



Delivery Order Closure Report

Split-Spoon Soil Sampling & Soil Disposal Willow Glen Golf Course Naval Station Great Lakes *Great Lakes, Illinois*



Environmental Job Order Contract No. N68950-00-D-0200

Delivery Order No. 0082

TolTest Project No. 73742.01

Prepared for:

Department of the Navy
Naval Station Great Lakes
Environmental Department
Building 1-A, 201 Decatur Avenue
Great Lakes, Illinois 60088-5600

Submitted by:

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March 2004

TOLTEST, INC.

**ENVIRONMENTAL JOB ORDER CONTRACT
NO. N68950-00-D-0200
DELIVERY ORDER NO. 0082**

**DELIVERY ORDER CLOSURE REPORT
SPLIT-SPOON SOIL SAMPLING AND SOIL DISPOSAL
WILLOW GLEN GOLF COURSE
NAVAL STATION GREAT LAKES
GREAT LAKES, ILLINOIS**

PREPARED FOR



**DEPARTMENT OF THE NAVY
NAVAL STATION GREAT LAKES
ENVIRONMENTAL DEPARTMENT
BUILDING 1-A, 201 DECATUR AVENUE
GREAT LAKES, ILLINOIS 60088-5600**

**SUBMITTED
MARCH 2004**

BY

***TOLTEST*, INC.**

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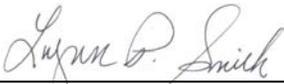
**EJOC NO. N68950-00-D-0200
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Submitted by:

**TolTest, Inc.
1000 S. Northpoint Boulevard
Waukegan, IL 60085**

TolTest, Inc. hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under this contract is complete, accurate, and complies with all requirements of the contract.

Prepared by:  Date: 3/18/04
Jeffrey M. Tinney, Project Manager

Reviewed by:  Date: 3/18/04
Lynn Smith, Quality Control Representative

Approved by:  Date: 3/18/04
Khushwant Mander, Senior Project Manager



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LIST OF ACRONYMS

bgs	Below ground surface
IEPA	Illinois Environmental Protection Agency
MDL	Method Detection Limit
NTR	Navy Technical Representative
RCRA	Resource, Conservation, and Recovery Act
RDF	Recycling and Disposal Facility
SVOC	Semi-volatile Organic Compounds
SW	Solid Waste
TACO	Tiered Approach to Corrective Action Objectives
TolTest	TolTest, Inc.
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds

EXECUTIVE SUMMARY

TolTest, Inc. (TolTest) has been retained by the Department of the Navy, Naval Facilities Engineering Command under Contract No. N68950-00-D-0200, Delivery Order No. 0082 to collect 10 subsurface soil samples and 3 groundwater samples along a 250 yard section of the Skokie storm sewer located at the Willow Glen Golf Course, Naval Station Great Lakes in Great Lakes, Illinois. TolTest loaded, transported, and disposed of the excavated soil generated during the repair of the Skokie storm sewer.

The Willow Glen Golf Course is located to the north of Buckley Road and east of Route 41. The Navy formerly utilized the area TolTest sampled as a landfill. Previous subsurface soil samples indicated the presence of heavy metals and semi-volatile organic compounds (SVOCs) above the Illinois Environmental Protection Agency's (IEPA) Tiered Approach to Corrective Action Objectives (TACO) for commercial properties.

The 10 subsurface soil samples that TolTest collected were analyzed for volatile organic compounds (VOCs), Resource, Conservation, and Recovery Act (RCRA) metals, and SVOCs. The data obtained from the soil samples were compared to the TACO screening objectives for residential and commercial properties. In the soil samples, none of the detected VOCs, RCRA metals, and SVOCs exceeded their respective screening objectives. The three groundwater samples that TolTest collected were analyzed for RCRA metals and SVOCs. The data obtained from the groundwater samples were compared to the TACO Class I and Class II groundwater screening objectives. In the groundwater samples, SVOCs were not detected at concentrations exceeding their respective method detection limits (MDLs). However, two RCRA metals (barium and selenium) were detected at concentrations exceeding their respective MDLs. Selenium slightly exceeded its groundwater screening objectives. The purpose of collecting these soil samples was to evaluate the subsurface environmental quality conditions and not to obtain closure under TACO or the IEPA Soil Remediation Program.

TolTest utilized a solid stem auger to drill below the landfill debris located along the Skokie storm sewer. Once the solid stem auger was advanced below the landfill debris, TolTest collected one soil sample utilizing a split-spoon sampler. The soil borings were advanced to below the landfill debris or a maximum depth of 30-feet below ground surface (bgs).

TolTest collected one groundwater sample from three random soil borings identified by the Navy Technical Representative (NTR). Once the NTR identified the borings, TolTest inserted temporary well screens into the borings to collect the groundwater sample utilizing a peristaltic pump.

TolTest loaded, transported, and disposed of the excavated soil generated during the storm sewer repair activities. TolTest collected and analyzed composite samples of the excavated soil and submitted a copy of the laboratory analytical report to the Kestrel Hawk Landfill in Racine, Wisconsin. The Kestrel Hawk Landfill accepted the excavated soil as special waste.

1.0 INTRODUCTION

This Delivery Order Closure Report outlines and documents the procedures that were utilized for the advancement of 10 soil borings (SB1 through SB10), collection of 10 split-spoon soil samples, collection of 3 random groundwater samples, and transportation and disposal of the excavated soil generated during the repairs to the Skokie storm sewer. Refer to **Figure 1.0** for a site map with soil boring locations. The purpose of collecting the soil and groundwater samples was to evaluate the subsurface environmental quality conditions of the site.

The tasks that TolTest performed included, but were not limited to, the following tasks:

- Collecting and analyzing composite soil samples from two excavated soil stockpiles located at the Willow Glen Golf Course.
- Advancing 10 borings to below the landfill debris or a maximum depth of 30-feet bgs, whichever comes first.
- Collecting 10 split-spoon soil samples from the 10 borings.
- Collecting groundwater samples from three random borings.
- Submitting the soil and groundwater samples to Suburban Laboratories in Hillside, Illinois for analysis.
- Backfilling the borings with bentonite grouts.
- Loading, transporting, and disposing of the excavated soil generated during the storm sewer repair activities.

2.0 FIELD WORK SEQUENCE AND OPERATIONAL APPROACH

The field work sequence and operational approach for the soil and groundwater sampling and disposal are defined in the following sections. A copy of the field notes is provided in **Appendix A**.

2.1 Notification

A request for a utility locate was made to Ms. Judy Jarosz, Base Utility Coordinator, at least five working days prior to advancing the soil borings. The area in the vicinity of the Skokie storm sewer was evaluated for the presence of underground utilities.

TolTest provided Mr. Kelly Devereaux, Environmental Department Operations Manager, with a waste profile for the excavated soil. After Mr. Devereaux signed the waste profile, TolTest submitted the approved waste profile to the Kestrel Hawk Landfill in Racine, Wisconsin for acceptance.

2.2 Mobilization and Site Set-up

Upon receiving a notice to proceed from the NTR, TolTest mobilized the drill rig to the site. Prior to the drilling activities, TolTest and the NTR identified the locations of each of the 10 sample points. TolTest and the NTR coordinated the route in which the drill rig will use to drive to the site to minimize damage to the golf course. TolTest adhered to the route identified by TolTest and the NTR when entering or exiting the work area.

2.3 Subsurface Soil and Groundwater Sampling

After the sample points were identified by the NTR, TolTest utilized a drill rig to advance a solid stem auger through the landfill debris into native soil. Refer to the attached photos for a view of the drill rig and the site in **Appendix B**. Each soil boring was given a unique identification number (SB1 through SB10), and the TolTest geologist documented the drilling activities using soil boring log forms. The soil boring log forms are provided in **Appendix C**. SB1 through SB6 were drilled on February 3, 2004 followed by SB7 through SB10, which were drilled on February 4, 2004. Refer to **Figure 1.0** for a site map with soil boring locations.

The solid stem augers were advanced to the following termination depths at the soil boring locations listed below:

- 17 feet bgs at soil boring locations SB1, SB3, SB4, SB6, SB8, SB9 and SB10.
- 20 feet bgs at SB5 and SB7.
- 30 feet bgs at SB2.

Soil cuttings generated from the drilling activities were placed in one, 55-gallon, steel, United States Department of Transportation-approved drum. The drum was appropriately labeled, and staged on site in an accessible area pending transportation to the disposal facility.



After the solid stem auger was advanced to the appropriate depth, the auger was removed from the borehole. A split-spoon sampling device was lowered into the borehole. The split-spoon sampling device was advanced two feet beyond the bottom of the borehole using a hydraulic hammer. The sampler was then removed from the borehole and opened to record the physical characteristics and percent recovery of the sample. Petroleum hydrocarbon odor was present in the soil sample collected at SB2 from 10 to 12 feet bgs. The soil sample was classified on the boring log indicating lithologic descriptions and Unified Soil Classification System descriptions (based upon visual evaluation), degree of sorting, sedimentary contacts, relative moisture content, etc.

The sampling equipment was decontaminated prior to each sampling run utilizing a Liquinox[®] soap and deionized water rinse to minimize the potential for sample cross-contamination. The sampling equipment was decontaminated according to the following procedures:

- Wash in soapy water (Liquinox[®] or equivalent)
- Rinse in potable water.
- Dry in the ambient air.
- Rinse with distilled water.
- Dry in the ambient air.

Each soil sample was subdivided into separate packages. A representative portion of each soil sample was placed into laboratory-supplied jars with Teflon-lined lids and submitted to Suburban Laboratories for analysis of VOCS, RCRA metals, and SVOCs.

Groundwater was encountered at the following depths in the soil borings listed below:

- 15 feet bgs at SB3.
- 15 feet bgs at SB5.
- 10 feet bgs at SB7.
- 15 feet bgs at SB8.
- 11 feet bgs at SB9.
- 9 feet bgs at SB10.

The Navy requested that three random groundwater samples be collected as part of this project. Therefore, TolTest completed the temporary groundwater sampling points as temporary piezometers. The temporary piezometers were constructed of 2-inch inner diameter, schedule 40, flush-joint polyvinyl chloride risers and screens. The NTR selected soil borings, SB3, SB5, and SB7 to have temporary piezometers installed. On February 3, 2004, temporary piezometers were installed in SB3 and SB5 followed by the installation of a piezometer in SB-7 on February 4. Approximately ten feet of 0.010-inch machine slotted screen and a sufficient length of riser pipe were placed in each boring to bring the top of each piezometer to near grade level. The screened

interval of each piezometer was installed to intersect the apparent water table. Due to the limited scope of this project, the temporary piezometers did not have a filter pack or bentonite seal installed. However, the groundwater samples and water level data were collected on February 4, 2004. The survey data were collected as soon as practicable after piezometer installation at each site so that the soil borings are left open as short a time as possible. Samples were obtained from the piezometers with a peristaltic pump connected to dedicated tubing. Water level measurements were based on direct observations on the drill augers, and each sample location was surveyed with global positioning system. After the necessary data was collected, the piezometer pipes were pulled from the ground and the soil borings were backfilled with bentonite grout.

2.4 Soil Disposal

After the soil and groundwater samples were collected and the bore holes were backfilled with bentonite, TolTest loaded, transported, and disposed of the excavated soil stockpiles. As previously mentioned, TolTest collected waste characterization samples from the two soil stockpiles. TolTest provided Mr. Devereaux with the laboratory analytical report and waste profile. Mr. Devereaux signed the waste profile and it was submitted to the Kestrel Hawk Recycling and Disposal Facility (RDF) in Racine, Wisconsin. The Kestrel Hawk RDF accepted the soil as special waste. A copy of the waste characterization soil sample laboratory analytical report is provided in **Appendix D**.

After approval was obtained, Mr. Carlito Luciano, a Naval Station Great Lakes-approved representative, was present to sign each waste manifest. TolTest utilized a rubber tire loader to load the stockpiled soil into semi-dump trucks. A weight of 461.30 tons of excavated soil was loaded into semi-dump trucks and transported to the Kestrel Hawk RDF, which is a Naval Station Great Lakes approved landfill. Copies of the waste manifests are provided in **Appendix E**.

During soil disposal activities, TolTest ensured that the semi-dumps utilize the approved entry and exit route as designated by the NTR. Care was taken to minimize damage to the established vegetation on the golf course.

2.5 Site Restoration

The excavated soil stockpiles have been removed from the site. TolTest will restore the site by placing grass seed and fertilizer on top of the existing topsoil. In April 2004, the NTR will provide TolTest with a specification for the mix of grass seed to be used. Once the grass seed and fertilizer are spread on top of the topsoil, TolTest will place an erosion blanket over the newly seeded area and secure the erosion blanket to the ground with staples.

Since the golf course groundskeepers will maintain the restored area, TolTest will not maintain or water the site. However, TolTest will, if needed, re-seed and fertilize areas where the vegetation did not establish a root system.

3.0 CHEMICAL DATA ACQUISITION

This section identifies the locations and types of chemical data needed, the protocol to be employed to acquire and transport samples to the laboratory, and the quality QA/QC methods to be employed to ensure accurate, precise, representative, and legally defensible data.

TolTest properly sampled and transported the samples to the analytical laboratory. Samples were analyzed by Suburban Laboratories, Inc. of Hillside, Illinois. All sampling activities were performed according to protocols, specific to each parameter of interest, as promulgated by the United States Environmental Protection Agency (USEPA). The Site Superintendent collected the samples for field description and laboratory analysis.

The sample analyses for the soil and groundwater samples were done in accordance with the USEPA Solid Waste (SW)-846 analysis protocols. The method detection limits for analysis is lower than the TACO standards for Tier 1 soil and groundwater screening objectivess from 35 Illinois Administrative Code Part 742.

During sampling activities, appropriate decontamination procedures were followed to minimize sample contamination from external sources such as sampling equipment or sample containers. These procedures are consistent with those outlined in "Test Methods for Evaluating Solid Waste-Physical/Chemical Methods" (USEPA SW-846, 3rd. ed.).

All samples collected were preserved according to USEPA protocol established for the parameters of interest. Appropriate measures were taken to ensure that storage requirements with respect to temperature were maintained during transport to the laboratory and prior to log-in and storage at the laboratory. The following table below contains the container type, volume of sample, preservation of the sample, and holding time for each parameter that was analyzed.

Sample Collection Information				
PARAMETER	CONTAINER	VOLUME	PRESERVATION	HOLDING TIME
VOCs	40-mil Vials	40-mil	Methanol	48 hours
SVOCs and Metals	Teflon-Lined	4oz. Soil	Soil-cool to 4 ⁰ C	14 days

A courier from Suburban Laboratories picked up the samples from TolTest's office in Waukegan, Illinois and transported the samples to the laboratory. Samples were collected, transported and received under strict chain-of-custody protocols consistent with procedures established by the USEPA for litigation-related materials. Upon receipt at Suburban Laboratories, the laboratory provided a specific mechanism through which the deposition and custody of the samples were accurately documented during each phase of the analytical process.



4.0 ANALYTICAL RESULTS

Ten soil samples (one from each soil boring) were collected from below the landfill debris at 15 to 17 feet bgs. In addition, three groundwater samples were collected from piezometers installed at SB3, SB5, and SB7. The soil and groundwater laboratory analytical reports and chain of custody forms are located in **Appendix F**. The samples were submitted to Suburban Laboratories in Hillside, Illinois and analyzed for the following parameters:

- VOCs using USEPA Method SW8260B. (The groundwater samples were not analyzed for VOCs.)
- RCRA Metals using USEPA Methods SW6010B, SW7470A, and SW7421.
- SVOCs using USEPA Method SW8270C.

The soil analytical results were compared to the IEPA TACO Tier I soil screening objectivess for residential and commercial properties for the inhalation and ingestion exposure pathways. Four VOCs and five RCRA metals were detected above their respective MDLs in soil samples collected from each of the ten borings. However, none of the detected VOCs exceeded their respective soil screening objectivess. Nine SVOCs were detected in the soil sample collected from SB4. These SVOCs did not exceed their respective soil screening objectivess. Moreover, SVOCs were not detected in the remaining soil samples. The soil analytical results are summarized in attached **Table 1.0**.

The groundwater analytical results were compared to the IEPA TACO groundwater screening objectivess for Class I and Class II groundwater. VOCs and SVOCs were detected above their respective MDLS in the groundwater samples but did not exceed their respective groundwater screening objectivess. Two RCRA metals (barium and selenium) were detected above their respective MDLs in each of the three groundwater samples. Selenium was detected at 0.06 micrograms per kilogram, which slightly exceeds its groundwater screening objectives of 0.05 micrograms per kilogram. The groundwater analytical results are summarized in attached **Table 2.0**.

5.0 CONCLUSIONS

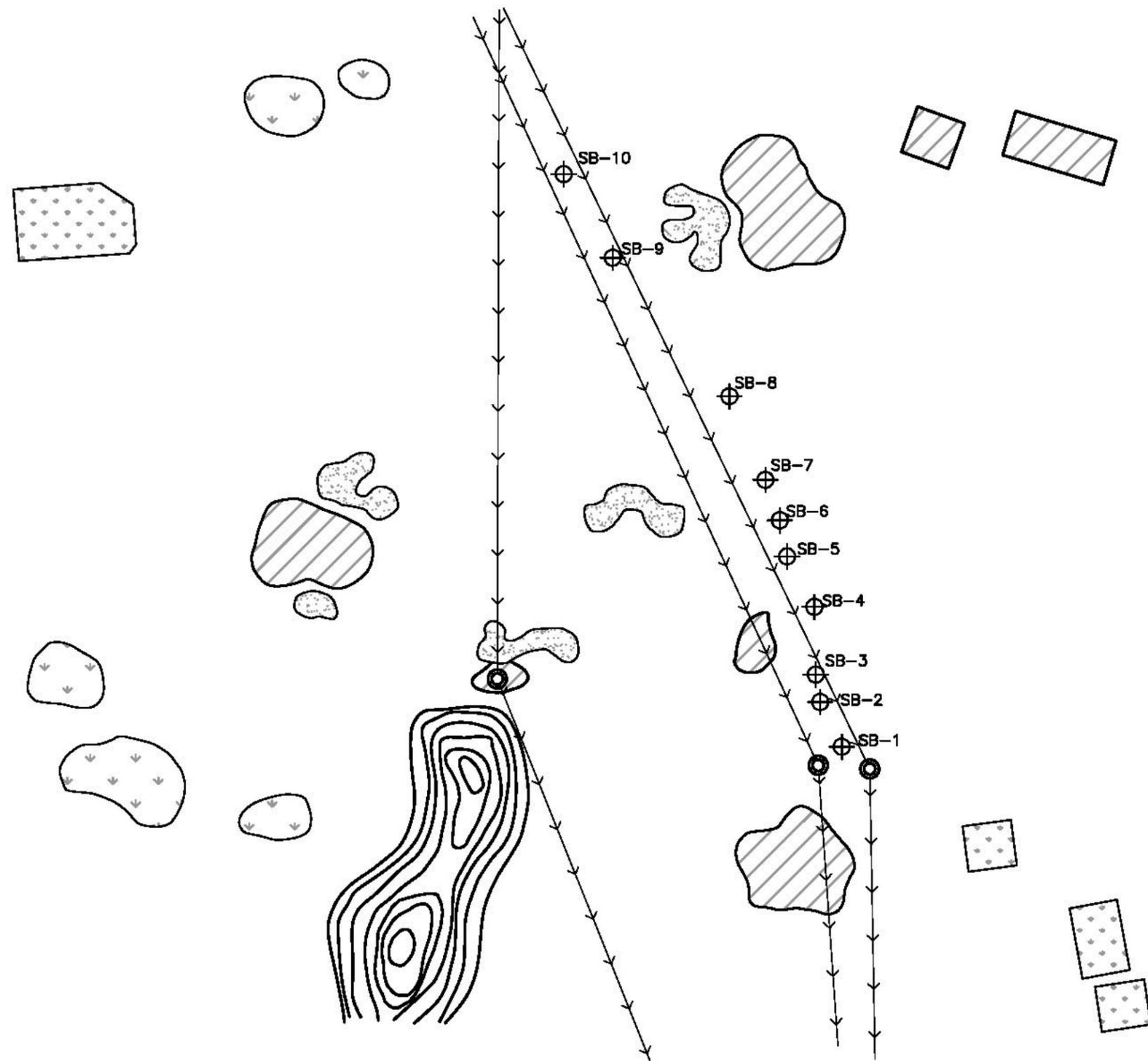
To evaluate the subsurface environmental quality conditions, TolTest collected 10 soil samples from the soil borings (SB1 through SB10) and 3 groundwater samples from the piezometers installed in soil borings SB3, SB5, and SB7. The soil borings were advanced along a 250-yard section of the Skokie storm sewer located at the Willow Glen Golf Course at the Naval Station Great Lakes in Great Lakes, Illinois. TolTest loaded, transported, and disposed of the excavated soil generated during the storm sewer repair activities. The soil borings were drilled to depths of 17, 20, or 30 feet bgs. The Navy formerly used the area TolTest sampled as a landfill. Previous subsurface soil samples indicated the presence of heavy metals and SVOCs, which exceeded their respective IEPA TACO screening objectives for commercial properties.

The soil samples that TolTest collected were analyzed for VOCs, RCRA metals, and SVOCs. The analytical data were compared to the IEPA TACO soil screening objectives for residential and commercial properties. None of the detected VOCs, RCRA metals, or SVOCs exceeded their respective screening objectives. The groundwater samples were analyzed for RCRA metals and SVOCs, and the analytical results were compared to the IEPA TACO Class I and Class II groundwater screening objectives. Two RCRA Metals (barium and selenium) were detected in the groundwater samples. Selenium slightly exceeded its groundwater screening objectives. SVOCs were not detected above their respective MDLs in the groundwater samples.

Based on the findings of this investigation, significant impact from petroleum hydrocarbons or heavy metals is not present in the soil and groundwater in the investigation area. Since the Department of the Navy has a groundwater ordinance, which prohibits the installation of potable groundwater wells, the slightly elevated selenium concentration is not an issue of concern. Further investigation is not recommended at the subject site.



FIGURE



LEGEND

-  SB-1 - SOIL BORING
-  - TEE
-  - SAND TRAP
-  - TEE BOX
-  - GREEN
-  - STORM SEWER
-  - MOUND

NOT TO SCALE

FIGURE 1.0 SITE MAP	
SPLIT SPOON SAMPLING AND SOIL DISPOSAL WILLOW GLEN GOLF COURSE NAVAL STATION GREAT LAKES GREAT LAKES, ILLINOIS	
PREPARED FOR DEPARTMENT OF THE NAVY GREAT LAKES, ILLINOIS	
DRAWN MRC/3-1-04	CHECKED
REVISED	APPROVED
JOB NO.: 73742.01	TOUESI, INC.
DRAWING NUMBER 7374201-01F	



TABLES

Table 1.0 Soil Sample Analytical Results

Analytes	SB1-2	SB2-2	SB3-2	SB4-2	SB5-2	TACO Tier I Soil Remediation Objectives			
						Residential Property Use		Commercial Property Use	
						Ingestion Pathway	Inhalation Pathway	Ingestion Pathway	Inhalation Pathway
VOCs									
2-Butanone	ND	ND	ND	2.2 J	2.4J	NL	NL	NL	NL
Acetone	7.79	14.6	12.9	13.7	15.7	7,800,000	1,000,000	200,000,000	100,000,000
Carbon disulfide	ND	0.71 J	1.1 J	ND	0.88 J	7,800,000	720,000	200,000,000	720,000
Methylene Chloride	ND	ND	ND	ND	ND	85,000	13,000	760,000	24,000
METALS									
Arsenic	ND	2.7	3.1	ND	ND	13.0	750	13	750
Barium	67.0	44.0	62.3	61.8	65.3	5,500	690,000	5,500	690,000
Chromium	26.2	22.7	27.9	24.1	25.9	230	270	230	270
Lead	6.69	7.28	7.42	6.92	6.84	400	NA	400	NA
Selenium	ND	ND	ND	ND	ND	390	NA	10,000	NA
SVOCs									
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	780,000	3,200,000	20,000,000	3,200,000
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	NA	11,000,000	NA	17,000,000
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	NL	NL	8.4	NA
2-Chlorophenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
4-Nitrophenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	90	NA	800	NA
Pentachlorophenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
Phenol	ND	ND	ND	ND	ND	47,000,000	NA	1,000,000,000	NA

NOTES:

1. Concentrations for VOCs expressed in micrograms per kilogram (µg/kg).
2. Concentrations for metals expressed in milligrams per kilogram (mg/kg).
3. Samples collected from 15 to 17 feet below ground surface.
4. Table includes only those analytes detected above their respective MDLs.
5. ND indicates not detected at the MDL.
6. NL indicates no TACO Tier I remediation objectives have been established for this compound.
7. NA indicates no toxicity criteria established for this exposure route.
8. "J" indicates estimated or analyte detected below quantitation limit.
9. Numerical values in bold print exceed their respective MDLs.

Table 1.0 Soil Sample Analytical Results (continued)

Analytes	SB6-2	SB7-2	SB8-2	SB9-2	SB10-2	TACO Tier I Soil Remediation Objectives			
						Residential Property Use		Commercial Property Use	
						Ingestion Pathway	Inhalation Pathway	Ingestion Pathway	Inhalation Pathway
VOCs									
2-Butanone	ND	ND	ND	ND	1.8 J	NL	NL	NL	NL
Acetone	14.2	15.6	8.83	11.8	17.3	7,800,000	1,000,000	200,000,000	100,000,000
Carbon disulfide	ND	0.76 J	ND	ND	ND	7,800,000	720,000	200,000,000	720,000
Methylene Chloride	ND	1.8 J	1.0 J	1.4 J	1.8 J	85,000	13,000	760,000	24,000
METALS									
Arsenic	7.34	9.02	ND	ND	ND	13.0	750	13	1,200
Barium	49.7	79.1	115	101	117	5,500	690,000	140,000	910,000
Chromium	21.9	35.9	40.1	38.9	42.8	230	270	6,100	420
Lead	8.08	10.3	9.54	12.7	11.5	400	NA	400	NA
Selenium	ND	4.4	2.9 J	3.1 J	4.8 J	390	NA	10,000	NA
SVOCs									
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	780,000	3,200,000	20,000,000	3,200,000
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	NV	11,000,000	NV	17,000,000
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	NL	NL	8.4	NV
2-Chlorophenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
4-Nitrophenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	90	NV	800	NV
Pentachlorophenol	ND	ND	ND	ND	ND	NL	NL	NL	NL
Phenol	ND	ND	ND	ND	ND	47,000,000	NV	1,000,000,000	NV

NOTES:

1. Concentrations for VOCs and SVOCs expressed in micrograms per kilogram (µg/kg).
2. Concentrations for metals expressed in milligrams per kilogram (mg/kg).
3. Samples collected from 15 to 17 feet below ground surface.
4. Table includes only those analytes detected above their respective MDLs.
5. ND indicates not detected at the MDL.
6. NL indicates no TACO Tier I remediation objectives have been established for this compound.
7. NA indicates no toxicity criteria established for this exposure route.
8. "J" indicates estimated or analyte detected below quantitation limit.
9. Numerical values in bold print exceed their respective MDLs.

Table 2.0 Groundwater Sample Analytical Results

Analytes	SB 3	SB 5	SB 7	TACO Groundwater Remediation Objectives	
				Class I	Class II
METALS					
Barium	0.0320	0.028 J	0.0999	2.0	2.0
Selenium	0.050 J	0.060 J	0.039 J	0.05	0.05
SVOCs	ND	ND	ND	---	---

NOTES:

1. Concentrations for SVOCs expressed in micrograms per kilogram (µg/L).
2. Concentrations for metals expressed in milligrams per kilogram (mg/kg).
3. Table includes only those analytes detected above their respective MDLs.
4. ND indicates not detected at the MDL.
5. "J" indicates estimated or analyte detected below quantitation limit.
6. Numerical values in bold print exceed their respective MDLs.



APPENDIX A
FIELD NOTES

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 2/3/04
REPORT NO 034/04

PHASE CONTRACT NO N68950-00-D-0200 DO 82 CONTRACT TITLE Split spoon soil sampling and disposal

PREPARATORY

WAS PREPARATORY PHASE WORK PERFORMED TODAY? YES NO
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PERFORMED TODAY? YES NO
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES NO
WORK COMPLIES WITH SAFETY REQUIREMENTS? YES NO

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO", Manuf. Rep On-Site, etc.)

Schedule Activity No.	Description
	<u>Drilled SB1 to SB6 containerized soil cuttings in 55 gal drum.</u>
	<u>Installed temporary monitoring well into the 3" boring hole from the solid stem augers at SB3 and SB5.</u>

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

James A. [Signature]
AUTHORIZED QC MANAGER AT SITE

03 Feb 04
DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER

DATE

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 2/4/04
REPORT NO 035/04

PHASE CONTRACT NO. N86950-00-D-0200 DOSS CONTRACT TITLE Split spoon soil sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PERFORMED TODAY? YES NO
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PERFORMED TODAY? YES NO
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES NO
WORK COMPLIES WITH SAFETY REQUIREMENTS? YES NO

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)	
Schedule Activity No.	Description	Schedule Activity No.	Description

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO", Manuf. Rep On-Site, etc.)
 Schedule Activity No. Description Completed soil borings and sample collection of SB7 to SB10. Placed temporary well in SB7. Collected water samples from SB3, SB5 and SB7 for SVOCs and RCRA metals. Soil samples submitted for SVOCs, VOCs and RERA metals. One drum of soil cuttings generated on the job. Drum was labeled with a Non-Haz label and placed by the entrance gate on the east side of the Willow Glen Golf Course.

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Lawrence A. Reed
 AUTHORIZED QC MANAGER AT SITE 04 Feb 04
DATE

GOVERNMENT QUALITY ASSURANCE REPORT

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT DATE

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

ATTACHMENT 4
TAILGATE SAFETY MEETING FORM

Project Name/Number: Soil Core
Client: US Navy Date: 2/3/04 Time: 7:30
Work Activities: Drilling Site Location: _____
Hospital Name/Address: St. Theresa
Hospital Phone No.: _____ Ambulance Phone No.: 911
Directions to Hospital: North on greenbay to Washington East on Washington
to hospital

Safety Topics Presented

- Drill rig safety
- Loose clothing
- Cold weather
- _____

Chemical Hazards: NO

Physical Hazards: Drill Rig, Weather

Personal Protective Equipment:
Activity: Drilling PPE: level D
Activity: _____ PPE: _____
Activity: _____ PPE: _____

New Equipment: _____

Permits Required This Date: _____

Attendees

Name (Print)	Signature
<u>NEIL WIKTOR</u>	<u>[Signature]</u>
<u>GUY JACKSON</u>	<u>[Signature]</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Meeting Conducted By: Tom Boos [Signature]

ToiTest is not liable for the information presented to non-ToiTest associates. Non-ToiTest associates are required to conduct their own Tailgate Safety Meeting.



APPENDIX B
SITE PHOTOS



Project No.
73742.01

Contract No.
N68950-00-D-0200

Location
Contractor/Photographer
Split-Spoon Soil Sampling and Soil Disposal
Willow Glen Golf Course
Naval Station Great Lakes
TolTest/Tim Boos

Photograph No.
1

Description
Southeasterly view of the site



Project No.
73742.01

Contract No.
N68950-00-D-0200

Location
Contractor/Photographer
Split-Spoon Soil Sampling and Soil Disposal
Willow Glen Golf Course
Naval Station Great Lakes
TolTest/Tim Boos

Photograph No.
2

Description
Southeasterly view of the site



Project No.
73742.01

Contract No.
N68950-00-D-0200

Location
Contractor/Photographer
Split-Spoon Soil Sampling and Soil Disposal
Willow Glen Golf Course
Naval Station Great Lakes
TolTest/Tim Boos

Photograph No.
3

Description
View of the drill rig and drill crew



APPENDIX C
SOIL BORING LOGS

Project No: 73742.01

Log of Borehole: SB1

Location: N42 18.865, W87 52.387

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE					SAMPLE		PID Readings				Well Data									
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	2	4	6	8										
0	0.0			Ground Surface																
1		S-0		SILTY SAND (SM) Black, moist (auger cuttings).																
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10	10.0	S-1		SILTY CLAY (ML) Light brown, moist, medium stiff, with sand.	1.5															
11																				
12																				
13		S-2 *		SILTY CLAY (ML) Gray, damp, very stiff, trace sand.	2.0															
14																				
15	15.0																			
16	17.0																			
17				End of Borehole																
18				NOTE: No PID readings were collected during this investigation.																
19																				
20																				
21																				
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers

Total Depth: 17 ft.

Datum: Ground Surface

Drilling Date: 2-3-04

Initial Water Elevation (ft)/date: N/A

Checked by:

Drilling Company: TTL Associates

Water Elevation (ft)/date: N/A

Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB2

Location: N42 18.867', W87 52.387'

Geologist: Timothy Boos

City, County, State: Great Lakes, Lake, IL



SUBSURFACE PROFILE					SAMPLE		PID Readings				Well Data
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm				
							2	4	6	8	
0	0.0			Ground Surface							
1			[Pattern]	SILTY SAND (SM) Dark gray, dry (auger cuttings).							
2											
3											
4											
5		S-0									
6											
7											
8											
9											
10	10.0										
11		S-1	[Pattern]	SANDY SILT (ML) Dark gray, dry, very soft, petroleum hydrocarbon odor.	1.5						
12											
13											
14											
15	15.0										
16		S-2 *	[Pattern]	SILTY CLAY (ML) Dark gray, damp, very stiff, no petroleum hydrocarbon odor.	2.0						
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30	30.0										

NOTE: No PID readings were collected during this investigation. Advanced boring to 30 feet in like materials to search for water. Borehole was still dry after being left open for two hours.

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers

Total Depth: 30 ft.

Datum: Ground Surface

Drilling Date: 2-3-04

Initial Water Elevation (ft)/date: N/A

Checked by: *[Signature]*

Drilling Company: TTL Associates

Water Elevation (ft)/date: N/A

Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB3

Location: N42 18.880', W87 52.392'

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE					SAMPLE		PID Readings				Well Data	
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	2	4	6	8		
0	0.0			Ground Surface								
1			[Pattern]	SANDY SILT (SM) Black, damp (auger cuttings).								
2												
3												
4												
5		S-0										
6												
7												
8												
9												
10	10.0											
11		S-1		SILTY CLAY (ML) Light gray, moist, soft, trace sand.	1.0							
12												
13												
14												
15	15.0											
16		S-2 *		SILTY CLAY (MH) Light gray, wet, very stiff, trace sand.	2.0							
17	17.0											
18				End of Borehole								
19				<p>NOTE: No PID readings were collected during this investigation. Set temporary well at 17 feet with screened interval from approximately 17 feet to 12 feet.</p>								
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers	Total Depth: 17 ft.	Datum: Ground Surface
Drilling Date: 2-3-04	Initial Water Elevation (ft)/date: 15/ 2-3-04	Checked by: <i>LPS</i>
Drilling Company: TTL Associates	Water Elevation (ft)/date: N/A	Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB4

Location: N42 18.891', W87 52.392'

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE				SAMPLE		PID Readings				Well Data	
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm				
							2	4	6	8	
0	0.0			Ground Surface							
1				SANDY SILT (ML) Dark gray, damp (auger cuttings).							
2											
3											
4											
5		S-0									
6											
7											
8											
9											
10	10.0										
11		S-1		SILTY CLAY (ML) Brown mottled gray, dry, stiff.	2.0						
12											
13											
14											
15	15.0										
16		S-2 *		SILTY CLAY (ML) Brown, dry, very stiff.	2.0						
17	17.0										
18				End of Borehole							
19				NOTE: No PID readings were collected during this investigation.							
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers	Total Depth: 17 ft.	Datum: Ground Surface
Drilling Date: 2-3-04	Initial Water Elevation (ft)/date: N/A	Checked by: <i>LRB</i>
Drilling Company: TTL Associates	Water Elevation (ft)/date: N/A	Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB5

Location: N42 18.893', W87 52.396'

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE				SAMPLE		PID Readings				Well Data	
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm				
							2	4	6	8	
0	0.0			Ground Surface							
1				SANDY SILT (ML) Dark gray, damp (auger cuttings).							
2											
3											
4											
5		S-0									
6											
7											
8											
9											
10	10.0										
11	11.5	S-1		FILL Black, slag-like debris.	1.0						
12				CLAYEY SILT (CL) Gray, damp, medium stiff.							
13											
14											
15	15.0										
16		S-2 *		SILTY CLAY (MH) Gray, wet, very stiff, trace sand.	2.0						
17											
18											
19											
20	20.0			NOTE: No PID readings were collected during this investigation. . Set temporary well at 20 ft. with screened interval from approximately 20 ft. to 17 ft.							
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers	Total Depth: 20 ft.	Datum: Ground Surface
Drilling Date: 2-3-04	Initial Water Elevation (ft)/date: 15/ 2-3-04	Checked by: <i>JPS</i>
Drilling Company: TTL Associates	Water Elevation (ft)/date: N/A	Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB6

Location: N42 18.906', W87 52.402'

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE					SAMPLE		PID Readings				Well Data		
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm						
							2	4	6	8			
0	0.0			Ground Surface									
1		S-0		SANDY SILT (ML) Dark gray, damp (auger cuttings).									
2													
3													
4													
5													
6													
7													
8													
9													
10	10.0												
11		S-1		SILTY CLAY (ML) Brown mottled gray, damp, medium stiff, with organics and trace sand.	2.0								
12													
13													
14													
15	15.0												
16		S-2 *		SILTY CLAY (MH) Gray, wet, very stiff, trace sand.	2.0								
17	17.0												
18				End of Borehole									
19				NOTE: No PID readings were collected during this investigation.									
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers

Total Depth: 17 ft.

Datum: Ground Surface

Drilling Date: 2-3-04

Initial Water Elevation (ft)/date: N/A

Checked by:

Drilling Company: TTL Associates

Water Elevation (ft)/date: N/A

Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB7

Location: N42 18.914', W87 52.413'

Geologist: Timothy Boos

City, County, State: Great Lakes, Lake, IL



SUBSURFACE PROFILE					SAMPLE		PID Readings				Well Data
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm				
							2	4	6	8	
0	0.0			Ground Surface							
1				SILTY SAND (SM) Black, damp (auger cuttings).							
2											
3											
4											
5	5.0	S-0		SILTY CLAY (ML) Brown, damp.							
6											
7											
8											
9											
10	10.0										
11		S-1		SILTY CLAY (MH) Brown mottled gray, wet, stiff.	2.0						
12											
13											
14											
15	15.0										
16		S-2 *		SILTY CLAY (MH) Gray, wet, very stiff, trace sand.	2.0						
17											
18											
19											
20	20.0										
21				End of Borehole							
22				NOTE: No PID readings were collected during this investigation. Set temporary well at 20 ft. with screened interval from 20 ft. to 15 ft.							
23											
24											
25											
26											
27											
28											
29											
30											

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers

Total Depth: 20 ft.

Datum: Ground Surface

Drilling Date: 2-3-04

Initial Water Elevation (ft)/date: 10/2-4-04

Checked by: *LRP*

Drilling Company: TTL Associates

Water Elevation (ft)/date: N/A

Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB8

Location: N42 18.910', W87 52.414'

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE					SAMPLE		PID Readings				Well Data
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm				
							2	4	6	8	
0	0.0			Ground Surface							
1				SILTY SAND (SM) Black, damp (auger cuttings).							
2											
3											
4											
5	5.0	S-0		SILTY CLAY (ML) Brown, damp.							
6											
7											
8											
9											
10	10.0										
11		S-1		SILTY CLAY (CL) Brown mottled gray, moist, medium stiff.	1.0						
12											
13											
14				- Augers become wet at 14 ft.							
15	15.3										
16		S-2 *		SILTY CLAY (MH) Gray, wet, very stiff, trace sand.	2.0						
17	17.0			End of Borehole							
18											
19											
20				NOTE: No PID readings were collected during this investigation.							
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers

Total Depth: 17 ft.

Datum: Ground Surface

Drilling Date: 2-3-04

Initial Water Elevation (ft)/date: 15/2-4-04

Checked by: *TPS*

Drilling Company: TTL Associates

Water Elevation (ft)/date: N/A

Sheet: of 1 of 1

Project No: 73742.01

Log of Borehole: SB9

Location: N42 18.924', W87 52.447'

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE				SAMPLE		PID Readings				Well Data		
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm					
							2	4	6	8		
0	0.0			Ground Surface								
1		S-0		SILTY SAND (SM) Dark gray, damp (auger cuttings).								
2												
3												
4												
5												
6												
7												
8	8.0											
9		S-1		FILL Black, sandy debris - Augers become wet at 9 ft.								
10	10.0											
11				SILTY CLAY (MH) Gray, wet, medium stiff.	1.5							
12												
13												
14												
15	15.0	S-2 *		SILTY CLAY (MH) Gray, wet, very stiff, trace sand.	2.0							
16	17.0											
17				End of Borehole								
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

NOTE: No PID readings were collected during this investigation.

*Designates sample submitted for laboratory analysis

Project No: 73742.01

Log of Borehole: SB10

Location: N42 18.935', W87 52.451'

Geologist: Timothy Boos



City, County, State: Great Lakes, Lake, IL

SUBSURFACE PROFILE					SAMPLE		PID Readings				Well Data
Depth (ft)	Elevation	Sample Number	Legend	Description	Recovery (ft)	SPT Blows	ppm				
							2	4	6	8	
0	0.0			Ground Surface							
1				SILTY SAND (SM) Dark gray, damp (auger cuttings).							
2											
3											
4											
5	5.0	S-0		FILL Dark gray, sandy debris							
6											
7											
8											
9				- Augers become wet at 9 ft.							
10	10.0										
11		S-1		SILTY CLAY (MH) Gray, wet, medium stiff.	2.0						
12											
13											
14											
15	15.0										
16		S-2 *		SILTY CLAY (MH) Dark brown, wet, very stiff, trace sand.	2.0						
17	17.0										
18				End of Borehole							
19											
20				NOTE: No PID readings were collected during this investigation.							
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

*Designates sample submitted for laboratory analysis

Drilling Method: Solid Stem Augers

Total Depth: 17 ft.

Datum: Ground Surface

Drilling Date: 2-3-04

Initial Water Elevation (ft)/date: 9 /2-4-04

Checked by: *LPB*

Drilling Company: TTL Associates

Water Elevation (ft)/date: N/A

Sheet: of 1 of 1



APPENDIX D

WASTE CHARACTERIZATION

SOIL SAMPLE LABORATORY ANALYTICAL REPORT



Approval Number: _____

Expiration Date: _____

SPECIAL WASTE PROFILE

Information utilized for completion of this form must originate from an authorized representative of the generator of the waste material. The information on this form must be COMPLETE, LEGIBLE, and the form must be SIGNED.

A. GENERATOR INFORMATION

- 1. Generator Name: ACOS Installations and Environmental
- 2. Address: 201 Decatur Ave., Bldg. 1A Naval Stations Great Lakes

City: Great Lakes County: Lake
 State: IL Zip: 60088

- 3. Site Location (if different): Willow Glen Golf Course Naval Station Great Lakes
- 4. Contact Name: Mr. Kelly Devereaux
- 5. Phone Number: (847) 688-6934 x11
- 6. Fax Number: _____

B. CUSTOMER/BILLING INFORMATION

- 1. Billing Name: TolTest, Inc.
- 2. Address: 1000 Northpoint Blvd.

City: Waukegan County: Lake
 State: IL Zip: 60085

- 3. Contact Name: Jeff Tinney
- 4. Phone Number: (847) 689-0697
- 5. Fax Number: (847) 689-0698
- 6. Is there a service agreement on file? YES NO

C. TRANSPORTER INFORMATION

- 1. Name: Kirschoffer Trucking
- 2. Street Address: _____
 City: _____ State: _____ Zip: _____
- 3. Phone Number: _____
- 4. Fax Number: _____
- 5. Contact Name: _____

D. AGENT/CONSULTANT INFORMATION

- 1. Name: _____
- 2. Street Address: _____
 City: _____ State: _____ Zip: _____
- 3. Phone Number: _____
- 4. Fax Number: _____
- 5. Contact Name: _____
- 6. Is there a Letter of Authorization on file? YES NO

E. WASTE STREAM INFORMATION

- 1. Common Name of Waste: Hydrocarbon Impacted Soil
- 2. Detailed Description of Process: Excavation

- 3. Physical State at 70°F Solid Semi-Solid Liquid Powder Other: _____
- 4. Odor: None Mild Significant: (describe) _____
- 5. Color: Brown
- 6. Flash Point: < 140 °F _____ °C
- 7. Reactive: NO YES with: _____
- 8. pH Range: 8.07
- 9. Heat Generating Waste NO YES
- 10. Free Liquid: NO YES
- 11. Water Content: 22 % by water
- 12. Does the waste contain radioactive or U.S.D.O.T. hazardous materials, PCB's, or asbestos? NO YES
- 13. Does the waste contain any etiological agents or untreated medical waste? NO YES
- 14. Is the waste proposed for management a hazardous waste as defined by Federal or State regulations? NO YES

F. SUPPLEMENTAL INFORMATION

- 1. Attached Document(s): None MSDS Certified Analytical Report Memo/Letter Process Knowledge
- 2. If analytical data is attached, is the data derived from testing a representative sample in accordance with 40 CFR 261 and/or other applicable laws? YES NO

G. SHIPPING INFORMATION

- 1. Packaging: Bulk Solids Bulk Liquids Drums Roll-Off Dump Truck Tank Truck Other: _____
- 2. Estimated Volume: 500 Tons Cubic Yards Drums Gallons Other: _____
- 3. Shipping Frequency: _____ per One Time Monthly Yearly Other: _____
- 4. Designated Landfill(s): Kestrel Hawk RDF
- 5. Disposal Method: Landfill Solidification Bioremediation Other: _____

H. Generator's Certification Statement:

I hereby certify that the above and attached information is complete and accurate to the best of my ability, that no deliberate information was omitted, that all known and suspected hazards have been disclosed, and that the waste is not a regulated hazardous waste by government or local authority, and does not contain PCB's regulated by TSCA or any other regulatory authority. If any of the above changes, I agree to notify Republic Services.

I, Kelly W. Devereaux (NAME, PLEASE PRINT) am employed by US Navy (COMPANY NAME) and am authorized to sign this request for US Navy

COMPANY NAME: US Navy
 DATE: 12-2-03

PRINTED NAME: Kelly W Devereaux
 SIGNATURE:



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.SuburbanLabs.com



October 22, 2003

Jeff Tinney
Toltest Inc.
1000 S. Northpoint Blvd.
Waukegan, IL 600858213
Tel: (847) 689-0697
Fax: (847) 689-0698

Project Name: Golf Course

Workorder #: **03100069**

Dear Jeff Tinney,

Suburban Laboratories, Inc. received 2 samples on 10/2/03 1:50:00 PM for the analyses presented in the following report.

There were no problems with the analyses and all the data for the associated QC met EPA or laboratory specifications except where noted in the case narrative.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. Also included in this is some or all of your analytical results reported in dry weight basis. This is designated on the analytical report in the units field, you will see a "Dry" after the normal reporting units. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call your customer service representative at (708) 544-3260.

Sincerely,

Mike Chung
Data Review Manager

CC:



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.SuburbanLabs.com



Client ID: Toltest Inc.

Workorder Name: Golf Course

Workorder #: 03100069

COC #:

Temp Upon Receipt: 6 °C

CASE NARRATIVE

Date: Wednesday, October 22, 2003

PO #:

QC Level: LEVEL I

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of Part 186 unless otherwise indicated.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For more information about the laboratories' scope of accreditation, please contact Suburban or the Agency.
- MDL: Method Detection Limit. The minimum concentration of an analyte that can be measured and reported with a 99% confidence that analyte is greater than zero.
- PQL: Practical Quantitation Limit. The lowest concentration that can be reliably achieved within specified requirements of precision and accuracy during routine laboratory operating conditions. The PQL is generally 3 times the MDL.
- DF: Dilution Factor
- <ATC>: Automatic Temperature Correction.

Data Qualifiers:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ: The analyte was not detected above the reported detection limit. However, the reported limits approximate and may or may not represent the actual limits of detection and quantitation necessary to accurately and precisely measure the analyte in the sample.

I: Result is Invalid; CS: Compound Screened; TNTC: Too Numerous to Count

Method References:

E: USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40CFR136 App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water

SW: USEPA, Test Methods for Evaluating Solid Waste, SW-846, 3rd Ed, includes Updates I-III

M: APHA, Standard Methods for the Examination of Water and Wastewater, 18th & 19th Ed.

D: ASTM, Annual Book of Standards F: NAS, Food Chemicals Codex (FCC), 4th Edition

B: US FDA Bacteriological Analytical Manual (BAM) 8th Edition, 1995

USP: US Pharmacopoeia, 24th Revision, 2000

USGS: United States Geological Survey

Project Specific Comments:

Semivolatiles :Sample 03100069-01B;Q = The Internal standard recovery for this analyte in the sample is outside in-house laboratory criteria (no method specific requirement for internal standard recovery on a sample by sample basis)

03100069-02BMS,MSD

Arsenic(As): S=The MS percent recovery (43.03%) and the MSD percent recovery (38.67%)were outside laboratory control limits (70% -130%)

Barium(Ba): S=The MS percent recovery (58.02%) and the MSD percent recovery (154.69%)were outside laboratory control limits (70% -130%)

Cadmium(Cd): S=The MS percent recovery (43.87%) and the MSD percent recovery (39.88%) were outside laboratory control limits (70% -130%).

CASE NARRATIVE**Client ID:** Toltest Inc.**Workorder Name:** Golf Course**Workorder #:** 03100069**COC #:****Temp Upon Receipt:** 6 °C**Date:** Wednesday, October 22, 2003**PO #:****QC Level:** LEVEL I

Chromium(Cr): S=The MS percent recovery (48.34%) and the MSD percent recovery (64.39%) were outside laboratory control limits (70% -130%).

Lead(Pb): S=The MS percent recovery (46.46%) were outside laboratory control limits (70% -130%).

Selenium(Se): S=The MS percent recovery (37.90%) and the MSD percent recovery (31.49%) were outside laboratory control limits (70% -130%).

Silver(Ag): S=The MS percent recovery (34.88%) and the MSD percent recovery (35.07%) were outside laboratory control limits (70% -130%).

Barium(Ba): R=The MS & MSD Precision (33.32%RPD) was greater than laboratory control limits .

Lead(Pb): R=The MS & MSD Precision (33.58% RPD) was greater than laboratory control limits .

REACTIVE SULFIDE: Sample 01C and 02C: S=The MS percent recovery (40.0%) and the MSD percent recovery (34.3%) were outside laboratory control limits (50.0% - 150.0%). H=Reactive sulfide test added on past hold time by client.

Barium(Ba): B=The method blank contained 0.50 ppm (MDL is 0.01 ppm).

Paint Filter Test on sample 01C: G=Fine solid particulates passed through the paint filter, but no free liquid passage was observed.

Herbicides: Sample 03100069-01C, 03100069-02C: S=The LCS percent recovery of 2,4-D, Silvex (13.84%, 11.06%) were outside laboratory control limits (58.4 -131%; 49.3-133%). Sample 03100039-01C: S=The MS percent recovery of 2,4-D (10.8%) was outside laboratory control limits (50 -150%).

Volatiles: Sample -01C: S=The MS percent recovery for 2-butanone(63%) and the MS percent recovery for carbon tetrachloride(52%) were outside laboratory control limits (70% - 130%).



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

Lab Sample #: 03100069-01A	Collection Date: 10/1/03 10:30:00 AM
Client Sample ID: SP-01	Received Date: 10/2/03 1:50:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
COMPOSITE FOR ORGANICS							
Composite_OR	10/02/03	c	0	0	Date-dry	1	10/2/03 12:00 am

Method: COMPOSITE_OR

Analyst: NM

Qualifiers:

- ND - Not Detected at the Method Detection Limit
- J - Estimated or analyte detected below quantitation limit
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- c - Analyte not included in our scope of accreditation

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Analysis run past method holding time
- DF - Dilution Factor

MDL-Continuous
Practices2003



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

Lab Sample #: 03100069-01B	Collection Date: 10/1/03 10:30:00 AM
Client Sample ID: SP-01	Received Date: 10/2/03 1:50:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	0.82	J	0.60	1.8	mg/Kg-dry	1	10/7/03 9:56 am
Barium	36.4		0.30	0.90	mg/Kg-dry	1	10/7/03 9:56 am
Cadmium	ND		0.090	0.27	mg/Kg-dry	1	10/7/03 9:56 am
Chromium	11.6		0.30	0.90	mg/Kg-dry	1	10/7/03 9:56 am
Lead	7.70		0.60	1.8	mg/Kg-dry	1	10/7/03 9:56 am
Selenium	ND		0.60	1.8	mg/Kg-dry	1	10/7/03 9:56 am
Silver	ND		0.090	0.27	mg/Kg-dry	1	10/7/03 9:56 am
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: DP
1,2,4-Trichlorobenzene	ND		103	201	µg/Kg-dry	1	10/10/03 9:01 pm
1,2-Dichlorobenzene	ND		189	201	µg/Kg-dry	1	10/10/03 9:01 pm
1,3-Dichlorobenzene	ND		97.4	201	µg/Kg-dry	1	10/10/03 9:01 pm
1,4-Dichlorobenzene	ND		88.6	201	µg/Kg-dry	1	10/10/03 9:01 pm
2,4,5-Trichlorophenol	ND		72.5	201	µg/Kg-dry	1	10/10/03 9:01 pm
2,4,6-Trichlorophenol	ND		76.1	201	µg/Kg-dry	1	10/10/03 9:01 pm
2,4-Dichlorophenol	ND		77.3	201	µg/Kg-dry	1	10/10/03 9:01 pm
2,4-Dimethylphenol	ND		89.0	201	µg/Kg-dry	1	10/10/03 9:01 pm
2,4-Dinitrophenol	ND		61.0	201	µg/Kg-dry	1	10/10/03 9:01 pm
2,4-Dinitrotoluene	ND		43.3	201	µg/Kg-dry	1	10/10/03 9:01 pm
2,6-Dinitrotoluene	ND		84.5	201	µg/Kg-dry	1	10/10/03 9:01 pm
2-Chloronaphthalene	ND		56.9	201	µg/Kg-dry	1	10/10/03 9:01 pm
2-Chlorophenol	ND		198	201	µg/Kg-dry	1	10/10/03 9:01 pm
2-Methylnaphthalene	140	J	75.7	201	µg/Kg-dry	1	10/10/03 9:01 pm
2-Nitroaniline	ND		38.1	201	µg/Kg-dry	1	10/10/03 9:01 pm
2-Nitrophenol	ND		51.3	201	µg/Kg-dry	1	10/10/03 9:01 pm
3,3-Dichlorobenzidine	ND	Q	70.6	201	µg/Kg-dry	1	10/10/03 9:01 pm
3-Nitroaniline	ND		47.3	201	µg/Kg-dry	1	10/10/03 9:01 pm
4,6-Dinitro-2-methylphenol	ND		42.9	201	µg/Kg-dry	1	10/10/03 9:01 pm
4-Bromophenyl phenyl ether	ND		29.8	201	µg/Kg-dry	1	10/10/03 9:01 pm
4-Chloro-3-methylphenol	ND		111	201	µg/Kg-dry	1	10/10/03 9:01 pm
4-Chloroaniline	ND		42.4	201	µg/Kg-dry	1	10/10/03 9:01 pm
4-Chlorophenyl phenyl ether	ND		33.2	201	µg/Kg-dry	1	10/10/03 9:01 pm
4-Nitroaniline	ND		59.8	201	µg/Kg-dry	1	10/10/03 9:01 pm
4-Nitrophenol	ND		43.3	201	µg/Kg-dry	1	10/10/03 9:01 pm
Bis(2-chloroethoxy)methane	ND		95.8	201	µg/Kg-dry	1	10/10/03 9:01 pm
Bis(2-chloroethyl)ether	ND		172	201	µg/Kg-dry	1	10/10/03 9:01 pm
Bis(2-chloroisopropyl)ether	ND		172	201	µg/Kg-dry	1	10/10/03 9:01 pm
Bis(2-ethylhexyl)phthalate	220	Q	201	201	µg/Kg-dry	1	10/10/03 9:01 pm
Butyl benzyl phthalate	ND	Q	86.2	201	µg/Kg-dry	1	10/10/03 9:01 pm
Carbazole	218		201	201	µg/Kg-dry	1	10/10/03 9:01 pm
Di-n-butyl phthalate	ND		96.5	201	µg/Kg-dry	1	10/10/03 9:01 pm

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

Di-n-octyl phthalate	ND	54.5	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Dibenzofuran	231	37.3	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Diethyl phthalate	ND	45.3	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Dimethyl phthalate	ND	60.5	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Hexachlorobenzene	ND	42.9	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Hexachlorobutadiene	ND	109	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Hexachlorocyclopentadiene	ND	99.4	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Hexachloroethane	ND	117	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Isophorone	ND	51.3	201	µg/Kg-dry	1	10/10/03 9:01 pm	
m,p-Cresol	ND	222	402	µg/Kg-dry	1	10/10/03 9:01 pm	
N-Nitrosodi-n-propylamine	ND	98.2	201	µg/Kg-dry	1	10/10/03 9:01 pm	
N-Nitrosodiphenylamine	ND	47.3	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Nitrobenzene	ND	129	201	µg/Kg-dry	1	10/10/03 9:01 pm	
o-Cresol	ND	66.1	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Pentachlorophenol	ND	36.1	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Phenol	ND	46.0	201	µg/Kg-dry	1	10/10/03 9:01 pm	
Surr: 2,4,6-Tribromophenol	50.0	0	20-117	%REC	1	10/10/03 9:01 pm	
Surr: 2-Fluorobiphenyl	53.2	0	47-128	%REC	1	10/10/03 9:01 pm	
Surr: 2-Fluorophenol	43.1	0	41-108	%REC	1	10/10/03 9:01 pm	
Surr: 4-Terphenyl-d14	108	Q	0	5-131	%REC	1	10/10/03 9:01 pm
Surr: Nitrobenzene-d5	52.3	0	32-120	%REC	1	10/10/03 9:01 pm	
Surr: Phenol-d5	89.9	0	52-116	%REC	10	10/10/03 6:40 pm	

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Acenaphthene	ND	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Acenaphthylene	ND	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Anthracene	ND	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Benzo(a)anthracene	58.9	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Benzo(a)pyrene	63.7	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Benzo(b)fluoranthene	69.3	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Benzo(g,h,i)perylene	54.9	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Benzo(k)fluoranthene	55.4	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Chrysene	68.7	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Dibenzo(a,h)anthracene	ND	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Fluoranthene	159	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Fluorene	ND	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Indeno(1,2,3-cd)pyrene	ND	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Naphthalene	ND	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Phenanthrene	79.0	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Pyrene	111	48.1	48.1	µg/Kg-dry	1	10/4/03 5:59 pm
Surr: 2-Fluorobiphenyl	99.4	0	59.3-135	%REC	1	10/4/03 5:59 pm
Surr: 4-Terphenyl-d14	121	0	51.4-151	%REC	1	10/4/03 5:59 pm
Surr: Nitrobenzene-d5	96.8	0	50.6-126	%REC	1	10/4/03 5:59 pm

MERCURY BY CVAA

Method: SW7471A

Analyst: BK

Mercury	0.351	0.021	0.088	mg/Kg-dry	1	10/6/03 1:19 pm
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PERCENT MOISTURE

Method: D2216

Analyst: BE

Percent Moisture	16.91	0	0	wt%	1	10/2/03 4:15 pm
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Qualifiers: ND - Not Detected at the Method Detection Limit
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 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

Lab Sample #: 03100069-01C	Collection Date: 10/1/03 10:30:00 AM
Client Sample ID: SP-01	Received Date: 10/2/03 1:50:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
SEMIVOLATILES, TCLP LEACHED							
			Method: SW1311/8270C				Analyst: LA
1,4-Dichlorobenzene	ND		8.84	26.5	µg/L	1	10/21/03 5:42 pm
2,4,5-Trichlorophenol	ND		7.24	21.7	µg/L	1	10/21/03 5:42 pm
2,4,6-Trichlorophenol	ND		7.60	22.8	µg/L	1	10/21/03 5:42 pm
2,4-Dinitrotoluene	ND		4.32	13.0	µg/L	1	10/21/03 5:42 pm
Hexachlorobenzene	ND		4.28	12.8	µg/L	1	10/21/03 5:42 pm
Hexachlorobutadiene	ND		10.9	32.8	µg/L	1	10/21/03 5:42 pm
Hexachloroethane	ND		11.6	34.9	µg/L	1	10/21/03 5:42 pm
m,p-Cresol	ND		22.2	66.6	µg/L	1	10/21/03 5:42 pm
Nitrobenzene	ND		12.8	38.5	µg/L	1	10/21/03 5:42 pm
O-Cresol	ND		6.60	19.8	µg/L	1	10/21/03 5:42 pm
Pentachlorophenol	ND		4.36	13.1	µg/L	1	10/21/03 5:42 pm
Pyridine	ND		9.84	29.5	µg/L	1	10/21/03 5:42 pm
Surr: 2,4,6-Tribromophenol	13.8		0	10-190	%REC	1	10/21/03 5:42 pm
Surr: 2-Fluorobiphenyl	75.1		0	37.7-106	%REC	1	10/21/03 5:42 pm
Surr: 2-Fluorophenol	8.37	S	0	11.1-127	%REC	1	10/21/03 5:42 pm
Surr: Nitrobenzene-d5	79.9		0	27.2-104	%REC	1	10/21/03 5:42 pm
Surr: Phenol-d6	13.1		0	9.97-133	%REC	1	10/21/03 5:42 pm
HERBICIDES, TCLP LEACHED							
			Method: SW1311/8151A				Analyst: MH
2,4,5-TP (Silvex)	ND	S	2.0	2.0	µg/L	1	10/18/03 11:49 pm
2,4-D	ND	S	2.0	2.0	µg/L	1	10/18/03 11:49 pm
Surr: DCAA	26.0	S	0	27.6-127	%REC	1	10/18/03 11:49 pm
METALS BY ICP, TCLP LEACHED							
			Method: SW1311/6010B				Analyst: RA
Arsenic	ND		0.02	0.06	mg/L	1	10/14/03 10:19 pm
Barium	0.54	B	0.01	0.03	mg/L	1	10/14/03 10:19 pm
Cadmium	ND		0.003	0.009	mg/L	1	10/14/03 10:19 pm
Chromium	ND		0.01	0.03	mg/L	1	10/14/03 10:19 pm
Lead	ND		0.02	0.06	mg/L	1	10/14/03 10:19 pm
Selenium	0.04	J	0.02	0.06	mg/L	1	10/14/03 10:19 pm
Silver	ND		0.003	0.009	mg/L	1	10/14/03 10:19 pm
PESTICIDES, TCLP LEACHED							
			Method: SW1311/8081A				Analyst: LA
Chlordane	ND		2.00	6.00	µg/L	1	10/17/03 4:49 pm
Endrin	ND		0.200	0.600	µg/L	1	10/17/03 4:49 pm
gamma-BHC	ND		0.100	0.300	µg/L	1	10/17/03 4:49 pm
Heptachlor	ND		0.100	0.300	µg/L	1	10/17/03 4:49 pm
Heptachlor epoxide	ND		0.100	0.300	µg/L	1	10/17/03 4:49 pm
Methoxychlor	ND		1.00	3.00	µg/L	1	10/17/03 4:49 pm
Toxaphene	ND		4.00	12.0	µg/L	1	10/17/03 4:49 pm
Surr: Tetrachloro-m-xylene	70.8		0	21-128	%REC	1	10/17/03 4:49 pm
VOLATILES, TCLP LEACHED							
			Method: SW1311/8260B				Analyst: BK

Qualifiers: ND - Not Detected at the Method Detection Limit
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S - Spike Recovery outside accepted recovery limits
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 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

1,1-Dichloroethene	ND		2.57	7.70	µg/L	5	10/20/03 5:15 pm
1,2-Dichloroethane	ND		1.46	4.40	µg/L	5	10/20/03 5:15 pm
2-Butanone	260	S	7.55	23.0	µg/L	5	10/20/03 5:15 pm
Benzene	ND		1.58	4.80	µg/L	5	10/20/03 5:15 pm
Carbon tetrachloride	ND	S	1.92	5.80	µg/L	5	10/20/03 5:15 pm
Chlorobenzene	ND		1.80	5.40	µg/L	5	10/20/03 5:15 pm
Chloroform	ND		1.12	3.40	µg/L	5	10/20/03 5:15 pm
Tetrachloroethene	ND		4.02	12.0	µg/L	5	10/20/03 5:15 pm
Trichloroethene	ND		2.59	7.80	µg/L	5	10/20/03 5:15 pm
Vinyl chloride	ND		2.11	6.40	µg/L	5	10/20/03 5:15 pm
Surr: 4-Bromofluorobenzene	97.7		0	70-130	%REC	5	10/20/03 5:15 pm
Surr: Dibromofluoromethane	90.0		0	70-130	%REC	5	10/20/03 5:15 pm
Surr: Toluene-d8	105		0	70-130	%REC	5	10/20/03 5:15 pm
PCBS			Method: SW8082				Analyst: MH
Aroclor 1016	ND		120	361	µg/Kg-dry	1	10/15/03 9:08 am
Aroclor 1221	ND		120	361	µg/Kg-dry	1	10/15/03 9:08 am
Aroclor 1232	ND		120	361	µg/Kg-dry	1	10/15/03 9:08 am
Aroclor 1242	ND		120	361	µg/Kg-dry	1	10/15/03 9:08 am
Aroclor 1248	ND		120	361	µg/Kg-dry	1	10/15/03 9:08 am
Aroclor 1254	ND		120	361	µg/Kg-dry	1	10/15/03 9:08 am
Aroclor 1260	ND		120	361	µg/Kg-dry	1	10/15/03 9:08 am
Surr: Tetrachloro-m-xylene	89.2		0	33.7-156	%REC	1	10/15/03 9:08 am
BTU			Method: D240				Analyst: AB
BTU	1,520	c	0	0	BTU/lb-dry	1	10/13/03 9:30 am
CYANIDE, REACTIVE			Method: SW7.3.3.2				Analyst: AB
Reactive Cyanide	ND	c	0.06	0.1	mg/Kg-dry	5	10/14/03 9:50 am
MERCURY BY CVAA, TCLP			Method: SW1311/7470A				Analyst: NM
Mercury	ND		0.0002	0.0005	mg/L	1	10/16/03 5:40 pm
PAINT FILTER			Method: SW9095				Analyst: MB
Free Liquid	Pass	G c	0	0	Pass/Fail	1	10/17/03 12:00 am
PH (IN LABORATORY) <ATC>			Method: SW9045C				Analyst: EM
pH	8.07	H	0	0	pH Units	1	10/3/03 4:45 pm
PHENOLICS			Method: SW9065				Analyst: AB
Phenolics, Total Recoverable	ND	c	0.30	0.30	mg/kg-dry	50	10/15/03 12:00 pm
SULFIDE, REACTIVE			Method: SW7.3.4.2				Analyst: AB
Reactive Sulfide	25.0	H c	1.2	1.2	mg/Kg-dry	1	10/14/03 10:50 am

Lab Sample #: 03100069-02A	Collection Date: 10/1/03 11:00:00 AM
Client Sample ID: SP-02	Received Date: 10/2/03 1:50:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
COMPOSITE FOR ORGANICS			Method: COMPOSITE_OR				Analyst: NM
Composite_OR	10/02/03	c	0	0	Date-dry	1	10/2/03 12:00 am

Qualifiers:	ND - Not Detected at the Method Detection Limit	S - Spike Recovery outside accepted recovery limits
	J - Estimated or analyte detected below quantitation limit	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analysis run past method holding time
	c - Analyte not included in our scope of accreditation	DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

Lab Sample #: 03100069-02B	Collection Date: 10/1/03 11:00:00 AM
Client Sample ID: SP-02	Received Date: 10/2/03 1:50:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	1.3	SJ	0.64	1.9	mg/Kg-dry	1	10/7/03 10:03 am
Barium	59.0	RS	0.32	0.96	mg/Kg-dry	1	10/7/03 10:03 am
Cadmium	ND	S	0.096	0.29	mg/Kg-dry	1	10/7/03 10:03 am
Chromium	16.5	S	0.32	0.96	mg/Kg-dry	1	10/7/03 10:03 am
Lead	35.2	RS	0.64	1.9	mg/Kg-dry	1	10/7/03 10:03 am
Selenium	ND	S	0.64	1.9	mg/Kg-dry	1	10/7/03 10:03 am
Silver	ND	S	0.096	0.29	mg/Kg-dry	1	10/7/03 10:03 am
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: DP
1,2,4-Trichlorobenzene	ND		109	214	µg/Kg-dry	1	10/10/03 9:37 pm
1,2-Dichlorobenzene	ND		201	214	µg/Kg-dry	1	10/10/03 9:37 pm
1,3-Dichlorobenzene	ND		104	214	µg/Kg-dry	1	10/10/03 9:37 pm
1,4-Dichlorobenzene	ND		94.6	214	µg/Kg-dry	1	10/10/03 9:37 pm
2,4,5-Trichlorophenol	ND		77.4	214	µg/Kg-dry	1	10/10/03 9:37 pm
2,4,6-Trichlorophenol	ND		81.2	214	µg/Kg-dry	1	10/10/03 9:37 pm
2,4-Dichlorophenol	ND		82.5	214	µg/Kg-dry	1	10/10/03 9:37 pm
2,4-Dimethylphenol	ND		95.0	214	µg/Kg-dry	1	10/10/03 9:37 pm
2,4-Dinitrophenol	ND		65.1	214	µg/Kg-dry	1	10/10/03 9:37 pm
2,4-Dinitrotoluene	ND		46.2	214	µg/Kg-dry	1	10/10/03 9:37 pm
2,6-Dinitrotoluene	ND		90.2	214	µg/Kg-dry	1	10/10/03 9:37 pm
2-Chloronaphthalene	ND		60.7	214	µg/Kg-dry	1	10/10/03 9:37 pm
2-Chlorophenol	ND		212	214	µg/Kg-dry	1	10/10/03 9:37 pm
2-Methylnaphthalene	ND		80.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
2-Nitroaniline	ND		40.7	214	µg/Kg-dry	1	10/10/03 9:37 pm
2-Nitrophenol	ND		54.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
3,3-Dichlorobenzidine	ND		75.3	214	µg/Kg-dry	1	10/10/03 9:37 pm
3-Nitroaniline	ND		50.4	214	µg/Kg-dry	1	10/10/03 9:37 pm
4,6-Dinitro-2-methylphenol	ND		45.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
4-Bromophenyl phenyl ether	ND		31.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
4-Chloro-3-methylphenol	ND		118	214	µg/Kg-dry	1	10/10/03 9:37 pm
4-Chloroaniline	ND		45.3	214	µg/Kg-dry	1	10/10/03 9:37 pm
4-Chlorophenyl phenyl ether	ND		35.4	214	µg/Kg-dry	1	10/10/03 9:37 pm
4-Nitroaniline	ND		63.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
4-Nitrophenol	ND		46.2	214	µg/Kg-dry	1	10/10/03 9:37 pm
Bis(2-chloroethoxy)methane	ND		102	214	µg/Kg-dry	1	10/10/03 9:37 pm
Bis(2-chloroethyl)ether	ND		184	214	µg/Kg-dry	1	10/10/03 9:37 pm
Bis(2-chloroisopropyl)ether	ND		184	214	µg/Kg-dry	1	10/10/03 9:37 pm
Bis(2-ethylhexyl)phthalate	256		214	214	µg/Kg-dry	1	10/10/03 9:37 pm
Butyl benzyl phthalate	ND		92.0	214	µg/Kg-dry	1	10/10/03 9:37 pm
Carbazole	ND		214	214	µg/Kg-dry	1	10/10/03 9:37 pm
Di-n-butyl phthalate	ND		103	214	µg/Kg-dry	1	10/10/03 9:37 pm

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 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
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Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

Di-n-octyl phthalate	ND	58.1	214	µg/Kg-dry	1	10/10/03 9:37 pm
Dibenzofuran	249	39.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
Diethyl phthalate	ND	48.4	214	µg/Kg-dry	1	10/10/03 9:37 pm
Dimethyl phthalate	ND	64.6	214	µg/Kg-dry	1	10/10/03 9:37 pm
Hexachlorobenzene	ND	45.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
Hexachlorobutadiene	ND	117	214	µg/Kg-dry	1	10/10/03 9:37 pm
Hexachlorocyclopentadiene	ND	106	214	µg/Kg-dry	1	10/10/03 9:37 pm
Hexachloroethane	ND	124	214	µg/Kg-dry	1	10/10/03 9:37 pm
Isophorone	ND	54.8	214	µg/Kg-dry	1	10/10/03 9:37 pm
m,p-Cresol	ND	237	429	µg/Kg-dry	1	10/10/03 9:37 pm
N-Nitrosodi-n-propylamine	ND	105	214	µg/Kg-dry	1	10/10/03 9:37 pm
N-Nitrosodiphenylamine	ND	50.4	214	µg/Kg-dry	1	10/10/03 9:37 pm
Nitrobenzene	ND	137	214	µg/Kg-dry	1	10/10/03 9:37 pm
o-Cresol	ND	70.6	214	µg/Kg-dry	1	10/10/03 9:37 pm
Pentachlorophenol	ND	38.5	214	µg/Kg-dry	1	10/10/03 9:37 pm
Phenol	ND	49.2	214	µg/Kg-dry	1	10/10/03 9:37 pm
Surr: 2,4,6-Tribromophenol	65.1	0	20-117	%REC	1	10/10/03 9:37 pm
Surr: 2-Fluorobiphenyl	51.9	0	47-128	%REC	1	10/10/03 9:37 pm
Surr: 2-Fluorophenol	75.8	0	41-108	%REC	10	10/10/03 7:14 pm
Surr: 4-Terphenyl-d14	157	S	5-131	%REC	1	10/10/03 9:37 pm
Surr: Nitrobenzene-d5	43.0	0	32-120	%REC	1	10/10/03 9:37 pm
Surr: Phenol-d5	79.1	0	52-116	%REC	10	10/10/03 7:14 pm

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Acenaphthene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Acenaphthylene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Anthracene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Benzo(a)anthracene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Benzo(a)pyrene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Benzo(b)fluoranthene	51.4	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Benzo(g,h,i)perylene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Benzo(k)fluoranthene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Chrysene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Dibenzo(a,h)anthracene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Fluoranthene	90.6	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Fluorene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Indeno(1,2,3-cd)pyrene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Naphthalene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Phenanthrene	ND	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Pyrene	65.2	51.4	51.4	µg/Kg-dry	1	10/4/03 6:37 pm
Surr: 2-Fluorobiphenyl	98.6	0	59.3-135	%REC	1	10/4/03 6:37 pm
Surr: 4-Terphenyl-d14	127	0	51.4-151	%REC	1	10/4/03 6:37 pm
Surr: Nitrobenzene-d5	92.4	0	50.6-126	%REC	1	10/4/03 6:37 pm

MERCURY BY CVAA

Method: SW7471A

Analyst: BK

Mercury	1.79	0.026	0.11	mg/Kg-dry	1	10/6/03 1:19 pm
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PERCENT MOISTURE

Method: D2216

Analyst: BE

Percent Moisture	22.18	0	0	wt%	1	10/2/03 4:15 pm
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Qualifiers: ND - Not Detected at the Method Detection Limit
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 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

Lab Sample #: 03100069-02C	Collection Date: 10/1/03 11:00:00 AM
Client Sample ID: SP-02	Received Date: 10/2/03 1:50:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
SEMIVOLATILES, TCLP LEACHED							
			Method: SW1311/8270C				Analyst: LA
1,4-Dichlorobenzene	ND		8.84	26.5	µg/L	1	10/21/03 6:20 pm
2,4,5-Trichlorophenol	ND		7.24	21.7	µg/L	1	10/21/03 6:20 pm
2,4,6-Trichlorophenol	ND		7.60	22.8	µg/L	1	10/21/03 6:20 pm
2,4-Dinitrotoluene	ND		4.32	13.0	µg/L	1	10/21/03 6:20 pm
Hexachlorobenzene	ND		4.28	12.8	µg/L	1	10/21/03 6:20 pm
Hexachlorobutadiene	ND		10.9	32.8	µg/L	1	10/21/03 6:20 pm
Hexachloroethane	ND		11.6	34.9	µg/L	1	10/21/03 6:20 pm
m,p-Cresol	ND		22.2	66.6	µg/L	1	10/21/03 6:20 pm
Nitrobenzene	ND		12.8	38.5	µg/L	1	10/21/03 6:20 pm
O-Cresol	ND		6.60	19.8	µg/L	1	10/21/03 6:20 pm
Pentachlorophenol	ND		4.36	13.1	µg/L	1	10/21/03 6:20 pm
Pyridine	ND		9.84	29.5	µg/L	1	10/21/03 6:20 pm
Surr: 2,4,6-Tribromophenol	19.8		0	10-190	%REC	1	10/21/03 6:20 pm
Surr: 2-Fluorobiphenyl	62.2		0	37.7-106	%REC	1	10/21/03 6:20 pm
Surr: 2-Fluorophenol	8.40	S	0	11.1-127	%REC	1	10/21/03 6:20 pm
Surr: Nitrobenzene-d5	63.7		0	27.2-104	%REC	1	10/21/03 6:20 pm
Surr: Phenol-d6	9.64	S	0	9.97-133	%REC	1	10/21/03 6:20 pm
HERBICIDES, TCLP LEACHED							
			Method: SW1311/8151A				Analyst: MH
2,4,5-TP (Silvex)	ND	S	2.0	2.0	µg/L	1	10/19/03 12:37 am
2,4-D	ND	S	2.0	2.0	µg/L	1	10/19/03 12:37 am
Surr: DCAA	65.0		0	27.6-127	%REC	1	10/19/03 12:37 am
METALS BY ICP, TCLP LEACHED							
			Method: SW1311/6010B				Analyst: RA
Arsenic	ND		0.02	0.06	mg/L	1	10/14/03 10:29 pm
Barium	0.73	B	0.01	0.03	mg/L	1	10/14/03 10:29 pm
Cadmium	0.008	J	0.003	0.009	mg/L	1	10/14/03 10:29 pm
Chromium	ND		0.01	0.03	mg/L	1	10/14/03 10:29 pm
Lead	0.04	J	0.02	0.06	mg/L	1	10/14/03 10:29 pm
Selenium	0.02	J	0.02	0.06	mg/L	1	10/14/03 10:29 pm
Silver	ND		0.003	0.009	mg/L	1	10/14/03 10:29 pm
PESTICIDES, TCLP LEACHED							
			Method: SW1311/8081A				Analyst: LA
Chlordane	ND		2.00	6.00	µg/L	1	10/17/03 5:20 pm
Endrin	ND		0.200	0.600	µg/L	1	10/17/03 5:20 pm
gamma-BHC	ND		0.100	0.300	µg/L	1	10/17/03 5:20 pm
Heptachlor	ND		0.100	0.300	µg/L	1	10/17/03 5:20 pm
Heptachlor epoxide	ND		0.100	0.300	µg/L	1	10/17/03 5:20 pm
Methoxychlor	ND		1.00	3.00	µg/L	1	10/17/03 5:20 pm
Toxaphene	ND		4.00	12.0	µg/L	1	10/17/03 5:20 pm
Surr: Tetrachloro-m-xylene	73.8		0	21-128	%REC	1	10/17/03 5:20 pm
VOLATILES, TCLP LEACHED							
			Method: SW1311/8260B				Analyst: BK

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Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 03100069

Workorder Name: Golf Course

Date: Wednesday, October 22, 2003

1,1-Dichloroethene	ND		2.57	7.70	µg/L	5	10/20/03 5:52 pm
1,2-Dichloroethane	ND		1.46	4.40	µg/L	5	10/20/03 5:52 pm
2-Butanone	800		7.55	23.0	µg/L	5	10/20/03 5:52 pm
Benzene	ND		1.58	4.80	µg/L	5	10/20/03 5:52 pm
Carbon tetrachloride	ND		1.92	5.80	µg/L	5	10/20/03 5:52 pm
Chlorobenzene	ND		1.80	5.40	µg/L	5	10/20/03 5:52 pm
Chloroform	ND		1.12	3.40	µg/L	5	10/20/03 5:52 pm
Tetrachloroethene	ND		4.02	12.0	µg/L	5	10/20/03 5:52 pm
Trichloroethene	ND		2.59	7.80	µg/L	5	10/20/03 5:52 pm
Vinyl chloride	ND		2.11	6.40	µg/L	5	10/20/03 5:52 pm
Surr: 4-Bromofluorobenzene	95.9		0	70-130	%REC	5	10/20/03 5:52 pm
Surr: Dibromofluoromethane	92.5		0	70-130	%REC	5	10/20/03 5:52 pm
Surr: Toluene-d8	105		0	70-130	%REC	5	10/20/03 5:52 pm
PCBS							
		Method:	SW8082				Analyst: MH
Aroclor 1016	ND		128	383	µg/Kg-dry	1	10/15/03 9:53 am
Aroclor 1221	ND		128	383	µg/Kg-dry	1	10/15/03 9:53 am
Aroclor 1232	ND		128	383	µg/Kg-dry	1	10/15/03 9:53 am
Aroclor 1242	ND		128	383	µg/Kg-dry	1	10/15/03 9:53 am
Aroclor 1248	ND		128	383	µg/Kg-dry	1	10/15/03 9:53 am
Aroclor 1254	ND		128	383	µg/Kg-dry	1	10/15/03 9:53 am
Aroclor 1260	ND		128	383	µg/Kg-dry	1	10/15/03 9:53 am
Surr: Tetrachloro-m-xylene	81.8		0	33.7-156	%REC	1	10/15/03 9:53 am
BTU							
		Method:	D240				Analyst: AB
BTU	ND	c	0	0	BTU/lb-dry	1	10/13/03 9:30 am
CYANIDE, REACTIVE							
		Method:	SW7.3.3.2				Analyst: AB
Reactive Cyanide	ND	c	0.06	0.1	mg/Kg-dry	5	10/14/03 9:50 am
MERCURY BY CVAA, TCLP							
		Method:	SW1311/7470A				Analyst: NM
Mercury	ND		0.0002	0.0005	mg/L	1	10/16/03 5:40 pm
PAINT FILTER							
		Method:	SW9095				Analyst: MB
Free Liquid	Pass	c	0	0	Pass/Fail	1	10/17/03 12:00 am
PH (IN LABORATORY) <ATC>							
		Method:	SW9045C				Analyst: EM
pH	7.53	H	0	0	pH Units	1	10/3/03 4:45 pm
PHENOLICS							
		Method:	SW9065				Analyst: AB
Phenolics, Total Recoverable	ND	c	0.32	0.32	mg/kg-dry	50	10/15/03 12:00 pm
SULFIDE, REACTIVE							
		Method:	SW7.3.4.2				Analyst: AB
Reactive Sulfide	ND	SH c	1.3	1.3	mg/Kg-dry	1	10/14/03 10:50 am

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SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, Illinois 60162 (708) 544-3260

PREP DATES REPORT

Client ID: Toltest Inc.
Project Name: Golf Course

Workorder #: 03100069
Date: Wednesday, October 22, 2003

Lab Sample ID	Collection Date	Batch #	Prep Method	Prep Name	Prep Date
03100069-01B	10/1/03 10:30 am	10300	SW7471A	Mercury Prep for Solids	10/3/03 12:51 pm
	10/1/03 10:30 am	10295	SW3550B	SOLID PREP SONICATION: BNA	10/3/03 11:34 am
	10/1/03 10:30 am	10296	SW3550B	SOLID PREP SONICATION: BNA	10/3/03 11:34 am
	10/1/03 10:30 am	10348	SW3550B	SOLID PREP SONICATION: BNA	10/9/03 10:05 am
	10/1/03 10:30 am	10288	SW3050A	SOLID PREP TOTAL METALS: ICP	10/2/03 6:21 pm
03100069-01C	10/1/03 10:30 am	10374	SW3010A	AQUEOUS PREP TOTAL METALS: ICP	10/11/03 4:50 pm
	10/1/03 10:30 am	10385	E245.1/SW7470A	Mercury Prep for TCLP	10/13/03 5:47 pm
	10/1/03 10:30 am	10406	E245.1/SW7470A	Mercury Prep for TCLP	10/15/03 3:00 pm
	10/1/03 10:30 am	10352	SW3550B	SOLID PREP SONICATION: PCB	10/9/03 1:02 pm
	10/1/03 10:30 am	10414	SW3510B	TCLP AQ. PREP SEP FUNNEL: Pest	10/16/03 12:44 pm
	10/1/03 10:30 am	10421	SW3510B	TCLP AQ. PREP SEP FUNNEL: BNA	10/16/03 2:11 pm
	10/1/03 10:30 am	10395	SW8151A	TCLP AQ. PREP SEP FUNNEL: Herb	10/16/03 8:40 am
	10/1/03 10:30 am	10392	SW1311	TCLP SAMPLE PREP ZHE (VOCS)	10/13/03 11:30 pm
	10/1/03 10:30 am	10369	SW1311	TCLP SAMPLE PREP (Metals)	10/10/03 10:45 pm
	10/1/03 10:30 am	10353	SW1311	TCLP SAMPLE PREP (Organics)	10/9/03 12:20 am
03100069-02B	10/1/03 11:00 am	10300	SW7471A	Mercury Prep for Solids	10/3/03 12:51 pm
	10/1/03 11:00 am	10348	SW3550B	SOLID PREP SONICATION: BNA	10/9/03 10:05 am
	10/1/03 11:00 am	10296	SW3550B	SOLID PREP SONICATION: BNA	10/3/03 11:34 am
	10/1/03 11:00 am	10295	SW3550B	SOLID PREP SONICATION: BNA	10/3/03 11:34 am
	10/1/03 11:00 am	10288	SW3050A	SOLID PREP TOTAL METALS: ICP	10/2/03 6:21 pm
03100069-02C	10/1/03 11:00 am	10374	SW3010A	AQUEOUS PREP TOTAL METALS: ICP	10/11/03 4:50 pm
	10/1/03 11:00 am	10385	E245.1/SW7470A	Mercury Prep for TCLP	10/13/03 5:47 pm
	10/1/03 11:00 am	10406	E245.1/SW7470A	Mercury Prep for TCLP	10/15/03 3:00 pm
	10/1/03 11:00 am	10352	SW3550B	SOLID PREP SONICATION: PCB	10/9/03 1:02 pm
	10/1/03 11:00 am	10414	SW3510B	TCLP AQ. PREP SEP FUNNEL: Pest	10/16/03 12:44 pm
	10/1/03 11:00 am	10421	SW3510B	TCLP AQ. PREP SEP FUNNEL: BNA	10/16/03 2:11 pm
	10/1/03 11:00 am	10395	SW8151A	TCLP AQ. PREP SEP FUNNEL: Herb	10/16/03 8:40 am
	10/1/03 11:00 am	10392	SW1311	TCLP SAMPLE PREP ZHE (VOCS)	10/13/03 11:30 pm
	10/1/03 11:00 am	10369	SW1311	TCLP SAMPLE PREP (Metals)	10/10/03 10:45 pm
	10/1/03 11:00 am	10353	SW1311	TCLP SAMPLE PREP (Organics)	10/9/03 12:20 am



APPENDIX E
WASTE MANIFESTS

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IL7170024577		Manifest Document No. 11101		2. Page 1 of 1		Information in the shaded areas is not required by Federal law, but is required by Illinois law.					
3. Generator's Name and Mailing Address ACOS Installations and environmental 201 Decatur Ave. Bldg 1A - Great Lakes, IL 60088						A. Illinois Manifest Document Number IL 9627869 FEE PAID IF APPLICABLE							
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (847) 688-4820						B. Generator's IL ID Number 091712551004							
5. Transporter 1 Company Name Kirschoffer Trucking				6. US EPA ID Number		C. Transporter's ID Number 2439							
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone (847) 395-6202							
9. Designated Facility Name and Site Address Kestrel Hawk RDF 1989 Oakes Rd. Racine, WI 53406						10. US EPA ID Number							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. Non hazardous soil impacted with hydrocarbons						00		100		15		Y	
b.												EPA HW Number	
c.												EPA HW Number	
d.												EPA HW Number	
J. Additional Description for Materials Listed Above P.O.C. Mr. Kelly Devereaux (847) 688-6734 x11 Profile # MW312058						K. Handling Codes for Wastes Listed Above in Item #14							
15. Special Handling Instructions and Additional Information 22.76													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										Date Month Day Year 0111504			
Printed/Typed Name CARLO LUCIANO				Signature <i>[Signature]</i>									
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name Jay Collins		Signature <i>[Signature]</i>		Date Month Day Year 0111504			
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name		Signature		Date Month Day Year			
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.										Date Month Day Year 0111504			
Printed/Typed Name L. Garcia				Signature <i>[Signature]</i>									

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IL 7170024577		Manifest Document No. 11100	2. Page 1 of 1		Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address ALOS Installations and Environmental 201 Decatur Ave, Bldg 1A - Great Lakes, IL 60088					A. Illinois Manifest Document Number IL 9627870 FEE PAID IF APPLICABLE			
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (847) 688-4820					B. Generator's IL ID Number 09711255004			
5. Transporter 1 Company Name Kirschoffer Trucking			6. US EPA ID Number		C. Transporter's ID Number 2439			
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone (847) 395-6202			
9. Designated Facility Name and Site Address Kestrel Hawk RDE 1989 Oaks Rd. Racine, WI 53406			10. US EPA ID Number		E. Transporter's ID Number			
					F. Transporter's Phone ()			
					G. Facility's IL ID Number			
					H. Facility's Phone (262) 884-7080			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non hazardous soil impacted with hydrocarbons					0.01	DT000115	Y	EPA HW Number
b.								EPA HW Number
c.								EPA HW Number
d.								EPA HW Number
J. Additional Description for Materials Listed Above POC: Mr. Kelly Desreux (847) 688-6934 x11 Profile: MW31205B					K. Handling Codes for Wastes Listed Above In Item #14			
15. Special Handling Instructions and Additional Information 21.10 lbs.								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name CARLO LUCIANO				Signature <i>[Signature]</i>			Date Month Day Year 01/15/04	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name MIKE KANDKE				Signature <i>[Signature]</i>			Date Month Day Year 01/15/04	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature			Date Month Day Year	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							Date	
Printed/Typed Name L. Garcia				Signature <i>[Signature]</i>			Date Month Day Year 01/15/04	

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1024, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IL 717 0024577		Manifest Document No. 11102		2. Page 1 of 1		Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address ACOS Installations & Environmental 201 Decatur Ave, Bldg 1A - Great Lakes, IL 60088				Location If Different		A. Illinois Manifest Document Number IL 9627871 FEE PAID IF APPLICABLE			
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (817) 688-4820				6. US EPA ID Number		B. Generator's IL ID Number 091711255004			
5. Transporter 1 Company Name Kirschoffer Trucking		7. Transporter 2 Company Name		8. US EPA ID Number		C. Transporter's ID Number 2439			
9. Designated Facility Name and Site Address Kestrel Hawk RDF 1989 Oakes Rd. Racine, WI 53406				10. US EPA ID Number		D. Transporter's Phone (817) 395-6202			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. Non hazardous hydrocarbon impacted soil				20. 10T0, 00154				I. Waste No. EPA HW Number	
b.								EPA HW Number	
c.								EPA HW Number	
d.								EPA HW Number	
J. Additional Description for Materials Listed Above Poc Mr. Kelly Devereaux (817) 688-6934 x11 Profile: MW 312058						K. Handling Codes for Wastes Listed Above In Item #14			
15. Special Handling Instructions and Additional Information 20.20 HUS #290									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name CARLO LUCIANO				Signature <i>[Signature]</i>				Date 01/15/04	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name MIRO SIVI A				Signature <i>[Signature]</i>				Date 01/15/04	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.								Date	
Printed/Typed Name L. Garcia				Signature <i>[Signature]</i>				Date 01/15/04	

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IL 7170024577		Manifest Document No. 11103		2. Page 1 of 1		Information in the shaded areas is not required by Federal law, but is required by Illinois law.			
3. Generator's Name and Mailing Address ACOS Installations & Environmental 201 Decatur Ave, Bldg 1A, Great Lakes, IL 60088				Location If Different Willow Glen Golf Course		A. Illinois Manifest Document Number IL 9627872 FEE PAID IF APPLICABLE					
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 847 688-4820				6. US EPA ID Number		B. Generator's ID Number 09712550104					
5. Transporter 1 Company Name Kirschoffer Toking				8. US EPA ID Number		C. Transporter's ID Number 2439					
7. Transporter 2 Company Name				10. US EPA ID Number		D. Transporter's Phone (847) 395-6202					
9. Designated Facility Name and Site Address Kestrel Hawk RDF 1989 Oaks Rd. Racine, WI 53406				12. Containers No. Type 001DT 00015Y		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. Non Hazardous soil impacted with Hydrocarbons				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		EPA HW Number	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) b.				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		EPA HW Number	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) c.				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		EPA HW Number	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) d.				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		EPA HW Number	
J. Additional Description for Materials Listed Above POC: Mr. Kelly Devereaux 847 688-6934 x11 Profile: MW312058				K. Handling Codes for Wastes Listed Above In Item #14							
15. Special Handling Instructions and Additional Information 2199											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name CARLO LUCIANO				Signature <i>[Signature]</i>				Date Month Day Year 011504			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Nelson Ehard				Signature <i>[Signature]</i>				Date Month Day Year 011504			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Date Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 19. Printed/Typed Name L. Garcia				Signature <i>[Signature]</i>				Date Month Day Year 011504			

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IL 717 0024577		Manifest Document No. 11104	2. Page 1 of 1		Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address ACOS Installations & Environmental 201 Deratur Ave, Bldg 1A, Great Lakes, IL 60088					Location If Different Willow Glen Golf Course		A. Illinois Manifest Document Number IL 9627873 FEE PAID IF APPLICABLE	
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (847) 688-4880					6. US EPA ID Number		B. Generator's IL ID Number 0971255004	
5. Transporter 1 Company Name Kirschner Trucking					7. Transporter 2 Company Name		C. Transporter's ID Number 2439	
9. Designated Facility Name and Site Address Kestrel Hawk RIF 1959 Oaks Rd Racine, WI 53406					10. US EPA ID Number		D. Transporter's Phone (847) 395-6202	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)					12. Containers No. Type		13. Total Quantity	
a. Non Hazardous soil imported w/ Hydrocarbons					0.01 PT		00015 Y	
b.							EPA HW Number	
c.							EPA HW Number	
d.							EPA HW Number	
J. Additional Description for Materials Listed Above POC: Mr. Kelly Demersaux 847 688-6934 x11 Profile: MW 312058					K. Handling Codes for Wastes Listed Above In Item #14			
15. Special Handling Instructions and Additional Information 23.13 tons								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name CARLO LUCIANO					Signature <i>[Signature]</i>		Date 01/15/04	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Andy Pantor					Signature <i>[Signature]</i>		Date 01/15/04	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name					Signature		Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name L. Garcia					Signature <i>[Signature]</i>		Date 01/15/04	

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IL 7170024577	Manifest Document No. 11109	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address ACOS Installations & Environmental 201 Decatur Ave, Bldg 1A, Great Lakes, IL 60088			Location If Different Willow Glen Golf Course		A. Illinois Manifest Document Number IL 9627874 FEE PAID IF APPLICABLE	
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 847 688-4820			6. US EPA ID Number		B. Generator's IL ID Number 0971255004	
5. Transporter 1 Company Name Kirschoffer Trucking			7. Transporter 2 Company Name		C. Transporter's ID Number 2439	
9. Designated Facility Name and Site Address Kestrel Hawk RDF 1989 Oaks Rd Racine, WI 53406			10. US EPA ID Number		D. Transporter's Phone (847) 395-6207	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No. Type		13. Total Quantity	
a. Non Hazardous soil impacted with Hydrocarbons			001 DT		000,15 Y	
b.					EPA HW Number	
c.					EPA HW Number	
d.					EPA HW Number	
J. Additional Description for Materials Listed Above PDC Mr. Kelly Dweraw 847 688-6934 x11 Profile: MW312058			K. Handling Codes for Wastes Listed Above in Item #14			
15. Special Handling Instructions and Additional Information 27.22 tbs.						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name CARLO LUCIANO			Signature <i>[Signature]</i>		Date Month Day Year 01/15/04	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name MAKE RANDELLE			Signature <i>[Signature]</i>		Date Month Day Year 01/15/04	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Date Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name L. Garcia			Signature <i>[Signature]</i>		Date Month Day Year 01/15/04	

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12 pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IL 7170024577	Manifest Document No. 11106	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address ACOS Installations & Environmental 201 Deane Ave, Bldg 1A Great Lakes, IL 60088		Location If Different Willow Glen Golf Course		A. Illinois Manifest Document Number IL 10240309 FEE PAID IF APPLICABLE		
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*		6. US EPA ID Number KIRSCHOFFER TRUCKING		B. Generator's IL ID Number 1097110550104		
5. Transporter 1 Company Name		7. Transporter 2 Company Name		C. Transporter's ID Number 2439		
9. Designated Facility Name and Site Address KESTREL HAWK RDF 1989 OAKS RD PISCINE, WI 53406		10. US EPA ID Number		D. Transporter's Phone 847 395-6202		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.		13. Total Quantity		14. Unit Wt/Vol
a. NON HAZARDOUS SOIL IMPACTED WITH HYDROCARBONS		0-0-1 DT		000115 Y		I. Waste No. EPA HW Number
b.		.		.		EPA HW Number
c.		.		.		EPA HW Number
d.		.		.		EPA HW Number
J. Additional Description for Materials Listed Above POC: MR KELLY DEVEREAUX (847) 688-6934 X11 PROFILE: MW31205B		K. Handling Codes for Wastes Listed Above in Item #14				
15. Special Handling Instructions and Additional Information 23.4576						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name CARLO LUCIANO		Signature <i>[Signature]</i>		Date 01/11/504		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name JAY DALLING		Signature <i>[Signature]</i>		Date 01/11/504
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name		Signature		Date 01/11/504

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12 pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL 7170024577

Manifest Document No. 111098

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address

ACOS Installations & Environmental
301 Decatur Ave, Bldg 1A, Great Lakes, IL 60088

Location If Different

Willow Glen Golf Course

A. Illinois Manifest Document Number

IL 10240310 FEE PAID IF APPLICABLE

B. Generator's IL ID Number

109712550104

5. Transporter 1 Company Name

Kirschaffer Trucking

6.

US EPA ID Number

C. Transporter's ID Number

2439

7. Transporter 2 Company Name

8.

US EPA ID Number

D. Transporter's Phone 847-395-6202

E. Transporter's ID Number

9. Designated Facility Name and Site Address

Kestrel Hawk RDF
1989 Oaks Rd.
Rome IL 61846

10.

US EPA ID Number

F. Transporter's Phone ()

G. Facility's IL ID Number

H. Facility's Phone 262-884-7080

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type

13. Total Quantity

14. Unit W/Vol

I. Waste No.

a. Non Hazardous soil impacted with Hydrocarbons

0.01 D.T 9010115 Y

EPA HW Number

EPA HW Number

EPA HW Number

EPA HW Number

J. Additional Description for Materials Listed Above

POC Mr. Kelly Devraux 847-688-6934 x11
Profile: MW312058

K. Handling Codes for Wastes Listed Above in Item #14

15. Special Handling Instructions and Additional Information

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

CARLO LUCIAPPO

Signature

[Signature]

Date

Month Day Year

0111504

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Nelson Elrod

Signature

[Signature]

Date

Month Day Year

0111504

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 19.

Printed/Typed Name

[Name]

Signature

[Signature]

Date

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12 pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 11 7170024577		Manifest Document No. 11107		2. Page 1 of 1		Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address ACOS Installations & Environmental 201 Decatur Ave, Bldg 1A, Great Lakes, IL, 60088						Location If Different Willow Glen Golf Course		A. Illinois Manifest Document Number IL 10240311	
4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 847 688-4820						6. US EPA ID Number		B. Generator's IL ID Number 10971125510104	
5. Transporter 1 Company Name Kieschaffer Trucking						8. US EPA ID Number		C. Transporter's ID Number 2439	
7. Transporter 2 Company Name						10. US EPA ID Number		D. Transporter's Phone 847 395-6202	
9. Designated Facility Name and Site Address Kestrel Hawk RDF 1989 Oaks Rd. Racine, WI 53406						11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		E. Transporter's ID Number	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		F. Transporter's Phone ()	
a. Non Hazardous soil impacted with Hydrocarbons						0.0.1 D.T		13. Total Quantity 010115 Y	
b.						.		14. Unit W/Vol Y	
c.						.		I. Waste No. EPA HW Number	
d.						.		EPA HW Number	
J. Additional Description for Materials Listed Above POC Mr. Kelly Deveraux 847 688-6934 x11 Profile: MW 312058						K. Handling Codes for Wastes Listed Above In Item #14			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name CARLO LUCIANO						Signature		Date Month Day Year 01/15/04	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name MIKE SILVA						Signature		Date Month Day Year 01/15/04	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature		Date Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name L. Garcia						Signature		Date Month Day Year 01/15/04	

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12 pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **IL7170024577** Manifest Document No. **111109**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
ACOS Installations & Environmental
201 Decatur Ave, Bldg 1A, Great Lakes, IL 60088
Location If Different **Willow Glen Golf Course**

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* **347 688-4820**

5. Transporter 1 Company Name **Kirschoffer Trucking** 6. US EPA ID Number

7. Transporter 2 Company Name 8. US EPA ID Number

9. Designated Facility Name and Site Address **Kestrel Hawk RDF**
1989 Oaks Rd
Racine, WI 53406 10. US EPA ID Number

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a.	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
b. Non Hazardous soil impacted with hydrocarbons	0.0.1	DT	20.0	115 Y
c.				
d.				

J. Additional Description for Materials Listed Above
POC: Mr. Kelly Deveraux 347 688-6934 x 11
Profile: MW312058

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **CARLO LUCIANO** Signature *[Signature]* Date **10/11/504**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **ANDY BUNTER** Signature *[Signature]* Date **10/11/504**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Date

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of ~~hazardous~~ materials covered by this manifest except as noted in item 19.
Printed/Typed Name **L Garcia** Signature *[Signature]* Date **10/11/504**

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675

GENERATOR TRANSPORTER FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.



APPENDIX F

**LABORATORY ANALYTICAL REPORTS AND
CHAIN OF CUSTODY FORMS**



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.SuburbanLabs.com



February 11, 2004

Jeff Tinney
Toltest Inc.
1000 S. Northpoint Blvd.
Waukegan, IL 600858213
Tel: (847) 689-0697
Fax: (847) 689-0698

Project Name: 73742.01 / Willow Glen Golf Course

Workorder #: 04020099

Dear Jeff Tinney,

Suburban Laboratories, Inc. received 6 samples on 2/4/04 11:30:00 AM for the analyses presented in the following report.

There were no problems with the analyses and all the data for the associated QC met EPA or laboratory specifications except where noted in the case narrative.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. Also included in this is some or all of your analytical results reported in dry weight basis. This is designated on the analytical report in the units field, you will see a "Dry" after the normal reporting units. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call your customer service representative at (708) 544-3260.

Sincerely,

Mike Chung

Data Review Manager

CC:



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.SuburbanLabs.com



Client ID: Toltest Inc.

Workorder Name: 73742.01 / Willow Glen Golf Course

Workorder #: 04020099

COC #: 33982, 83

Temp Upon Receipt: 2.5 °C

CASE NARRATIVE

Date: Wednesday, February 11, 200

PO #:

QC Level: LEVEL I

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of Part 186 unless otherwise indicated.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For more information about the laboratories' scope of accreditation, please contact Suburban or the Agency.
- MDL: Method Detection Limit. The minimum concentration of an analyte that can be measured and reported with a 99% confidence that analyte is greater than zero.
- PQL: Practical Quantitation Limit. The lowest concentration that can be reliably achieved within specified requirements of precision and accuracy during routine laboratory operating conditions. The PQL is generally 3 times the MDL.
- DF: Dilution Factor
- <ATC>: Automatic Temperature Correction.

Data Qualifiers:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ: The analyte was not detected above the reported detection limit. However, the reported limits approximate and may or may not represent the actual limits of detection and quantitation necessary to accurately and precisely measure the analyte in the sample.

I: Result is Invalid; CS: Compound Screened; TNTC: Too Numerous to Count

Method References:

E: USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40CFR136 App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water

SW: USEPA, Test Methods for Evaluating Solid Waste, SW-846, 3rd Ed, includes Updates I-III

M: APHA, Standard Methods for the Examination of Water and Wastewater, 18th & 19th Ed.

D: ASTM, Annual Book of Standards F: NAS, Food Chemicals Codex (FCC), 4th Edition

B: US FDA Bacteriological Analytical Manual (BAM) 8th Edition, 1995

USP: US Pharmacopoeia, 26th Revision, 2002

USGS: United States Geological Survey

Project Specific Comments:

Volatiles: Q = The Internal standard recovery for this analyte in the sample is outside in-house laboratory criteria due to sample matrix (no method specific requirement for internal standard recovery on a sample by sample basis).

Sample 04020099-06A; S=The MS and the MSD percent recoveries were outside laboratory control limits (70% - 130%) for the following analytes:

	MS%	MSD%
Benzene	58	59
Chlorobenzene	37	44
Toluene	45	48
Trichloroethene	57	61

Semivolatiles:

Client ID: Toltest Inc.

Workorder Name: 73742.01 / Willow Glen Golf Course

Workorder #: 04020099

COC #: 33982, 83

Temp Upon Receipt: 2.5 °C

CASE NARRATIVE

Date: Wednesday, February 11, 200

PO #:

QC Level: LEVEL I

Sample 04020099-03B: S = The MS and/or the MSD recoveries for the following analytes were outside laboratory control limits. R = The RPD for the following analytes were outside laboratory control limits:

ANALYTE	%MS	%MSD	%LIMITS	%RPD	%LIMIT
1,2,4-Trichlorobenzene	56	10.0	38.0-107	139	23
1,4-Dichlorobenzene	33	11.0	28.0-104	142	27
2,4-Dinitrotoluene	39	11.3	28.0-89.0	150	47
2-Chlorophenol	72	13.3	25.0-102	137	50
4-Chloro-3-Methylphenol	73	12.9	26.0-103	140	33
4-Nitrophenol	58	18.3	11.0-114	104	50
N-Nitrosodi-n-propylamine	42	14.6	41.0-126	140	38
Pentachlorophenol	45	14.4	17.0-109	103	47
Phenol	77	14.8	26.0-90.0	135	35



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-01A
Client Sample ID: SB1 - 2
Matrix: SOIL

Collection Date: 2/3/04 10:52:00 AM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.262	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.391	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
1,1,2-Trichloroethane	ND		0.817	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
1,1-Dichloroethane	ND		0.283	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
1,1-Dichloroethene	ND		0.607	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
1,2-Dichloroethane	ND		0.345	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
1,2-Dichloropropane	ND		0.530	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
2-Butanone	ND		1.78	5.90	µg/Kg-dry	1	2/5/04 2:09 pm
2-Hexanone	ND		0.880	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
4-Methyl-2-pentanone	ND		0.720	5.90	µg/Kg-dry	1	2/5/04 2:09 pm
Acetone	7.79		3.49	5.90	µg/Kg-dry	1	2/5/04 2:09 pm
Benzene	ND		0.374	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Bromodichloromethane	ND		0.238	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Bromoform	ND		0.591	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Bromomethane	ND		2.89	5.90	µg/Kg-dry	1	2/5/04 2:09 pm
Carbon disulfide	ND	J	0.470	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Carbon tetrachloride	ND		0.452	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Chlorobenzene	ND		0.426	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Chloroethane	ND		4.75	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Chloroform	ND		0.264	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Chloromethane	ND		1.30	5.90	µg/Kg-dry	1	2/5/04 2:09 pm
cis-1,2-Dichloroethene	ND		0.338	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
cis-1,3-Dichloropropene	ND		0.344	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Dibromochloromethane	ND		0.404	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Ethylbenzene	ND		0.444	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
m,p-Xylene	ND		1.01	2.36	µg/Kg-dry	1	2/5/04 2:09 pm
Methyl tert-butyl ether	ND		0.309	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Methylene chloride	ND		0.465	5.90	µg/Kg-dry	1	2/5/04 2:09 pm
o-Xylene	ND		0.643	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Styrene	ND		0.400	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Tetrachloroethene	ND		0.948	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Toluene	ND		0.452	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
trans-1,2-Dichloroethene	ND		0.640	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
trans-1,3-Dichloropropene	ND		0.413	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Trichloroethene	ND		0.612	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Vinyl chloride	ND		0.499	1.18	µg/Kg-dry	1	2/5/04 2:09 pm
Surr: 4-Bromofluorobenzene	85.0		0	61.55-121	%REC	1	2/5/04 2:09 pm
Surr: Dibromofluoromethane	106		0	71.4-147	%REC	1	2/5/04 2:09 pm
Surr: Toluene-d8	94.8		0	61-135	%REC	1	2/5/04 2:09 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
MDL-Continued
Fracton2003 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-01B
Client Sample ID: SB1 - 2
Matrix: SOIL

Collection Date: 2/3/04 10:52:00 AM
Received Date: 2/4/04 11:30:00 AM

Table with columns: Analyses, Result, Qual, MDL, PQL, Units, DF, Date Analyzed. Contains data for METALS BY ICP and SEMIVOLATILE ORGANICS (BNAS).

Qualifiers: ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time
DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Di-n-octyl phthalate	ND	53.5	197	µg/Kg-dry	1	2/9/04 9:10 pm
Dibenzofuran	ND	36.6	197	µg/Kg-dry	1	2/9/04 9:10 pm
Diethyl phthalate	ND	44.5	197	µg/Kg-dry	1	2/9/04 9:10 pm
Dimethyl phthalate	ND	59.4	197	µg/Kg-dry	1	2/9/04 9:10 pm
Hexachlorobenzene	ND	42.1	197	µg/Kg-dry	1	2/9/04 9:10 pm
Hexachlorobutadiene	ND	107	197	µg/Kg-dry	1	2/9/04 9:10 pm
Hexachlorocyclopentadiene	ND	97.6	197	µg/Kg-dry	1	2/9/04 9:10 pm
Hexachloroethane	ND	115	197	µg/Kg-dry	1	2/9/04 9:10 pm
Isophorone	ND	50.4	197	µg/Kg-dry	1	2/9/04 9:10 pm
m,p-Cresol	ND	218	394	µg/Kg-dry	1	2/9/04 9:10 pm
N-Nitrosodi-n-propylamine	ND	96.5	197	µg/Kg-dry	1	2/9/04 9:10 pm
N-Nitrosodiphenylamine	ND	46.4	197	µg/Kg-dry	1	2/9/04 9:10 pm
Nitrobenzene	ND	126	197	µg/Kg-dry	1	2/9/04 9:10 pm
o-Cresol	ND	64.9	197	µg/Kg-dry	1	2/9/04 9:10 pm
Pentachlorophenol	ND	35.4	197	µg/Kg-dry	1	2/9/04 9:10 pm
Phenol	ND	45.2	197	µg/Kg-dry	1	2/9/04 9:10 pm
Surr: 2,4,6-Tribromophenol	48.3	0	20-117	%REC	1	2/9/04 9:10 pm
Surr: 2-Fluorobiphenyl	72.4	0	47-128	%REC	1	2/9/04 9:10 pm
Surr: 2-Fluorophenol	64.5	0	41-108	%REC	1	2/9/04 9:10 pm
Surr: 4-Terphenyl-d14	82.4	0	5-131	%REC	1	2/9/04 9:10 pm
Surr: Nitrobenzene-d5	69.6	0	32-120	%REC	1	2/9/04 9:10 pm
Surr: Phenol-d5	71.5	0	52-116	%REC	1	2/9/04 9:10 pm
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: SW8270C		Analyst: LA		
Acenaphthene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Acenaphthylene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Anthracene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Benzo(a)anthracene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Benzo(a)pyrene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Benzo(b)fluoranthene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Benzo(g,h,i)perylene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Benzo(k)fluoranthene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Chrysene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Dibenzo(a,h)anthracene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Fluoranthene	49.7	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Fluorene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Indeno(1,2,3-cd)pyrene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Naphthalene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Phenanthrene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Pyrene	ND	46.6	46.6	µg/Kg-dry	1	2/5/04 4:37 pm
Surr: 2-Fluorobiphenyl	110	0	59.3-135	%REC	1	2/5/04 4:37 pm
Surr: 4-Terphenyl-d14	122	0	51.4-151	%REC	1	2/5/04 4:37 pm
Surr: Nitrobenzene-d5	117	0	50.6-126	%REC	1	2/5/04 4:37 pm
MERCURY BY CVAA		Method: SW7471A		Analyst: NM		
Mercury	ND	0.020	0.082	mg/Kg-dry	1	2/10/04 12:17 pm
PERCENT MOISTURE		Method: D2216		Analyst: BE		
Percent Moisture	15.30	0	0	wt%	1	2/6/04 2:30 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor

MDL-Certified
Traceable 2003



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-02A
Client Sample ID: SB2-2
Matrix: SOIL

Collection Date: 2/3/04 8:00:00 AM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.262	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.390	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
1,1,2-Trichloroethane	ND		0.815	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
1,1-Dichloroethane	ND		0.283	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
1,1-Dichloroethene	ND		0.606	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
1,2-Dichloroethane	ND		0.344	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
1,2-Dichloropropane	ND		0.529	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
2-Butanone	ND		1.78	5.89	µg/Kg-dry	1	2/5/04 2:46 pm
2-Hexanone	ND		0.878	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
4-Methyl-2-pentanone	ND		0.719	5.89	µg/Kg-dry	1	2/5/04 2:46 pm
Acetone	14.6		3.49	5.89	µg/Kg-dry	1	2/5/04 2:46 pm
Benzene	ND		0.373	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Bromodichloromethane	ND		0.238	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Bromoform	ND		0.590	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Bromomethane	ND		2.89	5.89	µg/Kg-dry	1	2/5/04 2:46 pm
Carbon disulfide	0.71	J	0.469	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Carbon tetrachloride	ND		0.451	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Chlorobenzene	ND		0.425	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Chloroethane	ND		4.74	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Chloroform	ND		0.264	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Chloromethane	ND		1.30	5.89	µg/Kg-dry	1	2/5/04 2:46 pm
cis-1,2-Dichloroethene	ND		0.337	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
cis-1,3-Dichloropropene	ND		0.343	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Dibromochloromethane	ND		0.403	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Ethylbenzene	ND		0.443	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
m,p-Xylene	ND		1.00	2.36	µg/Kg-dry	1	2/5/04 2:46 pm
Methyl tert-butyl ether	ND		0.309	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Methylene chloride	ND		0.464	5.89	µg/Kg-dry	1	2/5/04 2:46 pm
o-Xylene	ND		0.642	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Styrene	ND		0.399	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Tetrachloroethene	ND		0.946	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Toluene	ND		0.451	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
trans-1,2-Dichloroethene	ND		0.639	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
trans-1,3-Dichloropropene	ND		0.412	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Trichloroethene	ND		0.610	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Vinyl chloride	ND		0.498	1.18	µg/Kg-dry	1	2/5/04 2:46 pm
Surr: 4-Bromofluorobenzene	80.0		0	61.55-121	%REC	1	2/5/04 2:46 pm
Surr: Dibromofluoromethane	112		0	71.4-147	%REC	1	2/5/04 2:46 pm
Surr: Toluene-d8	90.4		0	61-135	%REC	1	2/5/04 2:46 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-02B

Collection Date: 2/3/04 8:00:00 AM

Client Sample ID: SB2-2

Received Date: 2/4/04 11:30:00 AM

Matrix: SOIL

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	2.7	J	2.3	6.8	mg/Kg-dry	1	2/9/04 4:58 pm
Barium	44.0		1.1	3.4	mg/Kg-dry	1	2/9/04 4:58 pm
Cadmium	ND		0.34	1.0	mg/Kg-dry	1	2/9/04 4:58 pm
Chromium	22.7		1.1	3.4	mg/Kg-dry	1	2/9/04 4:58 pm
Lead	7.28		2.3	6.8	mg/Kg-dry	1	2/9/04 4:58 pm
Selenium	ND		2.3	6.8	mg/Kg-dry	1	2/9/04 4:58 pm
Silver	ND		0.34	1.0	mg/Kg-dry	1	2/9/04 4:58 pm
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		100	197	µg/Kg-dry	1	2/9/04 9:49 pm
1,2-Dichlorobenzene	ND		185	197	µg/Kg-dry	1	2/9/04 9:49 pm
1,3-Dichlorobenzene	ND		95.4	197	µg/Kg-dry	1	2/9/04 9:49 pm
1,4-Dichlorobenzene	ND		86.8	197	µg/Kg-dry	1	2/9/04 9:49 pm
2,4,5-Trichlorophenol	ND		71.0	197	µg/Kg-dry	1	2/9/04 9:49 pm
2,4,6-Trichlorophenol	ND		74.6	197	µg/Kg-dry	1	2/9/04 9:49 pm
2,4-Dichlorophenol	ND		75.8	197	µg/Kg-dry	1	2/9/04 9:49 pm
2,4-Dimethylphenol	ND		87.2	197	µg/Kg-dry	1	2/9/04 9:49 pm
2,4-Dinitrophenol	ND		59.7	197	µg/Kg-dry	1	2/9/04 9:49 pm
2,4-Dinitrotoluene	ND		42.4	197	µg/Kg-dry	1	2/9/04 9:49 pm
2,6-Dinitrotoluene	ND		82.8	197	µg/Kg-dry	1	2/9/04 9:49 pm
2-Chloronaphthalene	ND		55.7	197	µg/Kg-dry	1	2/9/04 9:49 pm
2-Chlorophenol	ND		194	197	µg/Kg-dry	1	2/9/04 9:49 pm
2-Methylnaphthalene	ND		74.2	197	µg/Kg-dry	1	2/9/04 9:49 pm
2-Nitroaniline	ND		37.3	197	µg/Kg-dry	1	2/9/04 9:49 pm
2-Nitrophenol	ND		50.3	197	µg/Kg-dry	1	2/9/04 9:49 pm
3,3-Dichlorobenzidine	ND		69.2	197	µg/Kg-dry	1	2/9/04 9:49 pm
3-Nitroaniline	ND		46.3	197	µg/Kg-dry	1	2/9/04 9:49 pm
4,6-Dinitro-2-methylphenol	ND		42.1	197	µg/Kg-dry	1	2/9/04 9:49 pm
4-Bromophenyl phenyl ether	ND		29.2	197	µg/Kg-dry	1	2/9/04 9:49 pm
4-Chloro-3-methylphenol	ND		109	197	µg/Kg-dry	1	2/9/04 9:49 pm
4-Chloroaniline	ND		41.6	197	µg/Kg-dry	1	2/9/04 9:49 pm
4-Chlorophenyl phenyl ether	ND		32.5	197	µg/Kg-dry	1	2/9/04 9:49 pm
4-Nitroaniline	ND		58.6	197	µg/Kg-dry	1	2/9/04 9:49 pm
4-Nitrophenol	ND		42.4	197	µg/Kg-dry	1	2/9/04 9:49 pm
Bis(2-chloroethoxy)methane	ND		93.9	197	µg/Kg-dry	1	2/9/04 9:49 pm
Bis(2-chloroethyl)ether	ND		168	197	µg/Kg-dry	1	2/9/04 9:49 pm
Bis(2-chloroisopropyl)ether	ND		168	197	µg/Kg-dry	1	2/9/04 9:49 pm
Bis(2-ethylhexyl)phthalate	ND		197	197	µg/Kg-dry	1	2/9/04 9:49 pm
Butyl benzyl phthalate	ND		84.5	197	µg/Kg-dry	1	2/9/04 9:49 pm
Carbazole	ND		197	197	µg/Kg-dry	1	2/9/04 9:49 pm
Di-n-butyl phthalate	ND		94.6	197	µg/Kg-dry	1	2/9/04 9:49 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Table with columns for chemical name, detection status (ND), concentration, and analysis details. Includes sections for SEMIVOLATILE ORGANICS, MERCURY BY CVAA, and PERCENT MOISTURE.

Qualifiers: ND - Not Detected at the Method Detection Limit, S - Spike Recovery outside accepted recovery limits, J - Estimated or analyte detected below quantitation limit, R - RPD outside accepted recovery limits, B - Analyte detected in the associated Method Blank, E - Value above quantitation range, * - Value exceeds Maximum Contaminant Level, H - Analysis run past method holding time, c - Analyte not included in our scope of accreditation, DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-03A
Client Sample ID: SB3-2
Matrix: SOIL

Collection Date: 2/3/04 9:59:00 AM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.264	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.394	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
1,1,2-Trichloroethane	ND		0.823	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
1,1-Dichloroethane	ND		0.286	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
1,1-Dichloroethene	ND		0.612	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
1,2-Dichloroethane	ND		0.347	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
1,2-Dichloropropane	ND		0.534	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
2-Butanone	ND		1.80	5.95	µg/Kg-dry	1	2/5/04 3:23 pm
2-Hexanone	ND		0.886	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
4-Methyl-2-pentanone	ND		0.726	5.95	µg/Kg-dry	1	2/5/04 3:23 pm
Acetone	12.9		3.52	5.95	µg/Kg-dry	1	2/5/04 3:23 pm
Benzene	ND		0.377	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Bromodichloromethane	ND		0.240	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Bromoform	ND		0.596	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Bromomethane	ND		2.92	5.95	µg/Kg-dry	1	2/5/04 3:23 pm
Carbon disulfide	1.1	J	0.474	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Carbon tetrachloride	ND		0.456	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Chlorobenzene	ND		0.430	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Chloroethane	ND		4.78	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Chloroform	ND		0.267	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Chloromethane	ND		1.31	5.95	µg/Kg-dry	1	2/5/04 3:23 pm
cis-1,2-Dichloroethene	ND		0.340	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
cis-1,3-Dichloropropene	ND		0.346	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Dibromochloromethane	ND		0.407	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Ethylbenzene	ND		0.447	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
m,p-Xylene	ND		1.01	2.38	µg/Kg-dry	1	2/5/04 3:23 pm
Methyl tert-butyl ether	ND		0.312	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Methylene chloride	ND		0.469	5.95	µg/Kg-dry	1	2/5/04 3:23 pm
o-Xylene	ND		0.649	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Styrene	ND		0.403	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Tetrachloroethene	ND		0.955	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Toluene	ND		0.456	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
trans-1,2-Dichloroethene	ND		0.645	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
trans-1,3-Dichloropropene	ND		0.416	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Trichloroethene	ND		0.616	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Vinyl chloride	ND		0.503	1.19	µg/Kg-dry	1	2/5/04 3:23 pm
Surr: 4-Bromofluorobenzene	80.3		0	61.55-121	%REC	1	2/5/04 3:23 pm
Surr: Dibromofluoromethane	107		0	71.4-147	%REC	1	2/5/04 3:23 pm
Surr: Toluene-d8	92.2		0	61-135	%REC	1	2/5/04 3:23 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
MDL-Certified
 Practice2003 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-03B
Client Sample ID: SB3-2
Matrix: SOIL

Collection Date: 2/3/04 9:59:00 AM
Received Date: 2/4/04 11:30:00 AM

Table with columns: Analyses, Result, Quali, MDL, PQL, Units, DF, Date Analyzed. Contains sections for METALS BY ICP and SEMIVOLATILE ORGANICS (BNAS) with various chemical names and their corresponding values.

Qualifiers: ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
c - Analyte not included in our scope of accreditation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time
DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Table with 8 columns: Compound Name, Status, Concentration, Units, Multiplier, Units, Date/Time. Lists various organic compounds like Di-n-octyl phthalate, Dibenzofuran, etc.

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Table with 8 columns: Compound Name, Status, Concentration, Units, Multiplier, Units, Date/Time. Lists semivolatile organics like Acenaphthene, Acenaphthylene, Anthracene, etc.

MERCURY BY CVAA

Method: SW7471A

Analyst: NM

Table with 8 columns: Compound Name, Status, Concentration, Units, Multiplier, Units, Date/Time. Lists Mercury.

PERCENT MOISTURE

Method: D2216

Analyst: BE

Table with 8 columns: Compound Name, Status, Concentration, Units, Multiplier, Units, Date/Time. Lists Percent Moisture.

Qualifiers:

- ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
c - Analyte not included in our scope of accreditation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time
DF - Dilution Factor

MLL - Contaminant
Practices 2003



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-04A
Client Sample ID: SB4-2
Matrix: SOIL

Collection Date: 2/3/04 11:00:00 AM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.259	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.387	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
1,1,2-Trichloroethane	ND		0.808	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
1,1-Dichloroethane	ND		0.280	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
1,1-Dichloroethene	ND		0.600	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
1,2-Dichloroethane	ND		0.341	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
1,2-Dichloropropane	ND		0.524	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
2-Butanone	2.2	J	1.76	5.84	µg/Kg-dry	1	2/5/04 3:59 pm
2-Hexanone	ND		0.870	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
4-Methyl-2-pentanone	ND		0.713	5.84	µg/Kg-dry	1	2/5/04 3:59 pm
Acetone	13.7		3.46	5.84	µg/Kg-dry	1	2/5/04 3:59 pm
Benzene	ND		0.370	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Bromodichloromethane	ND		0.236	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Bromoform	ND		0.585	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Bromomethane	ND		2.86	5.84	µg/Kg-dry	1	2/5/04 3:59 pm
Carbon disulfide	ND		0.465	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Carbon tetrachloride	ND		0.447	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Chlorobenzene	ND		0.422	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Chloroethane	ND		4.70	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Chloroform	ND		0.262	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Chloromethane	ND		1.28	5.84	µg/Kg-dry	1	2/5/04 3:59 pm
cis-1,2-Dichloroethene	ND		0.334	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
cis-1,3-Dichloropropene	ND		0.340	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Dibromochloromethane	ND		0.399	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Ethylbenzene	ND		0.439	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
m,p-Xylene	ND		0.995	2.34	µg/Kg-dry	1	2/5/04 3:59 pm
Methyl tert-butyl ether	ND		0.306	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Methylene chloride	ND		0.460	5.84	µg/Kg-dry	1	2/5/04 3:59 pm
o-Xylene	ND		0.637	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Styrene	ND		0.396	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Tetrachloroethene	ND		0.938	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Toluene	ND		0.447	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
trans-1,2-Dichloroethene	ND		0.633	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
trans-1,3-Dichloropropene	ND		0.409	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Trichloroethene	ND		0.605	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Vinyl chloride	ND		0.494	1.17	µg/Kg-dry	1	2/5/04 3:59 pm
Surr: 4-Bromofluorobenzene	81.1		0	61.55-121	%REC	1	2/5/04 3:59 pm
Surr: Dibromofluoromethane	104		0	71.4-147	%REC	1	2/5/04 3:59 pm
Surr: Toluene-d8	93.6		0	61-135	%REC	1	2/5/04 3:59 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 MDL-Certified
 Precision 2003
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-04B
Client Sample ID: SB4-2
Matrix: SOIL

Collection Date: 2/3/04 11:00:00 AM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP			Method: SW6010B				Analyst: RA
Arsenic	ND		2.2	6.7	mg/Kg-dry	1	2/9/04 5:15 pm
Barium	61.8		1.1	3.4	mg/Kg-dry	1	2/9/04 5:15 pm
Cadmium	ND		0.34	1.0	mg/Kg-dry	1	2/9/04 5:15 pm
Chromium	24.1		1.1	3.4	mg/Kg-dry	1	2/9/04 5:15 pm
Lead	6.92		2.2	6.7	mg/Kg-dry	1	2/9/04 5:15 pm
Selenium	ND		2.2	6.7	mg/Kg-dry	1	2/9/04 5:15 pm
Silver	ND		0.34	1.0	mg/Kg-dry	1	2/9/04 5:15 pm
SEMIVOLATILE ORGANICS (BNAS)			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	1,190		99.6	195	µg/Kg-dry	1	2/10/04 5:22 pm
1,2-Dichlorobenzene	ND		183	195	µg/Kg-dry	1	2/10/04 5:22 pm
1,3-Dichlorobenzene	ND		94.6	195	µg/Kg-dry	1	2/10/04 5:22 pm
1,4-Dichlorobenzene	1,150		86.1	195	µg/Kg-dry	1	2/10/04 5:22 pm
2,4,5-Trichlorophenol	ND		70.4	195	µg/Kg-dry	1	2/10/04 5:22 pm
2,4,6-Trichlorophenol	ND		73.9	195	µg/Kg-dry	1	2/10/04 5:22 pm
2,4-Dichlorophenol	ND		75.1	195	µg/Kg-dry	1	2/10/04 5:22 pm
2,4-Dimethylphenol	ND		86.4	195	µg/Kg-dry	1	2/10/04 5:22 pm
2,4-Dinitrophenol	ND		59.2	195	µg/Kg-dry	1	2/10/04 5:22 pm
2,4-Dinitrotoluene	1,150		42.1	195	µg/Kg-dry	1	2/10/04 5:22 pm
2,6-Dinitrotoluene	ND		82.1	195	µg/Kg-dry	1	2/10/04 5:22 pm
2-Chloronaphthalene	ND		55.3	195	µg/Kg-dry	1	2/10/04 5:22 pm
2-Chlorophenol	2,890		193	195	µg/Kg-dry	1	2/10/04 5:22 pm
2-Methylnaphthalene	ND		73.6	195	µg/Kg-dry	1	2/10/04 5:22 pm
2-Nitroaniline	ND		37.0	195	µg/Kg-dry	1	2/10/04 5:22 pm
2-Nitrophenol	ND		49.9	195	µg/Kg-dry	1	2/10/04 5:22 pm
3,3-Dichlorobenzidine	ND		68.6	195	µg/Kg-dry	1	2/10/04 5:22 pm
3-Nitroaniline	ND		45.9	195	µg/Kg-dry	1	2/10/04 5:22 pm
4,6-Dinitro-2-methylphenol	ND		41.7	195	µg/Kg-dry	1	2/9/04 10:28 pm
4-Bromophenyl phenyl ether	ND		29.0	195	µg/Kg-dry	1	2/9/04 10:28 pm
4-Chloro-3-methylphenol	2,770		108	195	µg/Kg-dry	1	2/10/04 5:22 pm
4-Chloroaniline	ND		41.2	195	µg/Kg-dry	1	2/10/04 5:22 pm
4-Chlorophenyl phenyl ether	ND		32.2	195	µg/Kg-dry	1	2/10/04 5:22 pm
4-Nitroaniline	ND		58.1	195	µg/Kg-dry	1	2/10/04 5:22 pm
4-Nitrophenol	2,340		42.1	195	µg/Kg-dry	1	2/10/04 5:22 pm
Bis(2-chloroethoxy)methane	ND		93.1	195	µg/Kg-dry	1	2/10/04 5:22 pm
Bis(2-chloroethyl)ether	ND		167	195	µg/Kg-dry	1	2/10/04 5:22 pm
Bis(2-chloroisopropyl)ether	ND		167	195	µg/Kg-dry	1	2/10/04 5:22 pm
Bis(2-ethylhexyl)phthalate	ND		195	195	µg/Kg-dry	1	2/10/04 5:22 pm
Butyl benzyl phthalate	ND		83.8	195	µg/Kg-dry	1	2/10/04 5:22 pm
Carbazole	ND		195	195	µg/Kg-dry	1	2/9/04 10:28 pm
Di-n-butyl phthalate	ND		93.8	195	µg/Kg-dry	1	2/9/04 10:28 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
MDL-Continued
 Fraction2003 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Table with 8 columns: Compound Name, Concentration, Units, Method, and Date/Time. Lists various organic compounds like Di-n-octyl phthalate, Dibenzofuran, etc.

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Table with 8 columns: Compound Name, Concentration, Units, Method, and Date/Time. Lists semivolatile organics like Acenaphthene, Acenaphthylene, Anthracene, etc.

MERCURY BY CVAA

Method: SW7471A

Analyst: NM

Table with 8 columns: Compound Name, Concentration, Units, Method, and Date/Time. Shows Mercury concentration.

PERCENT MOISTURE

Method: D2216

Analyst: BE

Table with 8 columns: Compound Name, Concentration, Units, Method, and Date/Time. Shows Percent Moisture.

Qualifiers: ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time
DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-05A
Client Sample ID: SB5-2
Matrix: SOIL

Collection Date: 2/3/04 1:10:00 PM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.260	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.388	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
1,1,2-Trichloroethane	ND		0.811	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
1,1-Dichloroethane	ND		0.281	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
1,1-Dichloroethene	ND		0.602	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
1,2-Dichloroethane	ND		0.342	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
1,2-Dichloropropane	ND		0.526	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
2-Butanone	2.4	J	1.77	5.86	µg/Kg-dry	1	2/5/04 4:36 pm
2-Hexanone	ND	Q	0.873	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
4-Methyl-2-pentanone	ND		0.715	5.86	µg/Kg-dry	1	2/5/04 4:36 pm
Acetone	15.7		3.47	5.86	µg/Kg-dry	1	2/5/04 4:36 pm
Benzene	ND		0.371	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Bromodichloromethane	ND		0.237	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Bromoform	ND	Q	0.587	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Bromomethane	ND		2.87	5.86	µg/Kg-dry	1	2/5/04 4:36 pm
Carbon disulfide	0.88	J	0.466	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Carbon tetrachloride	ND		0.449	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Chlorobenzene	ND	Q	0.423	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Chloroethane	ND		4.71	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Chloroform	ND		0.262	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Chloromethane	ND		1.29	5.86	µg/Kg-dry	1	2/5/04 4:36 pm
cis-1,2-Dichloroethene	ND		0.335	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
cis-1,3-Dichloropropene	ND		0.341	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Dibromochloromethane	ND	Q	0.401	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Ethylbenzene	ND	Q	0.441	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
m,p-Xylene	ND	Q	0.998	2.34	µg/Kg-dry	1	2/5/04 4:36 pm
Methyl tert-butyl ether	ND		0.307	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Methylene chloride	ND		0.462	5.86	µg/Kg-dry	1	2/5/04 4:36 pm
o-Xylene	ND	Q	0.639	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Styrene	ND	Q	0.397	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Tetrachloroethene	ND	Q	0.941	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Toluene	ND		0.449	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
trans-1,2-Dichloroethene	ND		0.635	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
trans-1,3-Dichloropropene	ND		0.410	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Trichloroethene	ND		0.607	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Vinyl chloride	ND		0.496	1.17	µg/Kg-dry	1	2/5/04 4:36 pm
Surr: 4-Bromofluorobenzene	79.2	Q	0	61.55-121	%REC	1	2/5/04 4:36 pm
Surr: Dibromofluoromethane	108		0	71.4-147	%REC	1	2/5/04 4:36 pm
Surr: Toluene-d8	89.7		0	61-135	%REC	1	2/5/04 4:36 pm

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 MDL - Continuous (Practices2003) J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-05B
Client Sample ID: SB5-2
Matrix: SOIL

Collection Date: 2/3/04 1:10:00 PM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP			Method: SW6D10B				Analyst: RA
Arsenic	ND		2.1	6.2	mg/Kg-dry	1	2/9/04 5:23 pm
Barium	65.3		1.0	3.1	mg/Kg-dry	1	2/9/04 5:23 pm
Cadmium	ND		0.31	0.92	mg/Kg-dry	1	2/9/04 5:23 pm
Chromium	25.9		1.0	3.1	mg/Kg-dry	1	2/9/04 5:23 pm
Lead	6.84		2.1	6.2	mg/Kg-dry	1	2/9/04 5:23 pm
Selenium	ND		2.1	6.2	mg/Kg-dry	1	2/9/04 5:23 pm
Silver	ND		0.31	0.92	mg/Kg-dry	1	2/9/04 5:23 pm
SEMIVOLATILE ORGANICS (BNAS)			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		100	196	µg/Kg-dry	1	2/10/04 5:58 pm
1,2-Dichlorobenzene	ND		184	196	µg/Kg-dry	1	2/10/04 5:58 pm
1,3-Dichlorobenzene	ND		94.9	196	µg/Kg-dry	1	2/10/04 5:58 pm
1,4-Dichlorobenzene	ND		86.4	196	µg/Kg-dry	1	2/10/04 5:58 pm
2,4,5-Trichlorophenol	ND		70.7	196	µg/Kg-dry	1	2/10/04 5:58 pm
2,4,6-Trichlorophenol	ND		74.2	196	µg/Kg-dry	1	2/10/04 5:58 pm
2,4-Dichlorophenol	ND		75.3	196	µg/Kg-dry	1	2/10/04 5:58 pm
2,4-Dimethylphenol	ND		86.7	196	µg/Kg-dry	1	2/10/04 5:58 pm
2,4-Dinitrophenol	ND		59.4	196	µg/Kg-dry	1	2/10/04 5:58 pm
2,4-Dinitrotoluene	ND		42.2	196	µg/Kg-dry	1	2/10/04 5:58 pm
2,6-Dinitrotoluene	ND		82.4	196	µg/Kg-dry	1	2/10/04 5:58 pm
2-Chloronaphthalene	ND		55.4	196	µg/Kg-dry	1	2/10/04 5:58 pm
2-Chlorophenol	ND		193	196	µg/Kg-dry	1	2/10/04 5:58 pm
2-Methylnaphthalene	ND		73.8	196	µg/Kg-dry	1	2/10/04 5:58 pm
2-Nitroaniline	ND		37.1	196	µg/Kg-dry	1	2/10/04 5:58 pm
2-Nitrophenol	ND		50.0	196	µg/Kg-dry	1	2/10/04 5:58 pm
3,3-Dichlorobenzidine	ND		68.8	196	µg/Kg-dry	1	2/10/04 5:58 pm
3-Nitroaniline	ND		46.1	196	µg/Kg-dry	1	2/10/04 5:58 pm
4,6-Dinitro-2-methylphenol	ND		41.8	196	µg/Kg-dry	1	2/10/04 5:58 pm
4-Bromophenyl phenyl ether	ND		29.1	196	µg/Kg-dry	1	2/10/04 5:58 pm
4-Chloro-3-methylphenol	ND		108	196	µg/Kg-dry	1	2/10/04 5:58 pm
4-Chloroaniline	ND		41.4	196	µg/Kg-dry	1	2/10/04 5:58 pm
4-Chlorophenyl phenyl ether	ND		32.3	196	µg/Kg-dry	1	2/10/04 5:58 pm
4-Nitroaniline	ND		58.2	196	µg/Kg-dry	1	2/10/04 5:58 pm
4-Nitrophenol	ND		42.2	196	µg/Kg-dry	1	2/10/04 5:58 pm
Bis(2-chloroethoxy)methane	ND		93.4	196	µg/Kg-dry	1	2/10/04 5:58 pm
Bis(2-chloroethyl)ether	ND		168	196	µg/Kg-dry	1	2/10/04 5:58 pm
Bis(2-chloroisopropyl)ether	ND		168	196	µg/Kg-dry	1	2/10/04 5:58 pm
Bis(2-ethylhexyl)phthalate	ND		196	196	µg/Kg-dry	1	2/10/04 5:58 pm
Butyl benzyl phthalate	ND		84.0	196	µg/Kg-dry	1	2/10/04 5:58 pm
Carbazole	ND		196	196	µg/Kg-dry	1	2/10/04 5:58 pm
Di-n-butyl phthalate	ND		94.1	196	µg/Kg-dry	1	2/10/04 5:58 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Table with 8 columns: Compound Name, Status (ND), Concentration 1, Concentration 2, Units, Multiplier, and Date/Time. Lists various organic compounds like Di-n-octyl phthalate, Dibenzofuran, etc.

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Table with 8 columns: Compound Name, Status (ND), Concentration 1, Concentration 2, Units, Multiplier, and Date/Time. Lists semivolatile organics like Acenaphthene, Anthracene, Benzo(a)anthracene, etc.

MERCURY BY CVAA

Method: SW7471A

Analyst: NM

Table with 8 columns: Compound Name, Status (ND), Concentration 1, Concentration 2, Units, Multiplier, and Date/Time. Lists Mercury.

PERCENT MOISTURE

Method: D2216

Analyst: BE

Table with 8 columns: Compound Name, Concentration, Units, Multiplier, and Date/Time. Lists Percent Moisture.

Qualifiers: ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time
DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-06A
Client Sample ID: SB6-2
Matrix: SOIL

Collection Date: 2/3/04 2:15:00 PM
Received Date: 2/4/04 11:30:00 AM

Table with columns: Analyses, Result, Qual, MDL, PQL, Units, DF, Date Analyzed. Contains data for Volatile Organic Compounds including various chlorinated hydrocarbons and solvents.

Qualifiers: ND - Not Detected at the Method Detection Limit
S - Spike Recovery outside accepted recovery limits
J - Estimated or analyte detected below quantitation limit
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level
H - Analysis run past method holding time
c - Analyte not included in our scope of accreditation
DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Lab Sample #: 04020099-06B
Client Sample ID: SB6-2
Matrix: SOIL

Collection Date: 2/3/04 2:15:00 PM
Received Date: 2/4/04 11:30:00 AM

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP			Method: SW6010B				Analyst: RA
Arsenic	7.34		2.1	6.4	mg/Kg-dry	1	2/9/04 5:31 pm
Barium	49.7		1.1	3.2	mg/Kg-dry	1	2/9/04 5:31 pm
Cadmium	ND		0.32	0.96	mg/Kg-dry	1	2/9/04 5:31 pm
Chromium	21.9		1.1	3.2	mg/Kg-dry	1	2/9/04 5:31 pm
Lead	8.08		2.1	6.4	mg/Kg-dry	1	2/9/04 5:31 pm
Selenium	ND		2.1	6.4	mg/Kg-dry	1	2/9/04 5:31 pm
Silver	ND		0.32	0.96	mg/Kg-dry	1	2/9/04 5:31 pm
SEMIVOLATILE ORGANICS (BNAS)			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		96.7	189	µg/Kg-dry	1	2/10/04 6:34 pm
1,2-Dichlorobenzene	ND		178	189	µg/Kg-dry	1	2/10/04 6:34 pm
1,3-Dichlorobenzene	ND		91.9	189	µg/Kg-dry	1	2/10/04 6:34 pm
1,4-Dichlorobenzene	ND		83.6	189	µg/Kg-dry	1	2/10/04 6:34 pm
2,4,5-Trichlorophenol	ND		68.4	189	µg/Kg-dry	1	2/10/04 6:34 pm
2,4,6-Trichlorophenol	ND		71.8	189	µg/Kg-dry	1	2/10/04 6:34 pm
2,4-Dichlorophenol	ND		72.9	189	µg/Kg-dry	1	2/10/04 6:34 pm
2,4-Dimethylphenol	ND		83.9	189	µg/Kg-dry	1	2/10/04 6:34 pm
2,4-Dinitrophenol	ND		57.5	189	µg/Kg-dry	1	2/10/04 6:34 pm
2,4-Dinitrotoluene	ND		40.8	189	µg/Kg-dry	1	2/10/04 6:34 pm
2,6-Dinitrotoluene	ND		79.7	189	µg/Kg-dry	1	2/10/04 6:34 pm
2-Chloronaphthalene	ND		53.6	189	µg/Kg-dry	1	2/10/04 6:34 pm
2-Chlorophenol	ND		187	189	µg/Kg-dry	1	2/10/04 6:34 pm
2-Methylnaphthalene	ND		71.4	189	µg/Kg-dry	1	2/10/04 6:34 pm
2-Nitroaniline	ND		35.9	189	µg/Kg-dry	1	2/10/04 6:34 pm
2-Nitrophenol	ND		48.4	189	µg/Kg-dry	1	2/10/04 6:34 pm
3,3-Dichlorobenzidine	ND		66.6	189	µg/Kg-dry	1	2/10/04 6:34 pm
3-Nitroaniline	ND		44.6	189	µg/Kg-dry	1	2/10/04 6:34 pm
4,6-Dinitro-2-methylphenol	ND		40.5	189	µg/Kg-dry	1	2/10/04 6:34 pm
4-Bromophenyl phenyl ether	ND		28.1	189	µg/Kg-dry	1	2/10/04 6:34 pm
4-Chloro-3-methylphenol	ND		105	189	µg/Kg-dry	1	2/10/04 6:34 pm
4-Chloroaniline	ND		40.0	189	µg/Kg-dry	1	2/10/04 6:34 pm
4-Chlorophenyl phenyl ether	ND		31.3	189	µg/Kg-dry	1	2/10/04 6:34 pm
4-Nitroaniline	ND		56.4	189	µg/Kg-dry	1	2/10/04 6:34 pm
4-Nitrophenol	ND		40.8	189	µg/Kg-dry	1	2/10/04 6:34 pm
Bis(2-chloroethoxy)methane	ND		90.4	189	µg/Kg-dry	1	2/10/04 6:34 pm
Bis(2-chloroethyl)ether	ND		162	189	µg/Kg-dry	1	2/10/04 6:34 pm
Bis(2-chloroisopropyl)ether	ND		162	189	µg/Kg-dry	1	2/10/04 6:34 pm
Bis(2-ethylhexyl)phthalate	ND		189	189	µg/Kg-dry	1	2/10/04 6:34 pm
Butyl benzyl phthalate	ND		81.3	189	µg/Kg-dry	1	2/10/04 6:34 pm
Carbazole	ND		189	189	µg/Kg-dry	1	2/10/04 6:34 pm
Di-n-butyl phthalate	ND		91.1	189	µg/Kg-dry	1	2/10/04 6:34 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020099

Workorder Name: 73742.01 / Willow Glen Golf Course

Date: Wednesday, February 11, 2004

Table with 8 columns: Compound Name, Result, Concentration 1, Concentration 2, Units, Multiplier, and Date/Time. Lists various organic compounds like Di-n-octyl phthalate, Dibenzofuran, etc.

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Table with 8 columns: Compound Name, Result, Concentration 1, Concentration 2, Units, Multiplier, and Date/Time. Lists semivolatile organics like Acenaphthene, Anthracene, Benzo(a)anthracene, etc.

MERCURY BY CVAA

Method: SW7471A

Analyst: NM

Table with 8 columns: Compound Name, Result, Concentration 1, Concentration 2, Units, Multiplier, and Date/Time. Shows Mercury result.

PERCENT MOISTURE

Method: D2216

Analyst: BE

Table with 8 columns: Compound Name, Result, Concentration 1, Concentration 2, Units, Multiplier, and Date/Time. Shows Percent Moisture result.

Qualifiers: ND - Not Detected at the Method Detection Limit, S - Spike Recovery outside accepted recovery limits, J - Estimated or analyte detected below quantitation limit, R - RPD outside accepted recovery limits, B - Analyte detected in the associated Method Blank, E - Value above quantitation range, * - Value exceeds Maximum Contaminant Level, H - Analysis run past method holding time, c - Analyte not included in our scope of accreditation, DF - Dilution Factor

**SUBURBAN LABORATORIES, Inc.**

4140 Litt Drive Hillside, Illinois 60162 (708) 544-3260

PREP DATES REPORT**Client ID:** Toltest Inc.**Workorder #:** 04020099**Project Name:** 73742.01 / Willow Glen Golf Course**Date:** Wednesday, February 11, 2004

Lab Sample ID	Collection Date	Batch #	Prep Method	Prep Name	Prep Date
04020099-01B	2/3/04 10:52 am	11461	SW7471A	Mercury Prep for Solids	2/5/04 8:11 am
	2/3/04 10:52 am	11471	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:24 am
	2/3/04 10:52 am	11470	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:23 am
	2/3/04 10:52 am	11473	SW3050A	SOLID PREP TOTAL METALS: ICP	2/5/04 1:03 pm
04020099-02B	2/3/04 8:00 am	11461	SW7471A	Mercury Prep for Solids	2/5/04 8:11 am
	2/3/04 8:00 am	11471	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:24 am
	2/3/04 8:00 am	11470	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:23 am
	2/3/04 8:00 am	11473	SW3050A	SOLID PREP TOTAL METALS: ICP	2/5/04 1:03 pm
04020099-03B	2/3/04 9:59 am	11461	SW7471A	Mercury Prep for Solids	2/5/04 8:11 am
	2/3/04 9:59 am	11471	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:24 am
	2/3/04 9:59 am	11470	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:23 am
	2/3/04 9:59 am	11473	SW3050A	SOLID PREP TOTAL METALS: ICP	2/5/04 1:03 pm
04020099-04B	2/3/04 11:00 am	11461	SW7471A	Mercury Prep for Solids	2/5/04 8:11 am
	2/3/04 11:00 am	11471	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:24 am
	2/3/04 11:00 am	11470	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:23 am
	2/3/04 11:00 am	11473	SW3050A	SOLID PREP TOTAL METALS: ICP	2/5/04 1:03 pm
04020099-05B	2/3/04 1:10 pm	11461	SW7471A	Mercury Prep for Solids	2/5/04 8:11 am
	2/3/04 1:10 pm	11471	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:24 am
	2/3/04 1:10 pm	11470	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:23 am
	2/3/04 1:10 pm	11473	SW3050A	SOLID PREP TOTAL METALS: ICP	2/5/04 1:03 pm
04020099-06B	2/3/04 2:15 pm	11461	SW7471A	Mercury Prep for Solids	2/5/04 8:11 am
	2/3/04 2:15 pm	11471	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:24 am
	2/3/04 2:15 pm	11470	SW3550B	SOLID PREP SONICATION: BNA	2/5/04 10:23 am
	2/3/04 2:15 pm	11473	SW3050A	SOLID PREP TOTAL METALS: ICP	2/5/04 1:03 pm



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
www.SuburbanLabs.com



February 13, 2004

Jeff Tinney
Toltest Inc.
1000 S. Northpoint Blvd.
Waukegan, IL 600858213
Tel: (847) 689-0697
Fax: (847) 689-0698

Project Name: 73742.01 Willow Glen Golf Course

Workorder #: 04020181

Dear Jeff Tinney,

Suburban Laboratories, Inc. received 7 samples on 02/05/04 1:10:00 PM for the analyses presented in the following report.

There were no problems with the analyses and all the data for the associated QC met EPA or laboratory specifications except where noted in the case narrative.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. Also included in this is some or all of your analytical results reported in dry weight basis. This is designated on the analytical report in the units field, you will see a "Dry" after the normal reporting units. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call your customer service representative at (708) 544-3260.

Sincerely,

Mike Chung
Data Review Manager

CC:



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587
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Client ID: Toltest Inc.
Workorder Name: 73742.01 Willow Glen Golf Course
Workorder #: 04020181
COC #: 33984
Temp Upon Receipt: 4.5 °C

CASE NARRATIVE

Date: Friday, February 13, 2004
PO #:
QC Level: LEVEL I

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of Part 186 unless otherwise indicated.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For more information about the laboratories' scope of accreditation, please contact Suburban or the Agency.
- MDL: Method Detection Limit. The minimum concentration of an analyte that can be measured and reported with a 99% confidence that analyte is greater than zero.
- PQL: Practical Quantitation Limit. The lowest concentration that can be reliably achieved within specified requirements of precision and accuracy during routine laboratory operating conditions. The PQL is generally 3 times the MDL.
- DF: Dilution Factor
- <ATC>: Automatic Temperature Correction.

Data Qualifiers:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ: The analyte was not detected above the reported detection limit. However, the reported limits approximate and may or may not represent the actual limits of detection and quantitation necessary to accurately and precisely measure the analyte in the sample.

I: Result is Invalid; CS: Compound Screened; TNTC: Too Numerous to Count

Method References:

E: USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40CFR136 App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water

SW: USEPA, Test Methods for Evaluating Solid Waste, SW-846, 3rd Ed, includes Updates I-III

M: APHA, Standard Methods for the Examination of Water and Wastewater, 18th & 19th Ed.

D: ASTM, Annual Book of Standards F: NAS, Food Chemicals Codex (FCC), 4th Edition

B: US FDA Bacteriological Analytical Manual (BAM) 8th Edition, 1995

USP: US Pharmacopoeia, 26th Revision, 2002

USGS: United States Geological Survey

Project Specific Comments:



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-01A	Collection Date: 02/04/04 8:45:00 AM
Client Sample ID: SB7-2	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.259	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.386	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
1,1,2-Trichloroethane	ND		0.807	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
1,1-Dichloroethane	ND		0.280	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
1,1-Dichloroethene	ND		0.599	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
1,2-Dichloroethane	ND		0.340	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
1,2-Dichloropropane	ND		0.523	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
2-Butanone	ND		1.76	5.83	µg/Kg-dry	1	02/05/04 5:48 pm
2-Hexanone	ND		0.869	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
4-Methyl-2-pentanone	ND		0.711	5.83	µg/Kg-dry	1	02/05/04 5:48 pm
Acetone	15.6		3.45	5.83	µg/Kg-dry	1	02/05/04 5:48 pm
Benzene	ND		0.370	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Bromodichloromethane	ND		0.236	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Bromoform	ND		0.584	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Bromomethane	ND		2.86	5.83	µg/Kg-dry	1	02/05/04 5:48 pm
Carbon disulfide	0.76	J	0.464	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Carbon tetrachloride	ND		0.447	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Chlorobenzene	ND		0.421	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Chloroethane	ND		4.69	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Chloroform	ND		0.261	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Chloromethane	ND		1.28	5.83	µg/Kg-dry	1	02/05/04 5:48 pm
cis-1,2-Dichloroethene	ND		0.333	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
cis-1,3-Dichloropropene	ND		0.339	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Dibromochloromethane	ND		0.399	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Ethylbenzene	ND		0.438	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
m,p-Xylene	ND		0.993	2.33	µg/Kg-dry	1	02/05/04 5:48 pm
Methyl tert-butyl ether	ND		0.305	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Methylene chloride	1.8	J	0.459	5.83	µg/Kg-dry	1	02/05/04 5:48 pm
o-Xylene	ND		0.635	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Styrene	ND		0.395	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Tetrachloroethene	ND		0.936	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Toluene	ND		0.447	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
trans-1,2-Dichloroethene	ND		0.632	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
trans-1,3-Dichloropropene	ND		0.408	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Trichloroethene	ND		0.604	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Vinyl chloride	ND		0.493	1.17	µg/Kg-dry	1	02/05/04 5:48 pm
Surr: 4-Bromofluorobenzene	80.3		0	61.55-121	%REC	1	02/05/04 5:48 pm
Surr: Dibromofluoromethane	108		0	71.4-147	%REC	1	02/05/04 5:48 pm
Surr: Toluene-d8	92.1		0	61-135	%REC	1	02/05/04 5:48 pm

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 MDL-Couision J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 Fraction2003 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-01B	Collection Date: 02/04/04 8:45:00 AM
Client Sample ID: SB7-2	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	9.02		1.8	5.5	mg/Kg-dry	1	02/11/04 4:44 pm
Barium	79.1		0.91	2.7	mg/Kg-dry	1	02/11/04 4:44 pm
Cadmium	ND		0.27	0.82	mg/Kg-dry	1	02/11/04 4:44 pm
Chromium	35.9		0.91	2.7	mg/Kg-dry	1	02/11/04 4:44 pm
Lead	10.3		1.8	5.5	mg/Kg-dry	1	02/11/04 4:44 pm
Selenium	4.4	J	1.8	5.5	mg/Kg-dry	1	02/11/04 4:44 pm
Silver	ND		0.27	0.82	mg/Kg-dry	1	02/11/04 4:44 pm
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		99.4	195	µg/Kg-dry	1	02/11/04 7:54 pm
1,2-Dichlorobenzene	ND		183	195	µg/Kg-dry	1	02/11/04 7:54 pm
1,3-Dichlorobenzene	ND		94.4	195	µg/Kg-dry	1	02/11/04 7:54 pm
1,4-Dichlorobenzene	ND		85.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
2,4,5-Trichlorophenol	ND		70.3	195	µg/Kg-dry	1	02/11/04 7:54 pm
2,4,6-Trichlorophenol	ND		73.8	195	µg/Kg-dry	1	02/11/04 7:54 pm
2,4-Dichlorophenol	ND		74.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
2,4-Dimethylphenol	ND		86.2	195	µg/Kg-dry	1	02/11/04 7:54 pm
2,4-Dinitrophenol	ND		59.1	195	µg/Kg-dry	1	02/11/04 7:54 pm
2,4-Dinitrotoluene	ND		42.0	195	µg/Kg-dry	1	02/11/04 7:54 pm
2,6-Dinitrotoluene	ND		81.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
2-Chloronaphthalene	ND		55.1	195	µg/Kg-dry	1	02/11/04 7:54 pm
2-Chlorophenol	ND		192	195	µg/Kg-dry	1	02/11/04 7:54 pm
2-Methylnaphthalene	ND		73.4	195	µg/Kg-dry	1	02/11/04 7:54 pm
2-Nitroaniline	ND		36.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
2-Nitrophenol	ND		49.8	195	µg/Kg-dry	1	02/11/04 7:54 pm
3,3-Dichlorobenzidine	ND		68.4	195	µg/Kg-dry	1	02/11/04 7:54 pm
3-Nitroaniline	ND		45.8	195	µg/Kg-dry	1	02/11/04 7:54 pm
4,6-Dinitro-2-methylphenol	ND		41.6	195	µg/Kg-dry	1	02/11/04 7:54 pm
4-Bromophenyl phenyl ether	ND		28.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
4-Chloro-3-methylphenol	ND		108	195	µg/Kg-dry	1	02/11/04 7:54 pm
4-Chloroaniline	ND		41.1	195	µg/Kg-dry	1	02/11/04 7:54 pm
4-Chlorophenyl phenyl ether	ND		32.2	195	µg/Kg-dry	1	02/11/04 7:54 pm
4-Nitroaniline	ND		57.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
4-Nitrophenol	ND		42.0	195	µg/Kg-dry	1	02/11/04 7:54 pm
Bis(2-chloroethoxy)methane	ND		92.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
Bis(2-chloroethyl)ether	ND		167	195	µg/Kg-dry	1	02/11/04 7:54 pm
Bis(2-chloroisopropyl)ether	ND		167	195	µg/Kg-dry	1	02/11/04 7:54 pm
Bis(2-ethylhexyl)phthalate	ND		195	195	µg/Kg-dry	1	02/11/04 7:54 pm
Butyl benzyl phthalate	ND		83.6	195	µg/Kg-dry	1	02/11/04 7:54 pm
Carbazole	ND		195	195	µg/Kg-dry	1	02/11/04 7:54 pm
Di-n-butyl phthalate	ND		93.6	195	µg/Kg-dry	1	02/11/04 7:54 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 MDL-Coolbox Fraction2003 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Di-n-octyl phthalate	ND	52.8	195	µg/Kg-dry	1	02/11/04 7:54 pm
Dibenzofuran	ND	36.1	195	µg/Kg-dry	1	02/11/04 7:54 pm
Diethyl phthalate	ND	43.9	195	µg/Kg-dry	1	02/11/04 7:54 pm
Dimethyl phthalate	ND	58.6	195	µg/Kg-dry	1	02/11/04 7:54 pm
Hexachlorobenzene	ND	41.6	195	µg/Kg-dry	1	02/11/04 7:54 pm
Hexachlorobutadiene	ND	106	195	µg/Kg-dry	1	02/11/04 7:54 pm
Hexachlorocyclopentadiene	ND	96.4	195	µg/Kg-dry	1	02/11/04 7:54 pm
Hexachloroethane	ND	113	195	µg/Kg-dry	1	02/11/04 7:54 pm
Isophorone	ND	49.8	195	µg/Kg-dry	1	02/11/04 7:54 pm
m,p-Cresol	ND	216	389	µg/Kg-dry	1	02/11/04 7:54 pm
N-Nitrosodi-n-propylamine	ND	95.2	195	µg/Kg-dry	1	02/11/04 7:54 pm
N-Nitrosodiphenylamine	ND	45.8	195	µg/Kg-dry	1	02/11/04 7:54 pm
Nitrobenzene	ND	125	195	µg/Kg-dry	1	02/11/04 7:54 pm
o-Cresol	ND	64.1	195	µg/Kg-dry	1	02/11/04 7:54 pm
Pentachlorophenol	ND	35.0	195	µg/Kg-dry	1	02/11/04 7:54 pm
Phenol	ND	44.6	195	µg/Kg-dry	1	02/11/04 7:54 pm
Surr: 2,4,6-Tribromophenol	53.9	0	20-117	%REC	1	02/11/04 7:54 pm
Surr: 2-Fluorobiphenyl	72.3	0	47-128	%REC	1	02/11/04 7:54 pm
Surr: 2-Fluorophenol	75.5	0	41-108	%REC	1	02/11/04 7:54 pm
Surr: 4-Terphenyl-d14	67.5	0	5-131	%REC	1	02/11/04 7:54 pm
Surr: Nitrobenzene-d5	78.3	0	32-120	%REC	1	02/11/04 7:54 pm
Surr: Phenol-d5	72.2	0	52-116	%REC	1	02/11/04 7:54 pm
SEMIVOLATILE ORGANICS, BY GCMS SIM						
		Method: SW8270C		Analyst: LA		
Acenaphthene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Acenaphthylene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Anthracene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Benzo(a)anthracene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Benzo(a)pyrene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Benzo(b)fluoranthene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Benzo(g,h,i)perylene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Benzo(k)fluoranthene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Chrysene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Dibenzo(a,h)anthracene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Fluoranthene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Fluorene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Indeno(1,2,3-cd)pyrene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Naphthalene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Phenanthrene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Pyrene	ND	46.5	46.5	µg/Kg-dry	1	02/10/04 7:37 pm
Surr: 2-Fluorobiphenyl	103	0	59.3-135	%REC	1	02/10/04 7:37 pm
Surr: 4-Terphenyl-d14	117	0	51.4-151	%REC	1	02/10/04 7:37 pm
Surr: Nitrobenzene-d5	106	0	50.6-126	%REC	1	02/10/04 7:37 pm
MERCURY BY CVAA						
		Method: SW7471A		Analyst: TH		
Mercury	ND	0.022	0.092	mg/Kg-dry	1	02/12/04 9:56 am
PERCENT MOISTURE						
		Method: D2216		Analyst: BE		
Percent Moisture	14.23	0	0	wt%	1	02/06/04 2:30 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-02A	Collection Date: 02/04/04 9:45:00 AM
Client Sample ID: SB8-02	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.261	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.389	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
1,1,2-Trichloroethane	ND		0.813	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
1,1-Dichloroethane	ND		0.282	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
1,1-Dichloroethene	ND		0.604	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
1,2-Dichloroethane	ND		0.343	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
1,2-Dichloropropane	ND		0.528	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
2-Butanone	ND		1.78	5.88	µg/Kg-dry	1	02/05/04 6:25 pm
2-Hexanone	ND		0.876	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
4-Methyl-2-pentanone	ND		0.717	5.88	µg/Kg-dry	1	02/05/04 6:25 pm
Acetone	8.83		3.48	5.88	µg/Kg-dry	1	02/05/04 6:25 pm
Benzene	ND		0.373	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Bromodichloromethane	ND		0.237	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Bromoform	ND		0.589	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Bromomethane	ND		2.88	5.88	µg/Kg-dry	1	02/05/04 6:25 pm
Carbon disulfide	ND		0.468	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Carbon tetrachloride	ND		0.450	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Chlorobenzene	ND		0.424	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Chloroethane	ND		4.73	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Chloroform	ND		0.263	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Chloromethane	ND		1.29	5.88	µg/Kg-dry	1	02/05/04 6:25 pm
cis-1,2-Dichloroethene	ND		0.336	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
cis-1,3-Dichloropropene	ND		0.342	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Dibromochloromethane	ND		0.402	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Ethylbenzene	ND		0.442	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
m,p-Xylene	ND		1.00	2.35	µg/Kg-dry	1	02/05/04 6:25 pm
Methyl tert-butyl ether	ND		0.308	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Methylene chloride	1.0	J	0.463	5.88	µg/Kg-dry	1	02/05/04 6:25 pm
o-Xylene	ND		0.641	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Styrene	ND		0.398	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Tetrachloroethene	ND		0.944	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Toluene	ND		0.450	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
trans-1,2-Dichloroethene	ND		0.637	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
trans-1,3-Dichloropropene	ND		0.411	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Trichloroethene	ND		0.609	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Vinyl chloride	ND		0.497	1.18	µg/Kg-dry	1	02/05/04 6:25 pm
Surr: 4-Bromofluorobenzene	81.6		0	61.55-121	%REC	1	02/05/04 6:25 pm
Surr: Dibromofluoromethane	106		0	71.4-147	%REC	1	02/05/04 6:25 pm
Surr: Toluene-d8	92.8		0	61-135	%REC	1	02/05/04 6:25 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 MDL-Coribus Practice2001 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-02B	Collection Date: 02/04/04 9:45:00 AM
Client Sample ID: SB8-02	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	ND		2.3	6.9	mg/Kg-dry	1	02/11/04 4:52 pm
Barium	115		1.2	3.5	mg/Kg-dry	1	02/11/04 4:52 pm
Cadmium	ND		0.35	1.0	mg/Kg-dry	1	02/11/04 4:52 pm
Chromium	40.1		1.2	3.5	mg/Kg-dry	1	02/11/04 4:52 pm
Lead	9.54		2.3	6.9	mg/Kg-dry	1	02/11/04 4:52 pm
Selenium	2.9	J	2.3	6.9	mg/Kg-dry	1	02/11/04 4:52 pm
Silver	ND		0.35	1.0	mg/Kg-dry	1	02/11/04 4:52 pm
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		100	196	µg/Kg-dry	1	02/11/04 8:33 pm
1,2-Dichlorobenzene	ND		185	196	µg/Kg-dry	1	02/11/04 8:33 pm
1,3-Dichlorobenzene	ND		95.2	196	µg/Kg-dry	1	02/11/04 8:33 pm
1,4-Dichlorobenzene	ND		86.6	196	µg/Kg-dry	1	02/11/04 8:33 pm
2,4,5-Trichlorophenol	ND		70.9	196	µg/Kg-dry	1	02/11/04 8:33 pm
2,4,6-Trichlorophenol	ND		74.4	196	µg/Kg-dry	1	02/11/04 8:33 pm
2,4-Dichlorophenol	ND		75.6	196	µg/Kg-dry	1	02/11/04 8:33 pm
2,4-Dimethylphenol	ND		87.0	196	µg/Kg-dry	1	02/11/04 8:33 pm
2,4-Dinitrophenol	ND		59.6	196	µg/Kg-dry	1	02/11/04 8:33 pm
2,4-Dinitrotoluene	ND		42.3	196	µg/Kg-dry	1	02/11/04 8:33 pm
2,6-Dinitrotoluene	ND		82.6	196	µg/Kg-dry	1	02/11/04 8:33 pm
2-Chloronaphthalene	ND		55.6	196	µg/Kg-dry	1	02/11/04 8:33 pm
2-Chlorophenol	ND		194	196	µg/Kg-dry	1	02/11/04 8:33 pm
2-Methylnaphthalene	ND		74.1	196	µg/Kg-dry	1	02/11/04 8:33 pm
2-Nitroaniline	ND		37.3	196	µg/Kg-dry	1	02/11/04 8:33 pm
2-Nitrophenol	ND		50.2	196	µg/Kg-dry	1	02/11/04 8:33 pm
3,3-Dichlorobenzidine	ND		69.0	196	µg/Kg-dry	1	02/11/04 8:33 pm
3-Nitroaniline	ND		46.2	196	µg/Kg-dry	1	02/11/04 8:33 pm
4,6-Dinitro-2-methylphenol	ND		42.0	196	µg/Kg-dry	1	02/11/04 8:33 pm
4-Bromophenyl phenyl ether	ND		29.2	196	µg/Kg-dry	1	02/11/04 8:33 pm
4-Chloro-3-methylphenol	ND		108	196	µg/Kg-dry	1	02/11/04 8:33 pm
4-Chloroaniline	ND		41.5	196	µg/Kg-dry	1	02/11/04 8:33 pm
4-Chlorophenyl phenyl ether	ND		32.4	196	µg/Kg-dry	1	02/11/04 8:33 pm
4-Nitroaniline	ND		58.4	196	µg/Kg-dry	1	02/11/04 8:33 pm
4-Nitrophenol	ND		42.3	196	µg/Kg-dry	1	02/11/04 8:33 pm
Bis(2-chloroethoxy)methane	ND		93.7	196	µg/Kg-dry	1	02/11/04 8:33 pm
Bis(2-chloroethyl)ether	ND		168	196	µg/Kg-dry	1	02/11/04 8:33 pm
Bis(2-chloroisopropyl)ether	ND		168	196	µg/Kg-dry	1	02/11/04 8:33 pm
Bis(2-ethylhexyl)phthalate	ND		196	196	µg/Kg-dry	1	02/11/04 8:33 pm
Butyl benzyl phthalate	ND		84.3	196	µg/Kg-dry	1	02/11/04 8:33 pm
Carbazole	ND		196	196	µg/Kg-dry	1	02/11/04 8:33 pm
Di-n-butyl phthalate	ND		94.4	196	µg/Kg-dry	1	02/11/04 8:33 pm

Qualifiers: ND - Not Detected at the Method Detection Limit

S - Spike Recovery outside accepted recovery limits

MDL-Confines
Practice2003

J - Estimated or analyte detected below quantitation limit

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analysis run past method holding time

c - Analyte not included in our scope of accreditation

DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Di-n-octyl phthalate	ND	53.3	196	µg/Kg-dry	1	02/11/04 8:33 pm
Dibenzofuran	ND	36.4	196	µg/Kg-dry	1	02/11/04 8:33 pm
Diethyl phthalate	ND	44.3	196	µg/Kg-dry	1	02/11/04 8:33 pm
Dimethyl phthalate	ND	59.1	196	µg/Kg-dry	1	02/11/04 8:33 pm
Hexachlorobenzene	ND	42.0	196	µg/Kg-dry	1	02/11/04 8:33 pm
Hexachlorobutadiene	ND	107	196	µg/Kg-dry	1	02/11/04 8:33 pm
Hexachlorocyclopentadiene	ND	97.2	196	µg/Kg-dry	1	02/11/04 8:33 pm
Hexachloroethane	ND	114	196	µg/Kg-dry	1	02/11/04 8:33 pm
isophorone	ND	50.2	196	µg/Kg-dry	1	02/11/04 8:33 pm
m,p-Cresol	ND	217	393	µg/Kg-dry	1	02/11/04 8:33 pm
N-Nitrosodi-n-propylamine	ND	96.0	196	µg/Kg-dry	1	02/11/04 8:33 pm
N-Nitrosodiphenylamine	ND	46.2	196	µg/Kg-dry	1	02/11/04 8:33 pm
Nitrobenzene	ND	126	196	µg/Kg-dry	1	02/11/04 8:33 pm
o-Cresol	ND	64.7	196	µg/Kg-dry	1	02/11/04 8:33 pm
Pentachlorophenol	ND	35.3	196	µg/Kg-dry	1	02/11/04 8:33 pm
Phenol	ND	45.0	196	µg/Kg-dry	1	02/11/04 8:33 pm
Surr: 2,4,6-Tribromophenol	71.4	0	20-117	%REC	1	02/11/04 8:33 pm
Surr: 2-Fluorobiphenyl	82.2	0	47-128	%REC	1	02/11/04 8:33 pm
Surr: 2-Fluorophenol	78.4	0	41-108	%REC	1	02/11/04 8:33 pm
Surr: 4-Terphenyl-d14	80.1	0	5-131	%REC	1	02/11/04 8:33 pm
Surr: Nitrobenzene-d5	84.4	0	32-120	%REC	1	02/11/04 8:33 pm
Surr: Phenol-d5	73.2	0	52-116	%REC	1	02/11/04 8:33 pm
SEMIVOLATILE ORGANICS, BY GCMS SIM						
		Method: SW8270C		Analyst: LA		
Acenaphthene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Acenaphthylene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Anthracene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Benzo(a)anthracene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Benzo(a)pyrene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Benzo(b)fluoranthene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Benzo(g,h,i)perylene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Benzo(k)fluoranthene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Chrysene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Dibenzo(a,h)anthracene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Fluoranthene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Fluorene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Indeno(1,2,3-cd)pyrene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Naphthalene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Phenanthrene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Pyrene	ND	47.0	47.0	µg/Kg-dry	1	02/10/04 8:11 pm
Surr: 2-Fluorobiphenyl	106	0	59.3-135	%REC	1	02/10/04 8:11 pm
Surr: 4-Terphenyl-d14	122	0	51.4-151	%REC	1	02/10/04 8:11 pm
Surr: Nitrobenzene-d5	108	0	50.6-126	%REC	1	02/10/04 8:11 pm
MERCURY BY CVAA						
		Method: SW7471A		Analyst: TH		
Mercury	ND	0.024	0.098	mg/Kg-dry	1	02/12/04 9:56 am
PERCENT MOISTURE						
		Method: D2216		Analyst: BE		
Percent Moisture	14.93	0	0	wt%	1	02/06/04 2:30 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor

MDL-Cookbook
Rev:02/03



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-03A	Collection Date: 02/04/04 10:20:00 AM
Client Sample ID: SB9-2	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.268	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.399	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
1,1,2-Trichloroethane	ND		0.835	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
1,1-Dichloroethane	ND		0.290	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
1,1-Dichloroethene	ND		0.620	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
1,2-Dichloroethane	ND		0.352	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
1,2-Dichloropropane	ND		0.542	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
2-Butanone	ND		1.82	6.03	µg/Kg-dry	1	02/05/04 7:01 pm
2-Hexanone	ND		0.899	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
4-Methyl-2-pentanone	ND		0.736	6.03	µg/Kg-dry	1	02/05/04 7:01 pm
Acetone	11.8		3.57	6.03	µg/Kg-dry	1	02/05/04 7:01 pm
Benzene	ND		0.382	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Bromodichloromethane	ND		0.244	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Bromoform	ND		0.604	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Bromomethane	ND		2.96	6.03	µg/Kg-dry	1	02/05/04 7:01 pm
Carbon disulfide	ND		0.480	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Carbon tetrachloride	ND		0.462	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Chlorobenzene	ND		0.435	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Chloroethane	ND		4.85	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Chloroform	ND		0.270	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Chloromethane	ND		1.33	6.03	µg/Kg-dry	1	02/05/04 7:01 pm
cis-1,2-Dichloroethene	ND		0.345	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
cis-1,3-Dichloropropene	ND		0.351	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Dibromochloromethane	ND		0.413	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Ethylbenzene	ND		0.454	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
m,p-Xylene	ND		1.03	2.41	µg/Kg-dry	1	02/05/04 7:01 pm
Methyl tert-butyl ether	ND		0.316	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Methylene chloride	1.4	J	0.475	6.03	µg/Kg-dry	1	02/05/04 7:01 pm
o-Xylene	ND		0.657	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Styrene	ND		0.409	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Tetrachloroethene	ND		0.969	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Toluene	ND		0.462	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
trans-1,2-Dichloroethene	ND		0.654	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
trans-1,3-Dichloropropene	ND		0.422	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Trichloroethene	ND		0.625	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Vinyl chloride	ND		0.510	1.21	µg/Kg-dry	1	02/05/04 7:01 pm
Surr: 4-Bromofluorobenzene	84.0		0	61.55-121	%REC	1	02/05/04 7:01 pm
Surr: Dibromofluoromethane	102		0	71.4-147	%REC	1	02/05/04 7:01 pm
Surr: Toluene-d8	95.0		0	61-135	%REC	1	02/05/04 7:01 pm

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 MDL-Couision J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 Practice2003 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-03B	Collection Date: 02/04/04 10:20:00 AM
Client Sample ID: SB9-2	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	ND		2.4	7.1	mg/Kg-dry	1	02/11/04 5:00 pm
Barium	101		1.2	3.6	mg/Kg-dry	1	02/11/04 5:00 pm
Cadmium	ND		0.35	1.1	mg/Kg-dry	1	02/11/04 5:00 pm
Chromium	38.9		1.2	3.6	mg/Kg-dry	1	02/11/04 5:00 pm
Lead	12.7		2.4	7.1	mg/Kg-dry	1	02/11/04 5:00 pm
Selenium	3.1	J	2.4	7.1	mg/Kg-dry	1	02/11/04 5:00 pm
Silver	ND		0.35	1.1	mg/Kg-dry	1	02/11/04 5:00 pm
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		103	201	µg/Kg-dry	1	02/11/04 9:10 pm
1,2-Dichlorobenzene	ND		189	201	µg/Kg-dry	1	02/11/04 9:10 pm
1,3-Dichlorobenzene	ND		97.6	201	µg/Kg-dry	1	02/11/04 9:10 pm
1,4-Dichlorobenzene	ND		88.8	201	µg/Kg-dry	1	02/11/04 9:10 pm
2,4,5-Trichlorophenol	ND		72.7	201	µg/Kg-dry	1	02/11/04 9:10 pm
2,4,6-Trichlorophenol	ND		76.3	201	µg/Kg-dry	1	02/11/04 9:10 pm
2,4-Dichlorophenol	ND		77.5	201	µg/Kg-dry	1	02/11/04 9:10 pm
2,4-Dimethylphenol	ND		89.2	201	µg/Kg-dry	1	02/11/04 9:10 pm
2,4-Dinitrophenol	ND		61.1	201	µg/Kg-dry	1	02/11/04 9:10 pm
2,4-Dinitrotoluene	ND		43.4	201	µg/Kg-dry	1	02/11/04 9:10 pm
2,6-Dinitrotoluene	ND		84.7	201	µg/Kg-dry	1	02/11/04 9:10 pm
2-Chloronaphthalene	ND		57.0	201	µg/Kg-dry	1	02/11/04 9:10 pm
2-Chlorophenol	ND		199	201	µg/Kg-dry	1	02/11/04 9:10 pm
2-Methylnaphthalene	ND		75.9	201	µg/Kg-dry	1	02/11/04 9:10 pm
2-Nitroaniline	ND		38.2	201	µg/Kg-dry	1	02/11/04 9:10 pm
2-Nitrophenol	ND		51.5	201	µg/Kg-dry	1	02/11/04 9:10 pm
3,3-Dichlorobenzidine	ND		70.7	201	µg/Kg-dry	1	02/11/04 9:10 pm
3-Nitroaniline	ND		47.4	201	µg/Kg-dry	1	02/11/04 9:10 pm
4,6-Dinitro-2-methylphenol	ND		43.0	201	µg/Kg-dry	1	02/11/04 9:10 pm
4-Bromophenyl phenyl ether	ND		29.9	201	µg/Kg-dry	1	02/11/04 9:10 pm
4-Chloro-3-methylphenol	ND		111	201	µg/Kg-dry	1	02/11/04 9:10 pm
4-Chloroaniline	ND		42.5	201	µg/Kg-dry	1	02/11/04 9:10 pm
4-Chlorophenyl phenyl ether	ND		33.3	201	µg/Kg-dry	1	02/11/04 9:10 pm
4-Nitroaniline	ND		59.9	201	µg/Kg-dry	1	02/11/04 9:10 pm
4-Nitrophenol	ND		43.4	201	µg/Kg-dry	1	02/11/04 9:10 pm
Bis(2-chloroethoxy)methane	ND		96.0	201	µg/Kg-dry	1	02/11/04 9:10 pm
Bis(2-chloroethyl)ether	ND		172	201	µg/Kg-dry	1	02/11/04 9:10 pm
Bis(2-chloroisopropyl)ether	ND		172	201	µg/Kg-dry	1	02/11/04 9:10 pm
Bis(2-ethylhexyl)phthalate	ND		201	201	µg/Kg-dry	1	02/11/04 9:10 pm
Butyl benzyl phthalate	ND		86.4	201	µg/Kg-dry	1	02/11/04 9:10 pm
Carbazole	ND		201	201	µg/Kg-dry	1	02/11/04 9:10 pm
Di-n-butyl phthalate	ND		96.8	201	µg/Kg-dry	1	02/11/04 9:10 pm

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 MDL-Costhour
 Practice2003 J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Table with 7 columns: Compound Name, Result, Concentration, Units, Multiplier, and Date/Time. Lists various chemicals like Di-n-octyl phthalate, Dibenzofuran, etc.

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Table with 7 columns: Compound Name, Result, Concentration, Units, Multiplier, and Date/Time. Lists semivolatile organics like Acenaphthene, Anthracene, etc.

MERCURY BY CVAA

Method: SW7471A

Analyst: TH

Table with 7 columns: Compound Name, Result, Concentration, Units, Multiplier, and Date/Time. Lists Mercury.

PERCENT MOISTURE

Method: D2216

Analyst: BE

Table with 7 columns: Compound Name, Result, Concentration, Units, Multiplier, and Date/Time. Lists Percent Moisture.

Qualifiers: ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time
DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-04A	Collection Date: 02/04/04 11:35:00 AM
Client Sample ID: SB10-2	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: DP
1,1,1-Trichloroethane	ND		0.264	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
1,1,2,2-Tetrachloroethane	ND	Q	0.393	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
1,1,2-Trichloroethane	ND		0.822	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
1,1-Dichloroethane	ND		0.285	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
1,1-Dichloroethene	ND		0.611	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
1,2-Dichloroethane	ND		0.347	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
1,2-Dichloropropane	ND		0.533	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
2-Butanone	1.8	J	1.79	5.94	µg/Kg-dry	1	02/05/04 7:37 pm
2-Hexanone	ND		0.885	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
4-Methyl-2-pentanone	ND		0.725	5.94	µg/Kg-dry	1	02/05/04 7:37 pm
Acetone	17.3		3.52	5.94	µg/Kg-dry	1	02/05/04 7:37 pm
Benzene	ND		0.377	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Bromodichloromethane	ND		0.240	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Bromoform	ND		0.595	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Bromomethane	ND		2.91	5.94	µg/Kg-dry	1	02/05/04 7:37 pm
Carbon disulfide	ND		0.473	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Carbon tetrachloride	ND		0.455	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Chlorobenzene	ND		0.429	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Chloroethane	ND		4.78	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Chloroform	ND		0.266	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Chloromethane	ND		1.31	5.94	µg/Kg-dry	1	02/05/04 7:37 pm
cis-1,2-Dichloroethene	ND		0.340	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
cis-1,3-Dichloropropene	ND		0.346	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Dibromochloromethane	ND		0.406	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Ethylbenzene	ND		0.447	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
m,p-Xylene	ND		1.01	2.38	µg/Kg-dry	1	02/05/04 7:37 pm
Methyl tert-butyl ether	ND		0.311	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Methylene chloride	1.8	J	0.468	5.94	µg/Kg-dry	1	02/05/04 7:37 pm
o-Xylene	ND		0.647	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Styrene	ND		0.403	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Tetrachloroethene	ND		0.954	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Toluene	ND		0.455	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
trans-1,2-Dichloroethene	ND		0.644	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
trans-1,3-Dichloropropene	ND		0.416	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Trichloroethene	ND		0.615	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Vinyl chloride	ND		0.502	1.19	µg/Kg-dry	1	02/05/04 7:37 pm
Surr: 4-Bromofluorobenzene	79.8		0	61.55-121	%REC	1	02/05/04 7:37 pm
Surr: Dibromofluoromethane	104		0	71.4-147	%REC	1	02/05/04 7:37 pm
Surr: Toluene-d8	91.6		0	61-135	%REC	1	02/05/04 7:37 pm

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 MDL-Continuous J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 Fractional B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-04B	Collection Date: 02/04/04 11:35:00 AM
Client Sample ID: SB10-2	Received Date: 02/05/04 1:10:00 PM
Matrix: SOIL	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	ND		1.9	5.7	mg/Kg-dry	1	02/11/04 5:08 pm
Barium	117		0.94	2.8	mg/Kg-dry	1	02/11/04 5:08 pm
Cadmium	ND		0.28	0.85	mg/Kg-dry	1	02/11/04 5:08 pm
Chromium	42.8		0.94	2.8	mg/Kg-dry	1	02/11/04 5:08 pm
Lead	11.5		1.9	5.7	mg/Kg-dry	1	02/11/04 5:08 pm
Selenium	4.8	J	1.9	5.7	mg/Kg-dry	1	02/11/04 5:08 pm
Silver	ND		0.28	0.85	mg/Kg-dry	1	02/11/04 5:08 pm
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		101	198	µg/Kg-dry	1	02/11/04 9:49 pm
1,2-Dichlorobenzene	ND		187	198	µg/Kg-dry	1	02/11/04 9:49 pm
1,3-Dichlorobenzene	ND		96.2	198	µg/Kg-dry	1	02/11/04 9:49 pm
1,4-Dichlorobenzene	ND		87.6	198	µg/Kg-dry	1	02/11/04 9:49 pm
2,4,5-Trichlorophenol	ND		71.6	198	µg/Kg-dry	1	02/11/04 9:49 pm
2,4,6-Trichlorophenol	ND		75.2	198	µg/Kg-dry	1	02/11/04 9:49 pm
2,4-Dichlorophenol	ND		76.4	198	µg/Kg-dry	1	02/11/04 9:49 pm
2,4-Dimethylphenol	ND		87.9	198	µg/Kg-dry	1	02/11/04 9:49 pm
2,4-Dinitrophenol	ND		60.2	198	µg/Kg-dry	1	02/11/04 9:49 pm
2,4-Dinitrotoluene	ND		42.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
2,6-Dinitrotoluene	ND		83.5	198	µg/Kg-dry	1	02/11/04 9:49 pm
2-Chloronaphthalene	ND		56.2	198	µg/Kg-dry	1	02/11/04 9:49 pm
2-Chlorophenol	ND		196	198	µg/Kg-dry	1	02/11/04 9:49 pm
2-Methylnaphthalene	ND		74.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
2-Nitroaniline	ND		37.7	198	µg/Kg-dry	1	02/11/04 9:49 pm
2-Nitrophenol	ND		50.7	198	µg/Kg-dry	1	02/11/04 9:49 pm
3,3-Dichlorobenzidine	ND		69.7	198	µg/Kg-dry	1	02/11/04 9:49 pm
3-Nitroaniline	ND		46.7	198	µg/Kg-dry	1	02/11/04 9:49 pm
4,6-Dinitro-2-methylphenol	ND		42.4	198	µg/Kg-dry	1	02/11/04 9:49 pm
4-Bromophenyl phenyl ether	ND		29.5	198	µg/Kg-dry	1	02/11/04 9:49 pm
4-Chloro-3-methylphenol	ND		110	198	µg/Kg-dry	1	02/11/04 9:49 pm
4-Chloroaniline	ND		41.9	198	µg/Kg-dry	1	02/11/04 9:49 pm
4-Chlorophenyl phenyl ether	ND		32.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
4-Nitroaniline	ND		59.0	198	µg/Kg-dry	1	02/11/04 9:49 pm
4-Nitrophenol	ND		42.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
Bis(2-chloroethoxy)methane	ND		94.7	198	µg/Kg-dry	1	02/11/04 9:49 pm
Bis(2-chloroethyl)ether	ND		170	198	µg/Kg-dry	1	02/11/04 9:49 pm
Bis(2-chloroisopropyl)ether	ND		170	198	µg/Kg-dry	1	02/11/04 9:49 pm
Bis(2-ethylhexyl)phthalate	ND		198	198	µg/Kg-dry	1	02/11/04 9:49 pm
Butyl benzyl phthalate	ND		85.2	198	µg/Kg-dry	1	02/11/04 9:49 pm
Carbazole	ND		198	198	µg/Kg-dry	1	02/11/04 9:49 pm
Di-n-butyl phthalate	ND		95.4	198	µg/Kg-dry	1	02/11/04 9:49 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
 J - Estimated or analyte detected below quantitation limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Di-n-octyl phthalate	ND	53.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
Dibenzofuran	ND	36.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
Diethyl phthalate	ND	44.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
Dimethyl phthalate	ND	59.8	198	µg/Kg-dry	1	02/11/04 9:49 pm
Hexachlorobenzene	ND	42.4	198	µg/Kg-dry	1	02/11/04 9:49 pm
Hexachlorobutadiene	ND	108	198	µg/Kg-dry	1	02/11/04 9:49 pm
Hexachlorocyclopentadiene	ND	98.2	198	µg/Kg-dry	1	02/11/04 9:49 pm
Hexachloroethane	ND	115	198	µg/Kg-dry	1	02/11/04 9:49 pm
Isophorone	ND	50.7	198	µg/Kg-dry	1	02/11/04 9:49 pm
m,p-Cresol	ND	220	397	µg/Kg-dry	1	02/11/04 9:49 pm
N-Nitrosodi-n-propylamine	ND	97.1	198	µg/Kg-dry	1	02/11/04 9:49 pm
N-Nitrosodiphenylamine	ND	46.7	198	µg/Kg-dry	1	02/11/04 9:49 pm
Nitrobenzene	ND	127	198	µg/Kg-dry	1	02/11/04 9:49 pm
o-Cresol	ND	65.3	198	µg/Kg-dry	1	02/11/04 9:49 pm
Pentachlorophenol	ND	35.6	198	µg/Kg-dry	1	02/11/04 9:49 pm
Phenol	ND	45.5	198	µg/Kg-dry	1	02/11/04 9:49 pm
Surr: 2,4,6-Tribromophenol	53.8	0	20-117	%REC	1	02/11/04 9:49 pm
Surr: 2-Fluorobiphenyl	61.6	0	47-128	%REC	1	02/11/04 9:49 pm
Surr: 2-Fluorophenol	58.8	0	41-108	%REC	1	02/11/04 9:49 pm
Surr: 4-Terphenyl-d14	63.4	0	5-131	%REC	1	02/11/04 9:49 pm
Surr: Nitrobenzene-d5	64.7	0	32-120	%REC	1	02/11/04 9:49 pm
Surr: Phenol-d5	55.7	0	52-116	%REC	1	02/11/04 9:49 pm
SEMIVOLATILE ORGANICS, BY GCMS SIM						
		Method:	SW8270C	Analyst: LA		
Acenaphthene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Acenaphthylene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Anthracene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Benzo(a)anthracene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Benzo(a)pyrene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Benzo(b)fluoranthene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Benzo(g,h,i)perylene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Benzo(k)fluoranthene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Chrysene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Dibenzo(a,h)anthracene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Fluoranthene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Fluorene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Indeno(1,2,3-cd)pyrene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Naphthalene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Phenanthrene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Pyrene	ND	47.3	47.3	µg/Kg-dry	1	02/10/04 9:19 pm
Surr: 2-Fluorobiphenyl	104	0	59.3-135	%REC	1	02/10/04 9:19 pm
Surr: 4-Terphenyl-d14	124	0	51.4-151	%REC	1	02/10/04 9:19 pm
Surr: Nitrobenzene-d5	108	0	50.6-126	%REC	1	02/10/04 9:19 pm
MERCURY BY CVAA						
		Method:	SW7471A	Analyst: TH		
Mercury	ND	0.023	0.096	mg/Kg-dry	1	02/12/04 9:56 am
PERCENT MOISTURE						
		Method:	D2216	Analyst: BE		
Percent Moisture	15.82	0	0	wt%	1	02/06/04 2:30 pm

Qualifiers: ND - Not Detected at the Method Detection Limit
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 * - Value exceeds Maximum Contaminant Level
 c - Analyte not included in our scope of accreditation

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Analysis run past method holding time
 DF - Dilution Factor

MLL-Continous
Practice2003



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-05A	Collection Date: 02/04/04 9:00:00 AM
Client Sample ID: SB3	Received Date: 02/05/04 1:10:00 PM
Matrix: GROUNDWATER	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS (BNAS)			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		2.56	5.00	µg/L	1	02/10/04 1:44 am
1,2-Dichlorobenzene	ND		4.70	5.00	µg/L	1	02/10/04 1:44 am
1,3-Dichlorobenzene	ND		2.43	5.00	µg/L	1	02/10/04 1:44 am
1,4-Dichlorobenzene	ND		2.21	5.00	µg/L	1	02/10/04 1:44 am
2,4,5-Trichlorophenol	ND		1.81	5.00	µg/L	1	02/10/04 1:44 am
2,4,6-Trichlorophenol	ND		1.90	5.00	µg/L	1	02/10/04 1:44 am
2,4-Dichlorophenol	ND		1.93	5.00	µg/L	1	02/10/04 1:44 am
2,4-Dimethylphenol	ND		2.22	5.00	µg/L	1	02/10/04 1:44 am
2,4-Dinitrophenol	ND		1.52	5.00	µg/L	1	02/10/04 1:44 am
2,4-Dinitrotoluene	ND		1.08	5.00	µg/L	1	02/10/04 1:44 am
2,6-Dinitrotoluene	ND		2.11	5.00	µg/L	1	02/10/04 1:44 am
2-Chloronaphthalene	ND		1.42	5.00	µg/L	1	02/10/04 1:44 am
2-Chlorophenol	ND		4.95	5.00	µg/L	1	02/10/04 1:44 am
2-Methylnaphthalene	ND		1.89	5.00	µg/L	1	02/10/04 1:44 am
2-Nitroaniline	ND		0.950	5.00	µg/L	1	02/10/04 1:44 am
2-Nitrophenol	ND		1.28	5.00	µg/L	1	02/10/04 1:44 am
3,3-Dichlorobenzidine	ND		1.76	5.00	µg/L	1	02/10/04 1:44 am
3-Nitroaniline	ND		1.18	5.00	µg/L	1	02/10/04 1:44 am
4,6-Dinitro-2-methylphenol	ND		1.07	5.00	µg/L	1	02/10/04 1:44 am
4-Bromophenyl phenyl ether	ND		0.744	5.00	µg/L	1	02/10/04 1:44 am
4-Chloro-3-methylphenol	ND		2.77	5.00	µg/L	1	02/10/04 1:44 am
4-Chloroaniline	ND		1.06	5.00	µg/L	1	02/10/04 1:44 am
4-Chlorophenyl phenyl ether	ND		0.828	5.00	µg/L	1	02/10/04 1:44 am
4-Nitroaniline	ND		1.49	5.00	µg/L	1	02/10/04 1:44 am
4-Nitrophenol	ND		1.08	5.00	µg/L	1	02/10/04 1:44 am
Bis(2-chloroethoxy)methane	ND		2.39	5.00	µg/L	1	02/10/04 1:44 am
Bis(2-chloroethyl)ether	ND		4.30	5.00	µg/L	1	02/10/04 1:44 am
Bis(2-chloroisopropyl)ether	ND		4.30	5.00	µg/L	1	02/10/04 1:44 am
Bis(2-ethylhexyl)phthalate	ND		5.00	5.00	µg/L	1	02/10/04 1:44 am
Butyl benzyl phthalate	ND		2.15	5.00	µg/L	1	02/10/04 1:44 am
Carbazole	ND		5.00	5.00	µg/L	1	02/10/04 1:44 am
Di-n-butyl phthalate	ND		2.41	5.00	µg/L	1	02/10/04 1:44 am
Di-n-octyl phthalate	ND		1.36	5.00	µg/L	1	02/10/04 1:44 am
Dibenzofuran	ND		0.930	5.00	µg/L	1	02/10/04 1:44 am
Diethyl phthalate	ND		1.13	5.00	µg/L	1	02/10/04 1:44 am
Dimethyl phthalate	ND		1.51	5.00	µg/L	1	02/10/04 1:44 am
Hexachlorobenzene	ND		1.07	5.00	µg/L	1	02/10/04 1:44 am
Hexachlorobutadiene	ND		2.73	5.00	µg/L	1	02/10/04 1:44 am
Hexachlorocyclopentadiene	ND		2.48	5.00	µg/L	1	02/10/04 1:44 am
Hexachloroethane	ND		2.91	5.00	µg/L	1	02/10/04 1:44 am

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
MDL-Criterion
 Procedure J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Isophorone	ND		1.28	5.00	µg/L	1	02/10/04 1:44 am
m,p-Cresol	ND		5.55	10.0	µg/L	1	02/10/04 1:44 am
N-Nitrosodi-n-propylamine	ND		2.45	5.00	µg/L	1	02/10/04 1:44 am
N-Nitrosodiphenylamine	ND		1.18	5.00	µg/L	1	02/10/04 1:44 am
Nitrobenzene	ND		3.21	5.00	µg/L	1	02/10/04 1:44 am
o-Cresol	ND		1.65	5.00	µg/L	1	02/10/04 1:44 am
Pentachlorophenol	ND		1.00	5.00	µg/L	1	02/10/04 1:44 am
Phenol	ND		1.15	5.00	µg/L	1	02/10/04 1:44 am
Surr: 2,4,6-Tribromophenol	31.5	S	0	36.6-133	%REC	1	02/10/04 1:44 am
Surr: 2-Fluorobiphenyl	88.1		0	26.8-113	%REC	1	02/10/04 1:44 am
Surr: 2-Fluorophenol	20.5		0	0-100	%REC	1	02/10/04 1:44 am
Surr: 4-Terphenyl-d14	98.9		0	31.3-152	%REC	1	02/10/04 1:44 am
Surr: Nitrobenzene-d5	79.1		0	13.8-115	%REC	1	02/10/04 1:44 am
Surr: Phenol-d6	14.7		0	1.14-55.3	%REC	1	02/10/04 1:44 am

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Acenaphthene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Acenaphthylene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Anthracene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Benzo(a)anthracene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Benzo(a)pyrene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Benzo(b)fluoranthene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Benzo(g,h,i)perylene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Benzo(k)fluoranthene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Chrysene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Dibenzo(a,h)anthracene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Fluoranthene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Fluorene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Indeno(1,2,3-cd)pyrene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Naphthalene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Phenanthrene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Pyrene	ND		0.100	0.300	µg/L	1	02/10/04 5:22 pm
Surr: 2-Fluorobiphenyl	84.6		0	26.8-113	%REC	1	02/10/04 5:22 pm
Surr: 4-Terphenyl-d14	99.4		0	31.3-152	%REC	1	02/10/04 5:22 pm
Surr: Nitrobenzene-d5	83.0		0	13.8-115	%REC	1	02/10/04 5:22 pm

Qualifiers:

ND - Not Detected at the Method Detection Limit

S - Spike Recovery outside accepted recovery limits

J - Estimated or analyte detected below quantitation limit

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analysis run past method holding time

c - Analyte not included in our scope of accreditation

DF - Dilution Factor

MDL-Outside
Practice003



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-05B	Collection Date: 02/04/04 9:00:00 AM
Client Sample ID: SB3	Received Date: 02/05/04 1:10:00 PM
Matrix: GROUNDWATER	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	ND		0.02	0.06	mg/L	1	02/13/04 11:11 am
Barium	0.0320		0.01	0.03	mg/L	1	02/13/04 11:11 am
Cadmium	ND		0.003	0.009	mg/L	1	02/13/04 11:11 am
Chromium	ND		0.01	0.03	mg/L	1	02/13/04 11:11 am
Selenium	0.050	J	0.02	0.06	mg/L	1	02/13/04 11:11 am
Silver	ND		0.003	0.009	mg/L	1	02/13/04 11:11 am
MERCURY BY CVAA							
			Method: SW7470A				Analyst: NM
Mercury	ND		0.0002	0.0005	mg/L	1	02/10/04 2:20 pm
LEAD BY GFAA							
			Method: SW7421				Analyst: MB
Lead	ND		0.002	0.01	mg/L	1	02/11/04 6:09 pm

Qualifiers:

ND - Not Detected at the Method Detection Limit

S - Spike Recovery outside accepted recovery limits

J - Estimated or analyte detected below quantitation limit

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analysis run past method holding time

c - Analyte not included in our scope of accreditation

DF - Dilution Factor

MDL-Coolbox
Practical003



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-06A	Collection Date: 02/04/04 11:45:00 AM
Client Sample ID: SB5	Received Date: 02/05/04 1:10:00 PM
Matrix: GROUNDWATER	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS (BNAS)			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		2.56	5.00	µg/L	1	02/10/04 2:23 am
1,2-Dichlorobenzene	ND		4.70	5.00	µg/L	1	02/10/04 2:23 am
1,3-Dichlorobenzene	ND		2.43	5.00	µg/L	1	02/10/04 2:23 am
1,4-Dichlorobenzene	ND		2.21	5.00	µg/L	1	02/10/04 2:23 am
2,4,5-Trichlorophenol	ND		1.81	5.00	µg/L	1	02/10/04 2:23 am
2,4,6-Trichlorophenol	ND		1.90	5.00	µg/L	1	02/10/04 2:23 am
2,4-Dichlorophenol	ND		1.93	5.00	µg/L	1	02/10/04 2:23 am
2,4-Dimethylphenol	ND		2.22	5.00	µg/L	1	02/10/04 2:23 am
2,4-Dinitrophenol	ND		1.52	5.00	µg/L	1	02/10/04 2:23 am
2,4-Dinitrotoluene	ND		1.08	5.00	µg/L	1	02/10/04 2:23 am
2,6-Dinitrotoluene	ND		2.11	5.00	µg/L	1	02/10/04 2:23 am
2-Chloronaphthalene	ND		1.42	5.00	µg/L	1	02/10/04 2:23 am
2-Chlorophenol	ND		4.95	5.00	µg/L	1	02/10/04 2:23 am
2-Methylnaphthalene	ND		1.89	5.00	µg/L	1	02/10/04 2:23 am
2-Nitroaniline	ND		0.950	5.00	µg/L	1	02/10/04 2:23 am
2-Nitrophenol	ND		1.28	5.00	µg/L	1	02/10/04 2:23 am
3,3-Dichlorobenzidine	ND		1.76	5.00	µg/L	1	02/10/04 2:23 am
3-Nitroaniline	ND		1.18	5.00	µg/L	1	02/10/04 2:23 am
4,6-Dinitro-2-methylphenol	ND		1.07	5.00	µg/L	1	02/10/04 2:23 am
4-Bromophenyl phenyl ether	ND		0.744	5.00	µg/L	1	02/10/04 2:23 am
4-Chloro-3-methylphenol	ND		2.77	5.00	µg/L	1	02/10/04 2:23 am
4-Chloroaniline	ND		1.06	5.00	µg/L	1	02/10/04 2:23 am
4-Chlorophenyl phenyl ether	ND		0.828	5.00	µg/L	1	02/10/04 2:23 am
4-Nitroaniline	ND		1.49	5.00	µg/L	1	02/10/04 2:23 am
4-Nitrophenol	ND		1.08	5.00	µg/L	1	02/10/04 2:23 am
Bis(2-chloroethoxy)methane	ND		2.39	5.00	µg/L	1	02/10/04 2:23 am
Bis(2-chloroethyl)ether	ND		4.30	5.00	µg/L	1	02/10/04 2:23 am
Bis(2-chloroisopropyl)ether	ND		4.30	5.00	µg/L	1	02/10/04 2:23 am
Bis(2-ethylhexyl)phthalate	ND		5.00	5.00	µg/L	1	02/10/04 2:23 am
Butyl benzyl phthalate	ND		2.15	5.00	µg/L	1	02/10/04 2:23 am
Carbazole	ND		5.00	5.00	µg/L	1	02/10/04 2:23 am
Di-n-butyl phthalate	ND		2.41	5.00	µg/L	1	02/10/04 2:23 am
Di-n-octyl phthalate	ND		1.36	5.00	µg/L	1	02/10/04 2:23 am
Dibenzofuran	ND		0.930	5.00	µg/L	1	02/10/04 2:23 am
Diethyl phthalate	ND		1.13	5.00	µg/L	1	02/10/04 2:23 am
Dimethyl phthalate	ND		1.51	5.00	µg/L	1	02/10/04 2:23 am
Hexachlorobenzene	ND		1.07	5.00	µg/L	1	02/10/04 2:23 am
Hexachlorobutadiene	ND		2.73	5.00	µg/L	1	02/10/04 2:23 am
Hexachlorocyclopentadiene	ND		2.48	5.00	µg/L	1	02/10/04 2:23 am
Hexachloroethane	ND		2.91	5.00	µg/L	1	02/10/04 2:23 am

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 MDL-Continuous J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 Fractional 2003 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Table with 7 columns: Compound Name, Result, Spike, Range, Unit, Multiplier, Date/Time. Includes compounds like Isophorone, m,p-Cresol, N-Nitrosodi-n-propylamine, etc.

SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C

Analyst: LA

Table with 7 columns: Compound Name, Result, Spike, Range, Unit, Multiplier, Date/Time. Lists various polycyclic aromatic hydrocarbons (PAHs) and their surrogate standards.

Qualifiers:

ND - Not Detected at the Method Detection Limit

S - Spike Recovery outside accepted recovery limits

J - Estimated or analyte detected below quantitation limit

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analysis run past method holding time

c - Analyte not included in our scope of accreditation

DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-06B	Collection Date: 02/04/04 11:45:00 AM
Client Sample ID: SB5	Received Date: 02/05/04 1:10:00 PM
Matrix: GROUNDWATER	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	ND		0.02	0.06	mg/L	1	02/13/04 11:32 am
Barium	0.028	J	0.01	0.03	mg/L	1	02/13/04 11:32 am
Cadmium	ND		0.003	0.009	mg/L	1	02/13/04 11:32 am
Chromium	ND		0.01	0.03	mg/L	1	02/13/04 11:32 am
Selenium	0.060	J	0.02	0.06	mg/L	1	02/13/04 11:32 am
Silver	ND		0.003	0.009	mg/L	1	02/13/04 11:32 am
MERCURY BY CVAA							
			Method: SW7470A				Analyst: NM
Mercury	ND		0.0002	0.0005	mg/L	1	02/10/04 2:20 pm
LEAD BY GFAA							
			Method: SW7421				Analyst: MB
Lead	ND		0.002	0.01	mg/L	1	02/11/04 6:09 pm

Qualifiers:

ND - Not Detected at the Method Detection Limit

S - Spike Recovery outside accepted recovery limits

MDL-Continuous
Fraction003

J - Estimated or analyte detected below quantitation limit

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analysis run past method holding time

c - Analyte not included in our scope of accreditation

DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-07A	Collection Date: 02/04/04 1:30:00 PM
Client Sample ID: SB7	Received Date: 02/05/04 1:10:00 PM
Matrix: GROUNDWATER	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS (BNAS)							
			Method: SW8270C				Analyst: LA
1,2,4-Trichlorobenzene	ND		2.84	5.56	µg/L	1	02/10/04 1:04 am
1,2-Dichlorobenzene	ND		5.22	5.56	µg/L	1	02/10/04 1:04 am
1,3-Dichlorobenzene	ND		2.70	5.56	µg/L	1	02/10/04 1:04 am
1,4-Dichlorobenzene	ND		2.46	5.56	µg/L	1	02/10/04 1:04 am
2,4,5-Trichlorophenol	ND		2.01	5.56	µg/L	1	02/10/04 1:04 am
2,4,6-Trichlorophenol	ND		2.11	5.56	µg/L	1	02/10/04 1:04 am
2,4-Dichlorophenol	ND		2.14	5.56	µg/L	1	02/10/04 1:04 am
2,4-Dimethylphenol	ND		2.47	5.56	µg/L	1	02/10/04 1:04 am
2,4-Dinitrophenol	ND		1.69	5.56	µg/L	1	02/10/04 1:04 am
2,4-Dinitrotoluene	ND		1.20	5.56	µg/L	1	02/10/04 1:04 am
2,6-Dinitrotoluene	ND		2.34	5.56	µg/L	1	02/10/04 1:04 am
2-Chloronaphthalene	ND		1.58	5.56	µg/L	1	02/10/04 1:04 am
2-Chlorophenol	ND		5.50	5.56	µg/L	1	02/10/04 1:04 am
2-Methylnaphthalene	ND		2.10	5.56	µg/L	1	02/10/04 1:04 am
2-Nitroaniline	ND		1.06	5.56	µg/L	1	02/10/04 1:04 am
2-Nitrophenol	ND		1.42	5.56	µg/L	1	02/10/04 1:04 am
3,3-Dichlorobenzidine	ND		1.96	5.56	µg/L	1	02/10/04 1:04 am
3-Nitroaniline	ND		1.31	5.56	µg/L	1	02/10/04 1:04 am
4,6-Dinitro-2-methylphenol	ND		1.19	5.56	µg/L	1	02/10/04 1:04 am
4-Bromophenyl phenyl ether	ND		0.827	5.56	µg/L	1	02/10/04 1:04 am
4-Chloro-3-methylphenol	ND		3.08	5.56	µg/L	1	02/10/04 1:04 am
4-Chloroaniline	ND		1.18	5.56	µg/L	1	02/10/04 1:04 am
4-Chlorophenyl phenyl ether	ND		0.920	5.56	µg/L	1	02/10/04 1:04 am
4-Nitroaniline	ND		1.66	5.56	µg/L	1	02/10/04 1:04 am
4-Nitrophenol	ND		1.20	5.56	µg/L	1	02/10/04 1:04 am
Bis(2-chloroethoxy)methane	ND		2.66	5.56	µg/L	1	02/10/04 1:04 am
Bis(2-chloroethyl)ether	ND		4.78	5.56	µg/L	1	02/10/04 1:04 am
Bis(2-chloroisopropyl)ether	ND		4.78	5.56	µg/L	1	02/10/04 1:04 am
Bis(2-ethylhexyl)phthalate	ND		5.56	5.56	µg/L	1	02/10/04 1:04 am
Butyl benzyl phthalate	ND		2.39	5.56	µg/L	1	02/10/04 1:04 am
Carbazole	ND		5.56	5.56	µg/L	1	02/10/04 1:04 am
Di-n-butyl phthalate	ND		2.68	5.56	µg/L	1	02/10/04 1:04 am
Di-n-octyl phthalate	ND		1.51	5.56	µg/L	1	02/10/04 1:04 am
Dibenzofuran	ND		1.03	5.56	µg/L	1	02/10/04 1:04 am
Diethyl phthalate	ND		1.26	5.56	µg/L	1	02/10/04 1:04 am
Dimethyl phthalate	ND		1.68	5.56	µg/L	1	02/10/04 1:04 am
Hexachlorobenzene	ND		1.19	5.56	µg/L	1	02/10/04 1:04 am
Hexachlorobutadiene	ND		3.03	5.56	µg/L	1	02/10/04 1:04 am
Hexachlorocyclopentadiene	ND		2.76	5.56	µg/L	1	02/10/04 1:04 am
Hexachloroethane	ND		3.23	5.56	µg/L	1	02/10/04 1:04 am

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits
 MDL-Coulsour J - Estimated or analyte detected below quantitation limit R - RPD outside accepted recovery limits
 Fraction2003 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analysis run past method holding time
 c - Analyte not included in our scope of accreditation DF - Dilution Factor



Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Table with columns for compound name, concentration, units, and date. Includes sections for 'SEMIVOLATILE ORGANICS, BY GCMS SIM' and various chemical compounds like Isophorone, m,p-Cresol, etc.

Qualifiers:

- ND - Not Detected at the Method Detection Limit
S - Spike Recovery outside accepted recovery limits
J - Estimated or analyte detected below quantitation limit
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level
H - Analysis run past method holding time
c - Analyte not included in our scope of accreditation
DF - Dilution Factor



Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Toltest Inc.

Workorder #: 04020181

Workorder Name: 73742.01 Willow Glen Golf Course

Date: Friday, February 13, 2004

Lab Sample #: 04020181-07B	Collection Date: 02/04/04 1:30:00 PM
Client Sample ID: SB7	Received Date: 02/05/04 1:10:00 PM
Matrix: GROUNDWATER	

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
METALS BY ICP							
			Method: SW6010B				Analyst: RA
Arsenic	ND		0.02	0.06	mg/L	1	02/13/04 11:45 am
Barium	0.0999		0.01	0.03	mg/L	1	02/13/04 11:45 am
Cadmium	ND		0.003	0.009	mg/L	1	02/13/04 11:45 am
Chromium	ND		0.01	0.03	mg/L	1	02/13/04 11:45 am
Selenium	0.039	J	0.02	0.06	mg/L	1	02/13/04 11:45 am
Silver	ND		0.003	0.009	mg/L	1	02/13/04 11:45 am
MERCURY BY CVAA							
			Method: SW7470A				Analyst: NM
Mercury	ND		0.0002	0.0005	mg/L	1	02/10/04 2:20 pm
LEAD BY GFAA							
			Method: SW7421				Analyst: MB
Lead	ND		0.002	0.01	mg/L	1	02/11/04 6:09 pm

Qualifiers:

MDL-Coolflow
Practice2003

- ND - Not Detected at the Method Detection Limit
- J - Estimated or analyte detected below quantitation limit
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- c - Analyte not included in our scope of accreditation

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Analysis run past method holding time
- DF - Dilution Factor



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, Illinois 60162 (708) 544-3260

PREP DATES REPORT

Client ID: Toltest Inc.
Project Name: 73742.01 Willow Glen Golf Course

Workorder #: 04020181
Date: Friday, February 13, 2004

Lab Sample ID	Collection Date	Batch #	Prep Method	Prep Name	Prep Date
04020181-01B	02/04/04 8:45 am	11522	SW7471A	Mercury Prep for Solids	02/10/04 10:02 pm
	02/04/04 8:45 am	11514	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:09 am
	02/04/04 8:45 am	11513	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:08 am
	02/04/04 8:45 am	11486	SW3050A	SOLID PREP TOTAL METALS: ICP	02/06/04 10:12 am
04020181-02B	02/04/04 9:45 am	11522	SW7471A	Mercury Prep for Solids	02/10/04 10:02 pm
	02/04/04 9:45 am	11514	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:09 am
	02/04/04 9:45 am	11513	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:08 am
	02/04/04 9:45 am	11486	SW3050A	SOLID PREP TOTAL METALS: ICP	02/06/04 10:12 am
04020181-03B	02/04/04 10:20 am	11522	SW7471A	Mercury Prep for Solids	02/10/04 10:02 pm
	02/04/04 10:20 am	11514	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:09 am
	02/04/04 10:20 am	11513	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:08 am
	02/04/04 10:20 am	11486	SW3050A	SOLID PREP TOTAL METALS: ICP	02/06/04 10:12 am
04020181-04B	02/04/04 11:35 am	11522	SW7471A	Mercury Prep for Solids	02/10/04 10:02 pm
	02/04/04 11:35 am	11514	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:09 am
	02/04/04 11:35 am	11513	SW3550B	SOLID PREP SONICATION: BNA	02/10/04 9:08 am
	02/04/04 11:35 am	11486	SW3050A	SOLID PREP TOTAL METALS: ICP	02/06/04 10:12 am
04020181-05A	02/04/04 9:00 am	11512	SW3510B	AQUEOUS PREP SEP FUNNEL: BNA	02/10/04 9:08 am
	02/04/04 9:00 am	11495	SW3510B	AQUEOUS PREP SEP FUNNEL: BNA	02/09/04 11:12 am
04020181-05B	02/04/04 9:00 am	11497	E200.2/SW3020A	AQUEOUS PREP T/R METALS: GFAA	02/09/04 12:00 pm
	02/04/04 9:00 am	11506	SW3010A	AQUEOUS PREP TOTAL METALS: ICP	02/09/04 6:03 pm
	02/04/04 9:00 am	11500	E245.1/SW7470A	Mercury Prep for Aqueous	02/09/04 3:00 pm
04020181-06A	02/04/04 11:45 am	11512	SW3510B	AQUEOUS PREP SEP FUNNEL: BNA	02/10/04 9:08 am
	02/04/04 11:45 am	11495	SW3510B	AQUEOUS PREP SEP FUNNEL: BNA	02/09/04 11:12 am
04020181-06B	02/04/04 11:45 am	11497	E200.2/SW3020A	AQUEOUS PREP T/R METALS: GFAA	02/09/04 12:00 pm
	02/04/04 11:45 am	11506	SW3010A	AQUEOUS PREP TOTAL METALS: ICP	02/09/04 6:03 pm
	02/04/04 11:45 am	11500	E245.1/SW7470A	Mercury Prep for Aqueous	02/09/04 3:00 pm
04020181-07A	02/04/04 1:30 pm	11495	SW3510B	AQUEOUS PREP SEP FUNNEL: BNA	02/09/04 11:12 am
	02/04/04 1:30 pm	11512	SW3510B	AQUEOUS PREP SEP FUNNEL: BNA	02/10/04 9:08 am
04020181-07B	02/04/04 1:30 pm	11497	E200.2/SW3020A	AQUEOUS PREP T/R METALS: GFAA	02/09/04 12:00 pm
	02/04/04 1:30 pm	11506	SW3010A	AQUEOUS PREP TOTAL METALS: ICP	02/09/04 6:03 pm
	02/04/04 1:30 pm	11500	E245.1/SW7470A	Mercury Prep for Aqueous	02/09/04 3:00 pm



SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162

Tel. 708.544.3260

Fax: 708.544.8587

CHAIN OF CUSTODY RECORD # 33984

Toll Free: 800.783.LABS

www.suburbanlabs.com

Company Name: To | Test, Inc
 Company Address: 1000 S. Northpoint Blvd
 City: Waukegan State: IL Zip: 60085
 Phone: 847 689-0697 Fax: 847 689-0698 Fax Report
 Email Address: TBoos@To|Test.com Email Report
 Project ID / Location: 73742.01 / Willow Glen Golf Course
 Project Manager (Report to): Jeff Tinney
 Sample Collector(s): Timothy A. Boos

TURNAROUND TIME REQUESTED
 Normal RUSH* *Additional Rush Charges Approved.
 *Date & Time Needed:
 Normal TAT is 5-7 work days for most work. Rush work must be pre-approved and additional charges apply.
 Specify Regulatory Program: None/Info Only (Required)
 LUST SRP SDWA
 503 Sludge NPDES MWRDGC
 Disposal Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
 Enter an "X" in box below for request

VOCs	SVOCs	RCRA metals	SVOCs	RCRA metals	DRY wt
X	X	X	X	X	X

Page 1 of 2
 PO No.
 Shipping Method: SLB
 QC Reporting Level (Please Circle) 1 2 3
LAB USE ONLY
 SLI ORDER No. 04-02-0181
 QC sample(s) provided? Yes No
 Temperature of Received Samples: 4.5 °C
 Samples received within 6 hours of collection? Yes

SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION		MATRIX	GRAB COMP.	CONTAINERS		PRESERVATIVE	VOCs	SVOCs	RCRA metals	SVOCs	RCRA metals	DRY wt
	DATE	TIME			Qty	SIZE & TYPE							
1 SB7-2	2/14/04	8:45	S	X	1	4oz G	-	X	X	X	X	X	X
2 SB7-2	2/14/04	8:45	S	X	1	8oz G	-	X	X	X	X	X	X
3 SB8-2	2/14/04	9:45	S	X	1	4oz G	-	X	X	X	X	X	X
4 SB8-2	2/14/04	9:45	S	X	1	8oz G	-	X	X	X	X	X	X
5 SB9-2	2/14/04	10:20	S	X	1	4oz G	-	X	X	X	X	X	X
6 SB9-2	2/14/04	10:20	S	X	1	8oz G	-	X	X	X	X	X	X
7 SB10-2	2/14/04	11:35	S	X	1	4oz G	-	X	X	X	X	X	X
8 SB10-2	2/14/04	11:35	S	X	1	8oz G	-	X	X	X	X	X	X
9 SB3	2/14/04	09:00	GW	X	2	1L G	-	X	X	X	X	X	X
10 SB3	2/14/04	09:00	GW	X	1	1L P	HNO3 Filtered	X	X	X	X	X	X
11 SB5	2/14/04	11:45	GW	X	2	1L G	-	X	X	X	X	X	X
12 SB5	2/14/04	11:45	GW	X	1	1L P	HNO3 Filtered	X	X	X	X	X	X

R	Condition	Split	LAB #
X			1A
X			1B
X			2A
X			2B
X			3A
X			3B
X			4A
X			4B
X			5A
X			5B
X			6A
X			6B

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H2SO4, HCl, HNO3, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
 1. Improper/damaged container/cap
 2. Improper preservation
 3. Insufficient sample volume
 4. Headspace/air bubbles for VOCs
 5. Received past holding time
 6. Received frozen
 7. Label conflicts with COC

1. Relinquished By: <u>Timothy A. Boos</u> Date: <u>2/5/04</u>	2. Relinquished By: <u>D. B. B. B.</u> Date: <u>2/5/04</u>	3. Relinquished By: _____ Date: _____	4. Relinquished By: _____ Date: _____
Received By: <u>J. A. B.</u> Time: <u>9:40 AM</u> <input type="checkbox"/> Ice?	Received By: <u>[Signature]</u> Time: <u>1:10 PM</u> <input type="checkbox"/> Ice?	Received By: _____ Time: _____ <input type="checkbox"/> Ice?	Received By: _____ Time: _____ <input type="checkbox"/> Ice?

