Advanced Cleanup Technologies, Inc.

ENVIRONMENTAL CONSULTANTS

PHASE II ENVIRONMENTAL SITE ASSESSMENT

441 Eastern Parkway
Farmingdale, New York 11735

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ACT#: 2540-FDNY

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1.0 INTRODUCTION AND SCOPE OF THE ASSESSMENT

In October and November 2001, Advanced Cleanup Technologies, Inc. (ACT) performed a Phase II Environmental Site Assessment of the property located at 441 Eastern Parkway, Farmingdale, New York (Site). The location of the Site is presented in Figure 1. The purpose of the Assessment was to evaluate the subsurface environmental quality of the subject property. More specifically, the scope of work included sediment sampling, advancement of soil borings, installation of monitoring wells and collection of subsurface soil and groundwater samples from areas potentially impacted by Volatile Organic Compounds (VOCs) and heavy metals above regulatory criteria, including areas around a number of former on-site wastewater systems.

Initial field activities included advancement of 18 soil borings and installation of 9 temporary and 4 cased wells. Two surface sediment and one sludge sample were also collected. In-house screening was performed on 68 soil and 12 groundwater samples collected from the borings and wells utilizing an in-house gas chromatograph. Based on results of the in-house screening, a total of 1 sediment, 15 soil and 13 groundwater samples were selected for laboratory analysis.

ACT was subsequently retained to perform further assessment activities in the northwestern portion of the Site, in the vicinity of the northwest leach field (Figure 2). This phase of the assessment was performed with oversight by the Suffolk County Department of Health Services (SCDOHS) and included the laboratory analysis of six additional soil samples and seven additional groundwater samples.

Results of both phases of the Assessment are detailed in the following sections. Pertinent Site features are presented in Figure 2 and sampling locations are presented in Figure 3. Table 1 presents a summary of samples collected, in-house screening

results and samples designated for laboratory analysis. Copies of field notes are presented in Appendix A.

2.0 SITE DESCRIPTION

2.1 Site Background

The Site consists of a 1.1 acre parcel of developed property, situated along Eastern Parkway in Farmingdale, New York. The area surrounding the Site is composed mainly of industrial properties. Active Long Island Railroad tracks are located along the northern boundary of the property. Additional industrial properties are located directly adjacent to the Site, to the east and west. Another industrial property is located to the south, across Eastern Parkway. The Site has historically operated as an aircraft parts manufacturing and metal plating facility. The Site is currently vacant.

2.2 Geology and Hydrogeology

The Site is approximately 75 feet above mean sea level (msl) with gently sloping topography to the south west. The ground surface at the Site consists of poured concrete and asphalt pavement. Soils consist of white and orange medium to coarse sand and pebbles with intermittent clay lenses at shallow depth. The subsurface beneath the Site consists of unconsolidated sediments of the Upper Glacial formation to a depth of approximately 100 feet below ground surface (bgs).

The major aquifer systems beneath the subject property are the unconsolidated Upper Glacial aquifer of the Pleistocene Series and the Magothy and Lloyd Aquifers of the Cretaceous Series. The Magothy and Lloyd Aquifers are separated by the Raritan confining unit. Bedrock beneath the subject property is approximately 1,300 feet bgs.

The regional direction of groundwater flow beneath the vicinity of the property is toward the south. As part of this assessment, ACT measured local groundwater flow which was determined to be southwesterly. A water table diagram is presented in Figure 4.

2.3 Site History

Information pertaining to the environmental history of the Site was gathered from a variety of sources. ACT personnel interviewed property representatives, Mr. Robert Aversano and Ms. Linda Ginsberg, as well as Ms. Janet Gremli of the Suffolk County Department of Health Services (SCDOHS). ACT also reviewed documents provided by the property owners and SCDOHS regarding locations of subsurface structures and previous environmental work completed at the Site. A summary of previous environmental activities is provided, below:

October, 1991	Holzmacher, McLendon and Murrell, P.C. (H2M) installed one monitoring well (MW-01) directly downgradient from two abandoned fuel oil underground storage tanks (USTs). This well was required by the SCDOHS to assess the quality of the groundwater in the area of the abandoned tanks. During installation of the well, a fuel oil return line was broken, generating NYSDEC case number 91-08067. In response to this release, H2M excavated approximately one cubic yard of impacted soil for off-site disposal. NYSDEC formally closed this case on December 24, 1992.
December, 1991	H2M analyzed a groundwater sample collected from MW-01. Analytical results indicated the presence of chlorinated VOCs (CVOCs), not present in fuel oil. H2M also conducted a Freedom of Information Search of public supply wells near the Site. Results of the search revealed the presence of VOCs in some of the deeper supply wells operated by the Plainview Water District.
August, 1992	H2M Prepared a closure report for a former sump located along the north exterior wall of the plating building. Two soil borings were advanced through the concrete bottom of the sump to investigate

the extent of any VOC or heavy metals impact. H2M found VOC and heavy metal contamination in the groundwater, but not the soil beneath the sump.

October, 2001 — Contractors for B.H. Aircraft removed the sludge tank and two Aboveground Storage Tanks (ASTs) from the Waste Water Treatment Building.

For the purposes of this assessment, the property was divided into three sections (Figure 2). The eastern section consists of a large parking lot containing a leaching field with eight leachpools. Only two of these leachpools are depicted on a 1958 building plan, indicating that they received effluent the Wastewater Treatment Building. A 1948 building plan depicts this section of the property as unimproved.

The central section of the Site contains the Assembly Building, the southern leach field, and two sets of suspected leachpools. Review of the 1948 and 1958 building plans indicates that the Assembly Building was erected sometime between those dates. The southern leach field consists of 2 septic tanks and 16 leachpools and appears to have received effluent from both the Assembly Building and the Main Factory Building. According to the 1948 Building Plan, two leachpools are located in the central portion of this section. These leachpools are designated as temporary cesspools and slated for abandonment. They are not depicted in the 1958 plan. However, the 1958 plan shows two additional leachpools in the northern portion of this section. According to the 1958 plan, these leachpools were located beneath the former Waste Water Treatment Building (Figure 2). No information pertaining to the current status of these leachpools was available.

The western section of the property contains the Main Factory Building, the former plating building, the paint shop, a storage building and two garages. Three leachpools appear to service the Main Factory Building in the 1948 building plan. They

do not appear on the 1958 building plans. No information pertaining to the current status of these leachpools was available.

The northern portion of this section contains two leachpools and a "scum box". These leachpools do not appear on the 1948 building plan, but they are present in the 1958 building plan as part of the industrial waste treatment system. The "scum box" apparently functioned as a separation system with the southern leachpool as a "leaching chamber" and the northern leachpool as a "pump pit", containing a 2-inch transfer pump, which discharged to the Wastewater Treatment Building.

3.0 FINDINGS AND RESULTS OF THE INITIAL INVESTIGATION

3.1 Soil and Sediment Quality

Soil and sediment quality were investigated by advancing a total of 18 soil borings throughout the Site. Soil samples were obtained from ground surface to a depth ranging from 14 to 28 feet below ground surface (bgs) in each boring, where groundwater was encountered. All soil borings were completed utilizing a Geoprobe style truck-mounted unit with hydraulic percussion hammer, in combination with four foot macro samplers containing acetate liners.

One soil boring (SD-01) was advanced in the center of the first sequential leachpool of the leach field located in the eastern section of the property. This soil boring was advanced to a depth of 23 feet below ground surface.

Eight soil borings (SB-01, SB-02, SB-05, SB-06, SB-07, SD-02, SD-05 and SD-21) were advanced in the central portions of the property. Soil borings SB-01 and SB-02 were advanced within the parking lot located between the assembly building and the

main factory building. Soil borings SB-05 and SB-06 were advanced on the east and west sides, respectively, of the southern edge of the assembly building. SB-07 was advanced within one of the first sequential leachpools in the southern leachpool complex. Due to several of the drainage structures within the southern leachpool complex having been backfilled to grade, sediment samples from the bottoms of the other leachpools were not obtainable. Instead, one soil boring (SD-02) was advanced near the first encountered leachpool of the southern leachpool complex. A sedimante sample (SD-05) was collected from the first encountered leach pool associated with the eastern septic tank in the southern portion of the Site. A sediment sample (SD-21) was also collected from a storm drain located adjacent to the west side of the Assembly Building.

Three soil borings (SD-16, SD-17 and SD-18) were advanced in the southwestern section of the property. SD-16 was advanced adjacent to a small drain and immediately downgradient of suspect leachpools. SD-17 was advanced in the vicinity of a suspect sanitary leachpool to a depth of 24 feet bgs. SD-18 was advanced to a depth of 10 feet bgs within the Main Factory Building, in an area of depressed and broken stained concrete.

Six soil borings (SD-07, SD-08, SD-09, SD-10 SD,11, SD-12, SD-13 and SD-14) were advanced in the northwestern section of the Site. Five of these borings (SD-07, SD-08, SD-09, SD-10 and SD-11) were completed within the building. SD-7 was advanced in the Zyglow room and SD-08 was advanced in the Degreasing Area to a depth of 10 feet bgs. Soil borings SD-09, SD-10 and SD-11 were advanced along the western interior building wall to depth ranging from 8 to 10 feet bgs. A sample of sludge (SD-12 (0-2)) contained within the scum box was also collected, prior to cleanout of the vault. Soil boring SD-13 was advanced near the northwest corner of the property, and boring SD-14 was advanced in the vicinity of the previously abandoned sump adjacent

to the plating building to a depth of 24 feet bgs.

All samples were collected into laboratory-issued soil jars, placed into a cooler with ice and returned to ACT for in-house screening of VOCs utilizing a Photovac Model 10S50 gas chromatograph. Selected soil samples exhibiting the greatest evidence of VOC impact during in-house screening were transmitted to Long Island Analytical Laboratories (LIAL, ELAP No. 11693) for analysis of VOCs utilizing United States Environmental Protection Agency (USEPA) Method 8260 and heavy metals via SW-846 Method 7000 Series. Exceptions to this protocol are as follows: Sample SD-13 (20-22) was excluded from the heavy metals analysis. Sample SD-02 (16-20) was submitted for laboratory analysis of heavy metals without in-house screening. Gas chromatograms of each sample screened are presented in Appendix B.

Samples collected from the borings generally consisted of coarse to medium sands and pebbles. No visual or olfactory evidence of chemical or petroleum impact was observed in any of the soil borings. Results of analyses are presented in Tables 2 through 5 and Figure 5. Complete laboratory reports are presented in Appendix C. Laboratory results were compared to Suffolk County Article 12~~SOP No. 9-95 Cleanup Objectives (Article 12). Analytical results indicate the presence of residual heavy metals at concentrations above SCDOHS standards throughout the Site. No VOCs were detected above SCDOHS standards in the subsurface soils.

Chromium, copper and mercury concentrations appear to be elevated in the subsurface soils at both the western side of the Main Factory Building, and near the expected pathway of the Industrial Waste Treatment System. Elevated concentrations of zinc are present along the northern property boundary, near the expected pathway of the Industrial Waste System. Concentrations of iron remain elevated throughout the Site.

3.2 Groundwater Quality

Groundwater quality was measured during the investigation utilizing samples collected from 16 locations, throughout the Site. Of these 16 locations, four cased monitoring wells (MW-02, MW-03, MW-04 and MW-05) and seven temporary well points (SB-01, SB-02, SD-01, SD-02, SD-13, SD-14, SD-16 and SD-17) were installed during the initial assessment. One existing monitoring well (MW-01), was also sampled. Two additional temporary wells (TW-1 and TW-2) and a fifth cased well (MW-06) were installed during the supplemental assessment.

Monitoring well MW-01, a 4-inch diameter PVC well is located near the northwestern corner of the Site and hydraulically cross-gradient from the northwestern leach field. MW-02 was installed in the southwestern portion of the Site and hydraulically downgradient of the northwestern leach field. MW-03 and MW-04 were installed within the downgradient portions of the southern leachpool complex. MW-05 was installed near the northeastern corner of the Site, hydraulically cross-gradient of the northeastern leach field. MW-06 was installed upgradient of the northwestern leach field. Locations of the monitoring wells are presented in Figure 3.

The new monitoring wells were completed by a direct-push method utilizing a Geoprobe style truck-mounted unit with hydraulic percussion hammer. Each newly-installed well consisted of one-inch diameter PVC riser pipe above 0.020 inch machine-slotted well screen set at 20 to 30 feet bgs.

Temporary well points (SB-01, SB-02, SD-01, SD-02, SD-13, SD-14, SD-16 and SD-17, TW-01 and TW-02) were installed by driving a two-foot long screened sampler with a Geoprobe style truck-mounted hydraulic unit with hydraulic percussion hammer to the desired depth. SB-01 and SB-02 were located hydraulically downgradient from

the area of the Wastewater Treatment Building. SD-1 was located within the center of the first sequential leachpool in the northeastern leach field. SD-2 was located near the northern side of the southern leach field. SD-13 and SD-14 were located near the northwestern corner of the property, hydraulically cross-gradient of the northwestern leach field. SD-17 was located in the southwestern corner of the property, hydraulically downgradient of the northwestern leach field. TW-01 was located directly downgradient of the SB-12A leachpool and TW-02 was located directly downgradient of the "scum box". Groundwater was also collected at 45 and 60 feet bgs in TW-01 and TW-02.

Each well was purged of three to five well volumes of ambient groundwater. Samples were then collected into laboratory-issued containers, placed in a cooler with ice and transmitted to LIAL for analysis of VOCs utilizing USEPA Method 8260 and heavy metals via SW-846 Method 7000 series. With exception of TW-01 and TW-02, duplicate samples were screened in-house for VOCs utilizing a Photovac Model 10S50 gas chromatograph unit. Groundwater samples collected from SD-13, SD-14, SD-16 and SD-17 were not analyzed by the laboratory. Gas chromatograms of each sample are presented in Appendix B.

Results of analyses are presented in Tables 6 through 9 and Figures 6 and 7. Complete laboratory reports are presented in Appendix B. Laboratory results were compared to NYS Water Quality Regulations, 6NYCRR 703.5, March 18, 1998 and NYS Public Health Law, Section 225, Subpart 5-1.

VOC detections were limited to groundwater samples collected from the northwest (MW-01, TW-1 and TW-2) and southwest (MW-02) sections of the property. These findings are consistent with an impacted soil source at the northwest leach field.

Laboratory analytical results also indicate the presence of heavy metals at

concentrations above NYSDEC standards in the groundwater beneath the Site. The distribution of the metals suggest a source of impact along the pathway of the Industrial Waste Treatment System, including the northwest leach field, where the concentrations are relatively elevated. The downgradient wells show a significant decrease in metals concentrations, indicating that the metals are not migrating off the Site.

Groundwater from SD-16 was not analyzed by the laboratory. However, in-house screening indicates the presence of VOCs originating from the area of the three suspect leachpools located along the central western wall of the Main Factory Building. In-house screening of groundwater collected from the downgradient point SD-17 revealed the presence of VOCs at lesser concentrations. This suggests the VOCs are not migrating off the Site, and the source does not pose a significant threat to the quality of the underlying groundwater.

4.0 FINDINGS AND RESULTS OF THE SUPPLEMENTAL INVESTIGATION

After reviewing the findings of the initial assessment in the vicinity of northern drainage system, the SCDOHS required additional investigation in the northwestern portion of the Site. All additional work was completed with SCDOHS oversight.

On November 6, 2001, ACT advanced boring SD-12 through the bottom of the concrete scum box to a depth of 10 feet bgs. Boring SD-12A was advanced to a depth of 8 feet below the bottom of the southern leachpool connected to the scum box.

On November 27, 2001, ACT advanced one soil boring (SD-12B) through the center of the northern leachpool in the northwest leach field. The soil boring was advanced to a depth of 25 feet bgs, and soil samples were collected in the same manner as described above. ACT also installed one additional permanent monitoring

well (MW-06) near the northwest corner of the main factory building, hydraulically upgradient of the northwest leach field, and the pathway of the Industrial Waste Treatment System. The monitoring well was of similar construction and was installed in the same manner as described above. The locations of the soil boring and the monitoring well are also presented in Figure 3. Notes for all of the field activities are presented in Appendix A.

4.1 Soil Quality

Soil samples collected in SD-12 at 10-12 feet bgs, SD-12A at 6-8 feet below the sediment surface and SD-12B at 20-21 feet and 23-25 feet bgs were all transmitted to LIAL for analysis of the SCDOHS list of VOCs and heavy metals. Results of the analysis are presented in Tables 2 through 5 and Figure 5. Complete laboratory analysis is presented in Appendix C.

Laboratory results were compared to Suffolk County Article 12~~SOP No. 9-95 Cleanup Objectives (Article 12). No VOCs were detected in the soil samples. Increased concentrations of Barium and Lead in the subsurface soil appears to be isolated to an area near the SD-12A leachpool, in the northwestern portion of the Site. Nickel concentrations also appear elevated near the leaching system in the northwest portion of the property, and near the suspect leachpools located in the southwestern section of the property. Relatively elevated concentrations of heavy metals were also detected in SD-12B (20-21 feet bgs). The concentrations of the metals decreased in SD-12B (23-25 feet bgs). These findings were confirmed by the analysis of duplicate samples collected by the SCDOHS, and suggest that most of the soil-impact was above 23 feet and removed during subsequent excavation of this leachpool.

4.2 Groundwater Quality

Monitoring well MW-06 was purged of three to five well volumes of ambient groundwater. Samples were then collected into laboratory-issued containers, placed in a cooler with ice and transmitted to LIAL for analysis of the SCDOHS list of VOCs and heavy metals.

Results of the analyses are presented in Tables 6 through 9 and Figure 6. Complete laboratory analysis is presented in Appendix C. Laboratory results were compared to NYS Water Quality Regulations, 6NYCRR 703.5, March 18, 1998 and NYS Public Health Law, Section 225, Subpart 5-1. No VOCs were detected in the groundwater sample. With exception of lead at 0.018 mg/L, no heavy metals were detected in the groundwater sample. These results present further evidence that the soil impact in SB-12B is the source of groundwater impact in the northwest portion of the Site.

5.0 REMEDIAL ACTIVITIES

On November 5, 2001, under the supervision of the SCDOHS, ACT oversaw the excavation of soil from the northwest leach field, in the vicinity of SB-12A. Approximately 30 yards of soil were removed from leachpool 12A, to a depth of 15 feet bgs. The concrete blocks forming the leachpool were removed and disposed of off-Site as well. Sludge from the scum box was also removed and drummed.

Excavation in the northwest leach field in the vicinity of SB-12B occurred on December 17, 2001, under the supervision of the SCDOHS and ACT. Approximately 60 yards of soil were removed from leachpool 12B to a depth in excess of 20 feet below grade. The concrete blocks forming the leachpool were removed and disposed of off-Site as well.

6.0 EXPOSURE PATHWAY EVALUATION

The contaminants of concern remaining at this Site are heavy metals. Therefore, modes of potential exposure will be limited to dermal contact and ingestion. With exception of intrusive construction activities, dermal contact with soils at the depths found to contain elevated concentrations is highly unlikely to occur at this Site. Moreover, the removal of soils from the area around leachpools 12A and 12B greatly reduces the amount of these soils present. Therefore, the dermal contact pathway may be considered incomplete.

The removal of the impacted soil from the 12A and 12B leachpools also significantly reduced the source of VOC and heavy metals impact in the groundwater on the western side of the property. Therefore, the already relatively low concentrations of metals in the groundwater downgradient of the former source will reduce over time. Current data from the down gradient wells suggest the metals are primarily bound to sediment which gets drawn into the water sample during a monitoring event. Hence, it is not expected that the metals will migrate off-Site.

A survey of private and public water supply wells was also conducted. Mr. George Veilson of the East Farmingdale Water District was interviewed and stated that the Water District's juristiction extends to the Southern State Parkway, approximately ½ mile south of the Site. Mr. Veilson also stated that there were no private or public water supply wells located between the Site and the Southern State Parkway. Clearly, the ingestion of groundwater beneath the Site is not a complete pathway.

7.0 CONCLUSIONS

The principal source of the VOC contamination at the Site has been removed through the excavation of impacted sediment from leachpools 12A and 12B. The bulk of heavy metal impact at the Site has also been removed. Although some impacted soil may remain along the northern property boundary, downgradient groundwater quality data indicates that the metals are entrained in the soil, and are not migrating. Therefore, there will be no exposures to occupants of the Site, the general public or the environment. In light of the above, further active remediation at the Site is not warranted.

8.0 EXCLUSIONS AND DISCLAIMER

The purpose of this investigation was to assess the potential environmental liabilities at the subject site with respect to data which Advanced Cleanup Technologies, Inc. has accumulated during the Phase II Environmental Site Assessment. The conclusions presented in this report are based solely on the observations of the site at the time of the investigation. Data provided, including information provided by others, was utilized in assessing the site conditions. The accuracy of this report is subject to the accuracy of the information provided. Advanced Cleanup Technologies, Inc. is not responsible for areas not seen or information not collected. This report is given without a warranty or guarantee of any kind, expressed or implied. Advanced Cleanup Technologies, Inc. assumes no responsibility for losses associated with the use of this report.

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TABLES

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Table 1
Summary of In-House Gas Chromatography* Screening
441 Eastern Parkway
Farmingdale, New York

Sample ID	Matrix	Total Peaks	Qualitative Comments	Laboratory Analyses Performed	
				EPA 8260 (VOCs)	13 Heavy Metals
MW-01	Groundwater	3	Trace	X	X
MW-02	Groundwater	6	Numerous small and trace peaks	X	X
MW-03	Groundwater	3	Trace	X	X
MW-04	Groundwater	3	Trace	X	X
MW-05	Groundwater	2	Trace	X	X
SB-01	Groundwater	0	Clean	X	X
SB-01 (4-8)	Soil	4	Small early peaks		X
SB-01 (8-12)	Soil	3	Small early peaks		
SB-01 (12-16)	Soil	9	Some large and several small, early peaks		
SB-01 (20-24)	Soil	1	One large, early peak		
SB-01 (24-28)	Soil	1	One large, early peak	X	X
SB-02	Groundwater	0	Clean	X	X
SB-02 (16-20)	Soil	4	Several small, early peaks		
SB-02 (20-24)	Soil	1	One moderate, early peak		X
SB-05 (12-14)	Soil	3	Small early peaks		
SB-06 (12-14)	Soil	1	One small, early peak		
SB-07 (14-16)	Soil	0	Trace		
SD-01	Groundwater	4	Several small, early peaks	X	X
SD-01 (0-4)	Sediment	4	Small, early peaks		
SD-01 (9-10)	Soil	3	Small early peaks		X
SD-01 (18-20)	Soil	4	Small early peaks		
SD-01 (21-23)	Soil	3	Small early peaks		

* Photovac model 10S50

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Table 1 (Continued)
Summary of In-House Gas Chromatography* Screening
441 Eastern Parkway
Farmingdale, New York

Sample ID	Matrix	Total Peaks	Qualitative Comments	Laboratory Analyses Performed	
				EPA 8260 (VOCs)	13 Heavy Metals
SD-02	Groundwater	4	One large and three small, early peaks	X	X
SD-02 (16-20)	Soil	NS	NS		X
SD-05 (0-2)	Soil	2	One small, early peak		
SD-07 (0-2)	Soil	0	Clean	X	X
SD-07 (2-4)	Soil	0	Clean		
SD-07 (4-6)	Soil	1	One small, early peak		
SD-07 (6-8)	Soil	1	One small, early peak		
SD-07 (8-10)	Soil	0	Clean		
SD-08 (0-2)	Soil	1	One small, early peak	X	X
SD-08 (2-4)	Soil	0	Clean		
SD-08 (4-6)	Soil	0	Clean		
SD-08 (6-8)	Soil	3	Small early peaks		
SD-08 (8-10)	Soil	3	Small early peaks		
SD-09 (0-2)	Soil	4	One moderate and two small early peaks	X	X
SD-09 (2-4)	Soil	2	Small early peaks		
SD-09 (4-6)	Soil	3	Small early peaks		
SD-09 (6-8)	Soil	4	Trace		
SD-09 (8-10)	Soil	4	Small early peaks		
SD-11 (0-1)	Soil	8	Numerous early and late peaks of varying amplitude		
SD-11 (1-8)	Soil	0	Clean		

* Photovac model 10S50

NS - Not Screened

Table 1 (Continued)
Summary of In-House Gas Chromatography* Screening
441 Eastern Parkway
Farmingdale, New York

Sample ID	Matrix	Total Peaks	Qualitative Comments	Laboratory Analyses Performed	
				EPA 8260 (VOCs)	13 Heavy Metals
SD-12 (0-2)	Sludge	4	Three large, early peaks	X	X
SD-12 (7.5)***	Soil	NS	NS	X**	X**
SD-12 (10-20)***	Soil	NS	NS	X**	X**
SD-12A (3-9)***	Soil	0	Clean		
SD-12A (6-8)***	Soil	0	Clean		
SD-13	Groundwater	4	One large, early peak		
SD-13 (0-4)	Soil	6	Numerous early and late trace peaks		
SD-13 (4-8)	Soil	2	Trace		
SD-13 (8-12)	Soil	2	One large and one small early peak		
SD-13 (12-16)	Soil	2	Trace		
SD-13 (16-18)	Soil	0	Trace		
SD-13 (18-20)	Soil	1	Trace		
SD-13 (20-22)	Soil	6	One large, early and several trace, late peaks	X	
SD-13 (22-24)	Soil	6	One large, early and several trace, late peaks		
SD-14	Groundwater	6	Numerous early and late trace peaks		
SD-14 (0-4)	Soil	NM	NM	X	X
SD-14 (4-8)	Soil	3	Several trace, early peaks		
SD-14 (8-12)	Soil	6	Numerous early and late trace peaks		
SD-14 (12-16)	Soil	6	Numerous moderate and small early and late peaks		
SD-14 (16-20)	Soil	3	Trace		
SD-14 (20-24)	Soil	1	Trace		
SD-16	Groundwater	1	One moderate, early peak		
SD-16 (0-4)	Soil	1	One large, early peak	X	X
SD-16 (4-8)	Soil	1	One large, early peak		

* Photovac model 10S50

** Analyzed for Suffolk County Department of Health Services list of contaminants in acordance with Suffolk County Article 12--SOP No. 9-95.

*** Samples collected as part of the supplemental assessment

NS - Not Screened

Table 1 (Continued)
Summary of In-House Gas Chromatography* Screening
441 Eastern Parkway
Farmingdale, New York

Sample ID	Matrix	Total Peaks	Qualitative Comments	Laboratory Analyses Performed	
				EPA 8260 (VOCs)	13 Heavy Metals
SD-16 (8-12)	Soil	2	One small and one moderate, early peak		
SD-16 (12-14)	Soil	1	One small, early peak		
SD-16 (14-16)	Soil	2	Trace		
SD-16 (16-18)	Soil	2	One small and one moderate, early peak		
SD-16 (18-20)	Soil	2	One large and one small early peak		
SD-16 (20-22)	Soil	2	One large early peak		
SD-16 (22-24)	Soil	1	Trace		
SD-17	Groundwater	5	Numerous early and late trace peaks		
SD-17 (0-4)	Soil	2	One large early peak		
SD-17 (4-8)	Soil	3	One large early peak		
SD-17 (8-12)	Soil	6	One large and one small early peak	X	X
SD-17 (12-16)	Soil	2	Trace		
SD-17 (16-20)	Soil	2	Two large, early peaks		
SD-17 (20-24)	Soil	5	Numerous early and late trace peaks		
SD-18 (0-2)	Soil	4	Small early peaks	X	X
SD-18 (2-4)	Soil	1	Trace		
SD-18 (4-6)	Soil	3	Trace		
SD-18 (6-8)	Soil	3	Trace		
SD-18 (8-10)	Soil	4	Trace		
SD-21 (2-4)	Soil	0	Clean		
TW-01 (30)***	Groundwater	NS	NS	X**	X**
TW-01 (45)***	Groundwater	NS	NS	X**	X**
TW-01 (60)***	Groundwater	NS	NS	X**	X**
TW-02 (30)***	Groundwater	NS	NS	X**	X**
TW-02 (45)***	Groundwater	NS	NS	X**	X**
TW-02 (60)***	Groundwater	NS	NS	X**	X**

* Photovac model 10S50

** Analyzed for Suffolk County Department of Health Services list of contaminants in acordance with Suffolk County Article 12--SOP No. 9-95.

*** Samples collected as part of the supplemental assessment

NS - Not Screened

TABLE 2
Volatile Organic Compounds (VOCs) in Soil (ug/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SB-01 24 to 28 10/11/01	SD-07 0 to 2 10/11/01	SD-08 0 to 2 10/11/01	SD-09 0 to 2 10/14/01	SD-12A 3 to 4 10/30/01	SD-12A 6 to 8 10/30/01	SD-13 20 to 22 10/14/01	SD-14 0 to 4 10/14/01	SD-16 0 to 4 10/14/01	SD-17 8 to 12 10/14/01	SD-18 0 to 2 10/14/01	NYSDEC STANDARD*
Benzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Bromobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	800
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	200
Bromodichloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	500
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A
n-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3,400
sec-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5,000
tert-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3,400
Carbon Tetrachloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	600
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1700
Clorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	200
Chloroform	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A
2-Chlorotoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,800
4-Chlorotoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,800
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	500
1,2-Dibromoethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	200
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	8,000
1,3-dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,600
1,4-dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	8,000
Dichlororodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	17	<5	<5	200
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	400
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
1,3-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
2,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300

*Suffolk County Article 12—SOP No. 9-95 Cleanup Objectives.

N/A - Not Available

Bolded numbers signify exceedence of regulatory standards.

Confidential

TABLE 2 (Continued)
Volatile Organic Compounds (VOCs) in Soil (ug/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SB-01 24 to 28 10/11/01	SD-07 0 to 2 10/11/01	SD-08 0 to 2 10/11/01	SD-09 0 to 2 10/14/01	SD-12A 3 to 4 10/30/01	SD-12A 6 to 8 10/30/01	SD-13 20 to 22 10/14/01	SD-14 0 to 4 10/14/01	SD-16 0 to 4 10/14/01	SD-17 8 to 12 10/14/01	SD-18 0 to 2 10/14/01	NYSDEC STANDARD*
1,1-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5,500
Hexachlorobutadiene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10,000
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	2,600
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3,900
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10,000
n-Propylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	2,500
Styrene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,000
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	600
Tetrachloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,400
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,500
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3,400
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3,400
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	47	<5	<5	800
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	300
Trichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	444	59	<5	700
Trichlorofluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	800
1,2,3-Trichlorpropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	400
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	2,600
1,2-4-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5	8	<5	<5	<5	2,400
Vinyl Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	200
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	N/A
Carbon Disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	N/A
Vinyl Acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A
2-Hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A
Xylenes (Total)	<15	<15	<15	<15	<15	<15	<15	6	<15	<15	<15	1,200
TOTAL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	508	59	BDL	N/A

*Suffolk County Article 12--SOP No. 9-95 Cleanup Objectives.

N/A - Not Available

Bolded numbers signify exceedence of regulatory standards.

Confidential

Table 3
Heavy Metals in Soil (mg/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SB-01 4 to 8 10/01/01	SB-01 24 to 28 10/01/01	SB-02 20 to 24 10/01/01	SD-01 9 to 10 10/01/01	SD-02 16 to 20 10/01/01	SD-07 0 to 2 10/11/01	SD-08 0 to 2 10/11/01	EASTERN USA BACKGROUND*	SCDOHS STANDARD*
Arsenic	<6.60	<6.60	<6.60	<6.60	<6.60	<6.60	<6.60	3 - 12	7.5
Barium	142	81.3	12.0	53	14.0	32.1	8.93	15 - 600**	300 or SB**
Cadmium	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	0.1 - 1	1
Chromium	8.30	**10.3**	**19.0**	**61.0**	8.50	**13.7**	5.65	1.5 - 40	10
Copper	4.00	10.2	1.90	**26.0**	3.80	**28.8**	2.30	1 - 50	25
Iron	**7,413**	**4,162**	1,660	**5,349**	**2,535**	**10,867**	**8,175**	2,000 - 550,000**	2,000 or SB**
Lead	277	160	15.0	160	2.3	21.1	1.75	4.0 - 6.1	100
Manganese	42.0	28.0	12.0	61.0	15.0	47.6	66.2	50 - 5,000**	SB**
Mercury	**0.18**	0.09	<0.020	0.06	0.01	**0.16**	<0.020	.001 - 0.2	0.1
Nickel	3.70	3.53	0.92	**160**	1.10	5.36	2.80	0.5 - 25	13
Selenium	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	0.1 - 3.9**	2 or SB**
Silver	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	N/A	5.0
Zinc	**261**	**65.4**	6.90	**219**	4.40	**57.7**	8.36	9 - 50**	20 or SB**

*Suffolk County Article 12--SOP No. 9-95 Cleanup Objectives, unless otherwise noted.

**NYSDEC TAGM, HWR-94-4046, January 24, 1994.

SB - Site Background

N/A - Not Available

Bolded numbers signify exceedence of regulatory standards.

Confidential

Table 3
Heavy Metals in Soil (mg/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SD-09 0 to 2 10/14/01	SD-12A 3 to 4 10/30/01	SD-12A 6 to 8 10/30/01	SD-14 0 to 4 10/14/01	SD-16 0 to 4 10/14/01	SD-17 8 to 12 10/14/01	SD-18 0 to 2 10/14/01	EASTERN USA BACKGROUND*	SCDOHS STANDARD*
Arsenic	<6.60	<6.60	<6.60	<6.60	6.60	<6.60	<6.60	3 - 12	7.5
Barium	10.5	**378**	296	18.0	52.6	37.3	15.7	15 - 600**	300 or SB**
Cadmium	<1.65	<1.00	<1.00	<1.65	<1.65	<1.65	<1.65	0.1 - 1	1
Chromium	4.90	**30.00**	**32.4**	4.50	**19.4**	**14.6**	7.75	1.5 - 40	10
Copper	5.77	<1.65	2.06	5.46	**172**	13.1	9.50	1 - 50	25
Iron	**2,795**	1,173	**2,534**	**2,692**	14,670	**9,228**	**9,727**	2,000 - 550,000**	2,000 or SB**
Lead	<1.65	**163**	**117**	8.63	124	14.7	4.39	4.0 - 6.1	100
Manganese	78.0	11.6	17.7	47.3	54.2	83.8	67.9	50 - 5,000**	SB**
Mercury	<0.020	<0.020	<0.020	**0.11**	0.08	<0.020	0.06	.001 - 0.2	0.1
Nickel	2.40	11.5	**19.1**	2.87	**27.4**	5.76	3.37	0.5 - 25	13
Selenium	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	0.1 - 3.9**	2 or SB**
Silver	<1.65	<1.65	<1.65	<1.65	1.65	<1.65	<1.65	N/A	5
Zinc	8.71	8.50	13.8	19.8	**75.8**	**21.7**	17.0	9 - 50**	20 or SB**

*Suffolk County Article 12--SOP No. 9-95 Cleanup Objectives, unless otherwise noted.

**NYSDEC TAGM, HWR-94-4046, January 24, 1994.

SB - Site Background

N/A - Not Available

Bolded numbers signify exceedence of regulatory standards.

TABLE 4
SCDOHS Volatile Organic Compounds (VOCs) in Soil (ug/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SD-12 7.5 11/06/01	SD-12 10 to 12 11/06/01	SD-12B 20 to 21 11/28/01	SD-12B 23 to 25 11/28/01	SCDOHS STANDARD*
Acetone	<50	<50	<50	<50	N/A
Benzene	<5	<5	<5	<5	60
Bromobenzene	<5	<5	<5	<5	800
Bromochloromethane	<5	<5	<5	<5	200
Bromodichloromethane	<5	<5	<5	<5	300
Bromoform	<5	<5	<5	<5	500
Bromomethane	<5	<5	<5	<5	N/A
n-Butylbenzene	<5	<5	<5	<5	3,400
sec-Butylbenzene	<5	<5	<5	<5	5,000
tert-Butylbenzene	<5	<5	<5	<5	3,400
Carbon Tetrachloride	<5	<5	<5	<5	600
Chlorobenzene	<5	<5	<5	<5	1,700
Chlorodifluoromethane	<5	<5	<5	<5	N/A
Chloroethane	<5	<5	<5	<5	200
2-Chloroethylvinyl Ether	<5	<5	<5	<5	N/A
Chloroform	<5	<5	<5	<5	300
Chloromethane	<5	<5	<5	<5	N/A
2-Chlorotoluene	<5	<5	<5	<5	1,800
4-Chlorotoluene	<5	<5	<5	<5	1,800
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	500
1,2-Dibromoethane	<5	<5	<5	<5	300
Dibromomethane	<5	<5	<5	<5	200
Dibromochloromethane	<5	<5	<5	<5	300
1,2-Dichlorobenzene	<5	<5	<5	<5	8,000
1,3-dichlorobenzene	<5	<5	<5	<5	1,600
1,4-dichlorobenzene	<5	<5	<5	<5	8,000
Dichlororodifluoromethane	<5	<5	<5	<5	300
1,1-Dichloroethane	<5	<5	<5	<5	200
1,2-Dichloroethane	<5	<5	<5	<5	100
1,1-Dichloroethene	<5	<5	<5	<5	400
cis-1,2-Dichloroethene	<5	<5	<5	<5	300
trans-1,2-Dichloroethene	<5	<5	<5	<5	300
1,2-Dichloropropane	<5	<5	<5	<5	300
cis-1,3-Dichloropropene	<5	<5	<5	<5	300
trans-1,3-Dichloropropene	<5	<5	<5	<5	300

*Suffolk County Article 12--SOP No. 9-95 Cleanup Objectives
N/A - Not Available

Confidential

TABLE 4 (Continued)
SCDOHS Volatile Organic Compounds (VOCs) in Soil (ug/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SD-12 7.5 11/06/01	SD-12 10 to 12 11/06/01	SD-12B 20 to 21 11/28/01	SD-12B 23 to 25 11/28/01	SCDOHS STANDARD*
1,3-Dichloropropane	<5	<5	<5	<5	300
2,2-Dichloropropane	<5	<5	<5	<5	300
1,1-Dichloropropene	<5	<5	<5	<5	300
p-Diethylbenzene	<5	<5	<5	<5	3,800
Ethylbenzene	<5	<5	<5	<5	5,500
p-Ethyltoluene	<5	<5	<5	<5	1,800
Freon 113	<5	<5	<5	<5	6,000
Hexachlorobutadiene	<5	<5	<5	<5	10,000
Isopropylbenzene	<5	<5	<5	<5	2,600
p-Isopropyltoluene	<5	<5	<5	<5	3,900
Methylene Chloride	<5	<5	<5	<5	100
Methyl Ethyl Ketone	<10	<10	<10	<10	300
Methyl Isobutyl Ketone	<5	<5	<5	<5	1,000
Naphthalene	<5	<5	<5	<5	10,000
n-Propylbenzene	<5	<5	<5	<5	2,500
Styrene	<5	<5	<5	<5	1,000
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	300
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	600
Tetrachloroethylene	<5	<5	<5	<5	1,400
1,2,4,5-Tetramethylbenzene	<5	<5	<5	<5	10,000
Toluene	<5	<5	<5	<5	1,500
1,2,3-Trichlorobenzene	<5	<5	<5	<5	3,400
1,2,4-Trichlorobenzene	<5	<5	<5	<5	3,400
1,1,1-Trichloroethane	<5	<5	<5	<5	800
1,1,2-Trichloroethane	<5	<5	<5	<5	300
Trichloroethene	<5	<5	<5	<5	700
Trichlorofluoromethane	<5	<5	<5	<5	800
1,2,3-Trichlorpropane	<5	<5	<5	<5	400
1,3,5-Trimethylbenzene	<5	<5	<5	<5	2,600
1,2-4-Trimethylbenzene	<5	<5	<5	<5	2,400
Vinyl Chloride	<5	<5	<5	<5	200
m&p Xylenes	<10	<10	<10	<10	N/A
o-Xylene	<5	<5	<5	<5	N/A
Xylenes (Total)	<15	<15	<15	<15	1,200
TOTAL	BDL	BDL	BDL	BDL	N/A

*Suffolk County Article 12--SOP No. 9-95 Cleanup Objectives
N/A - Not Available
BDL - Below Method Detection Limits

Confidential

Table 5
SCDOHS Heavy Metals in Soil (mg/kg)
411 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SD-12 7.5 11/06/01	SD-12 10 to 12 11/06/01	SD-12B 20 to 21 11/28/01	SD-12B 23 to 25 11/28/01	EASTERN USA BACKGROUND*	SCDOHS STANDARD*
Arsenic	<6.60	<6.60	<6.60	<6.60	3 - 12	7.5
Beryllium	<1.65	<1.65	<1.65	<1.65	0 - 1.75	1.6
Cadmium	<1.00	<1.00	<1.00	<1.00	0.1 - 1	1.0
Chromium	**10.2**	**40.9**	**19.4**	**14.5**	1.5 - 4.0	10.0
Copper	**57.5**	**27.3**	1.96	**<1.65**	1.0 - 50	25.0
Lead	2.83	1.8	119	18.1	4.0 - 61	100.0
Mercury	<0.020	<0.020	<0.020	<0.020	0.001 - 0.2	0.1
Nickel	**13.6**	**15.3**	3.05	<1.65	0.5 - 25	13.0
Silver	<1.65	<1.65	<1.65	<1.65	N/A	5.0

*Suffolk County Article 12---SOP No. 9-95 Cleanup Objectives

N/A - Not Available

Bolded numbers signify exceedence of regulatory standards.

Confidential

TABLE 6
Volatile Organic Compounds (VOCs) in Groundwater (ug/L)
441 Eastern Parkway
Farmingdale, New York

Sample ID Date	MW-01 10/11/01	MW-02 10/11/01	MW-03 10/11/01	MW-04 10/11/01	MW-05 10/11/01	SB-01 10/11/01	SB-02 10/11/01	SD-01 10/11/01	SD-02 10/11/01	NYSDEC STANDARD*
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1
Bromobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	50
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5	50
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
n-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
sec-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Carbon Tetrachloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Clorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	50**
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	<5	<5	<5	<5	<5	7
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	50**
2-Chlorotoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-dibromo-3-chloropropan	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.04
1,2-Dibromoethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	50**
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	3
1,3-dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	3
1,4-dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	3
Dichlororodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,1-Dichloroethane	109	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.6
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.7
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	1
1,3-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5

*NYS Water Quality Regulations, 6 NYCRR 703.5, March 18, 1998, except where indicated.

**NYS Public Health Law, Section 225, Subpart 5-1

Confidential

TABLE 6 (Continued)
Volatile Organic Compounds (VOCs) in Groundwater (ug/L)
441 Eastern Parkway
Farmingdale, New York

Sample ID Date	MW-1 10/11/01	MW-2 10/11/01	MW-3 10/11/01	MW-4 10/11/01	MW-5 10/11/01	SB-01 10/11/01	SB-02 10/11/01	SD-01 10/11/01	SD-02 10/11/01	NYSDEC STANDARD*
1,1-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Hexachlorobutadiene	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.5
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	50**
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	10
n-Propylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Tetrachloroethene	<5	12	<5	<5	<5	<5	<5	<5	<5	5
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,1,1-Trichloroethane	45	19	<5	<5	<5	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	1
Trichloroethene	<5	6	<5	<5	<5	<5	<5	<5	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2,3-Trichlorpropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.04
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-4-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Vinyl Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	2
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	50
Carbon Disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	50**
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	50**
Vinyl Acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	50**
2-Hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5	50
Xylenes (Total)	<15	<15	<15	<15	<15	<15	<15	<15	<15	15
TOTAL	154	37	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A

*NYS Water Quality Regulations, 6 NYCRR 703.5, March 18, 1998, except where indicated.

**NYS Public Health Law, Section 225, Subpart 5-1

BDL - Below Method Detecion Limit

Table 7
Heavy Metals in Groundwater (mg/L)
441 Eastern Parway
Farmingdale, NY

Sample ID Date	MW-01 10/11/01	MW-02 10/11/01	MW-03 10/11/01	MW-04 10/11/01	MW-05 10/11/01	SB-01 10/01/01	SB-02 10/01/01	SD-01 10/01/01	SD-02 10/01/01	NYSDEC STANDARD*
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.39**	0.025
Barium	<1.00	<1.00	<1.00	<1.00	<1.00	**1.70**	0.21	0.75	**3.40**	1.00
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.005
Chromium	**0.22**	**0.41**	<0.05	**0.11**	**0.27**	**2.00**	**0.90**	**2.40**	**1.20**	0.05
Copper	0.05	0.19	0.18	0.16	0.11	**0.39**	<0.05	**0.28**	**1.30**	0.2
Iron	**20.5**	110	**84.2**	**55.5**	**55.6**	**2,697**	**46.0**	**79.0**	**302**	0.3
Lead	**0.1**	**0.03**	**0.66**	<0.05	**0.06**	**1.10**	**0.15**	**0.051**	**1.60**	0.025
Manganese	0.06	**0.57**	0.4	0.16	**0.58**	**1.40**	**0.98**	**1.34**	**2.10**	0.3
Mercury	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0007
Nickel	<0.05	0.08	<0.05	<0.05	<0.05	**0.17**	<0.05	**0.39**	**0.32**	0.1
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01
Silver	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05
Zinc	0.18	0.29	0.63	0.28	0.17	**2.80**	0.10	0.52	2.50	2.00

*NYS Water Quality Regulations, 6 NYCRR 703.5, March 18, 1998.

Bolded numbers signify exceedence of regulatory standards.

TABLE 8
SCDOHS Volatile Organic Compounds (VOCs) in Groundwater (ug/L)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	TW-1 30 11/06/01	TW-1 45 11/06/01	TW-1 60 11/06/01	TW-2 30 11/06/01	TW-2 45 11/06/01	TW-2 60 11/06/01	MW-06 20 to 30 11/28/01	NYSDEC STANDARD*
Acetone	<50	<50	<50	<50	<50	<50	<50	50
Benzene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1
Bromobenzene	<5	<5	<5	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	<5	<5	<5	50
Bromoform	<5	<5	<5	<5	<5	<5	<5	50
Bromomethane	<5	<5	<5	<5	<5	<5	<5	5
n-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	5
sec-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	<5	<5	<5	5
Carbon Tetrachloride	<5	<5	<5	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	5
Chlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	50**
Chloroethane	<5	<5	<5	<5	<5	<5	<5	5
2-Chloroethylvinyl ether	<5	<5	<5	<5	<5	<5	<5	50**
Chloroform	<5	<5	<5	<5	<5	<5	<5	7
Chloromethane	<5	<5	<5	<5	<5	<5	<5	50**
2-Chlorotoluene	<5	<5	<5	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	<5	<5	<5	5
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	0.04
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	50
1,2-Dibromoethane	<5	<5	<5	<5	<5	<5	<5	50**
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	3
1,3-dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	3
1,4-dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	3
Dichlororodifluoromethane	<5	<5	<5	<5	<5	<5	<5	5
1,1-Dichloroethane	**71**	<5	<5	**113**	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	0.6
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	0.7
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	1
1,3-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	5

*NYS Water Quality Regulations, 6 NYCRR 703.5, March 18, 1998, except where indicated.

**NYS Public Health Law, Section 225, Subpart 5-1

Bolded numbers signify exceedence of regulatory standards.

TABLE 8 (Continued)
SCDOHS Volatile Organic Compounds (VOCs) in Groundwater (ug/L)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	TW-1 30 11/06/01	TW-1 45 11/06/01	TW-1 60 11/06/01	TW-2 30 11/06/01	TW-2 45 11/06/01	TW-2 60 11/06/01	MW-06 20 to 30 11/28/01	NYSDEC STANDARD*
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	0.4
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	0.4
p-Diethyl benzene	<5	<5	<5	<5	<5	<5	<5	50**
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	5
p-Ethyltoluene	<5	<5	<5	<5	<5	<5	<5	50**
Freon 113	<5	<5	<5	<5	<5	<5	<5	50**
Hexachlorobutadiene	<5	<5	<5	<5	<5	<5	<5	0.5
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	5
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	50**
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	5
Methyl Ethyl Ketone	<10	<10	<10	<10	<10	<10	<10	50
Methyl Isobutyl Ketone	<5	<5	<5	<5	<5	<5	<5	50**
Naphthalene	<5	<5	<5	<5	<5	<5	<5	10
n-Propylbenzene	<5	<5	<5	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5	<5	5
1,2,4,5-Tetramethylbenzene	<5	<5	<5	<5	<5	<5	<5	50**
Toluene	<5	<5	<5	<5	<5	<5	<5	5
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	5
1,1,1-Trichloroethane	**35**	<5	<5	**55**	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	1
Trichloroethene	<5	<5	<5	**6**	<5	<5	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	<5	<5	<5	5
1,2,3-Trichlorpropane	<5	<5	<5	<5	<5	<5	<5	0.04
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5	5
1,2-4-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5	5
Vinyl Chloride	<5	<5	<5	<5	<5	<5	<5	2
p & m xylenes	<10	<10	<10	<10	<10	<10	<10	10
o-xylenes	<5	<5	<5	<5	<5	<5	<5	5
Xylenes (Total)	<15	<15	<15	<15	<15	<15	<15	15
TOTAL	106	BDL	BDL	174	BDL	BDL	BDL	N/A

*NYS Water Quality Regulations, 6 NYCRR 703.5, March 18, 1998, except where indicated.

**NYS Public Health Law, Section 225, Subpart 5-1

BDL - Below Method Detecion Limit

N/A - Not Available

Bolded numbers signify exceedence of regulatory standards.

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Table 9
SCDOHS Metals in Groundwater (mg/L)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	TW-1 30 11/06/01	TW-1 45 11/06/01	TW-1 60 11/06/01	TW-2 30 11/06/01	TW-2 45 11/06/01	TW-2 60 11/06/01	MW-06 20 to 30 11/28/01	NYSDEC STANDARD*
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.025
Beryllium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.003
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.005
Chromium	**1.79**	**0.58**	**0.46**	**0.73**	**0.69**	**0.44**	<0.05	0.05
Copper	**0.53**	**0.23**	**0.24**	0.12	**0.69**	**12.8**	<0.05	0.2
Lead	**0.64**	**0.11**	**0.07**	**0.036**	**0.06**	**0.038**	0.018	0.025
Mercury	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.0007
Nickel	**0.29**	**0.12**	**0.15**	**0.11**	**0.27**	**2.01**	<0.05	0.1
Silver	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05

*NYS Water Quality Regulations, 6 NYCRR 703.5, March 18, 1998.

Bolded numbers signify exceedence of regulatory standards.

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TABLE 10
Volatile Organic Compounds (VOCs) in Sludge (ug/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID	SD-12*
Depth (feet bgs)	0 to 2
Date	10/14/01
Benzene	<5,000
Bromobenzene	<5,000
Bromochloromethane	<5,000
Bromodichloromethane	<5,000
Bromoform	<5,000
Bromomethane	<5,000
n-Butylbenzene	<5,000
sec-Butylbenzene	<5,000
tert-Butylbenzene	<5,000
Carbon Tetrachloride	<5,000
Chlorobenzene	<5,000
Clorodibromomethane	<5,000
Chloroethane	<5,000
Chloroform	157,572
Chloromethane	<5,000
2-Chlorotoluene	<5,000
4-Chlorotoluene	<5,000
1,2-dibromo-3-chloropropane	<5,000
1,2-Dibromoethane	<5,000
Dibromomethane	<5,000
1,2-Dichlorobenzene	<5,000
1,3-dichlorobenzene	<5,000
1,4-dichlorobenzene	<5,000
Dichlororodifluoromethane	<5,000
1,1-Dichloroethane	316,989
1,2-Dichloroethane	<5,000
1,1-Dichloroethene	228,108
cis-1,2-Dichloroethene	5,356
trans-1,2-Dichloroethene	<5,000
1,2-Dichloropropane	<5,000
1,3-Dichloropropane	<5,000
2,2-Dichloropropane	<5,000

* Sample collected from concrete holding tank

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TABLE 10 (Continued)
Volatile Organic Compounds (VOCs) in
Sludge (ug/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID Depth (feet bgs) Date	SD-12* 0 to 2 10/14/01
1,1-Dichloropropene	<5,000
Ethylbenzene	<5,000
Hexachlorobutadiene	<5,000
Isopropylbenzene	<5,000
p-Isopropyltoluene	<5,000
Methylene Chloride	22,911
Naphthalene	<5,000
n-Propylbenzene	<5,000
Styrene	<5,000
1,1,1,2-Tetrachloroethane	<5,000
1,1,2,2-Tetrachloroethane	<5,000
Tetrachloroethene	<5,000
Toluene	22,148
1,2,3-Trichlorobenzene	<5,000
1,2,4-Trichlorobenzene	<5,000
1,1,1-Trichloroethane	65,000,000
1,1,2-Trichloroethane	<5,000
Trichloroethene	3,900,000
Trichlorofluoromethane	<5,000
1,2,3-Trichlorpropane	<5,000
1,3,5-Trimethylbenzene	<5,000
1,2-4-Trimethylbenzene	5,406
Vinyl Chloride	<5,000
Acetone	<50,000
Carbon Disulfide	<5,000
2-Butanone	<10,000
Vinyl Acetate	<5,000
2-Hexanone	<5,000
Xylenes (Total)	<15,000
TOTAL	69,695,668

* Sample collected from concrete holding tank

Table 11
Heavy Metals in Sludge (mg/kg)
441 Eastern Parkway
Farmingdale, New York

Sample ID	SB-12*
Depth (feet bgs)	0 to 2
Date	10/14/01
Arsenic	12.2
Barium	1,226
Cadmium	7.85
Chromium	1233
Copper	299
Iron	27,603
Lead	224
Manganese	1894
Nickel	1328
Mercury	0.12
Selenium	1.65
Silver	31.2
Zinc	496

* Sample collected from concrete holding tank

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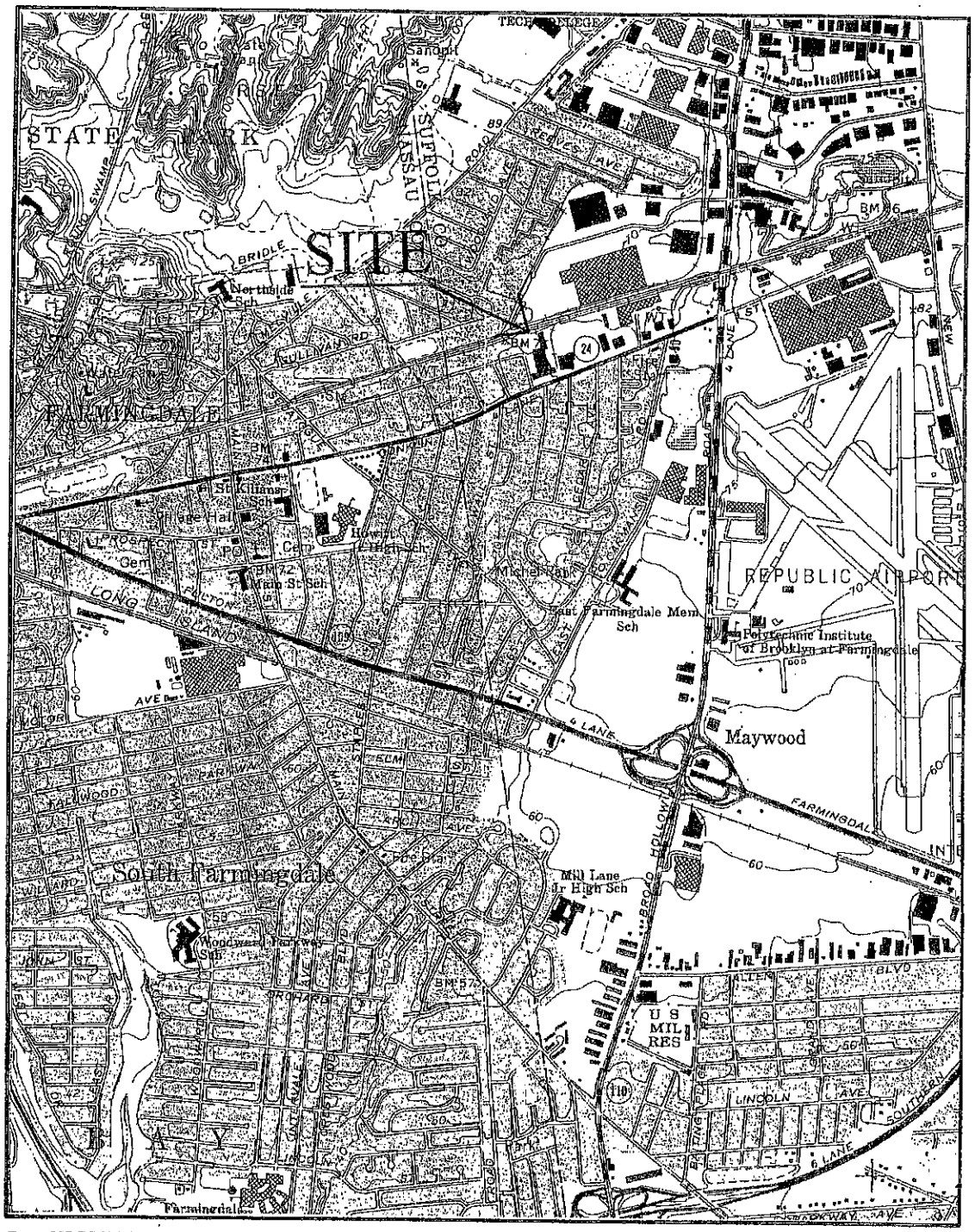
FIGURES



From USGS 7.5 Minute Topographic Map Of

Amityville, New York Quadrangle

N

Figure 1	
Locational Diagram	
Job No. 2540-FDNY	Date: 12/10/01
Dwg. No. 2540-01	Scale: 1"=2,000'
Drawn By: E. Zalewski	Appr. By: P. Stewart
Advanced Cleanup Technologies	

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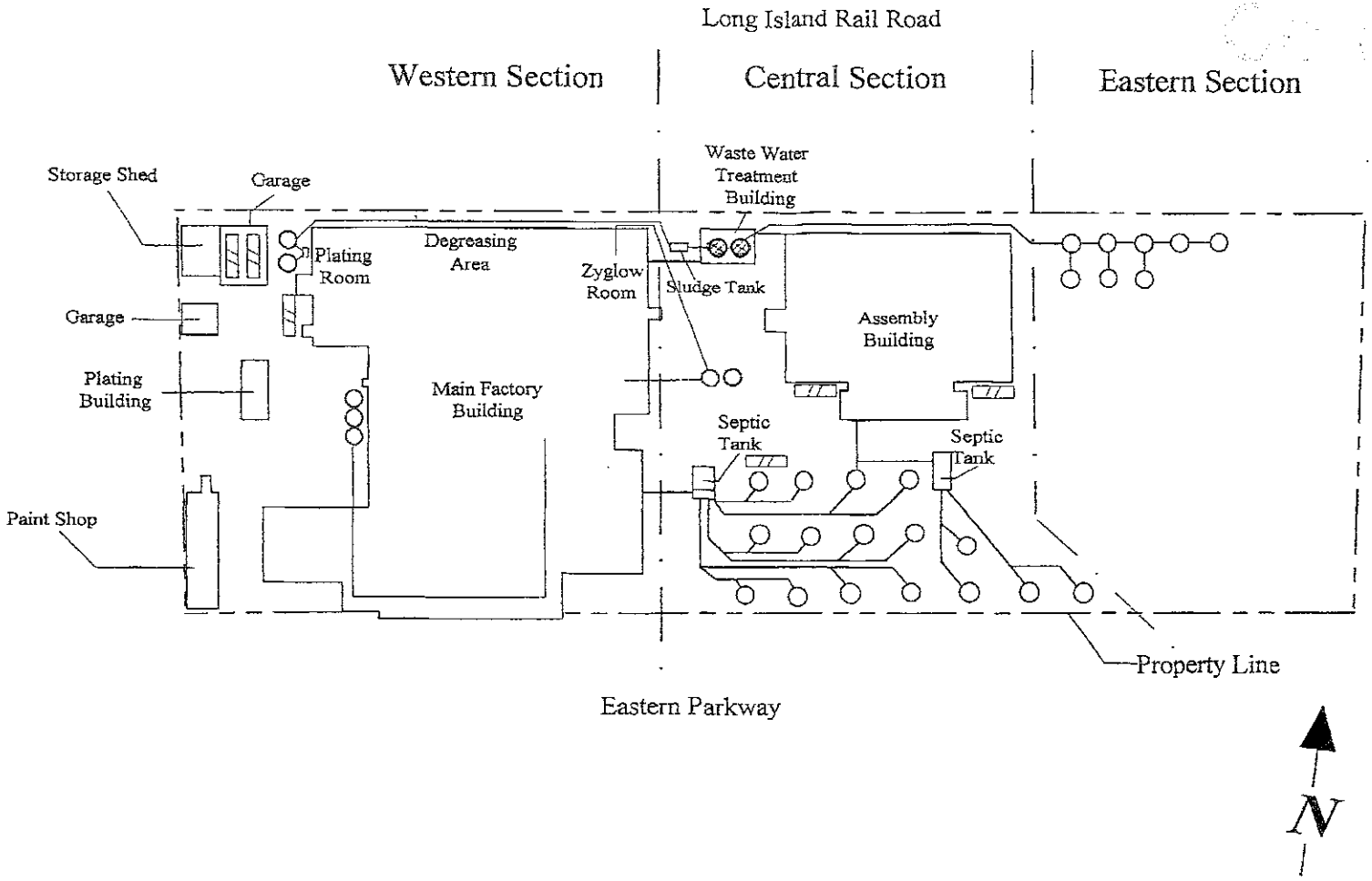


Legend

- Aboveground Storage Tank
- Underground Storage Tank
- Leachpool from 1948 Survey
- Leachpool from 1958 Survey

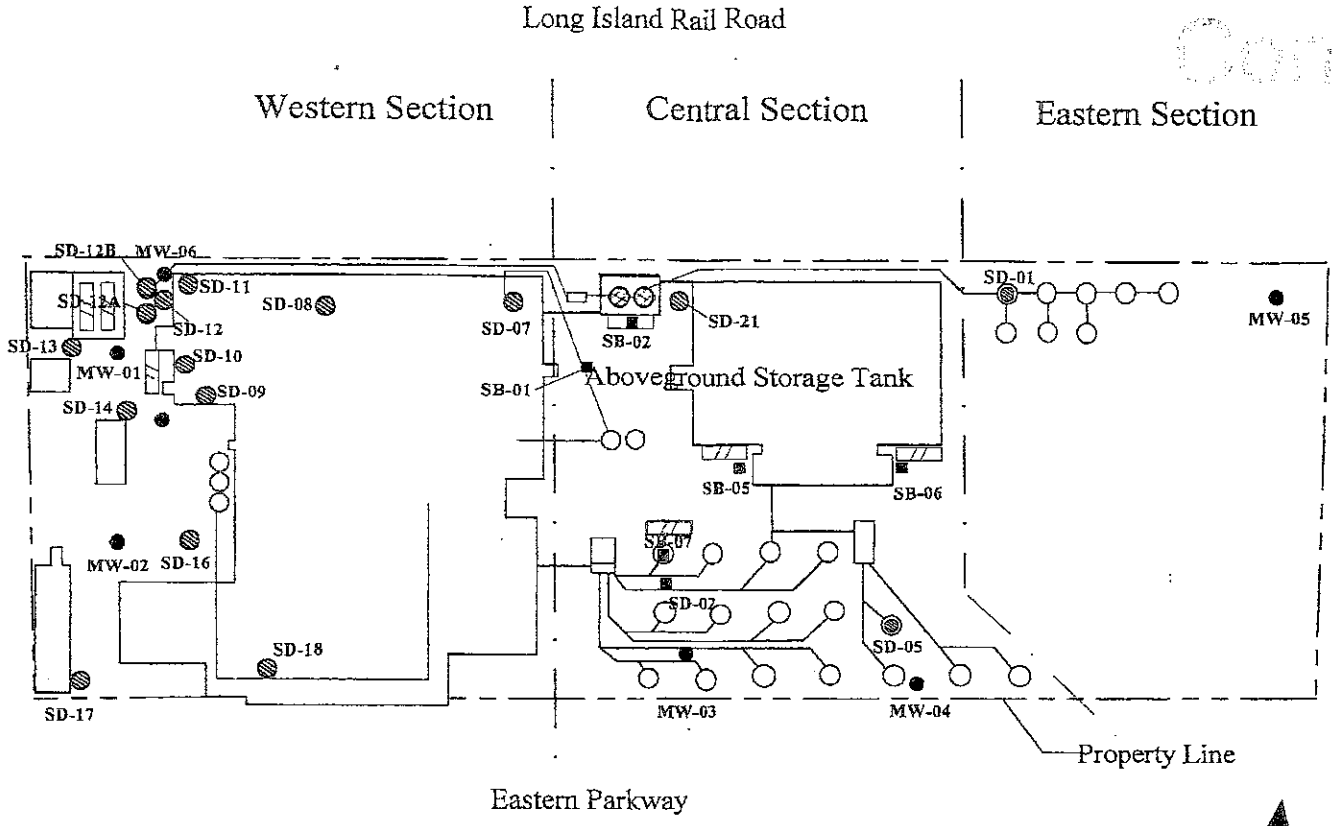
Base map obtained from 1948 and 1958 Plot Plans and undated Facility Plan.

Figure 2

Site Features

Job No. 2540-FDNY	Date: 12/10/01
Drawing No. 2540-02	Scale: 1 in. = 50 ft. (appr.)
Drawn By: Erik Zalewski	Approved By: Paul Stewart

Advanced Cleanup Technologies, Inc.



Legend

- SD-01 — Sediment Sample
- SB-01 — Soil Boring
- MW-01 — Monitoring Well
- Sediment Sample (endpoint collected following 1992 cleanout)
- Leachpool from 1948 Survey
- Leachpool from 1958 Survey

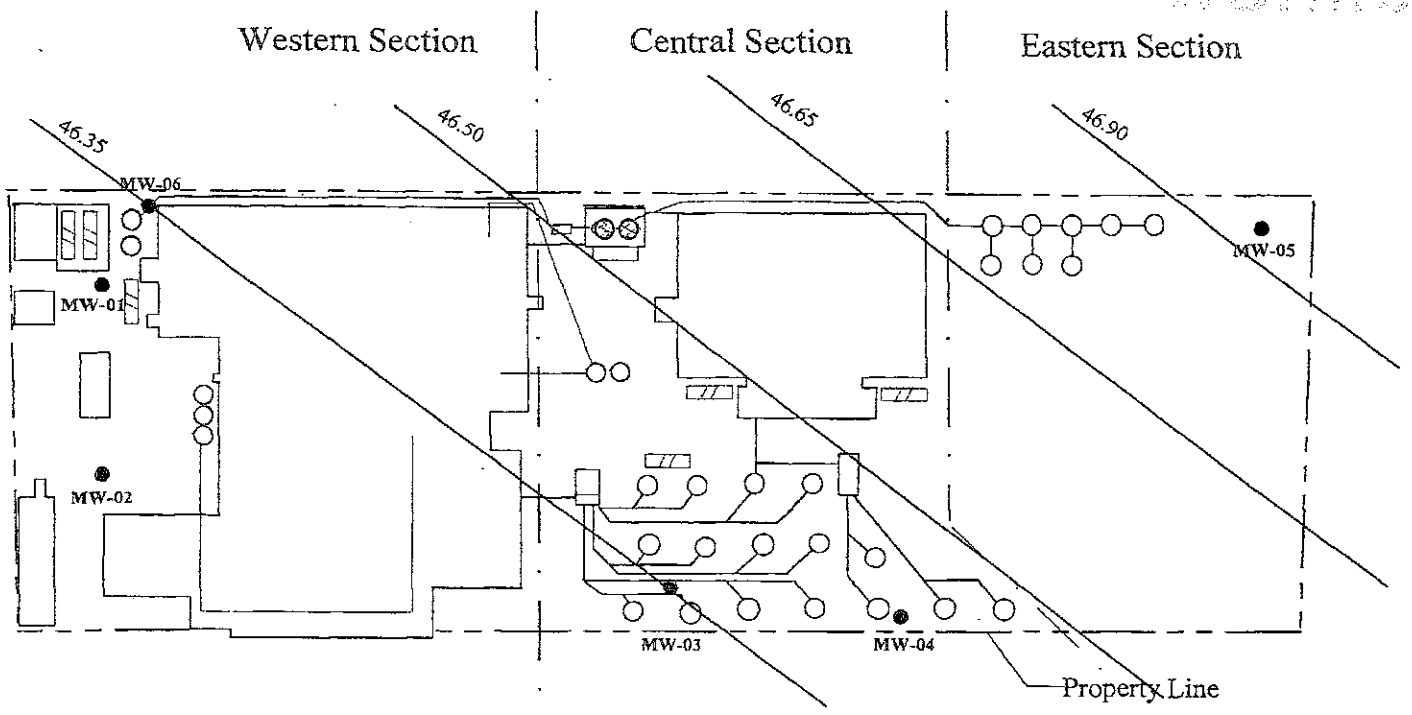
Base map obtained from 1948 and 1958 Plot Plans and undated Facility Plan.

Figure 3

Sampling Diagram

Job No. 2540-FDNY	Date: 12/10/01
Drawing No. 2540-02	Scale: 1 in. = 50 ft. (appr.)
Drawn By: Erik Zalewski	Approved By: Paul Stewart

Advanced Cleanup Technologies, Inc.



Legend

46.35 Equipotential Line (ft., rel.)

MW-01 ● Monitoring Well

○ Leachpool from 1948 Survey

○ Leachpool from 1958 Survey

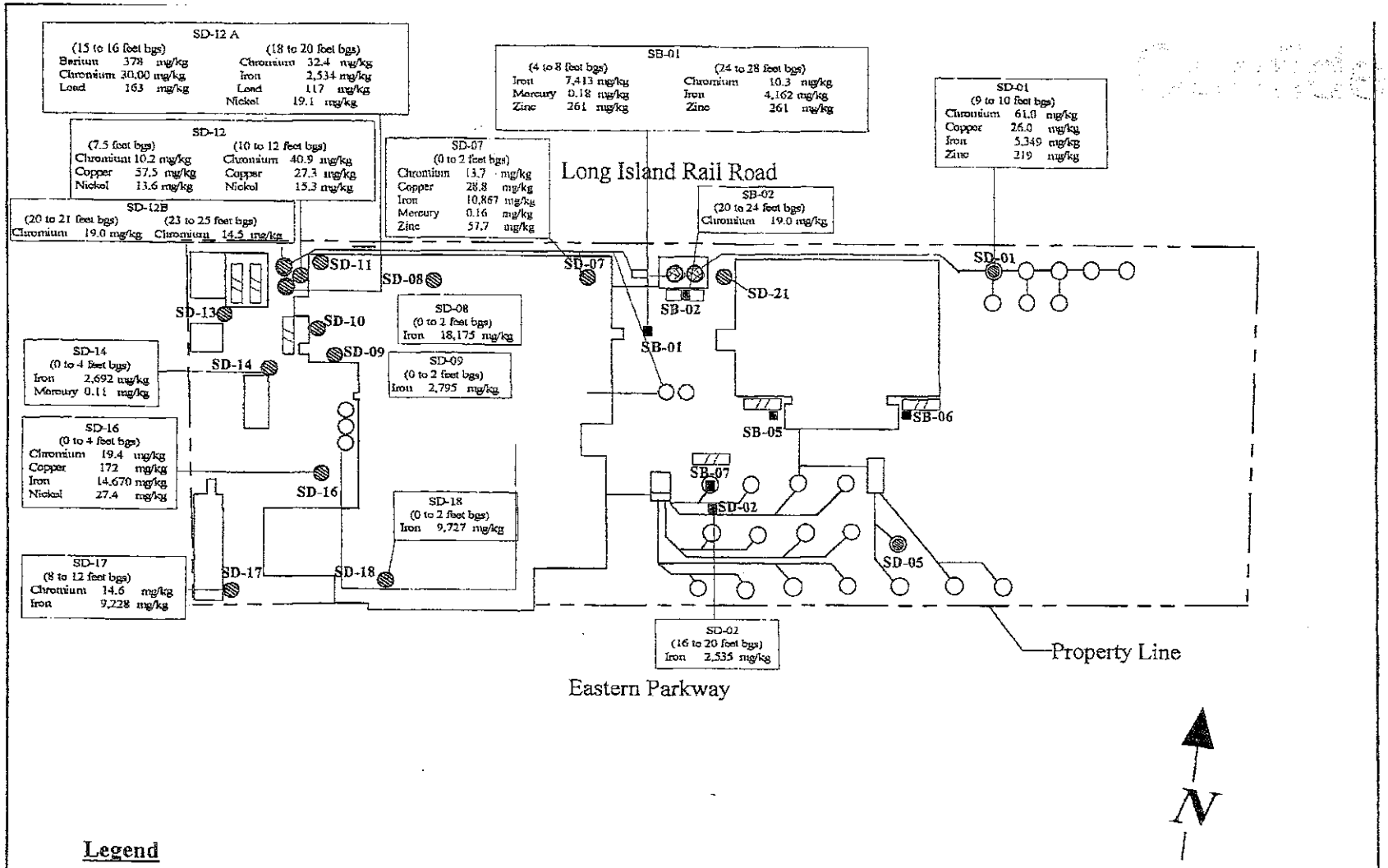
Base map obtained from 1948 and 1958 Plot Plans and undated Facility Plan.

Figure 4

Water Table Diagram

Job No. 2540-FDNY	Date: 12/10/01
Drawing No. 2540-02	Scale: 1 in. = 50 ft. (appr.)
Drawn By: Erik Zalewski	Approved By: Paul Stewart

Advanced Cleanup Technologies, Inc.



Legend

SD-01 Sediment Sample

SB-01 Soil Boring

Leachpool from 1948 Survey

Leachpool from 1958 Survey

* Only concentrations exceeding SCDOHS Article 12—SOP No. 9-95 Cleanup Objectives are reported.

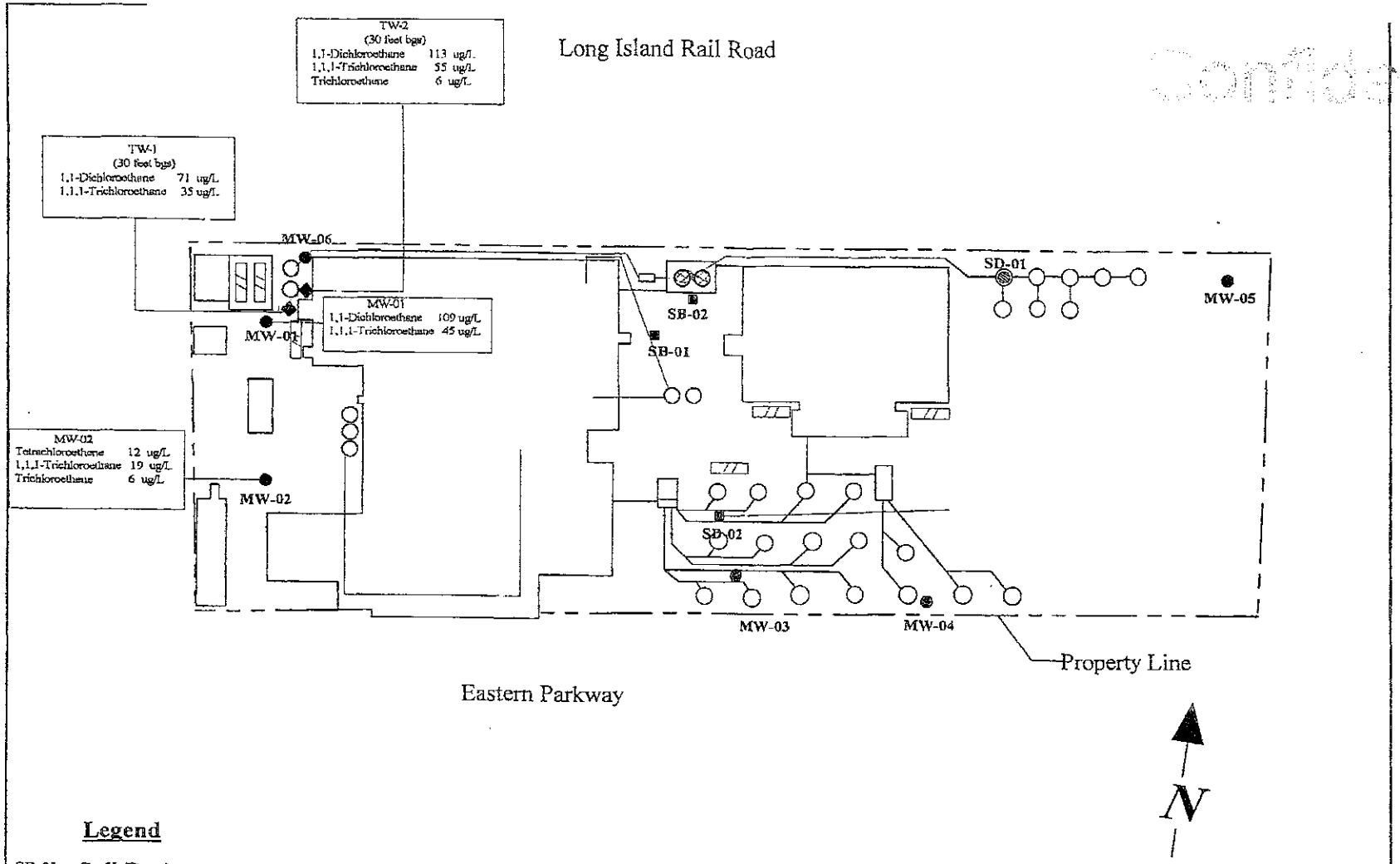
Base map obtained from 1948 and 1958 Plot Plans and undated facility plan.

Figure 5

Heavy Metals in Soil*

Job No. 2540-FDNY	Date: 12/10/01
Drawing No. 2540-03	Scale: 1 in. = 50 ft. (appr.)
Drawn By: Erik Zalewski	Approved By: Paul Stewart

Advanced Cleanup Technologies, Inc.



Legend

SB-01 ■ Soil Boring

MW-01 ● Monitoring Well

◆ Temporary Well

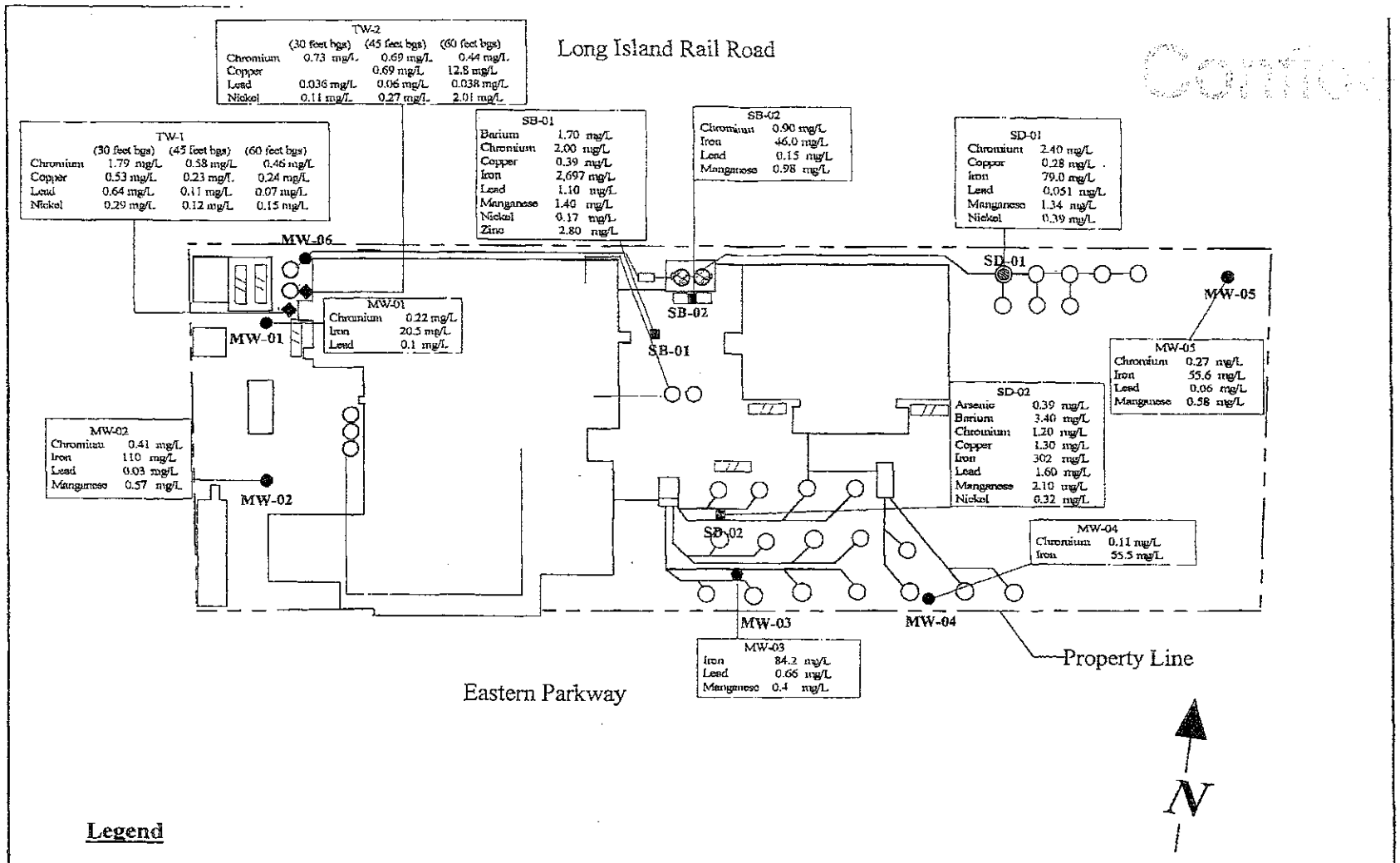
○ Leachpool from 1948 Survey

○ Leachpool from 1958 Survey

* Only concentrations exceeding NYS Water Quality Regulations, and NYS Public Health Law are reported.

Base map obtained from 1948 and 1958 Plot Plans and undated facility plan.

Figure 6	
VOCs in Groundwater *	
Job No. 2540-FDNY	Date: 12/26/01
Drawing No. 2540-04	Scale: 1 in. = 50 ft. (appr.)
Drawn By: Erik Zalewski	Approved By: Paul Stewart
Advanced Cleanup Technologies, Inc.	



Legend

SB-01 Soil Boring

MW-01 Monitoring Well

Temporary Well

Leachpool from 1948 Survey

Leachpool from 1958 Survey

* Only concentrations exceeding NYS Water Quality Regulations, and NYS Public Health Law are reported.

Base map obtained from 1948 and 1958 Plot Plans and undated facility plan.

Figure 7

Heavy Metals in Groundwater *

Job No. 2540-FDNY	Date: 12/10/01
Drawing No. 2540-04	Scale: 1 in. = 50 ft. (appr.)
Drawn By: Erik Zalewski	Approved By: Paul Stewart

Advanced Cleanup Technologies, Inc.

Confidential

Advanced Cleanup Technologies, Inc.
ENVIRONMENTAL CONSULTANTS

APPENDIX A

FIELD NOTES

441 Eastern Parkway 9-28-01

Farmingdale NY #2540-FONY

no odor

SD-01A 0-4' ~30% recovery

0-4" black humis and roots

4"-1' coarse orange sandy "fill"

pebbles (sampled)

4-8' ~10% recovery — no odor

coarse pebbles, sand

8-12' ~85% recovery

same moist

12-16' ~60% recovery

same - moist

black discolored at 9-10' (sampled)

16'-20' ~50% recovery

16-18' orange coarse sand w/ pebbles

18-20' white coarse to fine sand

(Silver?) with fg. + sm. pebbles

appears to be native sand

20'-24' ~80% recovery

fine - coarse white sand w/pebbles

(gets lighter in color toward 24'

weathered - Poorly sorted sand

GW = 24'4"

File #542 GPR of grass for septic system

10/1/01

441 Eastern Pkwy, Farmingdale

SB-03 0-4ft 35% rec
Asphalt 0-7"
Black silty sand w/ pebble

Sand

4-8ft 50% rec
6" Black silty sand
(Sampled) 4" Grey clay
18" Orange sand w/ pebbles

27,08

8-12 100%
0-6" Grey clay
6-12" Black sand + pebbles
40ml Sampled 1-2 ft Orange sand w/ pebble
2-4 ft Orange sand

16GC

12-16 100%
(Sampled 40ml) 0-2ft Orange sand w/ black pebbles
2-4ft yellow sand

16-20 100%
0-2 Sand w/ grey + Black layers, pebble
2-4 Sand w/ pebbles

20-24 100%
Sampled 0-3½ ft Gray/Black sand + pebbles
3-4 ft Yellow sand w/ pebbles

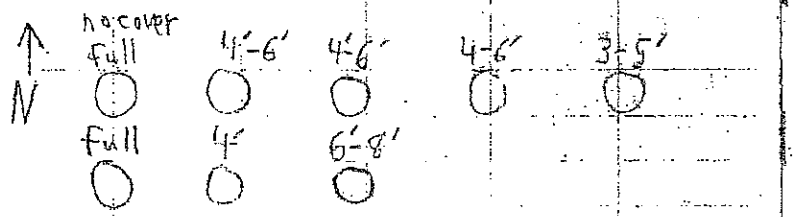
24-28 100%
(Sampled) 0-2 ft Yellow sand w/ Black streaks + pebbles
2-4 ft yellow sand w/ pebbles

Temporary well installed
water @ 24'10"

SB-04
20-24 ft 80% rec.
0-4" Brown sand
(Sampled) 4"-4' Yellow sand w/ pebbles
water @ 25'0"

SD-21
12 ft deep x 8 ft wide
Sampled 0-4 ft Yellow sand & 80% rec
0-6" black organic matter
Overlay 6"-3½ ft Yellow sand

#2540



SD-02 no odor 90% recovery
12'-16' white-light orange coarse to fine sand with pebbles slightly moist
16'-20' same as above sampled
GW at ≈ 25'

10-2-01

SD-07 60% recovery no odor
0-6" orange sandy soil fine to coarse with pebbles
6"-2' silty/clay soils w/ pebbles
2'-4' clay rich orange sandy soil w/pebbles
4'-10' coarse to fine sand white with pebbles

SD-08 60% recovery no odor
0-8" clay with pebbles gray
8"-2' orange sandy soil med to coarse with pebbles
2'-4' brown soils some clay content fine to medium sand
4'-8' clay rich pebbles fine-to med
8'-9' orange sand w/ pebbles
9'-9½' clay layer very dry clay
9½-10' orange sand w/ pebbles

SD-09 60% recovery
0-5½' orange sand med to coarse with pebbles moist
5½'-6½' brown to gray clay odor moist
odor of petro just below clay
6½'-10' orange to white fine to med sand with pebbles

SD-18 70% recovery no odor
0-6" orange coarse to med sand with pebbles
6"-6' clay rich brown sandy soil
6-6½' clay layer, gray
6½-10' orange coarse to medium sand with pebbles

441 Eastern Parkway, Farmingdale 10-9-01
Tom R., Steve W.
Install monitoring wells 1" diameter pvc .020 slot

MW-05 Depth to water ≈ 25' 6" (top of pvc)
Total depth of well = 30 ft
10 ft screen, 20 ft riser

MW-04 DTW ≈ 23' 7" top of pvc
total depth 30 ft (10 ft screen 20 riser)

MW-03 DTW ≈ 24' 5" top of pvc
total depth 30 ft (10 ft screen, 20 ft riser

Drilling very very slow, ≈ 20 min / 4 ft rod

10-10-01
Steve Keith

MW-02 DTW ≈ 26' 8" top of pvc
total depth = 30 ft (10' screen, 20' riser)

SD-17 80% recovery No odors
0-4' brown sandy soil with rock frags
* 4-8' sampled 3'-4'
60% recovery
orange sandy soil with pebbles some clay content
* sampled at 6'-8'

* = sampled

8-12' 90% recovery no odor
* 8-9' orange pebble sand dark soil above clay
gray clay layer 1"
9-9½' orange pebble sand
9½'-12' med to fine white sand with few pebbles
12-16' 100% recovery
moist fine to coarse white beach sand with pebbles
* sampled 14'-16'
16'-20' 100% recovery no odor
16-17½' fine to coarse white beach sand
moist with pebbles
17½-20' orange-brown sand with pebbles
* sampled 17½-19'
20'-24' light orange to white with medium pebbles
* sampled at 20'-24'
GW = 26 ft

SD-14 60% recovery
0-4' odor
* 0-2' orange sand with pebbles
2-4' dark to brown soils with pebbles
moist slight clay content

SO-14

4-8' 80% recovery
white to tan, orange sand
with pebbles
* sampled 6'-8'

8-12' brown - high clay content soils (8-9')

9-12' white to orange sand fine to medium
with pebbles, moist

* Sample 9-11'

12-16' 100% recovery

12-13' tan sand fine to med with pebbles: moist

* 13'-14½' brown fine grain soil w/some clay + pebbles

14½-16' tan fine to med sand with pebbles

16-20' Fine to medium tan sand
with pebbles

20-24' slightly moist no odor

* sampled at 18-20'

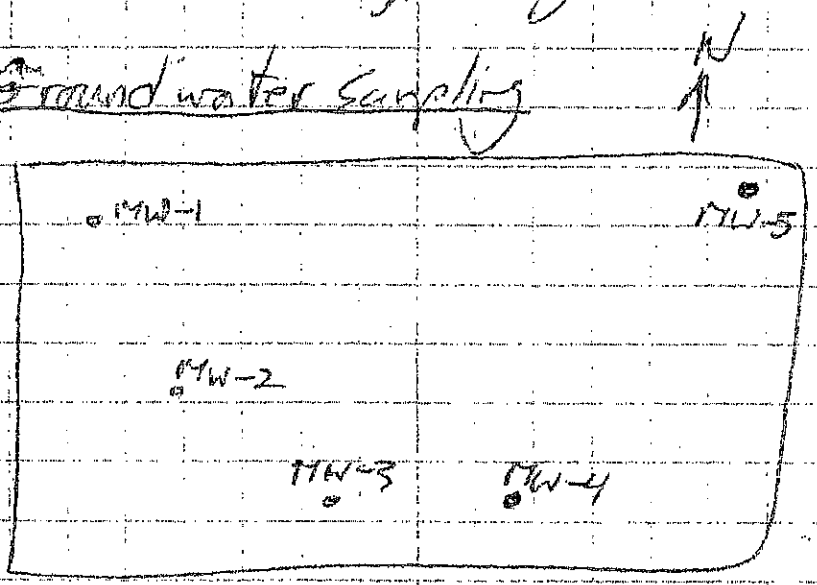
* sampled at 22-24'

GW ≈ 28 ft

10/11/04

441 Eastern Parkway, Fairfield

Groundwater Sampling



All ref. el. from N.E. corner of casing

MW-5 (1") Before Purging
DTW = 25.53 ft bgs (TOC)
Total depth = 29.88 ft bgs

MW-4 (1") Before Purging
DTW = 23.48 ft bgs (TOC)
Total depth = 26.14 ft bgs

MW-3 (1")
DTW = 24.57 ft bgs (TOC)
Total depth = 29.88 ft bgs

MW-2 (1" well)
DTW = 26.60 ft bgs (TOC)
Total depth = 28.82 ft bgs

MW-1 (4" well)
DTW = 27.02 ft bgs (TOC)
Total depth = 30.13 ft bgs

441 Eastern Parkway, Farmingdale 10-16-01

SD-13

0-6" black top soil

6"-4' brown soil fine grained few pebbles, high clay content

* sampled 6"-1'

4-8' coarse to medium tan-orange sand with very large pebbles

* sampled 5'-7'

8-12' coarse to medium sand, less pebbles * 8-12'

12-16' fine to coarse tan/orange sand with small to large pebbles * 12-16'

* 16'-18' fine to coarse sand tan-orange with pebbles (small)

* 18-20' fine to medium sand orange with small pebbles

* 20-22' fine to med sand with pebbles slightly moist

* 22-24' same as above, moist

GW at 27'6"
- slight sheen, no odor

* = sampled

SD-16: 0-4'

*0-2'	black soil no odor, moist pebbles medium grain
2'-4'	orange medium to coarse sand with large to small pebbles
4-8' *	orange coarse to medium sand with large to small pebbles
*8-12'	tan-orange coarse to med sand with pebbles
*12-14'	coarse to med. orange sand with pebbles
*14-16'	coarse to med sand orange with pebbles slightly moist
*16-18'	Same as above
*18-20'	same as above
*20-22'	same as above

GW at 26'9"

SD-05

*0-2'	coarse to medium orange sand with pebbles moist

→ 13 ft from ground surface to sediment

* = sampled

941 Eastern Parkway (10/14/01
Farmingdale

SB-05 (Former UST)

Sampled @ 12-14 Ft

fine to medium orange sand
No odor

SB-06 (Former UST)

Sampled @ 12-14 Ft

fine to med. orange sand
no odor

SB-07 (1st backpool)

Sampled through 5" black pipe
@ 14-16 Ft

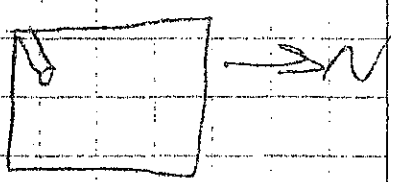
SD-12

4 Ft x 4 Ft x

DTW - 3.2 Ft

12 inches of water w/sheen

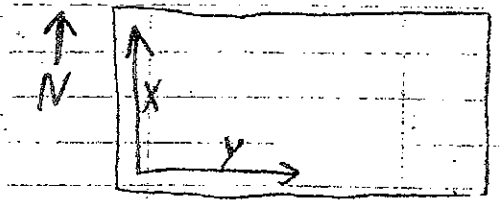
DT Bottom - 2.3 Ft



441 Eastern Parkway, Farmingdale 10-25-01

#2540

Well	DTW	X	Y	Z	Transit height	
MW-02	26.95	65'11"	39'7"	5.94	5.32	A
MW-01	27.36	172'2"	30'2"	5.40	5.32	A
Position 1		0	0	6.47		A
" 1		0	1-0	4.05		B
" 2		-5'8"	183'10"	4.78	↓	B
" 3		22'	229'11"	5.25		B
MW-03	24.88	34'11"	379'	5.56		B
position 4		106'	405'	6.26		B
" 2		—	—	3.54		C
" 3		—	—	4.01		C
" 4		—	—	5.08		C
mw-03		—	—	4.32		C
mw-04	23.82	8'2"	394'2"	5.37		C
mw-05	25.88	196'4"	678'	3.06		D
position 4				5.27		D
mw-04				5.56	↓	D



11-5-01 441 Eastern Parkway
#2540 Farmingdale, NY

TW-01 DTW ≈ 29'
(near SD-12A)
* sampled at 30' plastic, 3 x 40mL
" 45' " "
" 60' " "

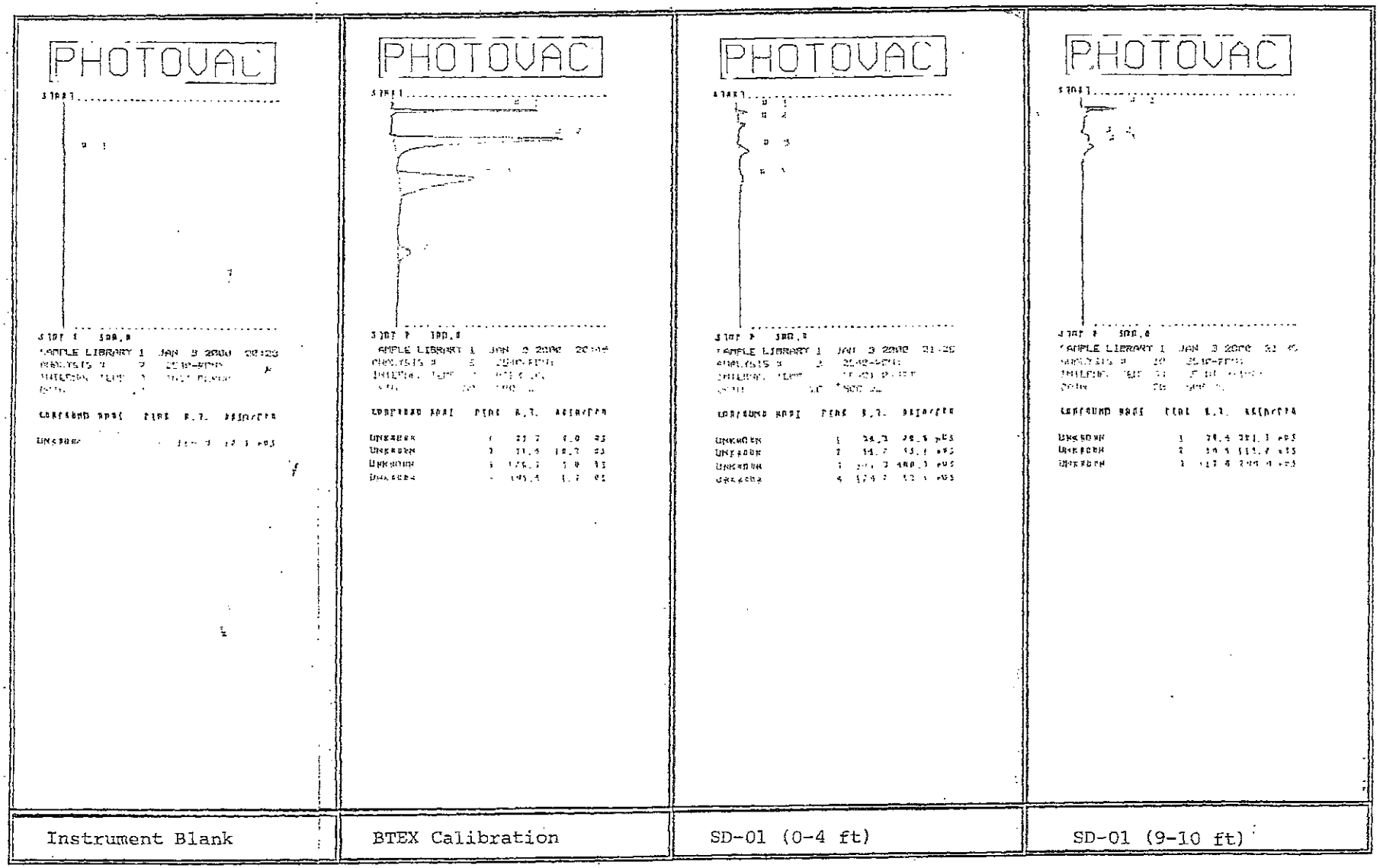
→ Sampled 20 cubic yard roll-off: 1 x 8oz, composite

SD-12B sweet odor
→ 6' to bottom of concrete/soil interface
→ 7'5" to sample depth 1x8oz, 1x40mL
fine sand + gravel, brown, dry

TW-02 DTW ≈ 28'6"
* sampled at 30',
1 plastic, 3x40mL

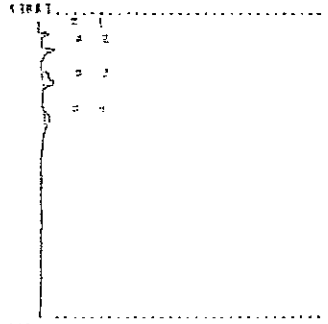
APPENDIX B

GAS CHROMATOGRAMS



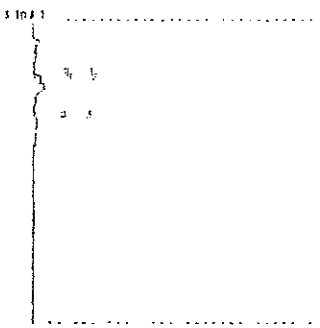
Instrument Blank	BTEX Calibration	SD-01 (0-4 ft)	SD-01 (9-10 ft)

PHOTOVAC



SD-01 (18-20 ft.)

PHOTOVAC



SD-01 (21-23 ft.)

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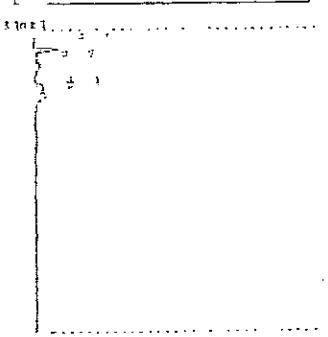
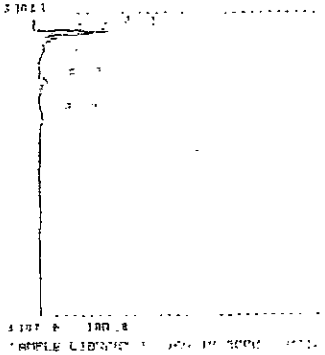


SD-01 Water

PHOTOVAC



SB-02 (16-20 ft.)

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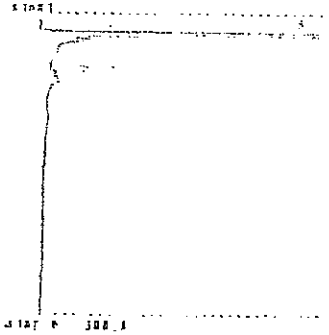

SD-02 Water

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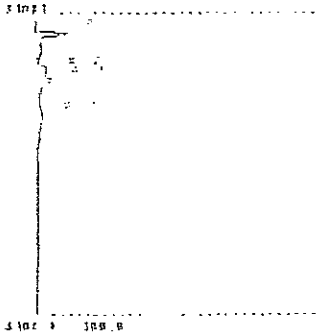

SB-01 (4-8 ft.)

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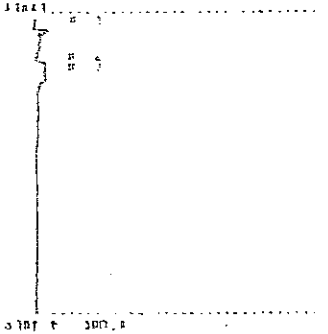

SB-01 (8-12 ft.)

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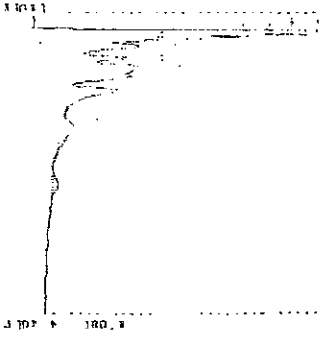
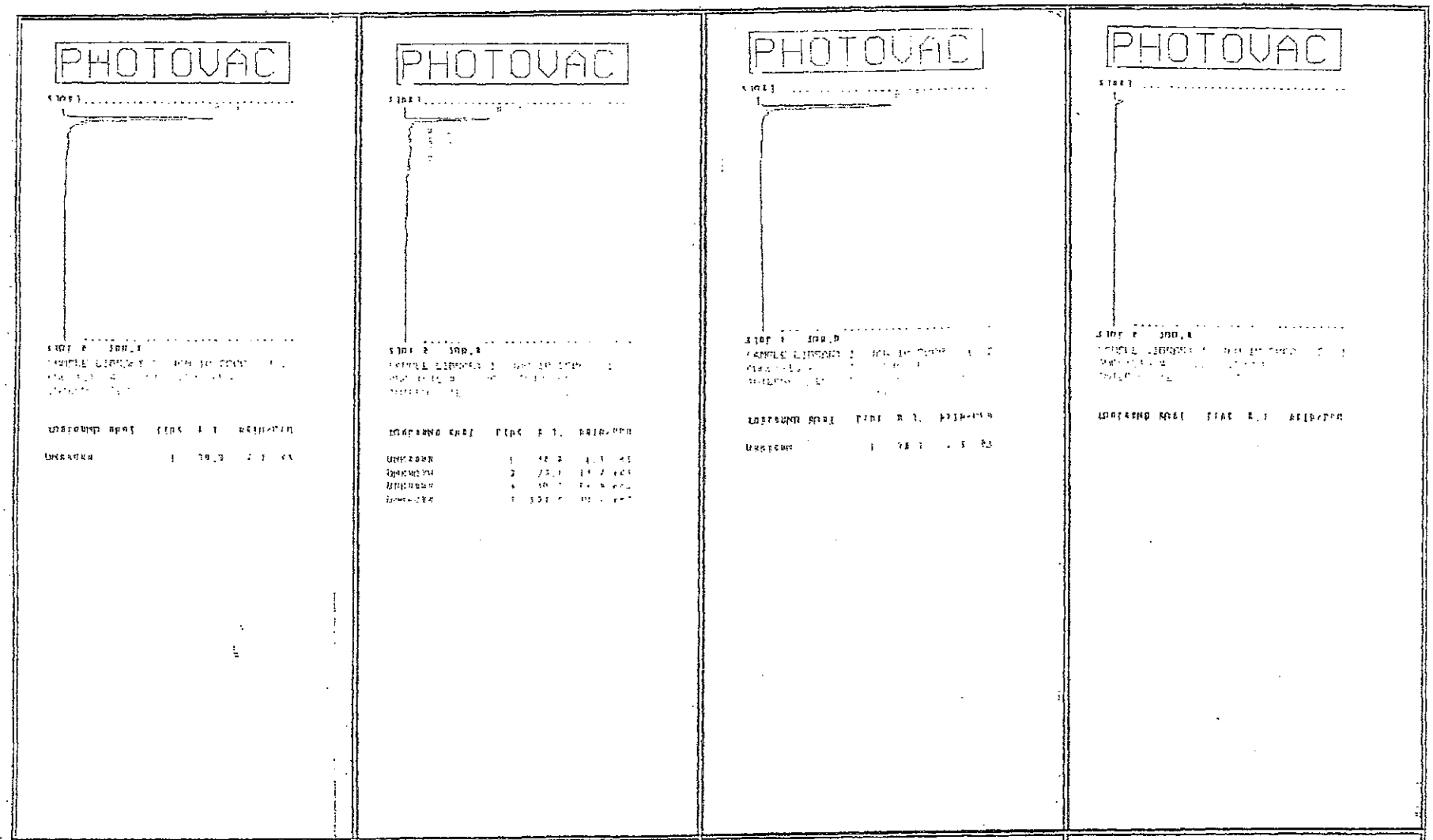
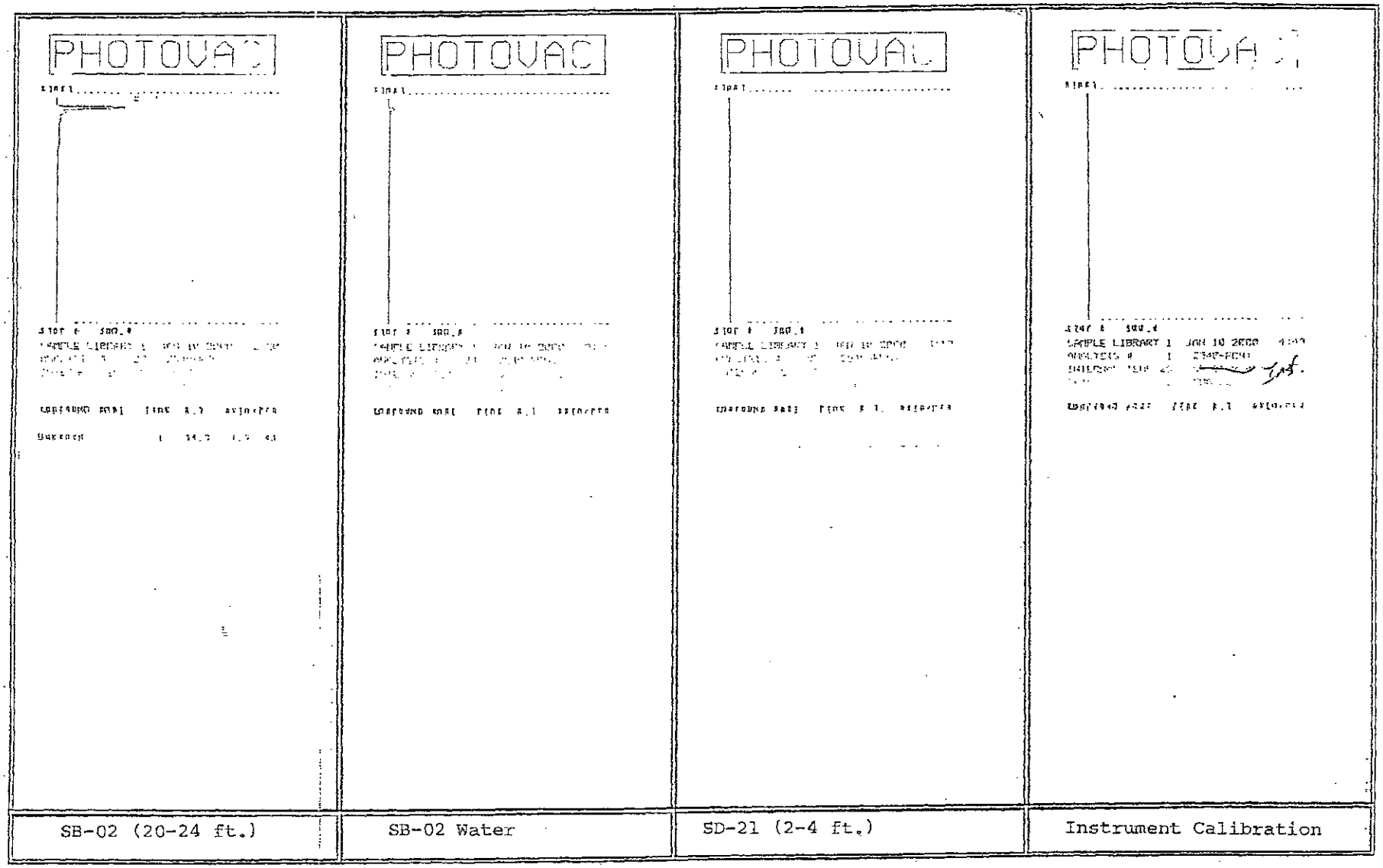


SB-01 (12-16 ft.)



SB-01 (20-24 ft.)	SB-01 (12-16 ft.)	SB-01 (24-28 ft.)	SB-01 Water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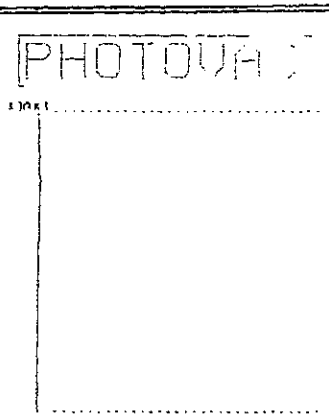
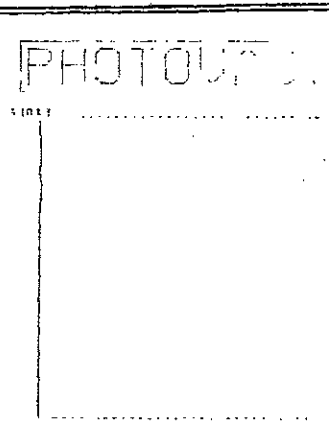
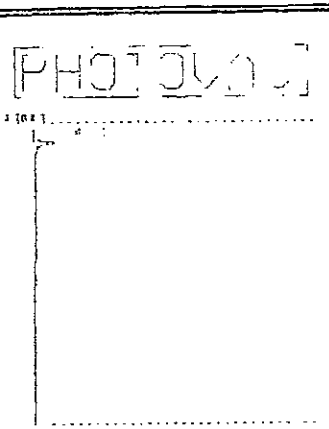
SB-02 (20-24 ft.)
SB-02 Water
SD-21 (2-4 ft.)
Instrument Calibration



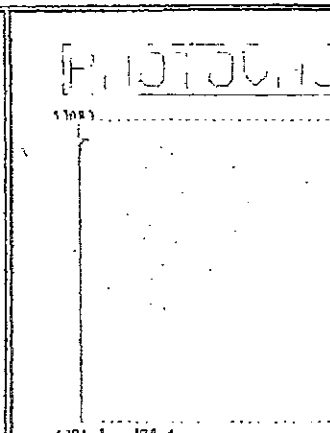
SD-07 (0-2 ft.)



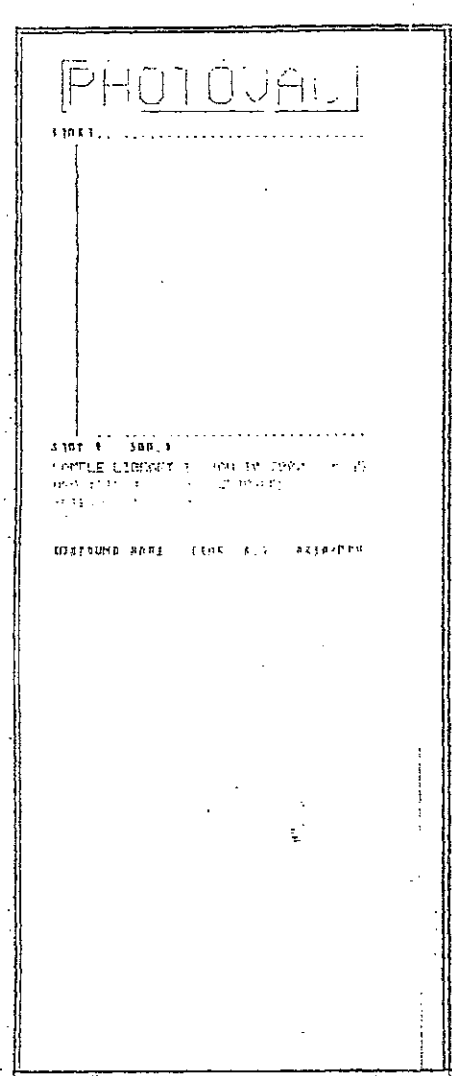
SD-07 (2-4 ft.)



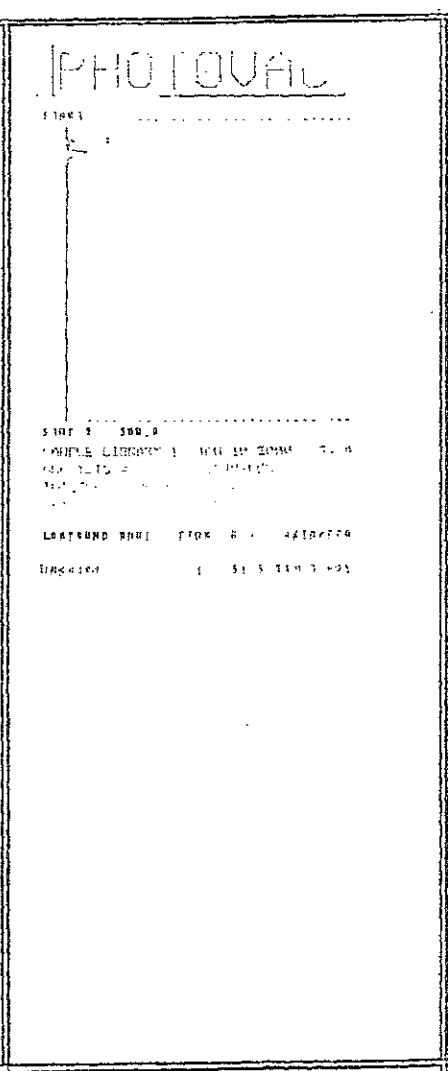
SD-07 (4-6 ft.)



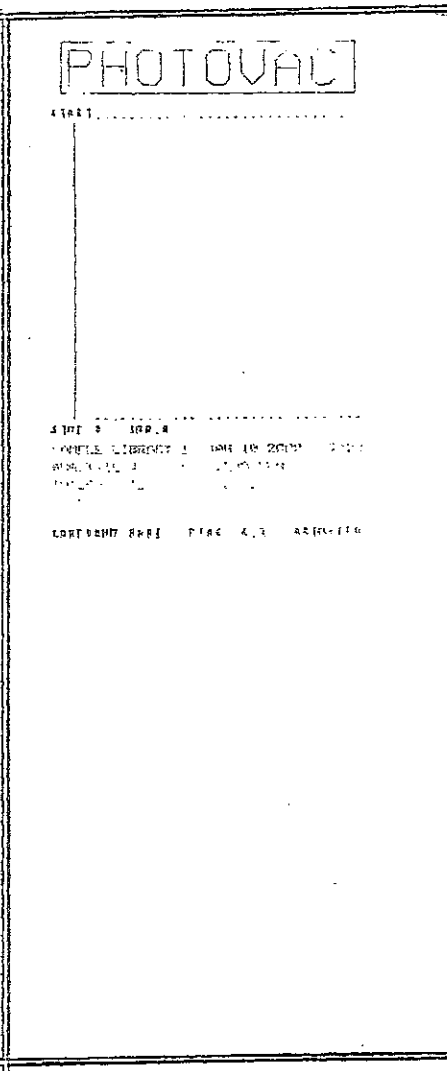
SD-07 (6-8 ft.)



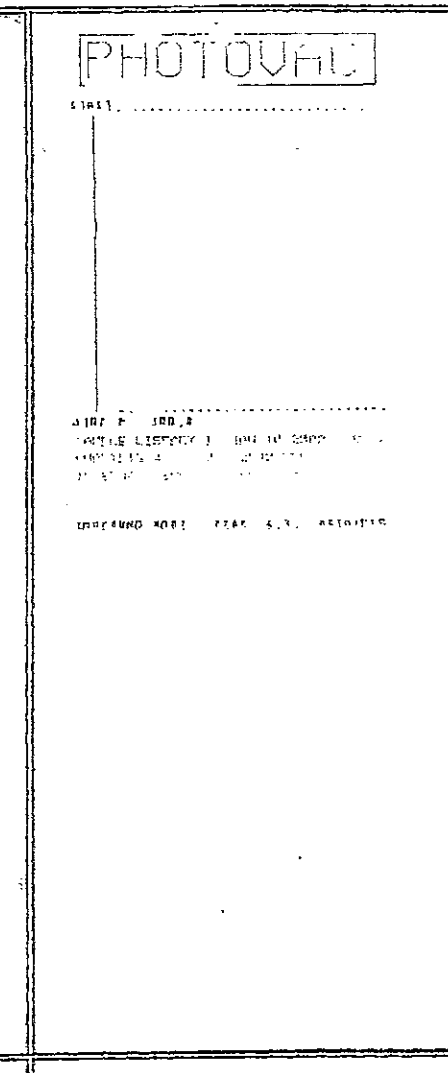
SD-07 (8-10 ft.)



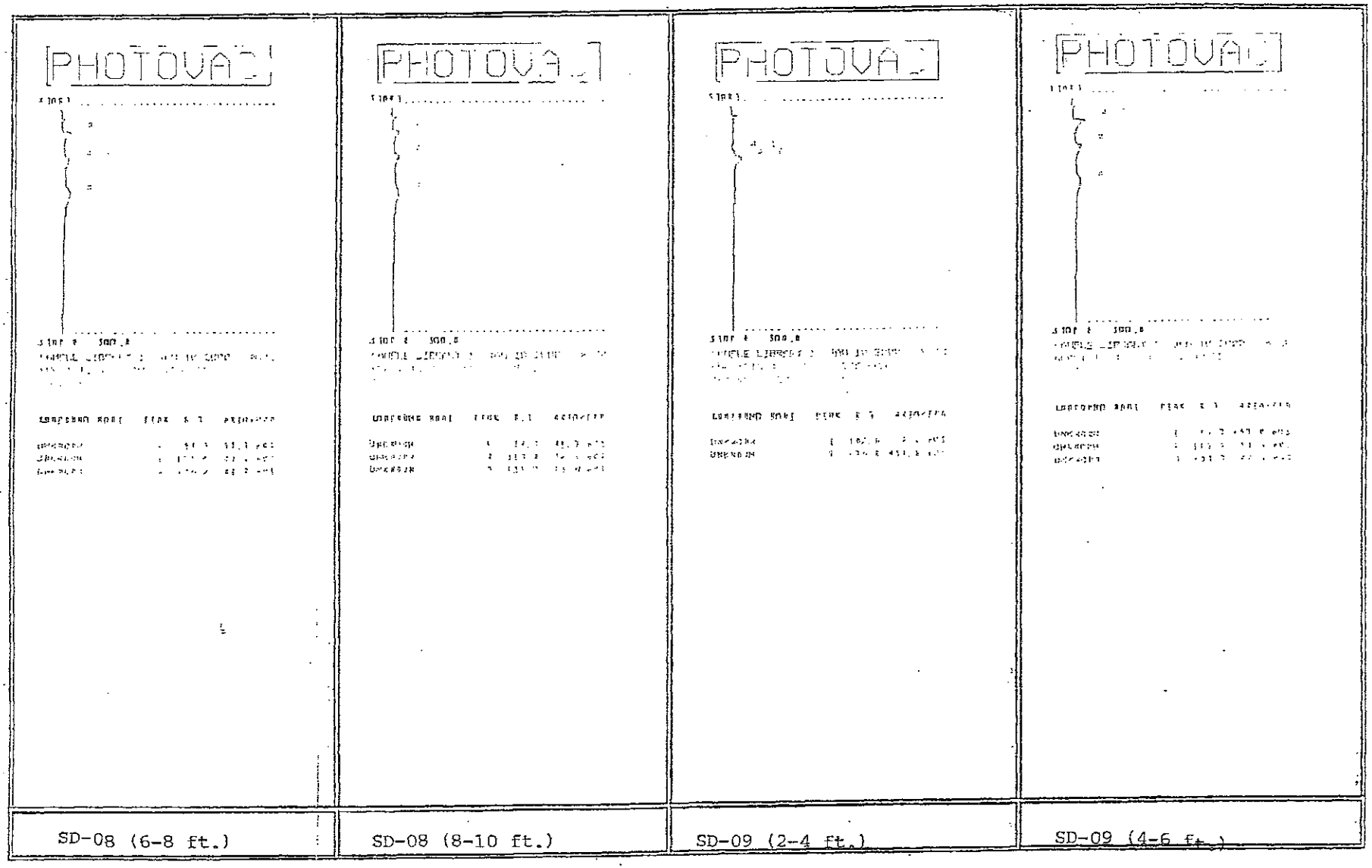
SD-08 (0-2 ft.)



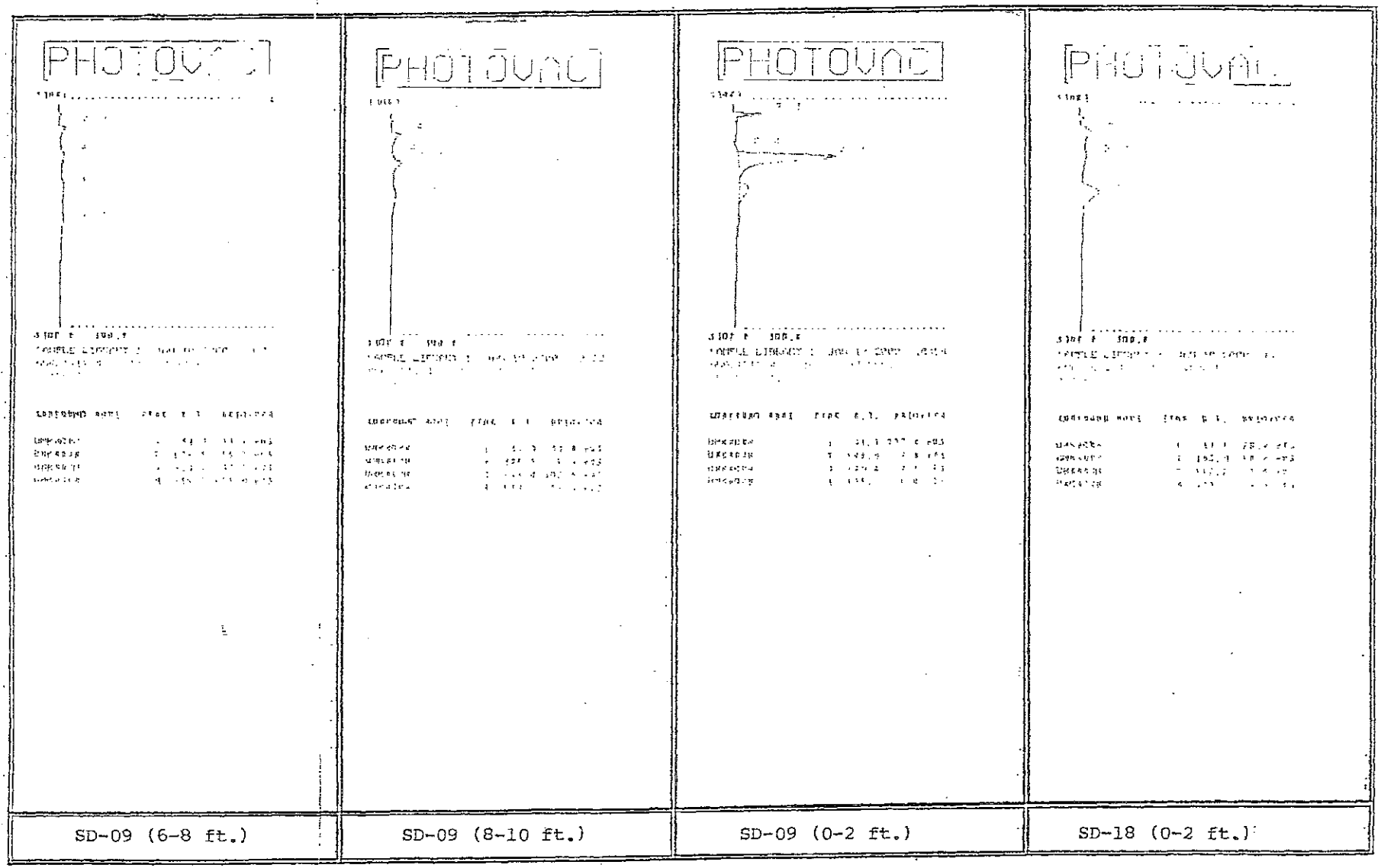
SD-08 (2-4 ft.)



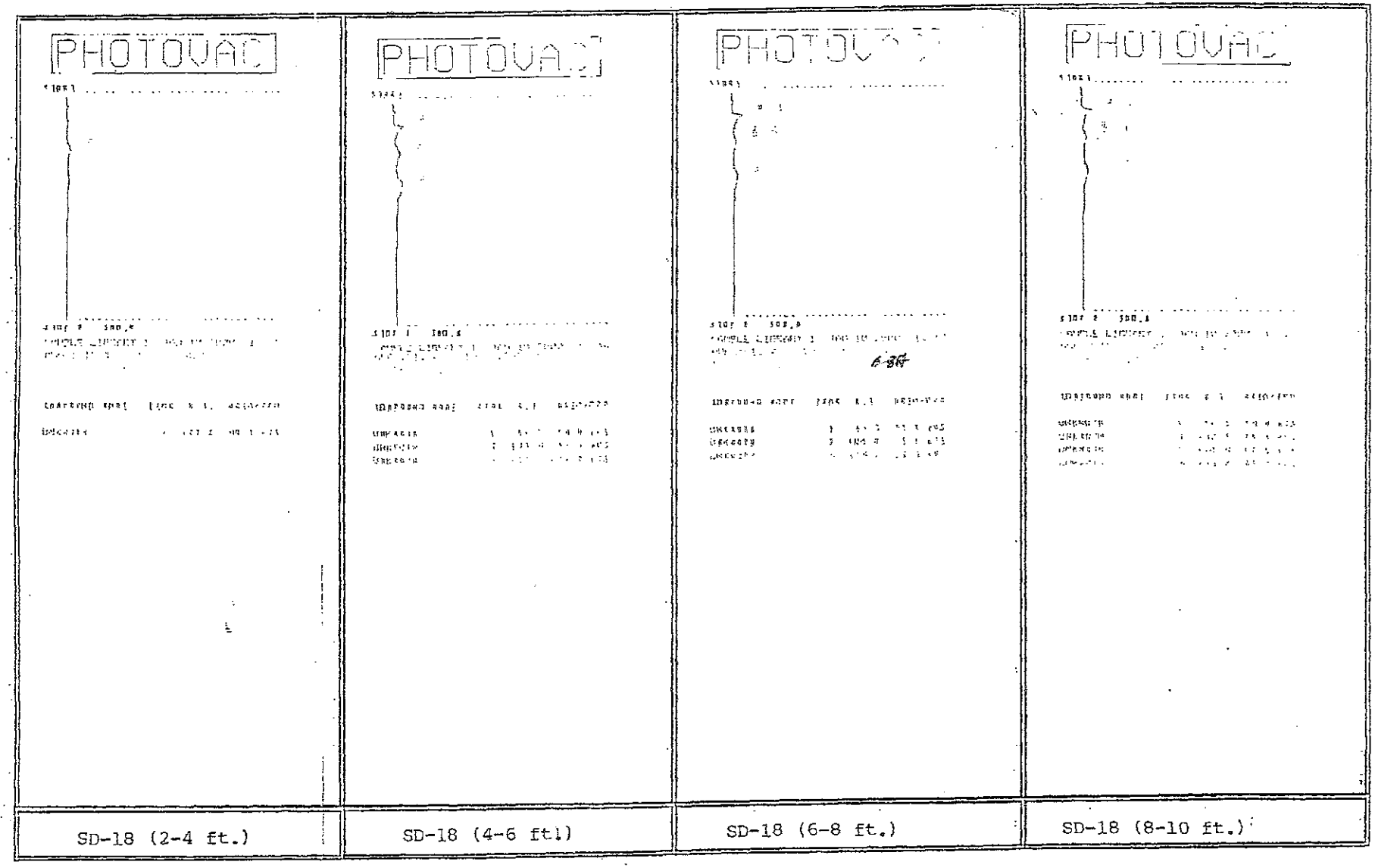
SD-08 (4-6 ft.)



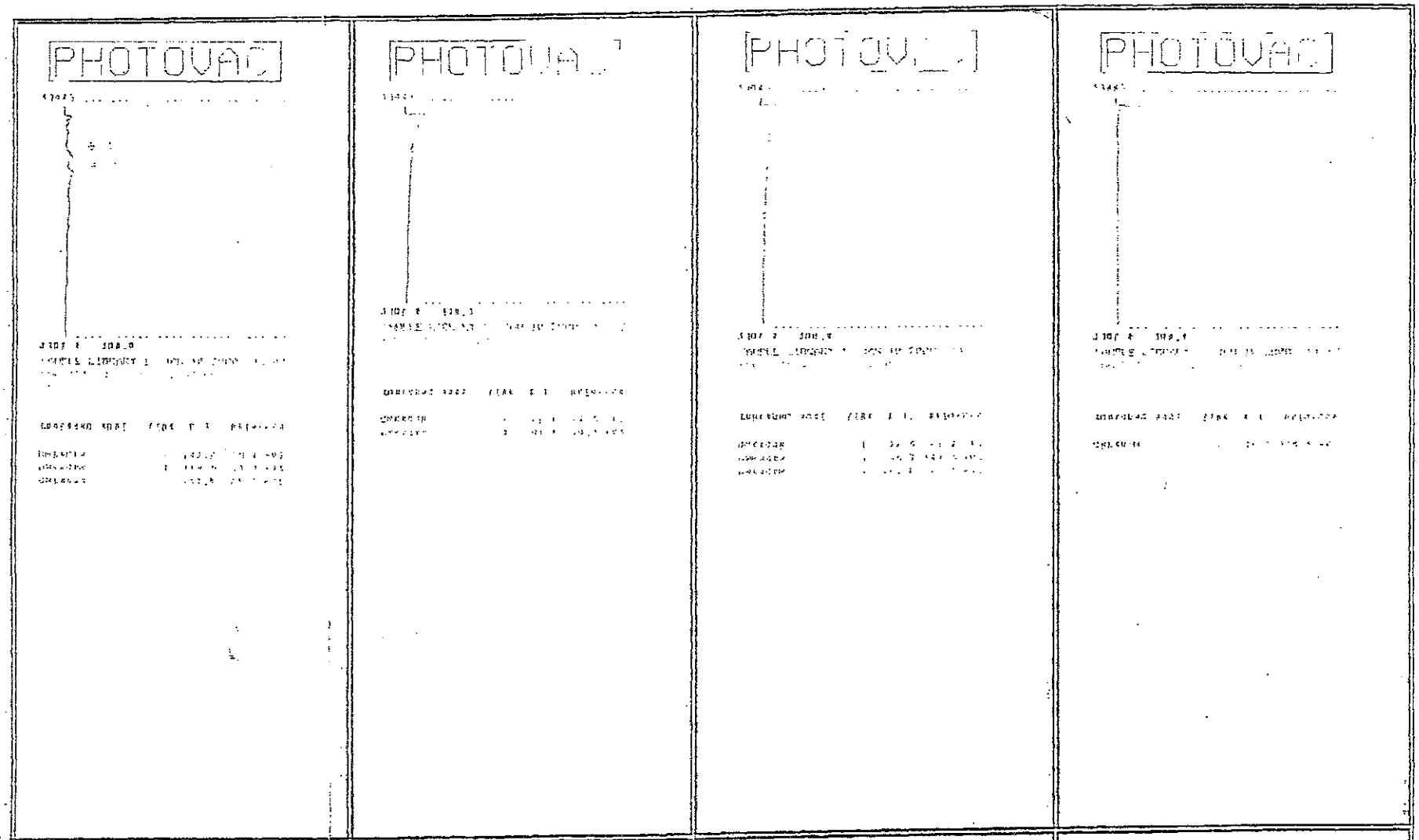
SD-08 (6-8 ft.) | SD-08 (8-10 ft.) | SD-09 (2-4 ft.) | SD-09 (4-6 ft.)



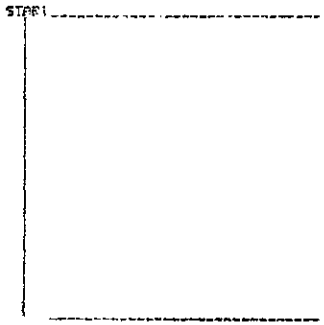
SD-09 (6-8 ft.)	SD-09 (8-10 ft.)	SD-09 (0-2 ft.)	SD-18 (0-2 ft.)



SD-18 (2-4 ft.)	SD-18 (4-6 ft.)	SD-18 (6-8 ft.)	SD-18 (8-10 ft.)



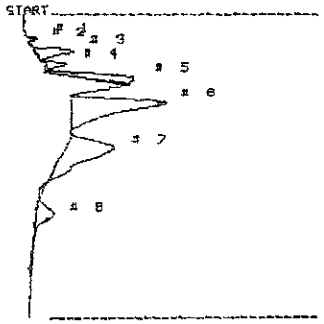
SB-01 (12-16 ft.)	SB-01 (20-24 ft.)	SB-01 (24-28 ft.)	SB-01 Water



COMPOUND NAME PEAK R.T. AREA/PPM

Instrument Blank

PHOTOVAC

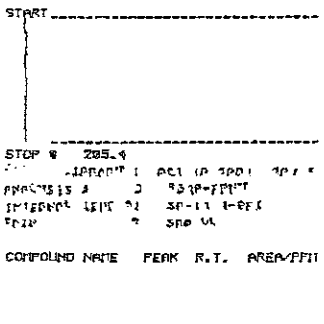


COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN	1	42.7	97.1 mUS
UNKNOWN	2	51.7	18.4 mUS
UNKNOWN	3	83.3	1.4 US
UNKNOWN	4	85.0	257.4 mUS
UNKNOWN	5	105.8	1.8 US
UNKNOWN	6	158.4	7.7 US
UNKNOWN	7	226.2	6.3 US
UNKNOWN	8	336.5	1.3 US

SD-11 (0-1 ft.)

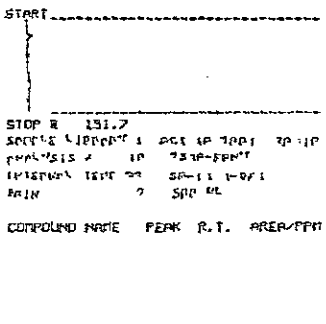
PHOTOVAC



COMPOUND NAME PEAK R.T. AREA/PPM

SD-11 (1-8 ft.)

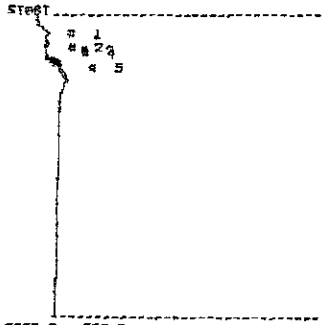
PHOTOVAC



COMPOUND NAME PEAK R.T. AREA/PPM

SD-11 (1-8 ft.)

PHOTOVAC

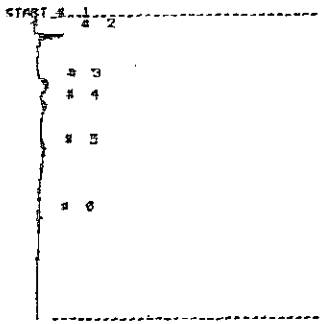


STOP # 502.0
SAMPLE LIBRARY 1 OCT 10 2001 20:22
ANALYSIS # 11 2540-FDNY
INTERNAL TEMP 31 SD-14 4-8FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	3	79.3	134.5 mVS
UNKNOWN	4	83.6	83.3 mVS
UNKNOWN	5	186.7	83.5 mVS

SD-14 (4-8 ft.)

PHOTOVAC

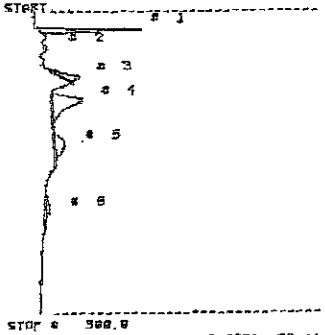


STOP # 500.0
SAMPLE LIBRARY 1 OCT 10 2001 20:32
ANALYSIS # 12 2540-FDNY
INTERNAL TEMP 31 SD-14 8-12FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	12.1	8.0 mVS
UNKNOWN	2	31.3	138.2 mVS
UNKNOWN	3	112.8	100.2 mVS
UNKNOWN	4	118.0	31.8 mVS
UNKNOWN	5	222.8	31.7 mVS
UNKNOWN	6	331.0	15.2 mVS

SD-14 (8-12 ft.)

PHOTOVAC

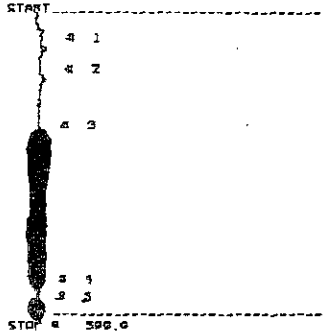


STOP # 500.0
SAMPLE LIBRARY 1 OCT 10 2001 20:44
ANALYSIS # 13 2540-FDNY
INTERNAL TEMP 31 SD-14 12-16FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	31.8	1.6 VS
UNKNOWN	2	82.2	96.5 mVS
UNKNOWN	3	111.2	611.1 mVS
UNKNOWN	4	118.4	2.1 VS
UNKNOWN	5	223.8	377.5 mVS
UNKNOWN	6	331.8	380.1 mVS

SD-14 (12-16 ft.)

PHOTOVAC

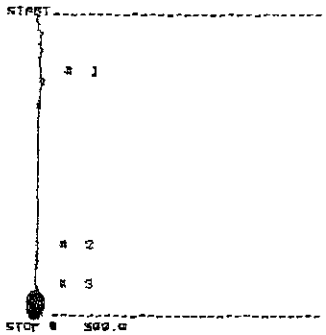


STOP # 500.0
SAMPLE LIBRARY 1 OCT 10 2001 20:54
ANALYSIS # 14 2540-FDNY
INTERNAL TEMP 31 SD-14 16-20FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	89.5	22.0 mVS
UNKNOWN	2	112.6	33.3 mVS
UNKNOWN	4	982.8	2.3 mVS

SD-14 (16-20 ft.)

PHOTOVAC

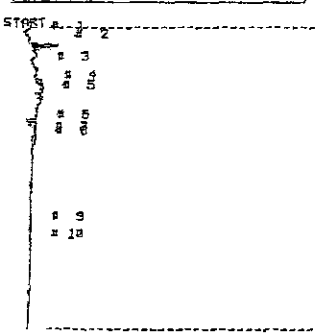


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 10 2001 21:4
ANALYSIS # 15 2540-FONT
INTERNAL TEMP 31 SD-14 20-24FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/HT
UNKNOWN	1	112.8	33.8 mVS

SD-14 (20-24 ft.)

PHOTOVAC

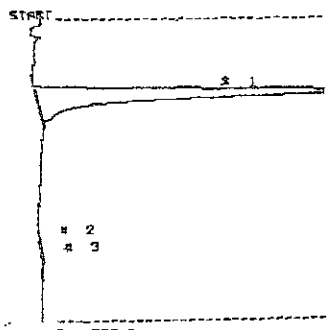


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 10 2001 21:33
ANALYSIS # 25 2540-FONT
INTERNAL TEMP 31 SD-14 WATER
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/HT
UNKNOWN	2	31.6	128.8 mVS
UNKNOWN	4	33.4	123.3 mVS
UNKNOWN	5	116.3	38.1 mVS
UNKNOWN	6	183.2	73.8 mVS
UNKNOWN	9	158.2	3.3 mVS
UNKNOWN	3	251.3	12.8 mVS

SD-14 Water

PHOTOVAC

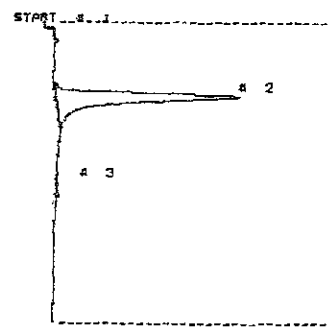


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 10 2001 21:13
ANALYSIS # 26 2540-FONT
INTERNAL TEMP 31 SD-17 0-4FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/HT
UNKNOWN	1	122.8	26.5 VS
UNKNOWN	2	257.2	102.2 mVS

SD-17 (0-4 ft.)

PHOTOVAC

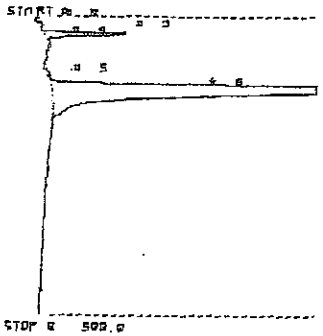


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 10 2001 21:54
ANALYSIS # 27 2540-FONT
INTERNAL TEMP 31 SD-17 4-8FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/HT
UNKNOWN	1	13.2	23.3 mVS
UNKNOWN	2	134.4	11.2 VS
UNKNOWN	3	288.2	75.3 mVS

SD-17 (4-8 ft.)

PHOTOVAC

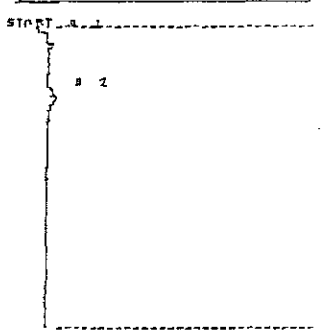


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 19 2001 22:1
ANALYSIS # 31 2510-FDNT
INTERNAL TEMP 31 SD-17 8-12FT
GAIN 19 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FT
UNKNOWN	1	11.8	7.7 pVS
UNKNOWN	2	15.1	7.8 pVS
UNKNOWN	3	31.5	1.2 VS
UNKNOWN	4	99.9	19.2 pVS
UNKNOWN	5	126.0	81.3 pVS
UNKNOWN	6	135.8	97.9 VS

SD-17 (8-12 ft.)

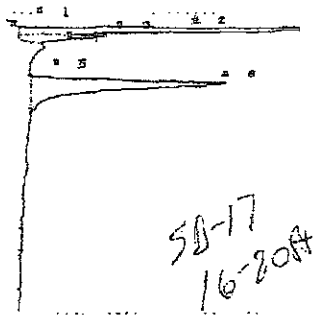
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 OCT 19 2001 22:11
ANALYSIS # 32 2510-FDNT
INTERNAL TEMP 31 SD-17 12-16FT
GAIN 19 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FT
UNKNOWN	1	11.7	93.1 pVS
UNKNOWN	2	113.2	33.3 pVS

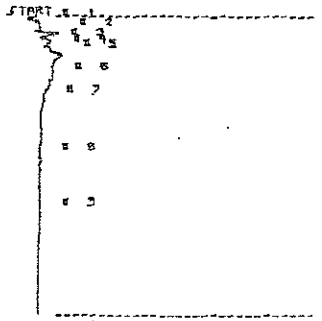
SD-17 (12-16 ft.)



SD-17
16-20ft

SD-17 (16-20 ft.)

PHOTOVAC

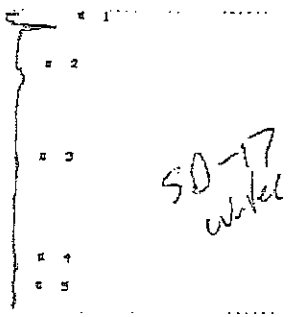


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 19 2001 22:41
ANALYSIS # 36 2510-FDNT
INTERNAL TEMP 31 SD-17 20-24FT
GAIN 19 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FT
UNKNOWN	1	15.8	27.2 pVS
UNKNOWN	2	32.2	88.8 pVS
UNKNOWN	3	48.9	84.9 pVS
UNKNOWN	4	61.1	22.1 pVS
UNKNOWN	5	67.3	59.1 pVS

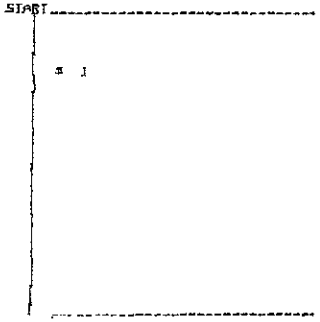
SD-17 (20-24 ft.)

PHOTOVAC



SD-17 Water

PHOTOVAC

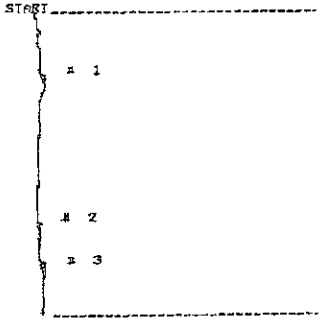


STOP @ 540.0
SAMPLE LIBRARY 1 OCT 10 2001 23:23
ANALYSIS # 3 2540-FONT
INTERNAL TEMP 27 INST BLNK
GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	115.0	15.1 mVS

Instrument Blank

PHOTOVAC

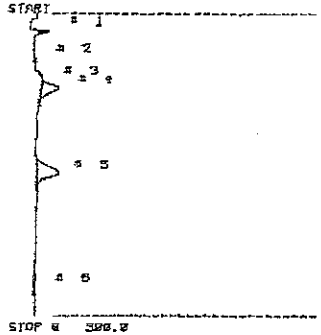


STOP @ 520.0
SAMPLE LIBRARY 1 OCT 10 2001 23:33
ANALYSIS # 4 2540-FONT
INTERNAL TEMP 28 MW-01
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	112.6	83.3 mVS
UNKNOWN	2	361.2	45.1 mVS
UNKNOWN	3	430.8	112.9 mVS

MW-01

PHOTOVAC

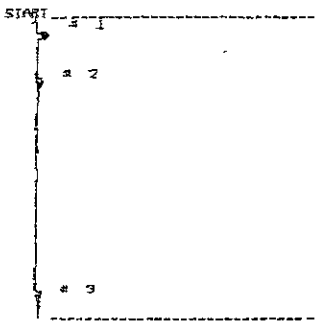


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 10 2001 23:41
ANALYSIS # 5 2540-FONT
INTERNAL TEMP 29 MW-02
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	31.4	98.3 mVS
UNKNOWN	2	78.5	8.8 mVS
UNKNOWN	3	112.9	31.6 mVS
UNKNOWN	4	127.2	838.3 mVS
UNKNOWN	5	272.4	1.5 VS
UNKNOWN	6	458.0	3.3 mVS

MW-02

PHOTOVAC

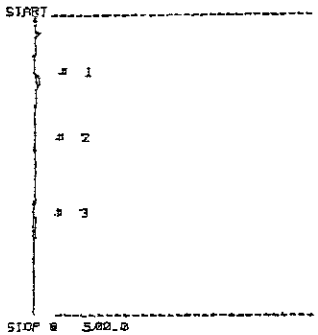


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 10 2001 23:5
ANALYSIS # 7 2540-FDNY
INTERNAL TEMP 29 MW-03
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/FA
UNKNOWN	1	31.4	24.3 mVS
UNKNOWN	2	112.9	183.7 mVS
UNKNOWN	3	473.6	184.2 mVS

MW-03

PHOTOVAC

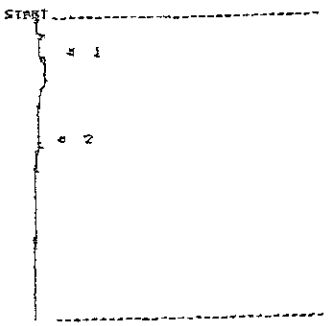


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 11 2001 01
ANALYSIS # 6 2540-FDNY
INTERNAL TEMP 30 MW-04
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/PA
UNKNOWN	1	112.6	188.8 mVS
UNKNOWN	3	351.1	14.3 mVS

MW-04

PHOTOVAC

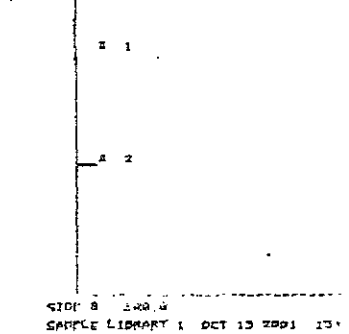


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 11 2001 0123
ANALYSIS # 11 2540-FDNY
INTERNAL TEMP 30 MW-05
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/PA
UNKNOWN	1	77.7	38.3 mVS
UNKNOWN	2	228.2	7.5 mVS

MW-05

PHOTOVAC

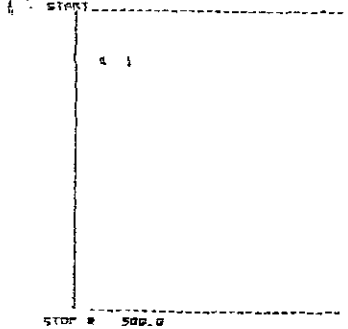


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 13 2001 13:
ANALYSIS # 20 2540-FDNY
INTERNAL TEMP 29 INST BLNK
GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/
UNKNOWN	1	108.8	7.5 mV
UNKNOWN	2	232.3	32.8 mV

Instrument Blank

PHOTOVAC

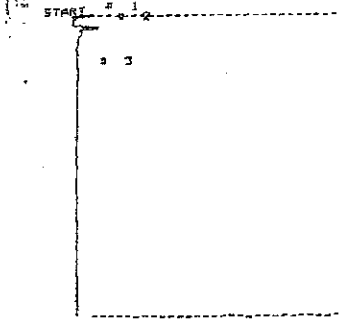


STOP # 500.0
SAMPLE LIBRARY 1 OCT 13 2001 13:
ANALYSIS # 21 2540-FONT
INTERNAL TEMP 28 INST BLANK
GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/T
UNKNOWN	1	185.7	7.7 mV

Instrument Blank

PHOTOVAC

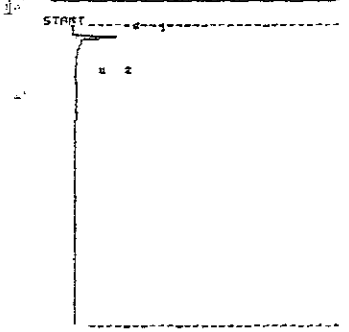


STOP # 500.0
SAMPLE LIBRARY 1 OCT 13 2001 13:
ANALYSIS # 22 2540-FONT
INTERNAL TEMP 29 SB-05 12-14FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/T
UNKNOWN	1	2.9	38.8 mV
UNKNOWN	2	22.1	25.6 mV
UNKNOWN	3	35.5	6.5 mV

SB-05 (12-14 ft.)

PHOTOVAC

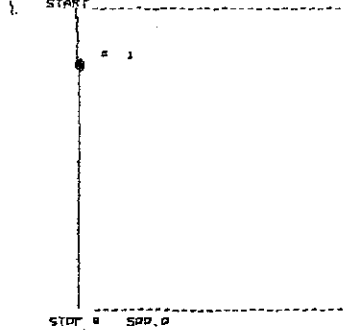


STOP # 500.0
SAMPLE LIBRARY 1 OCT 13 2001 13:
ANALYSIS # 23 2540-FONT
INTERNAL TEMP 23 SB-06 12-14FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/T
UNKNOWN	1	22.8	553.8 mV

SB-06 (12 - 14 ft.)

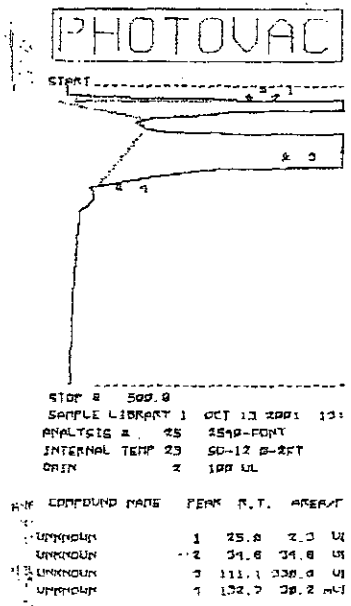
PHOTOVAC



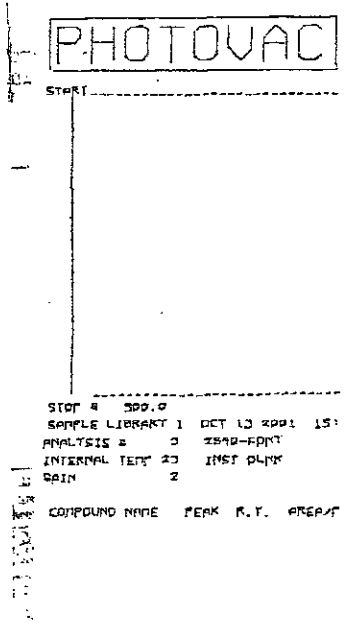
STOP # 500.0
SAMPLE LIBRARY 1 OCT 13 2001 13:
ANALYSIS # 24 2540-FONT
INTERNAL TEMP 23 SB-07 14-16FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/T

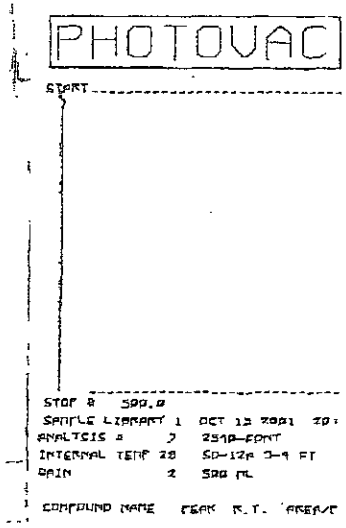
SB-07 (14-16 ft.)



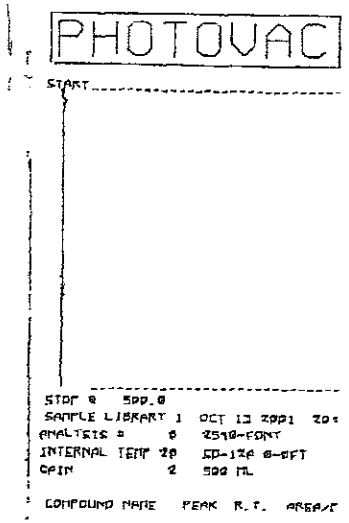
SD-12 (0 to 2 ft.)



Instrument Blank

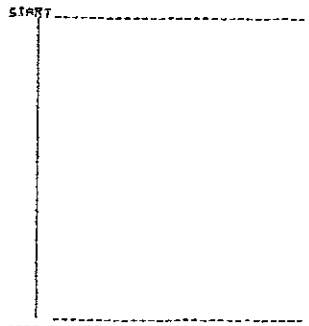


SD-12A (3 to 4 ft.)



SD-12A (6 to 8 ft.)

PHOTOVAC

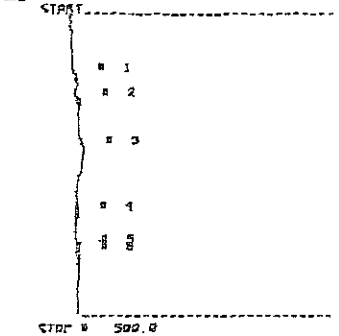


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 17 2001 13:
ANALYSIS # 4 2510-FDNY
INTERNAL TEMP 20 INST BLNK
GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/F

Instrument Blank

PHOTOVAC

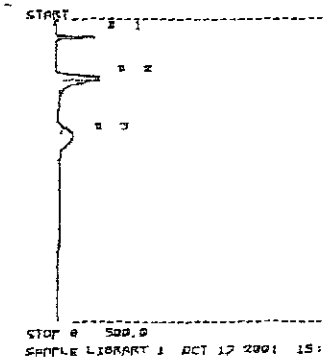


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 17 2001 15:
ANALYSIS # 5 2510-FDNY
INTERNAL TEMP 20 SD-13 0-4FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/F
UNKNOWN	1	103.3	18.3 mV
UNKNOWN	2	131.2	80.3 mV
UNKNOWN	3	222.8	31.3 mV
UNKNOWN	4	338.5	179.6 mV
UNKNOWN	5	391.2	180.9 mV
UNKNOWN	6	498.3	111.2 mV

SD-13 (0-4 ft.)

PHOTOVAC

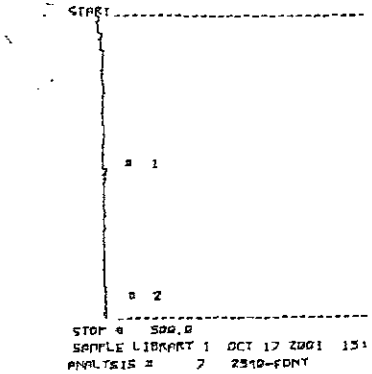


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 17 2001 15:
ANALYSIS # 6 2510-FDNY
INTERNAL TEMP 25 BTEX CAL
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/F
UNKNOWN	1	93.5	355.5 mV
UNKNOWN	2	100.3	1.1 V
UNKNOWN	3	137.2	1.3 V

BTEX Calibration

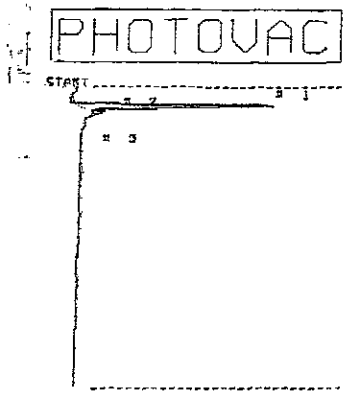
PHOTOVAC



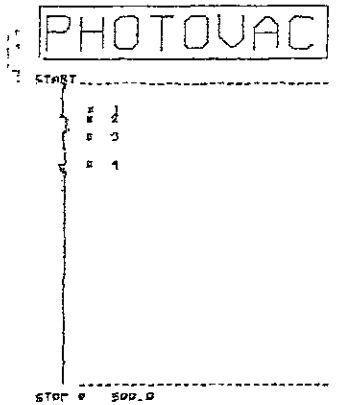
STOP @ 500.0
SAMPLE LIBRARY 1 OCT 17 2001 15:
ANALYSIS # 7 2510-FDNY
INTERNAL TEMP 25 SD-13 4-8FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/F
UNKNOWN	1	259.0	55.3 mV
UNKNOWN	2	369.3	46.3 mV

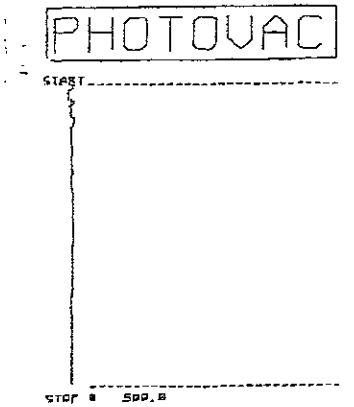
SD-13 (4-8 ft.)



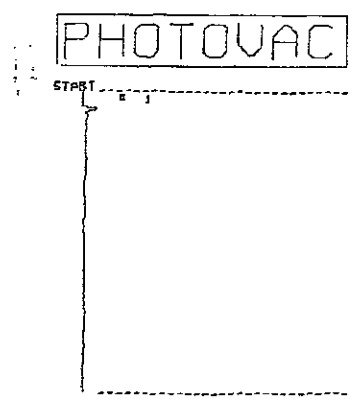
SD-13 (8-12 ft.)



SD-13 (12-16 ft.)

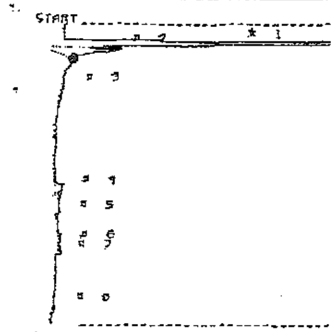


SD-13 (16-18 ft.)



SD-13 (18-20 ft.)

PHOTOVAC

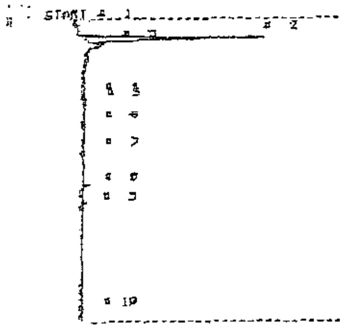


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 17 2001 10:
ANALYSIS # 12 2510-FONT
INTERNAL TEMP 26 SD-13 ~~[illegible]~~ 20-22
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/T
UNKNOWN	1	31.8	0.7 V
UNKNOWN	2	44.7	1.3 V
UNKNOWN	4	275.7	371.7 mV
UNKNOWN	5	317.1	6.4 mV
UNKNOWN	6	371.2	87.5 mV
UNKNOWN	7	386.1	78.6 mV

SD-13 (20-22 ft.)

PHOTOVAC

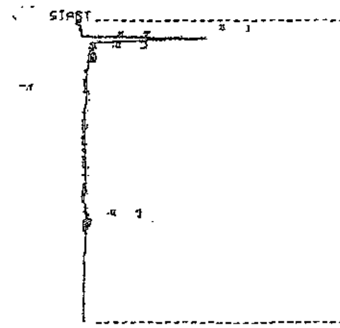


STOP @ 500.0
SAMPLE LIBRARY 1 OCT 17 2001 10:
ANALYSIS # 15 2510-FONT
INTERNAL TEMP 23 SD-13 22-24FT
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/T
UNKNOWN	1	11.3	6.5 mV
UNKNOWN	2	31.7	3.1 V
UNKNOWN	3	44.3	138.8 mV
UNKNOWN	7	223.2	8.0 mV
UNKNOWN	8	270.7	15.4 mV
UNKNOWN	9	310.7	21.3 mV

SD-13 (22-24 ft.)

PHOTOVAC

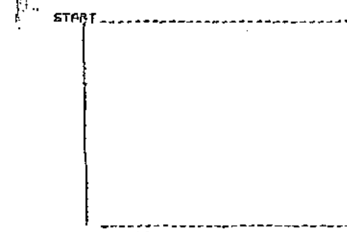


STOP @ 300.0
SAMPLE LIBRARY 1 OCT 17 2001 10:
ANALYSIS # 14 2510-FONT
INTERNAL TEMP 23 SD-13 WATER
GAIN 10 500 UL

COMPOUND NAME	PEAK	R.T.	AREA/T
UNKNOWN	1	30.3	2.0 V
UNKNOWN	2	44.3	17.1 mV
UNKNOWN	3	80.3	7.8 mV
UNKNOWN	4	336.7	145.1 mV

SD-13 Water

PHOTOVAC

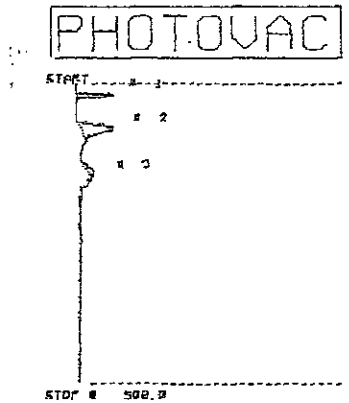


STOP @ 334.0
SAMPLE LIBRARY 1 OCT 18 2001 13:
ANALYSIS # 6 2540-FONT
INTERNAL TEMP 26 INST BLNK
GAIN 10

OFFSET	17.0 mV
CHART SPEED	0.5 cM/Min
SLOPE SENS.	10 10 6 mV/Sec
WINDOW +/-	3 Percent
MINIMUM AREA	5 mVSec
TIMER DELAY	10.0 Sec
ANALYSIS TIME	500.0 Sec
CYCLE TIME	0 Min

COMPOUND NAME PEAK R.T. AREA/T

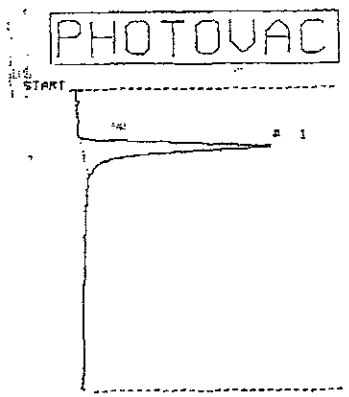
Instrument Blank



STOP # 500.0
SAMPLE LIBRARY 1 OCT 10 2001 13:
ANALYSIS # 2 2540-FONT
INTERNAL TEMP 23 BTX CAL
GAIN 10 500 UL

	COMPOUND NAME	PEAK	R.T.	AREA/C
1	UNKNOWN	1	20.8	935.7 nU
2	UNKNOWN	2	24.3	1.1 U
3	UNKNOWN	3	178.9	122.8 nU

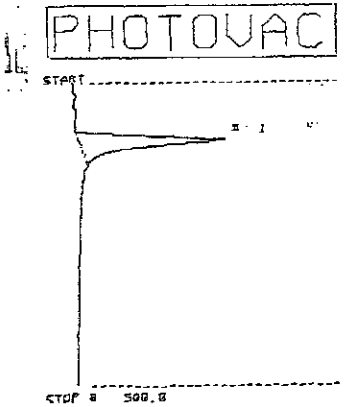
BTEX Calibration



STOP # 500.0
SAMPLE LIBRARY 1 OCT 10 2001 11:
ANALYSIS # 3 2540-FONT
INTERNAL TEMP 28 SD-16 0-4FT
GAIN 10 500 UL

	COMPOUND NAME	PEAK	R.T.	AREA/C
1	UNKNOWN	1	35.2	11.3 U

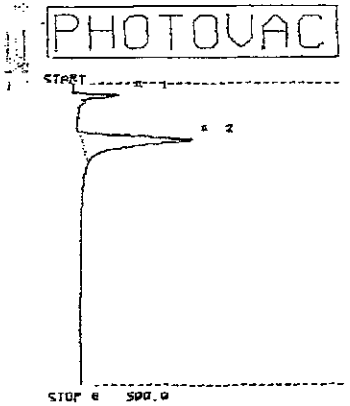
SD-16 (0-4 ft.)



STOP # 500.0
SAMPLE LIBRARY 1 OCT 10 2001 11:
ANALYSIS # 10 2540-FONT
INTERNAL TEMP 28 SD-16 4-8FT
GAIN 10 500 UL

	COMPOUND NAME	PEAK	R.T.	AREA/C
1	UNKNOWN	1	35.2	8.2 U

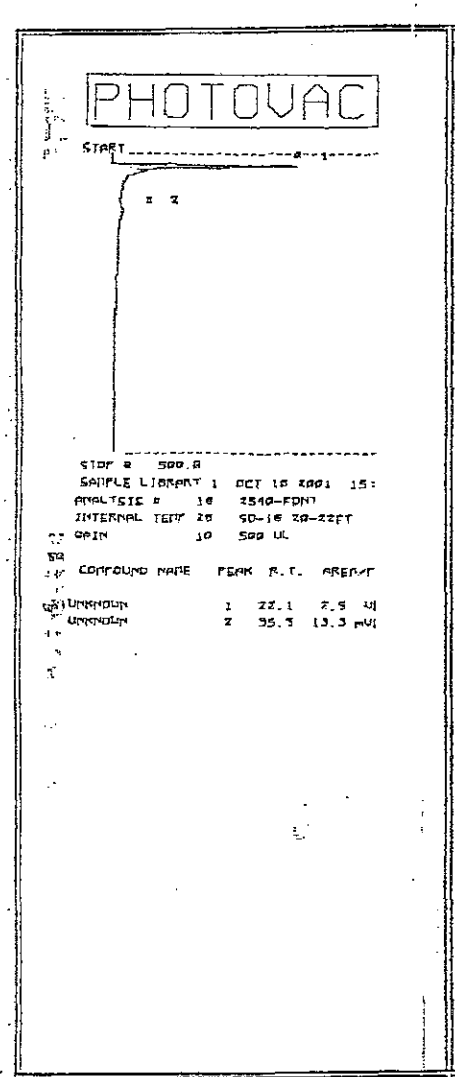
SD-16 (4-8 ft.)



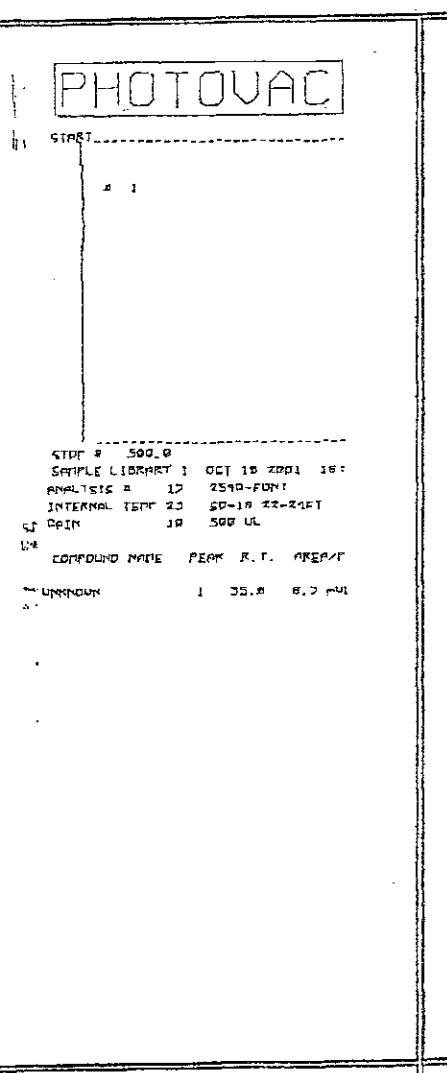
STOP # 500.0
SAMPLE LIBRARY 1 OCT 10 2001 11:
ANALYSIS # 11 2540-FONT
INTERNAL TEMP 28 SD-16 8-12FT
GAIN 10 500 UL

	COMPOUND NAME	PEAK	R.T.	AREA/C
1	UNKNOWN	1	22.7	588.3 nU
2	UNKNOWN	2	35.2	6.9 U

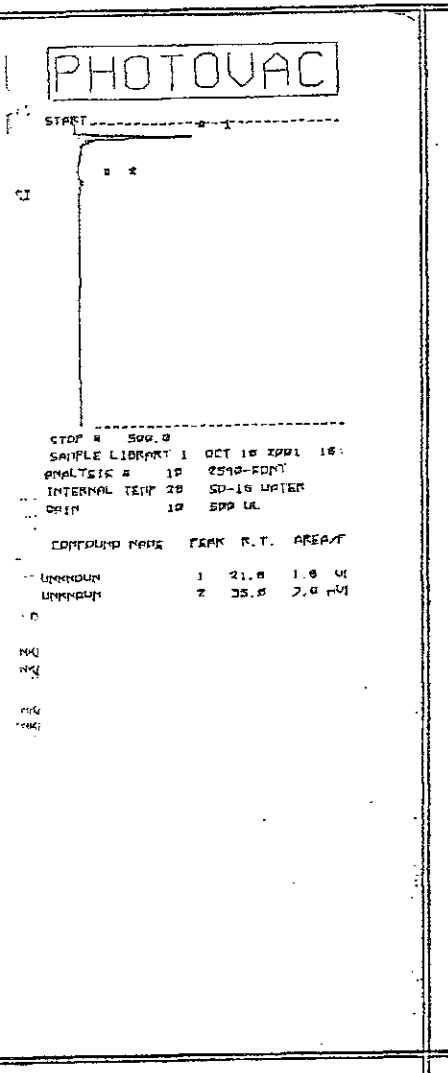
SD-16 (8-12 ft.)



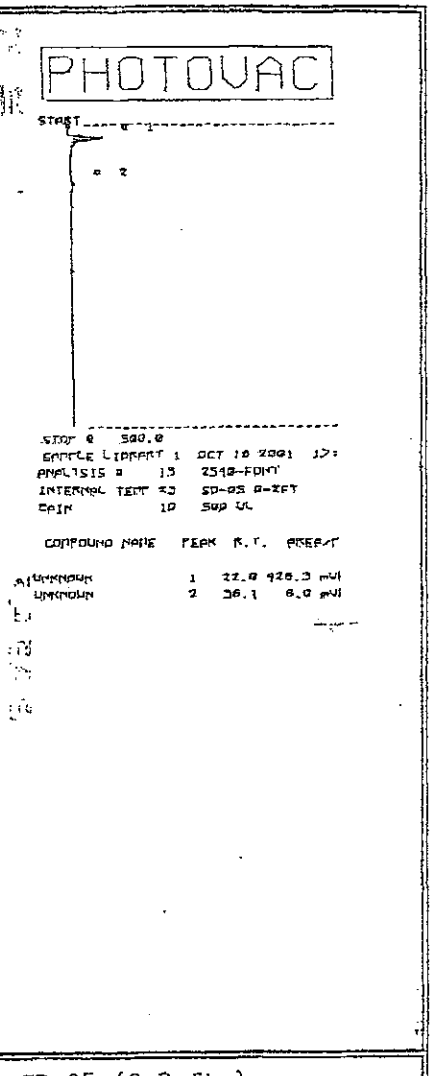
SD-16 (20-22 ft.)



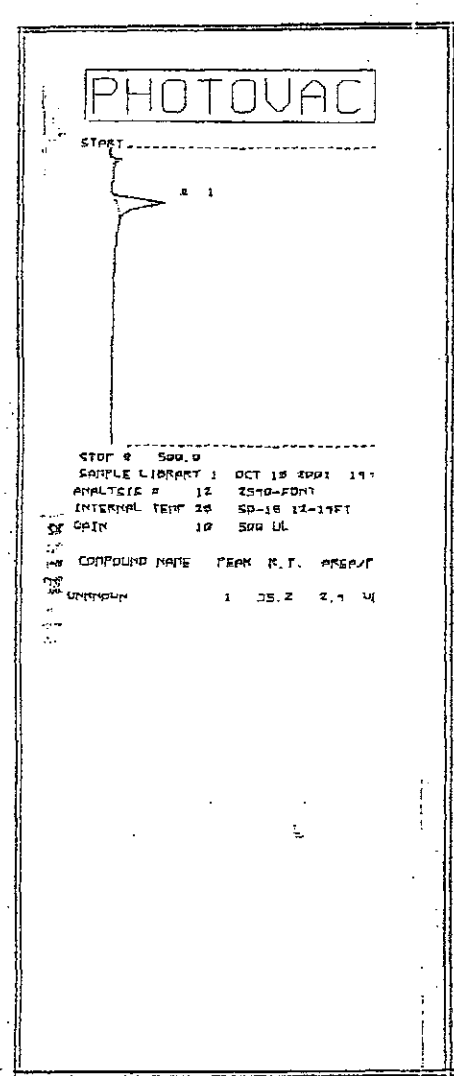
SD-16 (22-24 ft.)



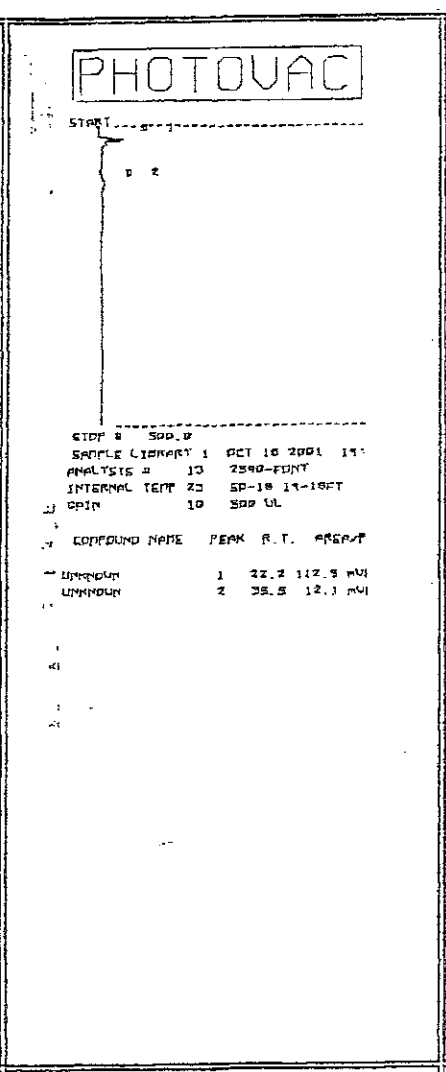
SD-16 Water



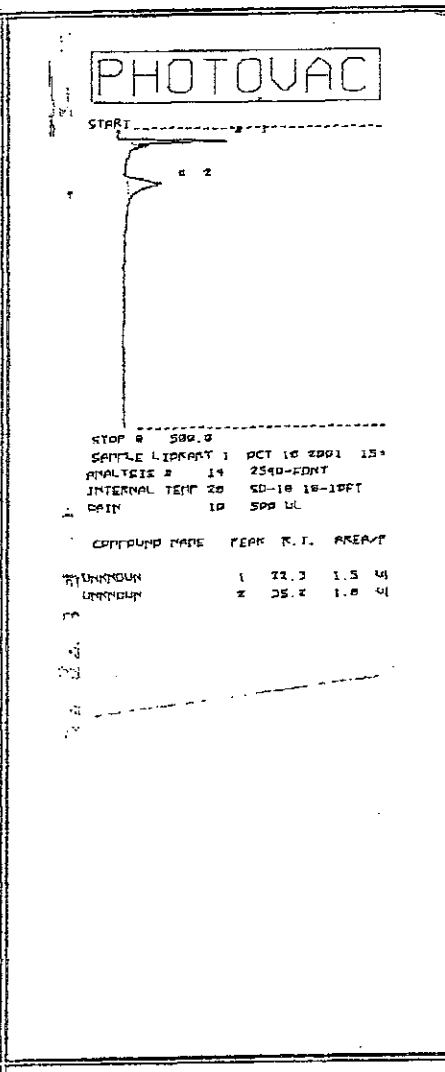
SD-05 (0-2 ft.)



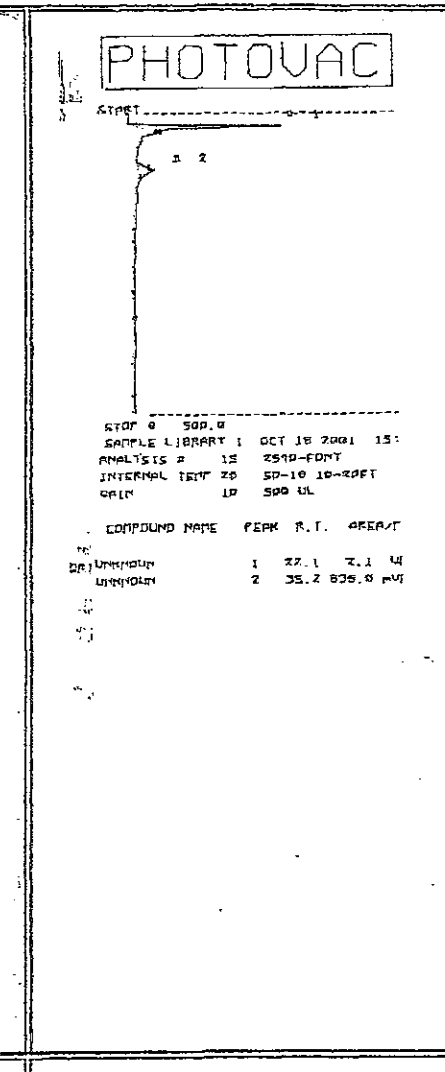
SD-16 (12-14 ft.)



SD-16 (14-16 ft.)



SD-16 (16-18 ft.)



SD-16 (18-20 ft.)

APPENDIX C

LABORATORY ANALYTICAL REPORTS

ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741 • Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: ACT	CONTACT: P STEWART	SAMPLER (SIGNATURE): Keith H	DATE: 10-01-01 TIME:
	PHONE: 293-4992 x12	SAMPLER NAME (PRINT): KEITH Holley	SAMPLE(S) SEALED: YES / NO
	FAX: 293-4986		CORRECT CONTAINER(S): YES / NO
PROJECT LOCATION: 2540-FDNY			

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	ANALYSIS REQUIRED: 13 HEAVY METALS	# OF CONTAINERS
0130643	L	G	ICE	SD-01	X	1-250ml
0130644	L	G	ICE	SD-02	X	↓
0130645	L	C	ICE	SB-01	X	
0130646	L	C	ICE	SB-02	X	↓
0130647	S	C	ICE	SD-01 (9'-10')	X	1-4oz
0130648	S	C	ICE	SB-01 (4'-8')	X	↓
0130649	S	C	ICE	SB-02 (20'-24')	X	
0130650	S	C	ICE	SD-02 (16'-20')	X	↓

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL

TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON PRES ICE, HCL, H_2SO_4, NAOH

TURNAROUND REQUIRED: NORMAL ☑ STAT ☐ BY / /

COMMENTS / INSTRUCTIONS: ARCHIVE FOR POSSIBLE VOC ANALYSIS

RELINQUISHED BY (SIGNATURE): Keith H	DATE: 10-01-01 TIME: 5:00	PRINTED NAME: KEITH Holley	RECEIVED BY LAB (SIGNATURE):	DATE: TIME:	PRINTED NAME:
RELINQUISHED BY (SIGNATURE):	DATE: TIME:	PRINTED NAME:	RECEIVED BY LAB (SIGNATURE):	DATE: 10/1/01 TIME: 500	PRINTED NAME: M Veraldi

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH,ELAP# 11693
USEPA# NY01273

October 4, 2001

Paul Stewart
Advanced Cleanup Technologies
117 Verdi Street
Farmingdale, NY 11735

Re: 2540-FDNY

Dear Mr. Stewart:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on October 1, 2001. Long Island Analytical Laboratories analyzed the samples on October 3, 2001 for the following:

CLIENT ID	ANALYSIS
SD -01	13 Heavy Metals
SD -02	13 Heavy Metals
SB -01	13 Heavy Metals
SB -02	13 Heavy Metals
SD -01 (9'-10)	13 Heavy Metals
SB -01 (4'-8)	13 Heavy Metals
SB -02 (20'-24)	13 Heavy Metals
SD -02 (16'-20)	13 Heavy Metals

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540-FDNY (SD-01)
Date received: 10/1/01	Laboratory ID: 0120643
Date extracted: 10/03/01	Matrix: Liquid
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	0.75
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	2.40
COPPER, Cu	0.05 mg/L	0.28
IRON, Fe	0.05 mg/L	79.0
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	1.34
NICKEL, Ni	0.05 mg/L	0.39
LEAD, Pb	0.05 mg/L	.051
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	0.52

Method: SW846, 7000 series analysis

Michael Venald

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (SD-02)
Date received: 10/1/01	Laboratory ID: 0120644
Date extracted: 10/03/01	Matrix: Liquid
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	0.39
BARIUM, Ba	1.0 mg/L	3.40
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	1.20
COPPER, Cu	0.05 mg/L	1.30
IRON, Fe	0.05 mg/L	302
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	2.10
NICKEL, Ni	0.05 mg/L	0.32
LEAD, Pb	0.05 mg/L	1.60
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	2.50

Method: SW846, 7000 series analysis

Michael Venald

Laboratory Director

Confidential

Client: ACT	Client ID: 2540-FDNY (SB-01)
Date received: 10/1/01	Laboratory ID: 0120645
Date extracted: 10/03/01	Matrix: Liquid
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	1.70
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	2.00
COPPER, Cu	0.05 mg/L	0.39
IRON, Fe	0.05 mg/L	2,697
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	1.40
NICKEL, Ni	0.05 mg/L	0.17
LEAD, Pb	0.05 mg/L	1.10
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	2.80

Method: SW846, 7000 series analysis

Michael Verrill

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.

101-4 Colin Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540-FDNY (SB-02)
Date received: 10/1/01	Laboratory ID: 0120646
Date extracted: 10/03/01	Matrix: Liquid
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	0.21
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.90
COPPER, Cu	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	46.0
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	0.98
NICKEL, Ni	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	0.15
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	0.10

Method: SW846, 7000 series analysis

Michael Verrillo

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (SD-01{9'-10'})
Date received: 10/1/01	Laboratory ID: 0120647
Date extracted: 10/03/01	Matrix: Soil
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	53.0
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	61.0
COPPER, Cu	1.65 mg/kg	26.0
IRON, Fe	1.65 mg/kg	5,349
MERCURY, Hg	0.020 mg/kg	0.06
MANGANESE, Mn	1.65 mg/kg	61.0
NICKEL, Ni	1.65 mg/kg	160
LEAD, Pb	1.65 mg/kg	160
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	219

Preformed by SW-846 Method 6010

Michael Verrastro

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (SB-01{4'-8'})
Date received: 10/1/01	Laboratory ID: 0120648
Date extracted: 10/03/01	Matrix: Soil
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	142
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	8.30
COPPER, Cu	1.65 mg/kg	4.00
IRON, Fe	1.65 mg/kg	7,413
MERCURY, Hg	0.020 mg/kg	0.18
MANGANESE, Mn	1.65 mg/kg	42.0
NICKEL, Ni	1.65 mg/kg	3.70
LEAD, Pb	1.65 mg/kg	277
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	261

Preformed by SW-846 Method 6010

Michael Verrill

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (SB-02 {20'-24'})
Date received: 10/1/01	Laboratory ID: 0120649
Date extracted: 10/03/01	Matrix: Soil
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	12.0
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	19.0
COPPER, Cu	1.65 mg/kg	1.90
IRON, Fe	1.65 mg/kg	1,660
MERCURY, Hg	0.020 mg/kg	<0.020
MANGANESE, Mn	1.65 mg/kg	12.0
NICKEL, Ni	1.65 mg/kg	0.92
LEAD, Pb	1.65 mg/kg	15.0
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	6.90

Preformed by SW-846 Method 6010

Michael Venald

Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540-FDNY (SD-02 {16'-20'})
Date received: 10/1/01	Laboratory ID: 0120650
Date extracted: 10/03/01	Matrix: Soil
Date analyzed: 10/03/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	14.0
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	8.50
COPPER, Cu	1.65 mg/kg	3.80
IRON, Fe	1.65 mg/kg	2,535
MERCURY, Hg	0.020 mg/kg	0.01
MANGANESE, Mn	1.65 mg/kg	15.0
NICKEL, Ni	1.65 mg/kg	1.10
LEAD, Pb	1.65 mg/kg	2.30
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	4.40

Preformed by SW-846 Method 6010

Michael Verrald

Laboratory Director

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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: ACT

CONTACT: Paul Stewart
PHONE: 631-293-1992
FAX: 631-293-1986

SAMPLER (SIGNATURE): P. Stewart DATE: 10/11/01 TIME:

SAMPLER NAME (PRINT): Paul P. Stewart

SAMPLE(S) SEALED: YES / NO
CORRECT CONTAINER(S): YES / NO

PROJECT LOCATION: 2540 FDNY

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	ANALYSIS REQUIRED: EPA 8260	13 Heavy Metals														# OF CONTAINERS
0131198	L	G	Ice	MW-01	X	X														2 40ml 1 250ml
0131199	L	G	Ice	MW-02	X	X														2 40ml 1 250ml
0131200	L	G	Ice	MW-03	X	X														2 40ml 1 250ml
0131201	L	G	Ice	MW-04	X	X														2 40ml 1 250ml
0131202	L	G	Ice	MW-05	X	X														2 40ml 1 250ml
0131203	S	G	Ice	SD-01	X															2-40ml
0131204	S	G	Ice	SD-02	X															2-40ml
0131205	S	C	Ice	SB-01 (24-28ft)	X	X														1-4oz
0131206	L	G	Ice	SB-01	X															2-40ml
0131207	S	C	Ice	SD-07 (0-2ft)	X	X														1-4oz
0131208	S	C	Ice	SD-08 (0-2ft)	X	X														1-4oz
0131209	S	C	Ice	SD-09 (6-8ft)	X	X														1-8oz
0131210	S	C	Ice	SD-21 (0-4ft)	X	X														1-4oz
0131211	L	G	Ice	SB-02	X															2-40ml

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL
TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON PRES ICE, HCL, H_2SO_4, NAOH

TURNAROUND REQUIRED: Normal
NORMAL ☑ STAT ☐ BY / /

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Steven Walls	10/11/01 1:55	Steven Walls	K Clark	10/11 4:58	K Clark
	DATE / TIME			DATE / TIME	

WHITE - OFFICE / CANARY - LAB / PINK - SAMPLE CUSTODIAN / GOLDENROD - CLIENT NYSDOH ELAP# 11693 USEPA# NY01273

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.

NYSDOH ELAP# 11693
USEPA# NY01273

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

October 22, 2001

Paul Stewart
Advanced Cleanup Technologies
117 Verdi Street
Farmingdale, NY 11735

Re: 2540 FDNY

Dear Mr. Stewart:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on October 11, 2001. Long Island Analytical Laboratories analyzed the samples on October 19, 2001 for the following:

CLIENT ID	ANALYSIS
MW-01	EPA 8260, 13 Heavy Metals
MW-02	EPA 8260, 13 Heavy Metals
MW-03	EPA 8260, 13 Heavy Metals
MW-04	EPA 8260, 13 Heavy Metals
MW-05	EPA 8260, 13 Heavy Metals
SD- 01	EPA 8260
SD- 02	EPA 8260
SB- 01 (24-28ft)	EPA 8260, 13 Heavy Metals
SB- 01	EPA 8260
SD- 07 (0-2ft)	EPA 8260, 13 Heavy Metals
SD- 08 (0-2ft)	EPA 8260, 13 Heavy Metals
SB-02	EPA 8260

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Confidential

Client: ACT	Client ID: 2540 FDNY (MW-01)
Date received: 10/11/01	Laboratory ID: 0121198
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	109
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (MW-01)
Date received: 10/11/01	Laboratory ID: 0121198
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	45
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Arnold
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@...

Confidential

Client: ACT	Client ID: 2540 FDNY (MW-01)
Date received: 10/11/01	Laboratory ID: 0121198
Date extracted: 10/16, 10/19/01	Matrix: Liquid
Date analyzed: 10/16, 10/19/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.22
COPPER, Cu	0.05 mg/L	0.05
IRON, Fe	0.05 mg/L	20.5
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	0.06
NICKEL, Ni	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	0.10
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	0.18

Method: SW846, 7000 series analysis

Michael Vandell

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@li...

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Client: ACT	Client ID: 2540 FDNY (MW-02)
Date received: 10/11/01	Laboratory ID: 0121199
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (MW-02)
Date received: 10/11/01	Laboratory ID: 0121199
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	12
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	19
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	6
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Richard Vanaldi

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"ENVIRONMENTAL ANALYTICAL SOLUTIONS TODAY"
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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540 FDNY (MW-02)
Date received: 10/11/01	Laboratory ID: 0121199
Date extracted: 10/16, 10/19/01	Matrix: Liquid
Date analyzed: 10/16, 10/19/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.41
COPPER, Cu	0.05 mg/L	0.19
IRON, Fe	0.05 mg/L	110
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	0.57
NICKEL, Ni	0.05 mg/L	0.08
LEAD, Pb	0.05 mg/L	0.03
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	0.29

Method: SW846, 7000 series analysis

Michael Verrillo

Laboratory Director

Confidential

Client: ACT	Client ID: 2540 FDNY (MW-03)
Date received: 10/11/01	Laboratory ID: 0121200
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Confidential

Client: ACT	Client ID: 2540 FDNY (MW-03)
Date received: 10/11/01	Laboratory ID: 0121200
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verrillo

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.

101-4 Colin Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540 FDNY (MW-03)
Date received: 10/11/01	Laboratory ID: 0121200
Date extracted: 10/16, 10/19/01	Matrix: Liquid
Date analyzed: 10/16, 10/19/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.44
COPPER, Cu	0.05 mg/L	0.18
IRON, Fe	0.05 mg/L	84.2
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	0.40
NICKEL, Ni	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	0.66
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	0.63

Method: SW846, 7000 series analysis

Michael Verrald

Laboratory Director

Confidential

Client: ACT	Client ID: 2540 FDNY (MW-04)
Date received: 10/11/01	Laboratory ID: 0121201
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (MW-04)
Date received: 10/11/01	Laboratory ID: 0121201
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Richard Vendl

Laboratory Director

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Client: ACT	Client ID: 2540 FDNY (MW-04)
Date received: 10/11/01	Laboratory ID: 0121201
Date extracted: 10/16, 10/19/01	Matrix: Liquid
Date analyzed: 10/16, 10/19/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.11
COPPER, Cu	0.05 mg/L	0.16
IRON, Fe	0.05 mg/L	55.5
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	0.16
NICKEL, Ni	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	0.28

Method: SW846, 7000 series analysis

Michael Verrill

Laboratory Director

Confidential

Client: ACT	Client ID: 2540 FDNY (MW-05)
Date received: 10/11/01	Laboratory ID: 0121202
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (MW-05)
Date received: 10/11/01	Laboratory ID: 0121202
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Laboratory Director

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Client: ACT	Client ID: 2540 FDNY (MW-05)
Date received: 10/11/01	Laboratory ID: 0121202
Date extracted: 10/16, 10/23/01	Matrix: Liquid
Date analyzed: 10/16, 10/23/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.27
COPPER, Cu	0.05 mg/L	0.11
IRON, Fe	0.05 mg/L	55.6
MERCURY, Hg	0.002 mg/L	<0.002
MANGANESE, Mn	0.05 mg/L	0.58
NICKEL, Ni	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	0.06
SELENIUM, Se	0.05 mg/L	<0.05
ZINC, Zn	0.05 mg/L	0.17

Method: SW846, 7000 series analysis

Michael Veraldi

Laboratory Director

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Client: ACT	Client ID: 2540 FDNY (SD-01)
Date received: 10/11/01	Laboratory ID: 0121203
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

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Client: ACT	Client ID: 2540 FDNY (SD-01)
Date received: 10/11/01	Laboratory ID: 0121203
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

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Client: ACT	Client ID: 2540 FDNY (SD-02)
Date received: 10/11/01	Laboratory ID: 0121204
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

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Client: ACT	Client ID: 2540 FDNY (SD-02)
Date received: 10/11/01	Laboratory ID: 0121204
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Laboratory Director

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Client: ACT	Client ID: 2540 FDNY (SB-01 {24-28ft})
Date received: 10/11/01	Laboratory ID: 0121205
Date extracted: 10/13/01	Matrix: Soil
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (SB-01 {24-28ft})
Date received: 10/11/01	Laboratory ID: 0121205
Date extracted: 10/13/01	Matrix: Soil
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Richard Vendl
Laboratory Director

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Client: ACT	Client ID: 2540 FDNY (SB-01 {24-28ft})
Date received: 10/11/01	Laboratory ID: 0121205
Date extracted: 10/17/01	Matrix: Soil
Date analyzed: 10/17/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	81.3
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	10.3
COPPER, Cu	1.65 mg/kg	10.2
IRON, Fe	1.65 mg/kg	4,162
MERCURY, Hg	0.020 mg/kg	0.09
MANGANESE, Mn	1.65 mg/kg	28.0
NICKEL, Ni	1.65 mg/kg	3.53
LEAD, Pb	1.65 mg/kg	160
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	65.4

Method: SW846, 7000 series analysis

Michael Verrill

Laboratory Director

Confidential

Client: ACT	Client ID: 2540 FDNY (SB-01)
Date received: 10/11/01	Laboratory ID: 0121206
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (SB-01)
Date received: 10/11/01	Laboratory ID: 0121206
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Arnold

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540 FDNY (SD-07 {0-2ft})
Date received: 10/11/01	Laboratory ID: 0121207
Date extracted: 10/13/01	Matrix: Soil
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Confidential

Client: ACT	Client ID: 2540 FDNY (SD-07 {0-2ft})
Date received: 10/11/01	Laboratory ID: 0121207
Date extracted: 10/13/01	Matrix: Soil
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Laboratory Director

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Confidential

Client: ACT	Client ID: 2540 FDNY (SD-07 {0-2ft})
Date received: 10/11/01	Laboratory ID: 0121207
Date extracted: 10/16, 10/17/01	Matrix: Soil
Date analyzed: 10/16, 10/17/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	32.1
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	13.7
COPPER, Cu	1.65 mg/kg	28.8
IRON, Fe	1.65 mg/kg	10,867
MERCURY, Hg	0.020 mg/kg	0.16
MANGANESE, Mn	1.65 mg/kg	47.6
NICKEL, Ni	1.65 mg/kg	5.36
LEAD, Pb	1.65 mg/kg	21.1
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	57.7

Method: SW846, 7000 series analysis

Richard Kensold

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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Confidential

Client: ACT	Client ID: 2540 FDNY (SD-08 {0-2ft})
Date received: 10/11/01	Laboratory ID: 0121208
Date extracted: 10/13/01	Matrix: Soil
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Confidential

Client: ACT	Client ID: 2540 FDNY (SD-08 {0-2ft})
Date received: 10/11/01	Laboratory ID: 0121208
Date extracted: 10/13/01	Matrix: Soil
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Richard Venald

Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540 FDNY (SD-08 {0-2ft})
Date received: 10/11/01	Laboratory ID: 0121208
Date extracted: 10/16, 10/17/01	Matrix: Soil
Date analyzed: 10/16, 10/17/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	8.93
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	5.65
COPPER, Cu	1.65 mg/kg	2.30
IRON, Fe	1.65 mg/kg	8,175
MERCURY, Hg	0.020 mg/kg	0.02
MANGANESE, Mn	1.65 mg/kg	66.2
NICKEL, Ni	1.65 mg/kg	2.80
LEAD, Pb	1.65 mg/kg	1.75
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	8.36

Method: SW846, 7000 series analysis

Michael Verrill
Laboratory Director

Client: ACT	Client ID: 2540 FDNY (SB-02)
Date received: 10/11/01	Laboratory ID: 0121211
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<0.7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (SB-02)
Date received: 10/11/01	Laboratory ID: 0121211
Date extracted: 10/13/01	Matrix: Liquid
Date analyzed: 10/13/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Richard Vendetti
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: ACT

CONTACT: P. Stewart
PHONE: 631-293-4992
FAX: 631-293-4986

SAMPLER (SIGNATURE): [signature] DATE: 10/14/01 TIME:

SAMPLER NAME (PRINT): Paul P. Stewart

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

PROJECT LOCATION: 2540-FONY

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	ANALYSIS REQUIRED: EPA 8260	13 Heavy Metals	# OF CONTAINERS
012318	S	C	Ice	SD-09 (0-2 ft)	X	X	1-4oz
012319	S	C	Ice	SD-14 (0-4 ft)	X	X	1-4oz
012320	S	C	Ice	SD-17 (8-12 ft)	X	X	1-4oz
012321	S	C	Ice	SD-18 (0-2 ft)	X	X	1-4oz

MATRIX: S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL

TYPE: G=GRAB; C=COMPOSITE, SS=SPLIT SPOON PRES: ICE, HCL, H_2SO_4, NAOH

TURNAROUND REQUIRED: NORMAL ☑ STAT ☐ BY / /

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	10/15/01	Thomas Rubinstein	K Clark	10/15 1:00	K Clark
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

WHITE - OFFICE / CANARY - LAB / PINK - SAMPLE CUSTODIAN / GOLDENROD - CLIENT NYSDOH ELAP# 11693 USEPA# NY01273

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273

October 25, 2001

Paul Stewart
Advanced Cleanup Technologies
117 Verdi Street
Farmingdale, NY 11735

Re: 2540 FDNY

Dear Mr. Stewart:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on October 15, 2001. Long Island Analytical Laboratories analyzed the samples on October 22, 2001 for the following:

CLIENT ID	ANALYSIS
SD 09 (0-2ft)	EPA 8260, 13 Heavy Metals
SD 14 (0-4ft)	EPA 8260, 13 Heavy Metals
SD 17 (8-12ft)	EPA 8260, 13 Heavy Metals
SD 18 (0-2ft)	EPA 8260, 13 Heavy Metals

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540 FDNY (SD 09 {0-2ft})
Date received: 10/15/01	Laboratory ID: 0121318
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (SD 09 {0-2ft})
Date received: 10/15/01	Laboratory ID: 0121318
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@li...

Confidential

Client: ACT	Client ID: 2540 FDNY (SD 09 {0-2ft})
Date received: 10/15/01	Laboratory ID: 0121318
Date extracted: 10/22/01	Matrix: Soil
Date analyzed: 10/22/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	10.5
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	4.90
COPPER, Cu	1.65 mg/kg	5.77
IRON, Fe	1.65 mg/kg	2,795
MERCURY, Hg	0.020 mg/kg	<0.02
MANGANESE, Mn	1.65 mg/kg	78.0
NICKEL, Ni	1.65 mg/kg	2.40
LEAD, Pb	1.65 mg/kg	<1.65
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	8.71

Preformed by SW-846 Method 6010

Michael Verrald

Laboratory Director

Client: ACT	Client ID: 2540 FDNY (SD 14 {0-4ft})
Date received: 10/15/01	Laboratory ID: 0121319
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (SD 14 {0-4ft})
Date received: 10/15/01	Laboratory ID: 0121319
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	8
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	6

Richard Venald
Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL @lialinc.com

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Client: ACT	Client ID: 2540 FDNY (SD 14 {0-4ft})
Date received: 10/15/01	Laboratory ID: 0121319
Date extracted: 10/22/01	Matrix: Soil
Date analyzed: 10/22/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	18.0
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	4.50
COPPER, Cu	1.65 mg/kg	5.46
IRON, Fe	1.65 mg/kg	2,692
MERCURY, Hg	0.020 mg/kg	0.11
MANGANESE, Mn	1.65 mg/kg	47.3
NICKEL, Ni	1.65 mg/kg	2.87
LEAD, Pb	1.65 mg/kg	8.63
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	19.8

Preformed by SW-846 Method 6010

Michael Verrald

Laboratory Director

Client: ACT	Client ID: 2540 FDNY (SD 17 {8-12ft})
Date received: 10/15/01	Laboratory ID: 0121320
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (SD 17 {8-12ft})
Date received: 10/15/01	Laboratory ID: 0121320
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	59
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Arnold
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
101-4 Colin Drive • Holbrook, New York 11741

Confidential

Client: ACT	Client ID: 2540 FDNY (SD 17 {8-12ft})
Date received: 10/15/01	Laboratory ID: 0121320
Date extracted: 10/22/01	Matrix: Soil
Date analyzed: 10/22/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	37.3
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	14.6
COPPER, Cu	1.65 mg/kg	13.1
IRON, Fe	1.65 mg/kg	9,228
MERCURY, Hg	0.020 mg/kg	<0.020
MANGANESE, Mn	1.65 mg/kg	83.8
NICKEL, Ni	1.65 mg/kg	5.76
LEAD, Pb	1.65 mg/kg	14.7
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	21.7

Preformed by SW-846 Method 6010

Michael Arnold

Laboratory Director

Client: ACT	Client ID: 2540 FDNY (SD 18 {0-2ft})
Date received: 10/15/01	Laboratory ID: 0121321
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540 FDNY (SD 18 {0-2ft})
Date received: 10/15/01	Laboratory ID: 0121321
Date extracted: 10/16/01	Matrix: Soil
Date analyzed: 10/16/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Richard Vendetti
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIALabs@...

Client: ACT	Client ID: 2540 FDNY (SD 18 {0-2ft})
Date received: 10/15/01	Laboratory ID: 0121321
Date extracted: 10/22/01	Matrix: Soil
Date analyzed: 10/22/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	15.7
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	7.75
COPPER, Cu	1.65 mg/kg	9.50
IRON, Fe	1.65 mg/kg	9,727
MERCURY, Hg	0.020 mg/kg	0.06
MANGANESE, Mn	1.65 mg/kg	67.9
NICKEL, Ni	1.65 mg/kg	3.37
LEAD, Pb	1.65 mg/kg	4.39
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	17.0

Preformed by SW-846 Method 6010

Michael Verrill
Laboratory Director

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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: ACT

CONTACT: P. Stewart
PHONE: 631-293-4992
FAX: 631-293-4986

SAMPLER (SIGNATURE): Paul P. Stewart — DATE: 10/19/01 — TIME:
SAMPLER NAME (PRINT): Paul P. Stewart

SAMPLE(S) SEALED: YES / NO
CORRECT CONTAINER(S): YES / NO

PROJECT LOCATION: 2540-FDNY

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

ANALYSIS REQUIRED

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	EPA 8260	13 Heavy Metals	# OF CONTAINERS
0121575	S	C	Ice	SD-13 (20-22 ft)	X		1-4oz
0121576	S	C	Ice	SD-16 (0-4 ft)	X	X	1-4oz
0121577	SL	C	Ice	SD-12 (0-2 ft)	X	X	1-4oz

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL
TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON PRES ICE, HCL, H_2SO_4, NAOH

TURNAROUND REQUIRED: NORMAL ☒ STAT ☐ BY / /

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Steven Walls	DATE 10/19/01 TIME 5:50	Steven Walls	Gary Saunders	DATE 10/19/01 TIME 5:49	
	DATE TIME			DATE TIME	

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273

October 29, 2001

Paul Stewart
Advanced Cleanup Technologies
117 Verdi Street
Farmingdale, NY 11735

Re: 2540-FDNY

Dear Mr. Stewart:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on October 19, 2001. Long Island Analytical Laboratories analyzed the samples on October 25, 2001 for the following:

CLIENT ID	ANALYSIS
SD 13 (20-22ft)	EPA 8260
SD 16 (0-4ft)	EPA 8260, 13 Heavy Metals
SD 12 (0-2ft)	EPA 8260, 13 Heavy Metals

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Confidential

Client: ACT	Client ID: 2540-FDNY (SD-13 (20-22ft))
Date received: 10/19/01	Laboratory ID: 0121575
Date extracted: 10/24/01	Matrix: Soil
Date analyzed: 10/24/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Confidential

Client: ACT	Client ID: 2540-FDNY (SD-13 {20-22ft})
Date received: 10/19/01	Laboratory ID: 0121575
Date extracted: 10/24/01	Matrix: Soil
Date analyzed: 10/24/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (SD-16 {0-4ft})
Date received: 10/19/01	Laboratory ID: 0121576
Date extracted: 10/23/01	Matrix: Soil
Date analyzed: 10/23/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	17
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540-FDNY (SD-16 {0-4ft})
Date received: 10/19/01	Laboratory ID: 0121576
Date extracted: 10/23/01	Matrix: Soil
Date analyzed: 10/23/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	47
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	444
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Laboratory Director

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Confidential

Client: ACT	Client ID: 2540-FDNY (SD-16 {0-4ft})
Date received: 10/19/01	Laboratory ID: 0121576
Date extracted: 10/25/01	Matrix: Soil
Date analyzed: 10/25/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	1.65
ARSENIC, As	6.60 mg/kg	6.60
BARIUM, Ba	3.33 mg/kg	52.6
CADMIUM, Cd	1.65 mg/kg	<1.65
CHROMIUM, Cr	1.65 mg/kg	19.4
COPPER, Cu	1.65 mg/kg	172
IRON, Fe	1.65 mg/kg	14,670
MERCURY, Hg	0.020 mg/kg	0.08
MANGANESE, Mn	1.65 mg/kg	54.2
NICKEL, Ni	1.65 mg/kg	27.4
LEAD, Pb	1.65 mg/kg	124
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	75.8

Preformed by SW-846 Method 6010

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (SD-12 {0-2ft})
Date received: 10/19/01	Laboratory ID: 0121577
Date extracted: 10/24/01	Matrix: Sludge
Date analyzed: 10/24/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5,000
BROMOBENZENE	108-86-1	<5,000
BROMOCHLOROMETHANE	74-97-5	<5,000
BROMODICHLOROMETHANE	75-27-4	<5,000
BROMOFORM	75-25-2	<5,000
BROMOMETHANE	74-83-9	<5,000
n-BUTYLBENZENE	104-51-8	<5,000
sec-BUTYLBENZENE	135-98-8	<5,000
tert-BUTYLBENZENE	98-06-6	<5,000
CARBON TETRACHLORIDE	56-23-5	<5,000
CHLOROBENZENE	108-90-7	<5,000
CHLORODIBROMOMETHANE	124-48-1	<5,000
CHLOROETHANE	75-00-3	<5,000
CHLOROFORM	67-66-3	157,572
CHLOROMETHANE	74-87-3	<5,000
2-CHLOROTOLUENE	95-49-8	<5,000
4-CHLOROTOLUENE	106-43-4	<5,000
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5,000
1,2-DIBROMOETHANE	106-93-4	<5,000
DIBROMOMETHANE	74-95-3	<5,000
1,2-DICHLOROBENZENE	95-50-1	<5,000
1,3-DICHLOROBENZENE	541-73-1	<5,000
1,4-DICHLOROBENZENE	106-46-7	<5,000
DICHLORODIFLUOROMETHANE	75-71-8	<5,000
1,1-DICHLOROETHANE	75-34-3	316,989
1,2-DICHLOROETHANE	107-06-2	<5,000
1,1-DICHLOROETHENE	75-35-4	228,108
cis-1,2-DICHLOROETHENE	156-59-2	5,356
trans-1,2-DICHLOROETHENE	156-60-5	<5,000

MDL's are raised due to high levels of target compounds.

Confidential

Client: ACT	Client ID: 2540-FDNY (SD-12 {0-2ft})
Date received: 10/19/01	Laboratory ID: 0121577
Date extracted: 10/24/01	Matrix: Sludge
Date analyzed: 10/24/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5,000
1,3-DICHLOROPROPANE	142-28-9	<5,000
2,2-DICHLOROPROPANE	594-20-7	<5,000
1,1-DICHLOROPROPENE	563-58-6	<5,000
ETHYLBENZENE	100-41-4	<5,000
HEXACHLOROBUTADIENE	87-68-3	<5,000
ISOPROPYLBENZENE	98-82-8	<5,000
p-ISOPROPYLTOLUENE	99-87-6	<5,000
METHYLENE CHLORIDE	75-09-2	22,911
NAPHTHALENE	91-20-3	<5,000
n-PROPYLBENZENE	103-65-1	<5,000
STYRENE	100-42-5	<5,000
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5,000
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5,000
TETRACHLOROETHENE	127-18-4	<5,000
TOLUENE	108-88-3	22,148
1,2,3-TRICHLOROBENZENE	87-61-6	<5,000
1,2,4-TRICHLOROBENZENE	120-82-1	<5,000
1,1,1-TRICHLOROETHANE	71-55-6	65,000,000
1,1,2-TRICHLOROETHANE	79-00-5	<5,000
TRICHLOROETHENE	79-01-6	3,900,000
TRICHLOROFLUOROMETHANE	75-69-4	<5,000
1,2,3-TRICHLOROPROPANE	96-18-4	<5,000
1,3,5-TRIMETHYLBENZENE	108-67-8	<5,000
1,2,4-TRIMETHYLBENZENE	95-63-6	5,406
VINYL CHLORIDE	75-01-4	<5,000
ACETONE	62-64-1	<50,000
CARBON DISULFIDE	75-15-0	<5,000
2-BUTANONE (MEK)	78-93-3	<10,000
VINYL ACETATE	108-05-4	<5,000
2-HEXANONE	591-78-6	<5,000
p & m-XYLENE	1330-20-7	<10,000
o-XYLENE	1330-20-7	<5,000

MDL's are raised due to high levels of target compounds.

Michael Arnold

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

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Client: ACT	Client ID: 2540-FDNY (SD-12 {0-2ft})
Date received: 10/19/01	Laboratory ID: 0121577
Date extracted: 10/25/01	Matrix: Sludge
Date analyzed: 10/25/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	31.2
ARSENIC, As	6.60 mg/kg	12.2
BARIUM, Ba	3.33 mg/kg	1,226
CADMIUM, Cd	1.65 mg/kg	7.85
CHROMIUM, Cr	1.65 mg/kg	1,233
COPPER, Cu	1.65 mg/kg	299
IRON, Fe	1.65 mg/kg	27,603
MERCURY, Hg	0.020 mg/kg	0.12
MANGANESE, Mn	1.65 mg/kg	1,894
NICKEL, Ni	1.65 mg/kg	1,328
LEAD, Pb	1.65 mg/kg	224
SELENIUM, Se	1.65 mg/kg	1.65
ZINC, Zn	1.65 mg/kg	496

Preformed by SW-846 Method 6010

Michael Verrill
Laboratory Director

ISLAND ANALYTICAL LABORATORIES INC.
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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS	CONTACT: PSTEWART	SAMPLER (SIGNATURE)	DATE	TIME	SAMPLE(S) SEALED
ACT	PHONE: 631-293-4992	Steven Walls	10-30-01	1:30	(YES) / NO
	FAX: 631-293-4986	SAMPLER NAME (PRINT)			CORRECT CONTAINER(S) (YES) / NO
		STEVEN WALLS			

PROJECT LOCATION: 2540-FDNY

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

LABORATORY ID #	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	ANALYSIS REQUIRED: EPA 8260	13 HEAVY METALS	# OF CONTAINERS
0121952	S	C	ICE	SD-12A (3'-4')	X	X	1-8oz
0121953	S	C	ICE	SD-12A (6'-8')	X	X	1-8oz
				SD-12A (0-8')			

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL
TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON **PRES** ICE, HCL, H_2SO_4, NAOH

TURNAROUND REQUIRED: (24 Hour)
NORMAL ☐ STAT ☐ BY 10/31/01

COMMENTS / INSTRUCTIONS: Needed by 10/31/01 5pm

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Steven Walls	10/31/01 3:20	Steven Walls	K Clark	10/31 3:20	K Clark
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

WHITE - OFFICE / CANARY - LAB / PINK - SAMPLE CUSTODIAN / GOLDENROD - CLIENT NYSDOH ELAP# 11693 USEPA# NY01273

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ANALYTICAL
LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

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NYSDOH ELAP# 11693
USEPA# NY01273

October 31, 2001

Paul Stewart
Advanced Cleanup Technologies
117 Verdi Street
Farmingdale, NY 11735

Re: 2540-FDNY

Dear Mr. Stewart:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on October 30, 2001. Long Island Analytical Laboratories analyzed the samples on October 31, 2001 for the following:

CLIENT ID	ANALYSIS
SD-12A (3'-4')	EPA 8260, 13 Heavy Metals
SD-12A (6'-8')	EPA 8260, 13 Heavy Metals

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Confidential

Client: ACT	Client ID: 2540-FDNY (SD-12A {3'-4'})
Date received: 10/30/01	Laboratory ID: 0121952
Date extracted: 10/30/01	Matrix: Soil
Date analyzed: 10/30/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540-FDNY (SD-12A {3'-4'})
Date received: 10/30/01	Laboratory ID: 0121952
Date extracted: 10/30/01	Matrix: Soil
Date analyzed: 10/30/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verrastro
Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (SD-12A {3'-4'})
Date received: 10/30/01	Laboratory ID: 0121952
Date extracted: 10/31/01	Matrix: Soil
Date analyzed: 10/31/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	378
CADMIUM, Cd	1.00 mg/kg	<1.00
CHROMIUM, Cr	1.65 mg/kg	30.0
COPPER, Cu	1.65 mg/kg	<1.65
IRON, Fe	1.65 mg/kg	1,173
MERCURY, Hg	0.020 mg/kg	<0.020
MANGANESE, Mn	1.65 mg/kg	11.6
NICKEL, Ni	1.65 mg/kg	11.5
LEAD, Pb	1.65 mg/kg	163
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	8.50

Preformed by SW-846 Method 6010

Michael Arnold
Laboratory Director

Client: ACT	Client ID: 2540-FDNY (SD-12A {6'-8'})
Date received: 10/30/01	Laboratory ID: 0121953
Date extracted: 10/30/01	Matrix: Soil
Date analyzed: 10/30/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540-FDNY (SD-12A {6'-8'})
Date received: 10/30/01	Laboratory ID: 0121953
Date extracted: 10/30/01	Matrix: Soil
Date analyzed: 10/30/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Arnold

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Confidential

Client: ACT	Client ID: 2540-FDNY (SD-12A {6'-8'})
Date received: 10/30/01	Laboratory ID: 0121953
Date extracted: 10/31/01	Matrix: Soil
Date analyzed: 10/31/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BARIUM, Ba	3.33 mg/kg	296
CADMIUM, Cd	1.00 mg/kg	<1.00
CHROMIUM, Cr	1.65 mg/kg	32.4
COPPER, Cu	1.65 mg/kg	2.06
IRON, Fe	1.65 mg/kg	2,534
MERCURY, Hg	0.020 mg/kg	<0.020
MANGANESE, Mn	1.65 mg/kg	17.7
NICKEL, Ni	1.65 mg/kg	19.1
LEAD, Pb	1.65 mg/kg	117
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	13.8

Preformed by SW-846 Method 6010

Richard Vensild

Laboratory Director

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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: ACT

CONTACT: P. Stewart
PHONE: 293-4992
FAX: 293-4986

SAMPLER (SIGNATURE): [signature] DATE: 11/5/01 TIME:

SAMPLER NAME (PRINT): Paul P. Stewart

SAMPLE(S) SEALED: YES / NO
CORRECT CONTAINER(S): YES / NO

PROJECT LOCATION: 2540-FDNY

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

ANALYSIS REQUIRED

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	SCDOH HSL VOCs	SCDOH HSL Metals	EPA 8260	TCLP Vol	TCLP Met	# OF CONTAINERS
0122206	S	C	Ice	SD-12 (7½ ft)	X	X				1-8oz
0122207	S	C	Ice	SD-12 (10-12ft)	X	X				1-8oz
0122208	W	G	Ice	TW-01 (30ft)	X	X				2-40ml 1-250ml
0122209	W	G	Ice	TW-01 (45ft)	X	X				2-40ml 1-250ml
0122210	W	G	Ice	TW-01 (60ft)	X	X				2-40ml 1-250ml
0122211	W	G	Ice	TW-02 (30ft)	X	X				2-40ml 1-250ml
0122212	W	G	Ice	TW-02 (45ft)	X	X				2-40ml 1-250ml
0122213	W	G	Ice	TW-02 (60ft)	X	X				2-40ml 1-250ml
0122214	S	C	Ice	Rolloff #1			X	X	X	1-8oz

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL
TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON PRES ICE, HCL, H_2SO_4, NAOH

TURNAROUND REQUIRED: NORMAL ☑ STAT ☐ BY / /

COMMENTS / INSTRUCTIONS: Please Call re: Rolloff #1

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Steven Walls	DATE 11/6/01 TIME 9:00	Steven Walls	K Clark	DATE 11/6 TIME 10:00	K Clark
	DATE TIME			DATE TIME	

WHITE - OFFICE / CANARY - LAB / PINK - SAMPLE CUSTODIAN / GOLDENROD - CLIENT NYSDOH ELAP# 11693 USEPA# NY01273

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.

"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"

Confidential

NYSDOH ELAP# 11693
USEPA# NY01273

November 8, 2001

Paul Stewart
Advanced Cleanup Technologies
117 Verdi Street
Farmingdale, New York 11735

Re: 2540-FDNY

Dear Mr. Stewart:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on November 6, 2001. Long Island Analytical Laboratories, Inc. analyzed the samples on November 7, 2001 for the following:

CLIENT ID	ANALYSIS
SD-12 {7 1/2'}	SCDH Volatiles and Metals Analysis
SD-12 {10-12'}	SCDH Volatiles and Metals Analysis
TW-01 {30'}	SCDH Volatiles and Metals Analysis
TW-01 {45'}	SCDH Volatiles and Metals Analysis
TW-01 {60'}	SCDH Volatiles and Metals Analysis
TW-02 {30'}	SCDH Volatiles and Metals Analysis
TW-02 {45'}	SCDH Volatiles and Metals Analysis
TW-02 {60'}	SCDH Volatiles and Metals Analysis
Roll off #1	EPA 8260, TCLP Volatiles and Metals

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Client: ACT	Client ID: 2540-FDNY (SD-12 {7 ½'})
Date received: 11/6/01	Laboratory ID: 0122206
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Confidential

Client: ACT	Client ID: 2540-FDNY (SD-12 {7 ½'})
Date received: 11/6/01	Laboratory ID: 0122206
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Arnold

Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

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Client: ACT	Client ID: 2540-FDNY (SD-12 {7 ½'})
Date received: 11/6/01	Laboratory ID: 0122206
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BERYLLIUM, Be	1.65 mg/kg	<1.65
CADMIUM, Cd	1.00 mg/kg	<1.00
CHROMIUM, Cr	1.65 mg/kg	10.2
COPPER, Cu	1.65 mg/kg	57.5
MERCURY, Hg	0.020 mg/kg	<0.020
NICKEL, Ni	1.65 mg/kg	13.6
LEAD, Pb	1.65 mg/kg	2.83

Analysis by SW-846 Method 6010

Michael Verrill

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (SD-12 (10-12'))
Date received: 11/6/01	Laboratory ID: 0122207
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Confidential

Client: ACT	Client ID: 2540-FDNY (SD-12 {10-12'})
Date received: 11/6/01	Laboratory ID: 0122207
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venezia

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (SD-12 {10-12'})
Date received: 11/6/01	Laboratory ID: 0122207
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BERYLLIUM, Be	1.65 mg/kg	<1.65
CADMIUM, Cd	1.00 mg/kg	<1.00
CHROMIUM, Cr	1.65 mg/kg	40.9
COPPER, Cu	1.65 mg/kg	27.3
MERCURY, Hg	0.020 mg/kg	<0.020
NICKEL, Ni	1.65 mg/kg	15.3
LEAD, Pb	1.65 mg/kg	1.80

Analysis by SW-846 Method 6010

Michael Verrillo

Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540-FDNY (TW-01 {30'})
Date received: 11/6/01	Laboratory ID: 0122208
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	71
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	35
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<0.7
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Confidential

Client: ACT	Client ID: 2540-FDNY (TW-01 {30'})
Date received: 11/6/01	Laboratory ID: 0122208
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
Tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
Sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verrillo

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540-FDNY (TW-01 (30'))
Date received: 11/6/01	Laboratory ID: 0122208
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BERYLLIUM, Be	0.05 mg/L	<0.05
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	1.79
COPPER, Cu	0.05 mg/L	0.53
MERCURY, Hg	0.020 mg/L	<0.020
NICKEL, Ni	0.05 mg/L	0.29
LEAD, Pb	0.005 mg/L	0.64

Method: SW846, 7000 series analysis

Michael Venuti

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (TW-01 (45'))
Date received: 11/6/01	Laboratory ID: 0122209
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<0.7
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: ACT	Client ID: 2540-FDNY (TW-01 (45'))
Date received: 11/6/01	Laboratory ID: 0122209
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
Tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
Sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verrillo

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (TW-01 {45'})
Date received: 11/6/01	Laboratory ID: 0122209
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BERYLLIUM, Be	0.05 mg/L	<0.05
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.58
COPPER, Cu	0.05 mg/L	0.23
MERCURY, Hg	0.02 mg/L	<0.020
NICKEL, Ni	0.05 mg/L	0.12
LEAD, Pb	0.005 mg/L	0.11

Method: SW846, 7000 series analysis

Michael Venuti

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (TW-01 {60'})
Date received: 11/6/01	Laboratory ID: 0122210
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<0.7
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Confidential

Client: ACT	Client ID: 2540-FDNY (TW-01 (60'))
Date received: 11/6/01	Laboratory ID: 0122210
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
Tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
Sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verrillo

Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID: 2540-FDNY (TW-01 {60'})
Date received: 11/6/01	Laboratory ID: 0122210
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BERYLLIUM, Be	0.05 mg/L	<0.05
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.46
COPPER, Cu	0.05 mg/L	0.24
MERCURY, Hg	0.02 mg/L	<0.020
NICKEL, Ni	0.05 mg/L	0.15
LEAD, Pb	0.005 mg/L	0.07

Method: SW846, 7000 series analysis

Michael Verrill

Laboratory Director

Confidential

Client: ACT	Client ID: 2540-FDNY (TW-02 {30'})
Date received: 11/6/01	Laboratory ID: 0122211
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	113
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	55
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<0.7
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	6
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Confidential

Client: ACT	Client ID: 2540-FDNY (TW-02 {30'})
Date received: 11/6/01	Laboratory ID: 0122211
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
Tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
Sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venesh

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (TW-02 {30'})
Date received: 11/6/01	Laboratory ID: 0122211
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BERYLLIUM, Be	0.05 mg/L	<0.05
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.73
COPPER, Cu	0.05 mg/L	0.12
MERCURY, Hg	0.02 mg/L	<0.020
NICKEL, Ni	0.05 mg/L	0.11
LEAD, Pb	0.005 mg/L	0.036

Method: SW846, 7000 series analysis

Michael Verrillo

Laboratory Director

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Confidential

Client: ACT	Client ID: 2540-FDNY (TW-02 (45'))
Date received: 11/6/01	Laboratory ID: 0122212
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<0.7
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: ACT	Client ID: 2540-FDNY (TW-02 {45'})
Date received: 11/6/01	Laboratory ID: 0122212
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
Tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
Sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venuti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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Client: ACT	Client ID: 2540-FDNY (TW-02 (45'))
Date received: 11/6/01	Laboratory ID: 0122212
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BERYLLIUM, Be	0.05 mg/L	<0.05
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.69
COPPER, Cu	0.05 mg/L	0.69
MERCURY, Hg	0.02 mg/L	<0.020
NICKEL, Ni	0.05 mg/L	0.27
LEAD, Pb	0.005 mg/L	0.06

Method: SW846, 7000 series analysis

Michael Verrillo

Laboratory Director

Client: ACT	Client ID: 2540-FDNY (TW-02 {60'})
Date received: 11/6/01	Laboratory ID: 0122213
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<0.7
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

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Client: ACT	Client ID: 2540-FDNY (TW-02 (60'))
Date received: 11/6/01	Laboratory ID: 0122213
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
Tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
Sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Arnold

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (TW-02 {60'})
Date received: 11/6/01	Laboratory ID: 0122213
Date extracted: 11/7/01	Matrix: Liquid
Date analyzed: 11/7/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BERYLLIUM, Be	0.05 mg/L	<0.05
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	0.44
COPPER, Cu	0.05 mg/L	12.8
MERCURY, Hg	0.02 mg/L	<0.020
NICKEL, Ni	0.05 mg/L	2.01
LEAD, Pb	0.005 mg/L	0.038

Method: SW846, 7000 series analysis

Michael Verrillo
Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (Roll off #1)
Date received: 11/6/01	Laboratory ID: 0122214
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: ACT	Client ID: 2540-FDNY (Roll off #1)
Date received: 11/6/01	Laboratory ID: 0122214
Date extracted: 11/7/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<50
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE (MEK)	78-93-3	<10
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venezia

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (Roll off #1)
Date received: 11/6/01	Laboratory ID: 0122214
Date extracted: 11/6/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

TCLP VOLATILE ANALYSIS

Parameter	Regulatory Limit	Cas No.	Results ug/L
BENZENE	0.50 mg/L	71-43-2	<0.7
2-BUTANONE	0.50 mg/L	78-93-3	<10
CARBON TETRACHLORIDE	0.50 mg/L	56-23-5	<5
CHLOROBENZENE	100.0 mg/L	108-90-7	<5
CHLOROFORM	6.0 mg/L	67-66-3	<5
1,2-DICHLOROETHANE	0.50 mg/L	107-06-2	<5
1,4-DICHLOROBENZENE	7.5 mg/L	106-46-7	<5
1,1-DICHLOROETHYLENE	0.70 mg/L	75-35-4	<5
TETRACHLOROETHYLENE	0.7 mg/L	127-18-4	<5
TRICHLOROETHYLENE	0.5 mg/L	79-01-6	<5
VINYL CHLORIDE	0.20 mg/L	75-01-4	<5

Method: SW846, 1311 extraction tclp.

Michael Venuti

Laboratory Director

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Client: ACT	Client ID: 2540-FDNY (Roll off #1)
Date received: 11/6/01	Laboratory ID: 0122214
Date extracted: 11/6/01	Matrix: Soil
Date analyzed: 11/7/01	ELAP #: 11693

TCLP METALS ANALYSIS

PARAMETER	REGULATORY LIMIT	RESULTS mg/L
SILVER, Ag	5.00 PPM	<0.05
ARSENIC, As	5.00 PPM	<0.05
BARIUM, Ba	100.00 PPM	7.49
CADMIUM, Cd	1.00 PPM	0.10
CHROMIUM, Cr	5.00 PPM	0.09
MERCURY, Hg	0.20 PPM	<0.020
LEAD, Pb	5.00 PPM	<0.05
SELENIUM, Se	1.00 PPM	<0.05

Method: SW846, 1311 extraction tclp, 7000 series analysis

Michael Verrillo

Laboratory Director

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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS	CONTACT: PSTEWART	SAMPLER (SIGNATURE)	DATE	TIME	SAMPLE(S) SEALED	YES / NO
ACT	PHONE: 293-4992 x12		11-27-01			
	FAX: 293-4986	SAMPLER NAME (PRINT) KEITH Holley			CORRECT CONTAINER(S)	YES / NO

PROJECT LOCATION: 2540-FDNY

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month.

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	ANALYSIS REQUIRED: SCOMS VOCs (MeOH)	# OF CONTAINERS
0122949	L	G	ICE	MW-06	X	1-250mL plastic HNO3, 2-40mL glass
0122950	S	C	ICE	SD-12B 20-21	X	1-8oz
0122951	S	C	ICE	SD-12B 23-25	X	1-40mL

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL

TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON PRES ICE, HCL, H_2SO_4, NAOH

TURNAROUND REQUIRED: NORMAL ☒ STAT ☐ BY / /

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Keith Holley	11-29-01	Keith Holley	K Clark	11/29 9:45	K Clark
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273

December 4, 2001

Paul Stewart
Advanced Cleanup Technologies
115 Rome Street
Farmingdale, NY 11735

Re: 2540-FDNY

Dear Mr. Stewart:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on November 29, 2001. Long Island Analytical Laboratories analyzed the samples on December 3, 2001 for the following:

CLIENT ID	ANALYSIS
MW-06	SCDH Metals/Volatiles
SD-12B (20-21)	SCDH Metals/Volatiles
SD-12B (23-25)	SCDH Metals/Volatiles

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Confidential

Client: ACT	Client ID:2540 FDNY (MW-06)
Date received: 11/29/01	Laboratory ID: 0122949
Date extracted: 11/30/01	Matrix: Liquid
Date analyzed: 11/30/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<0.7
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: ACT	Client ID:2540 FDNY (MW-06)
Date received: 11/29/01	Laboratory ID: 0122949
Date extracted: 11/30/01	Matrix: Liquid
Date analyzed: 11/30/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
Tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
Sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
XYLENES, Total	1330-20-7	<15

Laboratory Director

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Client: ACT	Client ID:2540 FDNY (MW-06)
Date received: 11/29/01	Laboratory ID: 0122949
Date extracted: 12/3/01	Matrix: Liquid
Date analyzed: 12/3/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ARSENIC, As	0.05 mg/L	<0.05
BERYLLIUM, Be	0.05 mg/L	<0.05
CADMIUM, Cd	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	<0.05
MERCURY, Hg	0.020 mg/L	<0.002
NICKEL, Ni	0.05 mg/L	<0.05
LEAD, Pb	0.005 mg/L	0.018

Method: SW846, 7000 series analysis

Richard Vendetti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: ACT	Client ID:2540 FDNY (SD-12B {20-21})
Date received: 11/29/01	Laboratory ID: 0122950
Date extracted: 11/30/01	Matrix: Soil
Date analyzed: 11/30/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Confidential

Client: ACT	Client ID:2540 FDNY (SD-12B {20-21})
Date received: 11/29/01	Laboratory ID: 0122950
Date extracted: 11/30/01	Matrix: Soil
Date analyzed: 11/30/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<50
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<10
METHYL ISOBUTYL KETONE	108-10-1	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verrastro
Laboratory Director

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Client: ACT	Client ID:2540 FDNY (SD-12B {20-21})
Date received: 11/29/01	Laboratory ID: 0122950
Date extracted: 12/3/01	Matrix: Soil
Date analyzed: 12/3/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BERYLLIUM, Be	1.65 mg/kg	<1.65
CADMIUM, Cd	1.00 mg/kg	<1.00
CHROMIUM, Cr	1.65 mg/kg	19.4
COPPER, Cu	1.65 mg/kg	1.96
MERCURY, Hg	0.020 mg/kg	<0.020
NICKEL, Ni	1.65 mg/kg	3.05
LEAD, Pb	1.65 mg/kg	119

Analysis by SW-846 Method 6010

Michael Arnold

Laboratory Director

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Client: ACT	Client ID:2540 FDNY (SD-12B (23-25))
Date received: 11/29/01	Laboratory ID: 0122951
Date extracted: 11/30/01	Matrix: Soil
Date analyzed: 11/30/01	ELAP #: 11693

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: ACT	Client ID:2540 FDNY (SD-12B {23-25})
Date received: 11/29/01	Laboratory ID: 0122951
Date extracted: 12/3/01	Matrix: Soil
Date analyzed: 12/3/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	<6.60
BERYLLIUM, Be	1.65 mg/kg	<1.65
CADMIUM, Cd	1.00 mg/kg	<1.00
CHROMIUM, Cr	1.65 mg/kg	14.5
COPPER, Cu	1.65 mg/kg	<1.65
MERCURY, Hg	0.020 mg/kg	<0.020
NICKEL, Ni	1.65 mg/kg	<1.65
LEAD, Pb	1.65 mg/kg	18.1

Analysis by SW-846 Method 6010

Richard Vandl

Laboratory Director

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