any further service to you, please feel free to contact us at (414) 359-3030.

Sincerely,

STS CONSULTANTS LTD.

Lanette Altenbach

Lanette L. Altenbach, PG, C.P.G.
Senior Hydrogeologist

Thomas Kroeger (lla)

Thomas W. Kroeger, P.H.
Principal Hydrologist

ACCEPTED BY:

SIGNATURE:

TITLE: ____________________

FIRM: ____________________

DATE: ____________________

STS Proposal No. 514035PP

Attachments
NR 716 Site Investigation Proposal
Terms & Conditions(Negotiated)
Schedule of Fees(N73)

Advised Sharon that the initial workplan is sound, they may need to do more (i.e. more piezometers ...etc) and that they need to incorporate TRC's data so there is no duplication of work.

PROPOSAL FOR AN NR 716 SITE INVESTIGATION
C & L INDUSTRIAL CLEANERS
KENOSHA, WISCONSIN

PROJECT OVERVIEW

This proposal has been prepared by STS Consultants, Ltd. (STS) at the request of Ms. Sharon Krewson of the City of Kenosha - Department of City Development. In this proposal, STS presents a scope of work, cost estimate and project schedule to perform an NR 716 Site Investigation at C&L Industrial Cleaners located at 8927 Sheridan Road in Kenosha, Wisconsin. We understand that the City of Kenosha is has taken title to this property as part of a brownfields redevelopment plan and that the state of Wisconsin has awarded the City of Kenosha a Site Assessment Grant (SAG) to assist in the funding for additional investigation at the site.

Summary of Prior Work

A Phase II Environmental Site Assessment (ESA) conducted by STS at the site identified contamination by chlorinated solvents, primarily perchloroethene (PCE) and its breakdown compounds, in and around the main building on the site and at other areas of the property to the north, south and east of the building. Contaminant levels of PCE detected in the groundwater from a soil probe boring performed inside the building was at a level that may be indicative of free product in the subsurface. Polycyclic aromatic hydrocarbons (PAHs) were also identified in shallow soils above residential residual contaminant levels in the area to the south of the main building and to the south of the storage shed located east of the main building. Nickel was identified in the sediments in the pits inside the building and in the groundwater above Wisconsin groundwater quality standards in three wells at the site.

The site buildings were demolished in 2003 under a SAG previously awarded to the City of Kenosha by the Wisconsin Department of Natural Resources. Prior to demolition, an immediate removal was performed under US EPA's START program. The START program personnel mobilized to remove sludges from the pits inside the building. The pits were emptied, cleaned and the waste materials were disposed.

After demolition, additional assessment was conducted by TN & Associates (TN&A) under a US EPA Brownfields program. The additional assessment included advancing 14 soil probes and installing three groundwater monitoring wells for the collection of soil and groundwater samples. This work was documented in a draft report prepared by TN&A dated April 2004. The TN&A report includes separate figures for the TN&A assessment results and the prior STS Phase II ESA results. In verbal comments to TN&A, the WDNR has asked TN&A to provide a figure and a discussion of the combined results. The draft TN&A report recommended additional investigation at the site.

SCOPE OF WORK

STS has reviewed both the STS Phase II ESA and TN&A data and has identified six areas which require further evaluation. These areas are:

- **Area 1 - The westernmost portion of the site (the Sheridan Road-side of the former building) near probe location G-1.** Probe G-1 had been completed adjacent to a small pit which appears to have had its own sanitary lateral to the street. Concentrations of PCE were high in the groundwater collected from a temporary well in this soil probe. TN&A advanced 3 probes to the east of G-1, but only sampled one of the three probes.
- **Area 2 - The area on the south side of the building by monitoring well B-3.** This monitoring well is just east of a sanitary catch basin that is/was connected to the main collection pit inside the building. This area may be a source area based on PCE concentrations in soil, in groundwater samples from B-3 and the configuration of the drain pits in the building, as revealed by the START cleanup work.
- **Area 3 - The north side of the property by STS boring B-2.** PCE and its breakdown products were identified in shallow soils at B-2. TN&A advanced two soil probes (southwest and southeast of B-2) and installed a monitoring well east of B-2 all of which were approximately 20 feet distant from B-2. However, only one soil sample per probe/boring was collected by TN&A and the depth the soil samples which were collected were from a depth greater than four feet (below the zone considered the direct contact zone for soil). The lack of surface soil samples prevents an assessment of the direct contact risk and the extent of a potential source area at the B-2 location.
- **Area 4 – The area east of the shed that is located east of the main building, and near existing monitoring wells B-5 and B-6.** PCE and/or its breakdown products were detected in the surficial soils and groundwater at both well locations. Drum storage occurred in this area and the extent of soil impacts should be defined.

- **Area 5 - An area near the south property line, near the location of Test Pit 5, approximately 200 feet east of the buildings.** PCE and its breakdown products were identified in a soil sample collected from 4 to 6 feet below ground surface. The extent of soil impacts should be defined.
- **Area 6 - An area approximately 500 feet east of the buildings, along the south property line, near boring B-11.** PCE and its breakdown products were detected in surficial soils at this boring. The extent of soil impacts should be defined.

The proposed scope of work is comprised of 5 elements. These elements are:

- Preparing a work plan;
- Conducting the field work;
- Evaluating the Data;
- Preparing the NR 716 Report; and
- Disposing of the Investigative Waste.

Work Plan

STS will combine and compare the Phase II ESA data collected by STS and the TN&A data collected in 2003 into one data table and soil and groundwater figures to further depict the current conditions at the site. This information will be included in the preparation of an update to the sampling and analysis plan prepared for previous work at the site by STS. Final probe and well sampling locations will be selected following an analysis of the combined data. The new work plan will meet the requirements of NR 716 and will be submitted to the WDNR prior to the start of the activities. A review of the work plan by WDNR will not be requested and the fee for such review is not included in this scope of work.

Field Services

Based on review of the existing data, STS estimates that 30 soil probes, 3 monitoring wells and 1 piezometer will be sufficient to characterize the site. Six of the soil probe borings will be converted to temporary monitoring wells. The results of the groundwater samples from the temporary wells will be used to determine the location for the planned additional permanent monitoring wells. The piezometer will be installed adjacent to one of the water table wells for calculation of vertical groundwater gradients.

STS will provide labor and equipment for the collection of soil and groundwater samples from the above described locations. STS will subcontract with a soil probe contractor for the advancement of the soil probes and a drilling firm for the installation of the monitoring wells and piezometer. Two soil samples will be collected from each of the proposed well/probe locations using the procedures and sample selection criteria described in the work plan STS will update for this site.

One groundwater sample will be collected from the temporary wells and existing monitoring wells shortly after the temporary wells are constructed. The temporary wells will be completed to remain at the site for a second sampling event after the proposed additional monitoring wells are installed.

The monitoring wells and piezometer will be located after the results of the first round of groundwater samples has been obtained from the laboratory. After well installation, the wells will be developed and permitted to equilibrate approximately two weeks prior to sampling. Groundwater samples will then be collected from the temporary wells, the existing wells and the newly installed wells, after the new wells have equilibrated.

Soil and groundwater samples will be analyzed for volatile organic compounds by EPA Method SW-846 8260B. Select soil samples will be analyzed for PAHs by EPA method 8270. Approximately 13 soil samples will be collected for total organic carbon content to aid in the determination of site specific residual contaminant levels. Groundwater samples collected from wells in which nickel was previously detected will also be sampled for nickel.

Data Evaluation and Report Preparation

The laboratory analytical results will be reviewed and tabulated. The new data will be compared to applicable state standards. Site specific residual contaminant levels will be calculated from a US EPA web site using approved WDNR default values and site specific measured total organic carbon content values. Cross sections of the subsurface using the existing and the new data will be completed to aid in the evaluation of the soil and groundwater impacted areas.

A Site Investigation Report will be prepared that will describe the investigation activities and the results of the laboratory analysis. The report will also discuss the new data and the previously collected data to support conclusions and recommendations, if necessary for further work.

Investigative Waste Disposal

Investigative waste consisting of soil from the monitoring well soil borings, ground water from developing the wells and purged groundwater collected prior to well sampling. We have assumed that these wastes will be able to be managed as a non-hazardous solid waste. As such we have included the cost for both soil and groundwater waste characterization samples and assumed a cost for disposal of four drums of soil and three drums of groundwater.

PROJECT SCHEDULE

Preparation of the work plan update can begin upon receipt of written authorization. After completion of the work plan, the field work can be scheduled. The soil probe and temporary wells will require approximately 4 days to complete. The installation of the monitoring wells and piezometer are anticipated to require 3 working days. Groundwater sampling may require 1 to 2 working days per sample event. Laboratory turnaround time is approximately 10 working days. Data reduction and evaluation is anticipated to require 15 working days. The site investigation report would be provided to the City approximately 3 weeks after completion of the data reduction. The proposed schedule is depicted on the table below.

Task	**Elapsed Time from written authorization**
Prepare Site Investigation Work Plan	2 weeks
Advance Soil probes	4 weeks
Soil and First round groundwater sample results	6 weeks
Install Monitoring wells and Piezometers	7 weeks
Soil Sample Analysis	9 weeks
Sample temporary, existing and new wells	10 weeks
Laboratory analysis of groundwater samples	12 weeks
Data Reduction	15 weeks
Report preparation	18 weeks

PROJECT FEES

Based upon the above-outlined scope of work, we propose to complete the above described scope of work for a not-to-exceed fee of $49,000.00.

The fee estimate is based on the following:

NR 716 Site Investigation	
Work Plan	$ 3,975
Soil Probe Installation	
Labor & Equipment	$ 5,750
Soil Probe Contractor	$ 4,600
Laboratory Analysis	$ 6,650
Groundwater Sampling (Temporary & Existing Wells)	
Includes labor, equipment, laboratory fees	$ 2,725
Install Monitoring Wells, Sample Groundwater	
Labor and Equipment	$ 6,100
Drilling Subcontractor	$ 4,325
Laboratory Analysis (soil and groundwater)	$ 2,175
Investigative Waste Disposal (includes analytical fees)	$ 2,700
Data Evaluation and Report Preparation	$10,000
Investigation Total	$49,000

Proposed changes, if any, to the scope of work following commencement of STS' services will be discussed with you and amendments made as described in the attached General Conditions of Service. For additional services rendered, if any, but not included in the scope of work described in this proposal, invoice amounts will be based on the actual units used at the rates shown on the attached fee schedule, and will also include travel costs, and other expenses incurred by STS in rendering the services described in this proposal. After acceptance of this proposal, adjustments, if any, to the fee schedule will be subject to the General Conditions of Service.

Terms and Conditions

This Additional Phase II Site Investigation, as applicable, will be completed under the General Conditions and Fee Schedule which are attached to this proposal and have approval by the Kenosha City Attorney Mr. James Conway. The General Conditions and Fee Schedule are expressly incorporated into, and are an integral part of, our contract for professional services. Please indicate your acceptance of this proposal by having an authorized representative execute one copy and return it to this office. If we are given verbal or written notification to proceed, without first receiving a signed copy of the proposal, it will be mutually understood that both of us will, nonetheless, be contractually bound by the proposal, even in the absence of written acceptance by you. In any event, a signed copy of this proposal will need to be returned to STS before a written report can be submitted.

Your acceptance of our proposal confirms that the terms and conditions are understood, including payment to STS Consultants, Ltd. upon receipt of the invoice, unless specifically arranged otherwise in writing. Of course, should you wish to discuss the terms, conditions, and provisions of our proposal, we would be pleased to do so at your convenience.

In the performance of an ESA, it must be recognized that latent underground pollution of a non-hazardous nature may be discovered. The discovery may require the Owner or Tenant under Federal and State regulations to undertake remedial measures. STS considers the responsibility for reporting of any results to appropriate State and/or Federal agencies and subsequent clean-up measures to rest with the Owner and/or Tenant. STS will not report the results of our assessment to parties other than those to which we have contracted, unless, in our opinion, there is an acutely dangerous public health condition or safety risk. Project information will not be released to other parties unless a written request to do so is provided by you or your representative.

STS CONSULTANTS, LTD.
GENERAL CONDITIONS OF SERVICE

These General Conditions of Service, including any Supplemental Conditions of Service which are or may become applicable to the services described in STS' Proposal, are incorporated by reference into the foregoing Proposal and shall also be incorporated by reference into any Agreement under which services are to be performed by STS for the Client. No agreement or understanding, oral or written, which in any way modifies or waives these General Conditions of Service shall be binding on STS (whether contained in the Client's purchase forms or otherwise) unless hereafter made in writing and executed by STS' authorized representative.

SECTION 1: SCOPE OF WORK

a. The scope of work and the time schedules defined in the Proposal are based on the information provided by the Client and shall be subject to the provisions of this agreement. If this information is incomplete or inaccurate, or if site conditions are encountered which materially vary from those indicated by the Client, or if the Client directs STS to change the original scope of work established by the Proposal, a written amendment to the Agreement equitably adjusting the costs, performance time and/or terms and conditions thereunder, shall be executed by the Client and STS as soon as practicable. STS, at its discretion, may suspend performance of its services until such an Amendment has been executed and, if such an Amendment is not agreed to within a reasonable time, STS may terminate this Agreement. In the event this Agreement is terminated pursuant to this Section, the Client shall pay STS for all services performed prior to termination and termination expenses as set forth in Section 15c of these General Conditions of Service.

SECTION 2: BILLINGS AND PAYMENTS

a. Payments for services and reimbursable expenses will be made on the basis set forth in the attached proposal. STS shall periodically submit invoices for services performed and expenses incurred and not previously billed. Payment is due upon receipt. For all amounts unpaid after 30 days from the invoice date, as set forth on STS' invoice form, the Client agrees to pay a finance charge of one and one-half percent (1-1/2%) per month, eighteen percent (18%) annually. The fees described in this agreement may be adjusted annually on the anniversary date of the effective date of this agreement.

b. The Client shall provide STS with a clear written statement within fifteen (15) days after receipt of the invoice of any objections to the invoice or any portion or element thereof. Failure to provide such a written statement shall constitute a waiver of any such objections and acceptance of the invoice as submitted.

c. The Client's obligation to pay for the services performed by STS under this Agreement shall not be reduced or in any way impaired by or because of the Client's inability to obtain financing, zoning, approval of governmental or regulatory agencies, or any other cause, reason, or contingency. No deduction shall be made from any invoice on account of penalty or liquidated damages nor will any other sums be withheld or set off from payments to STS. Client further agrees to pay STS any and all expenses incurred in recovering any delinquent amounts due, including, but not limited to reasonable attorney's fees arbitration or other dispute resolution costs and all court costs.

d. If any subpoena or court order is served upon STS and/or any of its staff, subconsultants or subcontractors requiring presentation of documents or the appearance of STS' staff, subconsultants or subcontractors at a trial, deposition, or for other discovery purposes arising out of STS' services performed under this Agreement, Client will pay STS' fees (if any) applicable to STS' compliance with the subpoena or court order. Fees will be based on actual units used at the standard rates in effect at time of service upon STS of the subpoena or court order. Billings shall include time and expenses incurred gathering, organizing, duplicating documents, preparing to give testimony, travel and testifying in deposition or trial.

SECTION 3: RIGHT OF ACCESS

a. If services to be provided under this Agreement require the agents, employees, or contractors of STS to enter onto the Project site, Client shall provide right-of-access to the site to STS, its employees, agents and contractors, to conduct the planned field observations or services.

b. If the scope of services includes, or is amended to include, the performance of exploratory borings or test pit excavations, Client will furnish to STS all diagrams, and other information in its possession or reasonably attainable by Client indicating the location and boundaries of the site and subsurface structures (pipes, tanks, cables, sewers, other utilities, etc.) in such detail as to permit identifying, in the field, boring/test pit locations which will avoid interferences with any subsurface structures. In the absence of negligence, STS shall not be liable for damages to subsurface structures or injury or loss arising from damage to subsurface structures, the locations of which are not indicated or are incorrectly indicated by the information provided by the Client.

c. STS reserves the right to deviate a reasonable distance from prescribed or selected exploratory boring or test pit locations.

d. STS shall take reasonable precautions to minimize damage to the site due to its operations, but STS has not included in its fee, and is not responsible for, the cost of restoration for any damage resulting from its operations. At the Client's request and for additional fee, STS will, to the extent reasonably practicable, restore the site to conditions substantially similar to those existing prior to STS' operations.

SECTION 4: SAFETY

a. It is understood and agreed that, with respect to Project site health and safety, STS is responsible solely for the safe performance by its field personnel of their activities in performance of the required services. It is expressly agreed that STS' professional services hereunder do not involve any responsibility for the protection and safety of persons on and about the Project nor is STS to review the adequacy of job safety on the Project. It is further understood and agreed, and not in limitation of the foregoing, that STS shall not be in charge of, and shall have no control or responsibility over any aspect of the erection, construction or use of any scaffolds, hoists, cranes, stays, ladders, supports or other similar mechanical contrivances or safety devices as defined and interpreted under any structural work act or other statute, regulation or ordinance relating in any way to Project safety.

b. Unless otherwise specifically provided in this Agreement, Client shall provide, at its expense, facilities and labor necessary to afford STS field personnel access to sampling, testing, or observation locations in conformance with federal, state, and local laws, ordinances and regulations specifically, including, but not limited to regulations set forth in OSHA 29 CFR 1926.

c. If, in STS' opinion, its field personnel are unable to access required locations and perform the required services in conformance with Federal, state, and local laws, ordinances and regulations due to Project site conditions or operations of other parties present on the Project site, STS may, at its discretion, suspend its services until such conditions or operations are brought into conformance with applicable laws, ordinances and regulations. If, within a reasonable time, operations or conditions are not in conformance with applicable laws, ordinances, and regulations, STS may, at its discretion, terminate this Agreement. In the event that the Agreement is terminated pursuant to this Section, the Client shall pay STS for services and termination expenses as set forth in Section 15 of this Agreement.

d. Current regulations promulgated by the Occupational Safety and Health Administration (OSHA) require that a "competent person" conduct inspections of excavations and review any supporting system if workers are to enter the excavations. See OSHA 29 CFR Part 1926 (Subpart P). Under the scope of work incorporated in this Agreement, STS does not provide and has not assumed any duties of inspection and/or monitoring of excavations required of the "competent person" under OSHA 29 CFR Part 1926 (Subpart P). STS has neither been assigned nor assumed the authority required of the "competent person" under OSHA 29 CFR Part 1926 (Subpart P).

SECTION 5: SAMPLES

a. Unless otherwise specifically provided in this Agreement or amendments thereto, STS reserves the right to discard samples immediately after testing. Upon request, the samples will be shipped, (shipping charges collected) or stored at the rate indicated in the fee schedule attached.

SECTION 6: REPORTS AND OWNERSHIP OF DOCUMENTS

a. STS shall furnish up to six (6) copies of each report to Client. Additional copies shall be furnished at the rates specified in the fee schedule. With the exception of STS reports to Client, all documents, including original boring logs, field data, field notes, laboratory test data, calculations and estimates are and remain the property of STS. Client agrees that all reports and other work product furnished to the Client not paid for in full will be returned upon demand and will not be used for any purpose, including, but not limited to design, construction, permits or licensing.

SECTION 7: STANDARD OF CARE

a. STS represents that it will perform its services under this Agreement in conformance with the care and skill ordinarily exercised by reputable members of the professional engineering community practicing under similar conditions at the same time in the same or similar locality.

b. NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, AT COMMON LAW OR CREATED BY STATUTE, IS EXTENDED, MADE, OR INTENDED BY THE RENDITION OF CONSULTING SERVICES OR BY FURNISHING ORAL OR WRITTEN REPORTS OF THE FINDINGS MADE.

c. Any exploration, testing, surveys and analysis associated with the work will be performed by STS for the Client's sole use to fulfill the purpose of this Agreement and STS is not responsible for interpretation by others of the information developed. The Client recognizes that subsurface conditions beneath the Project site may vary from those encountered in borings, surveys or explorations and the information and recommendations developed by STS are based solely on the information available.

d. STS is not responsible for supervising, directing, controlling or otherwise being in charge of the construction activities at the Project site; or supervising, directing, controlling or otherwise being in charge of the actual work of the contractor, its subcontractors, or other materialmen or service providers not engaged by STS.

SECTION 8: HAZARDOUS SUBSTANCES

a. Upon entering into this Agreement, the Client shall notify STS of all such hazardous substances which it knows or which it reasonably suspects are or may be present at or contiguous to the Project site or which may otherwise affect the services to be provided. Thereafter, such notification to STS shall be required as soon as practicable after the Client discovers either the presence of hazardous substances which were not previously disclosed, increased concentrations of previously disclosed hazardous substances, or facts or information which cause the Client to reasonably suspect the presence of any such hazardous substances. Hazardous substances shall include, but not be limited to, any substance which poses or may pose a present or potential hazard to human health or the environment whether contained in a product, material, by-product, waste or sample and whether it exists in a solid, liquid, semi-solid or gaseous form.

b. If all or any part of the scope of work is to be performed in the general vicinity of a facility or in an area where asbestos, dust, fumes, gas, noise, vibrations or other particulate or nonparticulate matter is in the atmosphere where it raises a potential health hazard or nuisance to those working in the area of such conditions, Client shall immediately notify STS of such conditions, potential health hazard or nuisance which it knows, should know or reasonably suspects exists and thereafter STS is authorized by the Client to take all reasonable measures STS deems necessary to protect its employees against such possible health hazards or nuisance. The reasonable direct cost of such measures shall be borne by the Client.

c. Following any disclosure as set forth in the preceding paragraphs, or if any hazardous substances or conditions are discovered or reasonably suspected by STS after its services are undertaken, STS may, at its discretion, suspend its services until reasonable measures have been taken at the Client's expense to protect STS' employees from such hazardous substances or conditions. Whether or not STS suspends its services in whole or in part, the Client and STS agree that the scope of services, terms, and conditions, schedule and the estimated fee or budget shall be adjusted in accordance with the disclosed information or condition, or STS may, at its discretion, terminate the Agreement. In the event that this Agreement is terminated pursuant to this Section, the Client shall pay STS for all services rendered prior to termination and all termination expenses as set forth in Section 15 of these General Conditions of Service.

d. In the event that services under this Agreement may involve or relate to hazardous substances, or constituents, including hazardous waste (as defined by federal, state or local statutes, regulations or ordinances), whether or not involvement or relationship was contemplated at the time this Agreement was made or when services by STS began under this Agreement, the following conditions shall also be incorporated into the Agreement and be made applicable thereto:

d.1. In the event that samples collected by or received by STS on behalf of the Client contain hazardous substances or constituents, including hazardous waste, STS will, after completion of testing and, at Client's expense, (1) return such samples to Client, or (2) upon written request and using a manifest signed by the Client as generator, release such samples to a carrier selected by the Client to be transported to a location selected by the Client for final disposal. The Client agrees to pay all costs associated with the storage, transport, and disposal of samples. The Client recognizes and agrees that STS is acting as a bailee and at no time assumes title to said samples or substances.

d.2. All laboratory and field equipment contaminated in performing services under this Agreement which cannot be reasonably decontaminated shall become the property and responsibility of the Client. All such equipment shall be delivered to the Client or disposed of in a manner similar to that indicated for hazardous samples above. The Client agrees to pay the fair market value of any such equipment which cannot reasonably be decontaminated and all other costs associated with the storage, transport and disposal of such equipment.

SECTION 9: CONSTRUCTION MONITORING SERVICES

a. "Construction Monitoring Services" is defined as services, furnished by STS to the Client, which are performed for the purpose of evaluating and/or documenting general conformance of construction operations or completed work with Project specifications, plans, and/or specific reports of the Project. Such services may include taking of tests or collecting samples of natural or manmade materials at various locations on a project site, and making visual observations related to earthwork, foundations, and/or materials. If the services to be provided by STS under this agreement include or are amended to include Construction Monitoring Services, the provisions of this Section 9 shall be an integral part of this agreement and applicable thereto.

b. The presence of STS field personnel will be for the purpose of providing the client with a professional service based on observations and testing of the work which is performed by a contractor, subcontractor, or other materialmen or service provider. Such services will only be those specifically requested by the Client and agreed to by STS. Discrepancies between construction operations or completed work and project requirements which are noted by STS field personnel will be referred to the Client, or the Client's representative, as designated prior to STS' involvement in the project.

c. It is understood and agreed by the Client that the observation and testing of natural and/or man made materials by STS in no way implies a guarantee or warranty of the work of the contractor, subcontractor, or other materialmen or service providers, and the services rendered by STS will in no way excuse such contractor, subcontractor or other materialmen or service providers from liability in the event of subsequently discovered defects, omissions, errors or other deficiencies in their work. The presence or absence of STS on the Project site will not affect any obligation of any contractor, subcontractor or other materialmen or service providers to perform in accordance with the specifications and plans of the Project. The Client further understands that STS is not a quality assurance representative for any contractor, subcontractor or other materialman or service provider on the Project.

d. The Client agrees to supply STS with specifications, plans and other necessary material for the Project pertinent to providing its services.

e. Due to the nature of its services, observing and field testing the work of contractors, subcontractors or materialmen or service providers on the Project, STS cannot always be responsible for the schedule or length of time its field personnel remain on the Project site. The time STS' field personnel spend on the Project site is dependent upon the schedule of the contractor, subcontractor or materialman or service provider whose work they are observing and/or testing. STS shall make reasonable effort to utilize its time on the Project site judiciously, but the Client understands and agrees that any delays, cancellations, rescheduling, overtime or other construction activities that may alter the anticipated number of hours and the anticipated costs of STS on the Project site and that are beyond the control of STS field personnel are legitimate and chargeable time and will be invoiced at the rates designated in the attached fee schedules.

f. Part-time work is defined as Construction Monitoring Services provided by STS where its field personnel are on the Project less than five (5) working days per week or less than forty (40) hours per week, or both. It is agreed that the Client will furnish STS with a minimum of one working day's notice, or twenty-four (24) hours notice, whichever is greater, on any part-time work of STS if field personnel are requested. STS shall make reasonable effort to provide field personnel on all projects, but reserves the right to schedule its field personnel as it deems appropriate, including the scheduling of different field personnel from day to day on any given part-time project of STS. The Client agrees to inform STS of the anticipated services required by STS field personnel on any day, including but not restricted to the kind and number of tests to be required and the anticipated amount of time the field personnel will be required on the Project site.

g. The Client agrees that STS shall charge a minimum of four (4) hours for any part-time Construction Monitoring Services, regardless of the actual number of hours utilized. All field personnel charges will be made on a portal-to-portal basis. Mileage to and from the Project site will be billed at the rate designated in the attached fee schedules as will any office engineering time needed to review, evaluate or analyze the field data. All calls made by the Client or the Client's representative to cancel requested part-time STS field personnel must be received by STS in time for STS to notify field personnel before they leave for the Project site. STS will make reasonable effort to contact its field personnel as quickly as possible, but reserves the right to bill the Client the four-hour minimum charge in the event STS received a cancellation call too late for it to intercept the field personnel enroute to the Project site.

SECTION 10: OPINIONS OF COST

a. STS' opinions of probable total Project costs and Project construction costs, if any, provided as part of the services under this Agreement are made on the basis of STS' knowledge, experience and qualifications and represent STS' judgment as an experienced and qualified professional engineer, familiar with the construction industry; but STS cannot and does not guarantee that proposals, bids or actual total Project costs or Project construction costs will not vary from opinions of probable cost provided by STS.

SECTION 11: SHOP DRAWINGS

a. In the event that the scope of services includes review and approval of Shop Drawings or other data which contractor(s) are required to submit, STS' review and approval will be only for conformance with the design concept of the Project and for compliance with the information given in the Project plans and specifications and shall not extend to means, methods, techniques, sequences or procedures of construction, or to safety precautions or programs incident thereto.

b. STS' review and approval of Shop Drawings or other data shall not relieve the contractor(s) from responsibility for any variation from the requirements of the plans and specifications unless the contractor(s) has, in writing, called STS' attention to each such variation at the time of submission and STS has given written approval of each such variation by a specific written notation incorporated into or accompanying the Shop Drawing or other data. Approval by STS will not relieve the contractor(s) from responsibility for errors or omissions in the Shop Drawings or other data.

c. STS will accept Shop Drawings or other data submittals only from the contractor(s) required by the Project contract documents to furnish the Shop Drawings or data. STS will reasonably promptly review and approve, or take other appropriate action in regard to, Shop Drawings or data properly submitted to STS.

SECTION 12: ALLOCATION OF RISK

a. Documents, including but not limited to, technical reports, original boring logs, field data, field notes, laboratory test data, calculations and estimates furnished to the Client or its agents pursuant to this Agreement are not intended or represented to be suitable for reuse by the Client or others on extensions of the Project or on any other project. Any reuse without STS' written consent will be at Client's sole risk and without liability or legal exposure to STS or to STS' contractor(s).

b. Under no circumstances shall STS be liable for extra work or other consequences due to changed conditions or for costs related to failure of the construction contractor or materialmen or service providers to install work in accordance with the plans and specifications.

c. Indemnity and Hold Harmless. STS shall indemnify, and hold harmless CLIENT, and its officers and employees from and against any and all damages, losses, judgements, expenses and attorney fees which they may incur, pay or sustain as a result of any negligent act, error, or omission of STS which causes death, personal injury or property damage to any person or party, or which violates the rights of any person or party protected by law to the extent of the limits of proceeds from STS's Professional Liability insurance policy.

c.1. Client's Acts and Omissions. STS is not responsible for any acts, errors or omissions of CLIENT or CLIENT's officers and employees.

c.2. Data Not Provided By STS. STS is not responsible for the accuracy of the data provided by CLIENT or data obtained or available from public or governmental records or sources of the public domain.

c.3. Reproduced Data Furnished by CLIENT. CLIENT shall obtain from Owner of documents provided by CLIENT any and all consents required by law to reproduce data protected by patent, trademark, service mark, copyright or trade secret, and STS assumes no responsibility of any failure of CLIENT to obtain any required consents.

d. STS is not responsible for the dispersal, discharge, escape, release, spillage or saturation of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids, gases or any other material, irritant, contaminant or pollution in or into the atmosphere, or on, onto, upon, in or into the surface or subsurface (a) soil, (b) water or watercourses, (c) objects, or (d) any tangible or intangible matter, whether such event or circumstances is sudden or not, which is not caused by STS' own negligent acts or omissions.

SECTION 13: LIABILITY INSURANCE

a. Insurance. STS shall procure and maintain, during the term of this Agreement, insurance policies, herein specified. STS, prior to this agreement, shall furnish a Certificate of Insurance indicating compliance with the foregoing, and proof of payment of premium to the City Attorney, for approval. The insurance policy or policies shall contain a clause that in the event that any policy issued is canceled for any reason, or any material changes are made therein, the Administrator of Public Service will be notified, in writing, by the insurer at least twenty (20) days before any cancellation or change takes effect. If, for any reason, the insurance coverage required herein lapses, CLIENT may declare this Agreement null and void as of the date no valid insurance policy was in effect. Certificates of policy renewals shall be furnished to the Administrator of Public Service throughout the term of this Agreement. The insurance requirement shall not be construed to conflict with the obligations of STS to Indemnity and Hold Harmless CLIENT.

The following insurance must be in effect and continue in effect during the term of this Agreement in not less than the following amounts:

- Worker's Compensation - Statutory - In compliance with the Worker's Compensation Law of the State of Wisconsin
- General Liability Insurance with a minimum limit of One Million ($1,000,000) Dollars per occurance having the following coverage: Contractual, Environmental Pollution, and Death, Personal Injury and Property Loss or Damage.

- Automobile Liability Insurance with minimum single limits of liability of One Million ($1,000,000.00) Dollars for death and bodily injury, and Five Hundred Thousand ($500,000.00) Dollars for property damage, per occurrence, having the following coverage: Owned Automobiles; Hired Automobiles; Non-owned automobiles.
- Professional Errors and Omissions Insurance with a minimum of One Million ($1,000,000.00) Dollars per claims made basis.

SECTION 14: DISPUTE RESOLUTION

a. All claims, disputes, controversies or matters in question arising out of, or relating to this Agreement or any breach thereof, including but not limited to disputes arising out of alleged design defects, breaches of contract, errors, omissions, or acts of professional negligence, (collectively "disputes") shall be submitted to mediation before and as a condition precedent to any other remedy. Upon written request by either party to this Agreement for mediation of any dispute, Client and STS shall select by mutual agreement a neutral mediator. Such selection shall be made within ten (10) calendar days of the date of receipt by the other party of the written request for mediation. In the event of failure to reach such agreement or in any instance when the selected mediator is unable or unwilling to serve and a replacement mediator cannot be agreed upon by Client and STS within ten (10) calendar days, a mediator shall be chosen as specified in the Construction Industry Mediation Rules of the American Arbitration Association then in effect.

SECTION 15: TERMINATION

a. This Agreement may be terminated by either party upon at least seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. Such termination shall not be effective if that substantial failure has been remedied before expiration of the period specified in the written notice. The only exceptions to this seven-day written notice condition are STS' rights to terminate this Agreement as set forth in Sections 1, 4 and 8 of the Agreement.

b. In addition, STS may terminate this Agreement if the Client suspends STS' services for more than sixty (60) consecutive days through no fault of STS.

c. If this Agreement is terminated, STS shall be paid for services performed prior to the termination date set forth in the notice.

SECTION 16: EMPLOYMENT

a. Client agrees that, prior to the completion of STS' services on the Project, Client and its officers, agents or employees shall neither (1) offer employment to STS' employees, (2) advise STS' employees of employment opportunities with Client, Client's parent or affiliate organization(s), if any, nor (3) inquire into employment satisfaction of STS' employees.

SECTION 17: INDEPENDENT CONTRACTOR

a. The relationship between the Client and STS created under this Agreement is that of principal and independent contractor. Neither the terms of this Agreement nor the performance thereof is intended to directly or indirectly benefit any person or entity not a party hereto and no such person or entity is intended to be or shall be construed as being, a third-party beneficiary of this Agreement unless specified by name herein or in an Amendment hereto, executed by STS' authorized representative.

SECTION 18: SEVERABILITY

a. In the event that any provision herein shall be deemed invalid or unenforceable, the other provisions hereof shall remain in full force and effect, and binding upon the parties hereto.

SECTION 19: SECTION HEADINGS

a. The heading or title of a section is provided for convenience and information and shall not serve to alter or affect the provisions included herein.

SECTION 20: SURVIVAL

a. All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating responsibility or liability between the Client and STS shall survive the completion of services and the termination of this Agreement.

SECTION 21: ASSIGNS

a. Neither the Client nor STS may delegate, assign, sublet or transfer its duties, responsibilities or interests in this Agreement without the written consent of the other party.

SECTION 22: CHOICE OF LAW

a. This Agreement shall be governed by the law of the State of Wisconsin.

SECTION 23: WRITTEN NOTICE

a. Written notice shall be deemed to have been duly served if delivered in person to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended, or if delivered at or sent by registered or certified mail to the last business address known to the party giving notice.

FEE SCHEDULE

ENVIRONMENTAL SERVICES

Charges for technical personnel will be made for time spent in the field, in consultation, in preparation of reports and invoices, in administrating contracts and project coordination, and in traveling.

*Overtime will be charged after 8 hours per day; before 7:00 am and after 6:00 pm Monday through Friday; or all day Saturday--technical rate x 1.25. Doubletime will be charged on Sundays or Holidays--technical rate x 2.

Expert Witness Testimony will be billed at the rates shown here x 1.5.

Laboratory test programs will be identified in our proposal and billed out on a lump sum basis. Additional laboratory work will be billed on the following hourly basis plus expenses, expendables and equipment.

The cost of equipment to complete the project will be identified in our proposal.

Drill rig rates include two (2) persons. Additional persons will be charged according to the technical classifications.

Technical Classifications Grade

Principal	Per Hour	$	140.00
Associate	Per Hour	$	136.00
Senior Consultant	Per Hour	$	120.00
Consultant	Per Hour	$	103.00
Technical Project Staff	Per Hour	$	93.00
Technical Staff	Per Hour	$	78.00
CAD Specialist	Per Hour	$	57.00
Technical Support Staff*	Per Hour	$	46.00
Senior Technician*	Per Hour	$	65.00
Technician*	Per Hour	$	53.00

Technical Support Services

Subsurface Exploration

Drill Rig Mobilization (Local within 30 miles)	Per Trip	$	300.00
(Out-of-Town)	Per Mile One Way	$	6.25
All-Terrain Rig	Per Hour	$	200.00
Drill Rig-Class I	Per Hour	$	185.00
Drill Rig - Class II	Per Hour	$	170.00
PID or FID Rental	Per Day	$	75.00

Laboratory Services

Manager	Per Hour	$	85.00
Supervisor	Per Hour	$	60.00
Technician	Per Hour	$	50.00

Site Safety

Personnel Protection: Level D	Per Person Per Day	$	60.00
Personnel Protection: Level C	Per Person Per Day	$	170.00
Personnel Protection: Level B			Upon Request

Expenses and Expendables

All Expenses to Complete the Project **			Cost + 12%
	Per Mile	$	0.40
All Expendables to Complete the Project			Cost + 12%

Milwaukee 6/02 - N73

STS Consultants, Ltd.
Consulting Engineers

k:library/standard/fees/N73.xls

Williams, Michelle L.

From: David Voight [dvoight@tnainc.com]
Sent: Monday, May 17, 2004 1:22 PM
To: Williams, Michelle L.
Cc: ripley.laura@epamail.epa.gov; Deborah Orr (Deborah Orr)
Subject: FW: C&L Report Comments (WDNR)

Hi Michelle,

Attached are your comments regarding the C&L report (along with EPA responses)a. Thanks. Dave

---

From: David Voight
Sent: Monday, May 17, 2004 10:23 AM
To: Laura Ripley (ripley.laura@epamail.epa.gov)
Cc: Deborah Orr (Deborah Orr)
Subject: C&L Report Comments (WDNR)

Hi Laura,

Attached are comments that I received verbally from Michelle Williams at the WDNR following her review of the draft TBA Report prepared for the C&L Industrial Cleaners Site in Kenosha.
The responses that we discussed are included (please let me know if any changes are needed).

WDNR Comment	Response
Michelle commented that the methodology outlined in the *EPA Superfund Guide for Screening Chemicals*, needs to be followed for sites that are submitted to the WDNR for closure reviews. As you know, this approach allows for the actual calculation soil screening levels (SSLs) for different contaminants of concern and media. Since we were not pursuing closure, TN&A did not use this approach in our report. Instead, we compared the concentrations detected to EPA Region 9 PRGs (an approach consistent with that previously used by STS). Either approach is conservative and protective.	TN&A will provide the feedback received from the WDNR in the report recommendations.
Clarification regarding the data (and resulting figures) presenting the STS data vs. the EPA data appears needed. Michelle had some questions regarding the source of the data (i.e., STS, EPA) shown on Figure 4. She asked that we look at including all of the data from both investigations together (modify Figure 7). Michelle also asked that the construction of the STS wells be discussed (temporary wells or constructed in accordance with NR141?).	TN&A will revise accordingly.
Michelle speculated that there might be a groundwater "high" in the vicinity of the building. She asked that the elevation of MW-4 be checked.	Will recheck field data. A site survey is needed to better determine groundwater flow directions. This may be especially helpful in verifying that off-site releases are affecting the property.
If another well is installed to identify the	Site constraints (topography, etc) will affect

downgradient extent, she would like to see it placed as far east (towards the back of the property) as possible.	placement of this well. This will be noted in the report.
Clarification regarding which wells were sampled appears needed.	TN&A will revise accordingly.
Where is the location of the piezometer recommended as part of the supplemental investigation? Is it correct to assume that this well will be placed near the GP-1 locn?	Yes. The piezometer location will be clarified.
Mark where the house with the sump is located.	TN&A will revise accordingly

As discussed, I'll call Sharon Krewson-Baker at the City of Kenosha to see if she has any comments. I'll let you know if the issue regarding disposal of the on-site waste comes up.

Dave Voight, PG, CPG
Sr. Project Manager/Environmental Services
T N & Associates, Inc.
1033 North Mayfair Road
Milwaukee, WI 53226

General: (414) 257-4200
Direct: (414) 607-6772
Fax: (414) 257-2492
email: dvoight@tnainc.com

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Dave Voight, PG, CPG
Sr. Project Manager/Environmental Services
T N & Associates, Inc.
1033 North Mayfair Road
Milwaukee, WI 53226

General: (414) 257-4200
Direct: (414) 607-6772
Fax: (414) 257-2492
email: dvoight@tnainc.com

T N & Associates, Inc.
Engineering and Science

April 28, 2004

Ms. Laura Ripley, SE-4J
U.S. Environmental Protection Agency Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Subject: **Investigation Report Submittal (Draft)**
Targeted Brownfields Assessment
C&L Industrial Cleaners Site
Kenosha, Wisconsin

Technical Direction Document No. S05-0209-009
Tetra Tech Contract No. 68-W-00-129

Dear Ms. Ripley:

T N & Associates, Inc. (TN&A), a subcontractor for the Tetra Tech EM Inc. (Tetra Tech) START, is submitting the enclosed (draft) report for the C&L Industrial Property Site in Kenosha, Wisconsin. As requested, a copy of this document is also being forwarded to Ms. Sharon Krewson with the City of Kenosha, and Ms. Michelle Williams with the Wisconsin Department of Natural Resources.

Please contact me at (414) 607-6772 if you have any questions or comments.

Sincerely,

T N & Associates, Inc.

David S. Voight, PG, CPG
Project Manager

Enclosure

cc: Deborah Orr, U.S. EPA
Raghu Nagam, T N & Associates, Inc.

1033 N. Mayfair Road, Suite 200 • Milwaukee, WI 53226 • 414-257-4200 • FAX 414-257-2492