REMEDIAL INVESTIGATION REPORT
WEST 57TH STREET PROJECT
601-657 WEST 57TH STREET
NEW YORK, NEW YORK
NYSDEC SPILL NO.: 98-10172

ATC PROJECT NUMBER 18346-0001
March 24, 2000

Prepared for:
The Durst Organization, Inc.
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March 24, 2000

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Re: ATC Project No. 15-18346-0001
Remedial Investigation
West 57th Street Project
NYSDEC Spill No. 98-10172

Dear Mr. Sigona:

ATC Associates Inc.(ATC) is submitting the attached Remedial Investigation Report for the referenced site for your review. Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

ATC Associates Inc.

David M. Winslow, Ph.D.
Subsurface Investigation and Remediation
Group Manager

cc: Michael Terzano, DURST Organization
James Ground, GCI Environmental Advisory Inc.
Gregory Johnson, Greatwood Management Company, LLC

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1.0 EXECUTIVE SUMMARY

ATC Associates Inc. (ATC) has been retained by The Durst Organization, Inc. to investigate the extent of petroleum-contaminated groundwater and soils at the property located between West 57th Street and West 58th Street between 11th Avenue and 12th Avenue, in Manhattan, New York ("Site"). An annotated United States Geologic Survey 7.5-minute series quadrangle map (Central Park, N.Y) showing the Site location, topography, drainage and cultural patterns is provided in Figure 1.

The scope of this Remedial Investigation, which augments the data provided in ATC's Focused Subsurface Investigation (The ATC Report), dated December 10, 1998, was as follows: 1) to determine if soil in the vicinity of the remote underground storage tank (UST) fill locations had been impacted by petroleum releases; 2) to determine the impact of soil contamination associated with operation of former and active USTs on groundwater quality beneath the Site; 3) to evaluate the groundwater flow/gradient in the vicinity of the Site; and 4) to evaluate the potential for off-Site migration of groundwater petroleum contamination. The Remedial Investigation scope of work included the following activities: 1) Geoprobe investigation, 2) monitoring well installation, 3) monitoring well survey, 4) groundwater sampling and analysis, and 5) report preparation.

Fifteen borings were advanced as part of this investigation. Five monitoring wells were installed. Soil samples from each boring were collected from the interval exhibiting the greatest field evidence of petroleum contamination. Please refer to Figure 4 the boring locations. This approach to sample collection presents the "worst case" scenario in terms of soil contamination.

Volatile organic compounds (VOCs) were detected in subsurface soil above New York State Department of Environmental Conservation Spill Technology and Remediation Series Memo No. 1 – Petroleum-Contaminated Soil Guidance Policy (NYSDEC STARS Memo) Alternative Guidance Values in soil samples from six borings. These compounds included benzene, toluene, ethylbenzene, m&p xylenes, o-xylenes, isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, p-isopropylbenzene, n-butylbenzene, and naphthalene. Semivolatile organic compounds (SVOCs) above NYSDEC STARS Memo Alternative Guidance Values were detected in soils collected from five borings. These compounds included a number of the polyaromatic hydrocarbons (PAHs) on the NYSDEC STARS Memo analyte list. The PAHs are a result of both fill material and petroleum.

One hydrogeologic zone of concern occurs beneath the Site, a shallow unconsolidated water table aquifer occurring above bedrock consisting of mica-schists and gneiss. The water table aquifer consists of unconsolidated fmc-SANDS and fmc-gravels. A discontinuous organic-rich silt-clay layer occurs at approximately 5-8' bgs on the southwest side of the Site. The water table occurs at approximately 13' bgs on the west side of the Site. Groundwater was

not encountered above the bedrock on the eastern side of the Site. Groundwater flows to the west towards the Hudson River. The hydraulic gradient west of MW-5 is 0.0048 feet/feet. East of MW-5 the hydraulic gradient is steeper. This is likely due to the occurrence of bedrock at shallower depths on the east side of the Site.

The laboratory results of the groundwater samples indicate dissolved benzene ethylbenzene, toluene, and xylenes (BTEX) concentrations in the five monitoring wells installed at the Site. The groundwater sampling results indicated that VOCs above New York State Ambient Groundwater Quality Criteria (GWQC) were detected in monitoring wells MW-1, MW-3, and MW-5. Benzene was detected in monitoring wells MW-1, MW-3 and MW-5 at one to three orders of magnitude above the GWQC for this compound. The remaining contaminant concentrations ranged from one to two orders of magnitude above their respective GWQC. In addition, the previous ATC Report indicated that groundwater contamination was greatest in the vicinity of the Potamkin Service Center. Minor concentrations of VOCs were detected beneath the Airborne Express and Artkraft Strauss Sign Company facilities.

It is apparent from the contaminant distribution that groundwater beneath the Airborne Express facility contains the greatest concentrations of BTEX. It does not appear that contaminated groundwater is migrating off-Site to any significant degree. The monitoring wells located on the sidewalks of 57th Street and 58th Street contain nondetectable to 180 ppb (MW-3) of dissolved BTEX. This data shows little or no lateral or cross gradient dispersion. In addition, the previous Report indicated that groundwater contamination was primarily confined to the Airborne Express and Potamkin facilities. Groundwater under the downgradient portion of the Airborne facility contained nondectable concentrations of dissolved BTEX. Groundwater beneath the Artkraft Sign Company, the most downgradient extent of the Site, contained only 130 ppb of Xylenes. These previous groundwater samples were collected with Geoprobes, and thus likely contained suspended sediments.

Based on the results of this study, the estimated amount of petroleum-contaminated soil beneath the Site is approximately 21,000 tons. This estimate includes soil that has contaminant concentrations below regulatory clean-up guidance values, but exhibits petroleum odors necessitating special handling an disposal if removed during construction excavation work. The tenant areas that contain the largest amount of impacted soil are the Potamkin Service and Airborne Express facilities. ATC does not recommend that the petroleum contamination along the sidewalks be excavated. ATC believes that source removal from under the building slabs, together with capping, will reduce the contaminant load to groundwater so that the impact to groundwater will be minimized. ATC recommends monitoring of soil quality during excavation. On-site segregation of contaminated soil from unaffected material will be performed through field-screening techniques. The contaminated soils will be properly transported to an appropriate facility for proper disposal or recycling. During soil excavation activities, any underground storage tanks (USTs) that are encountered will be removed for proper off-site disposal.

Although the groundwater contamination is relatively minor and no significant off-Site migration has been documented, it is a remote possibility that construction dewatering may contain elevated hydrocarbons. Based upon the groundwater sample results this is unlikely. Therefore, prior to construction, monitoring well MW-5 will be sampled and analyzed for the following parameters: Total Petroleum Hydrocarbons, ignitability, corrosivity, cadmium, copper, cyanide, lead, mercury, nickel, and zinc (as per New York City Sewer Use Regulations, 15, RCNY 19-01 et seq.). The results of these analyses will determine if the dewatering effluent can be discharged to the New York City Sewer and Stormwater System. ATC has been informed that excavation open-hole construction for proposed Site development will be approximately three months in duration. ATC recommends that if necessary, any dewatering system that operates during that period be modified to treat contaminated groundwater as it is removed from the construction areas. Treatment can be performed using large carbon-filtration units during dewatering.

ATC recommends that the residual groundwater contamination be monitored on a quarterly basis beginning in March 2000. Following the removal of contaminated soils during construction, groundwater should be monitored for one year. If the results of the groundwater monitoring indicate a steady state plume or a decreasing plume, the contaminant load would be less than the attenuation rate and the active NYSDEC Spill Number should be closed. ATC recommends that a qualitative exposure assessment and contaminant fate transport modeling be undertaken to aid in Site closure decisions. All monitoring wells will then be properly abandoned in accordance with NYSDEC protocols.

2.0 INTRODUCTION

2.1 Objective

The objectives of the Remedial Investigation are as follows: 1) supplement the petroleum soil contamination data acquired during ATC's previous investigation; 2) to determine the impact of the source area contamination on groundwater beneath the Site; 3) determine if soils beneath the former remote fills have been impacted by petroleum releases, and 4) recommend the appropriate remedial option to address the absorbed-phase and dissolved-phase petroleum contamination at the Site.

2.2 Site Location and Description

The Site is located between 57th Street and 58th Street and between 11th Avenue and 12th Avenues, in New York, New York. The Site is rectangular, approximately 160,000 square feet in size, and contains eleven (11) parcels leased to various tenants.

2.3 Site History

The Site contains eleven (11) parcels leased by various occupants as listed below:

Artkraft Strauss Sign Company Facility, 820-838 12th Avenue, designs, constructs, and repairs commercial signs. This facility is located at the west end of the Site. The first floor of the two-story concrete structure is used for parts storage, metalworking and woodworking equipment, painting, and storage of vehicles. This property was originally part of a large lumberyard until the existing structure was built in 1925, and originally contained the Brockway Motor Truck Company and Stutz (or State) Service Station. A private garage and repair shop occupied the building by 1951. Artkraft had occupied the building by 1976. A prior Phase I Environmental Site Assessment Report by GCI Environmental Advisory, Inc., dated June 1998 (the GCI Report) indicated that up to 14 gasoline USTs and a single fuel oil AST were historically present at this parcel.

Airborne Express Facility, 631-649 West 57th Street, is an L-shaped, two-story concrete building used for parcel receiving, routing and delivery. This facility is located in the central protion of the Site. The structure, built in 1916, originally housed the Colt Stewart Co./Chrysler Service Station. United Parcel Service, Inc. occupied the building by 1940. A gasoline leak was reported in 1948. The New York City Fire Department (NYCFD) ordered hydrostatic tightness testing on the USTs, the tests were performed, and the tanks passed to the NYCFD's satisfaction. The order also directed the occupant to "clean oil separator" and "repair floor drains and keep same clean." A notarized sworn statement, dated October 1963, from Gas Service Maintenance, on behalf of Don Allen Pontiac, states that the Gas Service Maintenance "discontinued use of 6 underground buried tanks; removed all gasoline and filled with water; and capped, and sealed and cemented all lines." A crankcase waste oil tank was reportedly installed in 1964, although its size and location are unknown.

Airborne Express Facility, 640-648 West 57th Street, is presently a paved parking area occupied by Airborne Express vehicles. The parking area is located on the north side of the Airborn Express Parcel. It was originally part of the S. E. Kellar Lumber Company. A 1926 Sanborn fire insurance map identifies a single story "Auto Repair Shop" at the location. In 1972, this lot, along with the Airborne building noted above, was occupied by New York Telephone, which, according to the GCI Report, installed two (2) USTs located in the area of the present Airborne parking area. One is reported to be a 1,080-diesel fuel UST, the other a 2,500-gallon unleaded gasoline UST. The USTs are presently inactive and have been closed in place. The pumps have been removed. It has been reported that these two USTs were properly abandoned inplace prior to ATC's Remedial Investigation.

Potamkin Toyota Service Facility, 622 West 58th Street, 623-629 West 57th Street, is a three-story building utilized for car service (ground floor) and auto storage. This facility is located in the central portion of the Site. The building occupies the former site of Lieberman and Sanford Iron Works, which was housed in a steel-framed skeleton shed built prior to 1907. By 1951, Bell Transportation System operated a garage and repair facility at the Site in a building constructed in 1928. The Sanborn maps of the early 1990s describe use of this site as a "Taxi Garage and Repair." The GCI Report states that there may be up to 13 USTs beneath the Potamkin Service Area floor, including a 4,000 gallon waste oil tank which was reportedly recently cleaned out and taken out of service. It is unknown whether these tanks are still present.

The Copacabana Facility, 615-621 West 57th Street, is a single-story building that traverses the block between 57th Street and 58th Street. This facility is located in the east-central portion of the Site. The Copacabana property was also part of the lumberyard in the early part of the century. The 58th Street side was a wooden storage building in 1926, while the 57th Street side was part of a garage. In 1980, both sections apparently were garages. The Copacabana is first identified in the 1995 Sanborn pap and occupies the structures depicted as garages in the 1980 Sanborn map. Two 550-gallon gasoline tanks were identified as buried at the 58th Street side of the building as early as the 1926 Sanborn map. ATC was unable to access the building during the prior subsurface investigation or this study.

The Goodyear Tire and Rubber Company Facility, 607-613 West 57th Street, occupies a "single-story building" east of the Copacabana, although there is a second floor over the sales and office area on the west side of the structure. Originally part of the New York Lumber Yard, the 1926 Sanborn map indicates the presence of an auto service station with two buried 550-gallon gasoline tanks. The building was listed as a tire service and storage operation by 1951. Two to four former USTs were identified in the GCI Report, along with eight to ten hydraulic lifts and associated underground hydraulic oil tanks.

Manhattan Mini Storage Facility, 847-853 Eleventh Avenue, consists of a six story concrete framed structure at the corner of West 58th Street and 11th Avenue at the northeast side of the Site. The structure is presently utilized as rented storage lockers/rooms. The GCI Report indicates no USTs have been located on this parcel. There is an adjacent parking area on West 58th Street. The parcel originally was part of the New York Lumber & Storage Co. A railroad siding entered the parcel at the corner of West 57th Street and 11th Avenue and to the western side of the present parking area.

Dynasty Auto Body Facility, 616-618 West 58th Street, occupies a small two-story wood-framed building east of the Copacabana. This property was originally part of a "rented stalls and wagon yard" in 1907. An auto repair shop is shown on the 1926 Sanborn map, with notation of two buried 550-gallon gasoline tanks. This facility has reportedly been used as an auto body repair and painting facility since at least 1980. ATC was unable to access the building during the prior subsurface investigation or this current study.

Potamkin Toyota Sales Facility, 601 West 57th Street and 839-845 11th Avenue, consists of one three-story concrete building and one single-story building. These parcels were originally part of the Lilpatrick and Roylance Lumber Co. operation, and subsequently as the New York Lumber Yard Co. and W.H. Sidway Lumber Yard operations at the turn of the century. A General Motors Truck Co. parts and service operation occupied both parcels by 1926. The 1926 Sanborn Map noted two buried 550-gallon gasoline tanks in the area. Sanborn maps subsequent to 1951, identify the parcel only as "Auto Sales & Service." A heating oil tank is reportedly present as an aboveground storage tank (AST) placed on the basement concrete slab. The location of the two USTs are not known. ATC was unable to access the building during the initial subsurface investigation. The GCI report concludes that, beyond the few active USTs at the Site, little is known about the actual closure of the USTs reported in the early Sanborn Maps and other records. The locations of the USTs were not recorded in Site plans or NYFD documentation for the Site. ATC focused the 1998 subsurface investigation on known and suspected UST locations based on the presence of vent pipes, old fill ports, and recollections of on-site personnel. Soil boring locations were also controlled by space and access limitations. Due to access restrictions, ATC did not advance soil borings in the following tenant spaces: the Copacabana, Goodyear Sales Office, and Potamkin Toyota Sales. Parts of the Goodyear Service Area overlay a sub-basement with limited access.

2.4 Summary of Previous Environmental Investigations

A total of two (2) environmental site assessments and investigations were conducted on the Site between June 1998 and December 1998. These assessments and investigations included the following: 1) Phase I Environmental Site Assessment of West 57th Street Property (GCI Report), prepared by GCI, on behalf of the Durst Organization, dated June 1998; and 2) Focused Subsurface Investigation, West 57th Street Property, prepared by ATC Associates Inc. (ATC Report), on behalf of GCI Environmental Advisory, Inc, dated December 10, 1998.

A summary of the results of each of the aforementioned assessments, investigations and reviews is given below.

2.4.1 GCI Environmental Advisory, Inc., Phase I Environmental Site Assessment, June 1998

The GCI Report indicated a history of automotive and truck sales and service conducted at multiple locations on the Site. The regulatory agency database investigation, Site visits and historical records indicated the presence of multiple USTs at locations throughout the Site. Most of the USTs were reportedly not in use and were filled and abandoned in the 1960s. GCI recommended a subsurface soil and groundwater investigation program to determine if contamination is present in the vicinity of the USTs.

2.4.2 ATC Associates Inc., Focused Subsurface Site Investigation, December 1998

The ATC Report revealed areas of soil and groundwater contamination at the Site. These conditions are the result of historical releases petroleum releases from multiple on-site existing and removed gasoline USTs, waste oil USTs, as well as historic fill. The ATC Report estimated that approximately 20,600 tons of petroleum-contaminated soils were present beneath the Site. This estimate included soil that has contaminant concentrations below regulatory clean-up guidance values, but exhibits petroleum odors necessitating special handling and disposal if removed during construction excavation work. The tenant areas that contain the largest amount of impacted soil are the Potamkin Service and Airborne Express facilities. An area of petroleum-contaminated groundwater is present primarily beneath the Airborne Express and Potamkin Service facilities at the Site. In addition, soil and groundwater was analyzed for RCRA Metals and chlorinated hydrocarbons. Localized, minor exceedances of lead, mercury, arsenic, cadmium, and trichloroethene were detected. However, the volume and magnitude of these contaminants was unlikely to cause the soils to be treated as a hazardous waste during disposal. The ATC Report recommended a Remedial Investigation to delineate the extent of soil and groundwater for remediation design purposes. Figure 3 provides the previous boring locations. Appendix E provides a summary of the laboratory results for soil and groundwater samples collected during the previous investigation.

3.0 ENVIRONMENTAL CHARACTERISTICS

3.1 Site Topography

According to the USGS Topographic Map, Central Park Quadrangle of dated 1969, the elevation of the Site is approximately 10'-30' above mean sea level. The Site slopes downward to the west and southwest towards the Hudson River. Figure 1 provides a copy of the USGS Topographic Map.

3.2 Site Geology

According to the information in the 1989 Geological Map of New York State, ATC's prior report, and this current study, the near-surface material was found to consist of fill with varying thicknesses beneath the Site. The fill material consisted of cmf-SANDS, some cmf-gravel, little silt, cinders, slag, ash and concrete. An organic-rich silty clay layer was encountered on the southwest side of the Site at depths of 5'-8' bgs. Beneath the organic-rich silt layer brown cmf SAND and cmf-GRAVEL with a trace of silt was encountered. Refusals on what is presumed to be bedrock were encountered at depths of 7' to 9' bgs on the east side of the Site (borings BD-3, GY-7, GY-6, and PSALES-1). Bedrock was encountered at 17' bgs at monitoring well MW-4. Bedrock consists of Precambrian age muscovite-biotite schists.

3.3 Site Hydrogeology

Groundwater at the Site occurs in the shallow unconsolidated material at depths of 7' to 13' bgs. The hydraulic conductivity is expected to be moderate to low given the subsurface geology. Groundwater was found above the bedrock aquifer. However, no groundwater was observed in boring PSALES-1 where refusal was encountered due to bedrock at 9' bgs.

Water is supplied to the Site by New York City. New York City receives its drinking water from surface reservoirs located in upstate New York.

4.0 REMEDIAL INVESTIGATION

4.1 Geoprobe Soil Boring Investigation

On November 8 and 9, 1999, ATC advanced thirteen (13) borings along the perimeter of the Site on the sidewalks. The borings were biased towards the former petroleum remote fill lines located on the sidewalks bordering the Site. The soil samples were screened in the field with a photoionization detector (PID) and for visual and olfactory evidence of petroleum contamination. The samples which exhibited the greatest evidence of petroleum contamination above the soil/groundwater interface were collected for laboratory analysis. This approach to sample collection presents the "worst case" scenario in terms of soil contamination. Two soil samples each were collected from borings PO-5 and AX-14 in an attempt to delineate the vertical extent of soil contamination at the Site. The soil samples were transferred into appropriate sample containers, packed on ice in a cooler, shipped under proper chain of custody to SciLab Albany Inc. (ELAP # 10358), located in Albany, New York, and analyzed for VOCs and SVOCs in accordance with EPA Methods 8021 and 8270, respectively. A total of fifteen (15) soil samples were collected and analyzed. Figure 4 provides the boring locations.

4.2 Monitoring Well Installation

On November 10, November 15, and December 7, 1999, ATC installed five (5) 2" inside diameter monitoring wells, using a truck mounted rotary drill rig, equipped with 4 ¼" ID continuous flight hollow stem augers, in order to determine if groundwater quality had been impacted by the documented petroleum-contaminated soils. Although the Remedial Investigation Work Plan indicated that continuous split spoon samples would be collected during monitoring well installation, ATC decided not to collect spilt spoon samples during well installation. This was due to the close proximity of the monitoring wells to Geoprobe sampling points, which provided adequate characterization of the subsurface soils. Monitoring wells MW-1, MW-2, and MW-3 were installed to 23' bgs respectively. Monitoring well MW-4 was installed to 18.5' bgs. MW-5 was installed to 25' bgs. The wells were constructed of 2" inside diameter schedule 40 PVC pipes. The screened portion of each well consisted of 10-20' of 0.02" slotted PVC pipe. The wells extended 10' into the water table. The screens and risers were connected using threaded couplings. The screened portion of each well was packed with #0 sand pack. A 1.5' thick bentonite seal was placed above the filter pack and the annulus was filled with drill cuttings that did not exhibit field evidence of contamination. The wells were protected with a 8" diameter, flush-mounted steel manhole set in a concrete pad. Watertight locking gripper plugs were placed at the top of the PVC casing to prevent unauthorized entry. Monitoring well installation details are provided in Appendix D. Figure 5 provides the monitoring well locations.

4.3 Groundwater Development and Sampling

On December 7 and 8, 1999, ATC developed groundwater monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5. During development at least 5 well volumes of groundwater were removed with peristaltic pump using dedicated high-density polyethylene tubing. The tubing was moved throughout the saturated zone during development. The wells were developed until the effluent was visibly clear of suspended sediments. On December 10, 1999, ATC collected groundwater samples from monitoring wells MW-1, MW-2, MW-3, and MW-5. On December 15, ATC collected a groundwater sample from MW-4. Four (4) well volumes of groundwater were purged from all of the sampled wells, using dedicated polyethylene tubing attached to a peristaltic pump, prior to sampling. All groundwater samples were placed in properly preserved, laboratory-supplied glassware, packed on ice in a cooler, and shipped under proper chain of custody to SciLab, Albany. All groundwater samples were analyzed for VOCs and SVOCs in accordance with EPA Methods 8021 and 8270.

4.4 Monitoring Well Survey and Groundwater Gradient

On January 11, 1999, ATC surveyed the five monitoring wells to determine their respective casing elevations. All units are on arbitrary datums. The elevations shown are referenced to an arbitrary bench mark having an assumed elevation of 100'. Prior to sampling, ATC measured the depth to groundwater using a sonic interface probe. The depth to water was then subtracted from the casing elevations to obtain the groundwater elevation at each monitoring well. The groundwater elevations were used to calculate the groundwater gradient and flow at the Site. Table 1 shows the depth to water, casing elevations and groundwater elevations of each monitoring well. The groundwater gradient is portrayed in Figure 6.

Table 1. Groundwater Gauging Data

Well No.	Dept to Water (feet)	Relative Casing Elevation (feet)	Groundwater Elevation (feet)
MW-1	14.12	101.57	87.45
MW-2	7.72	94.24	86.52
MW-3	11.45	98.77	87.32
MW-4	10.18	106.63	96.45
MW-5	12.98	100.69	87.71

4.5 Health and Safety

A Site-specific Health and Safety Plan was prepared for all investigative activities conducted at the Site. Environmental air monitoring was conducted during Site activities using a PID. All ATC personnel involved in field activities are Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response trained and certified. A copy of the Health and Safety Plan which fulfills the OSHA requirements under 29 CFR 1910.120 is presented in Appendix A.

5.0 REMEDIAL INVESTIGATION RESULTS

5.1 Soil Sampling Results

All soil samples were screened in the filed using a Rae Instruments MiniRAE Plus photoionization detector (PID) as well as visual and olfactory means. The PID was calibrated in the field at the beginning of each working day. Soil samples were screened with the PID by cutting open the 4' macrocore acetate sleeve and placing the PID inlet adjacent to the soil column at one foot intervals. Field screening results are summarized below in Table 2.

Table 2. Field Screening Results

Depth (ft)	PID Readings												
	GY-6	COPA-1	GY-7	AX-14	PO-5	BD-4	AX-15	PSALES-1	AX-16	AX-17	AK-9	BD-3	AX-18
1	20.3	0.1	27.2	332	102	0	0	0.6	0	0.1	4.8	0.3	0.8
2	81.8	0.2	4.1	751	773	0	0.1	1.1	0	0.4	2.1	0.2	1.1
3	108	0.5	111	1245	1385	0	2.8	0.6	0.2	1.0	2.2	0.7	1.5
4	120	0.4	2.3	401	1629	0	5.4	0.4	0.2	2.2	1.9	0.6	1.8
5	10.2	1.1	1.1	1283	386	0.8	0	0.2	0.5	1.2	1.7	1.1	0
6	4.3	1.2	2.4	484	470	NA	0	0.1	0.6	2.7	2.5	2.2	1.2
7	0.2	16.7	2.7	1160	1727	NA	0	0.4	0.8	3.0	1.8	4.0	1.2
8	2.1	115	NA	1486	898	NA	0	0.1	1.1	3.3	4.1	3.8	36.7
9	NA	25.7	NA	1045	796	NA	1.6	0	0	0.2	NA	NA	94.6
10	NA	54.0	NA	1464	102	NA	0	1.0	0.5	1.2	NA	NA	136
11	NA	77.0	NA	288	397	NA	0	1.1	1.5	2.2	2.1	NA	256
12	NA	86.4	NA	1568	950	NA	0	1.8	1.9	2.8	0.6	NA	362
13	NA	64.8	NA	NA	1182	NA	0	NA	1.2	0.2	19	NA	309
14	NA	56.5	NA	1337	1365	NA	0	NA	14	1.7	10.9	NA	709
15	NA	445	NA	393	1261	NA	0	NA	20.2	24.4	3.4	NA	1461
16	NA	1223	NA	51.9	1565	NA	0	NA	112	7.5	2.2	NA	929
17	NA	658	NA	133	NA	NA	NA	NA	NA	NA	NA	NA	NA
18	NA	1258	NA	69	NA	NA	NA	NA	NA	NA	NA	NA	NA
19	NA	1020	NA	9.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
20	NA	1023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

All concentrations in parts per million
NA: No PID Reading Obtained

The current investigaiton indicates PID readings in borings GY-6 and GY-7 decreased with depth. PID readings in borings BD-4, AX-15, PSALES-1, and BD-3 were either minor or nondetect. PID readings from borings AX-18 and COPA-1 indicate that contamination begins at depths of 8' and 7' respectively and continues to the water table. PID readings from AX-16, AX-17 and AK-9 indicate low concentrations of soil contamination in the shallow intervals increasing with depth. PID readings from AX-14 and PO-5 indicate elevated concentrations across the entire length of the borings.

A total of fifteen soil samples from thirteen borings were submitted for analysis of VOCs and SVOCs in accordance with the NYSDEC STARS Memo. Table 3 presents a summary of the results of the soil analysis. The complete laboratory report is presented in Appendix B. A number of individual VOCs were detected above NYSDEC STARS Memo Alternative Guidance Values in soil samples from borings GY-6, PO-5, COPA-1, AX-14, AX-16, and AX-18. These compounds included benzene, toluene, ethylbenzene, m&p xylenes, o-xylenes, isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, p-isopropylbenzene, n-butylbenzene, and naphthalene. Less than half of the fifteen soil samples contained VOCs above NYSDEC STARS Memo Alternative Guidance Values.

SVOCs above NYSDEC STARS Memo Alternative Guidance Values were detected in borings GY-6, PO-5, AX-14, COPA-1, and AK-9. These compounds included a number of the polyaromatic hydrocarbons on the NYSDEC STARS Memo analyte list. Of the twelve soil samples submitted for analysis of SVOCs, only five contained SVOCs above the NYSDEC STARS Memo Alternative Guidance Values.

For those borings in which PID readings were elevated throughout the soil column, ATC collected 2 soil samples to determine the vertical distribution of soil contamination. ATC collected 2 soil samples from borings PO-5 and AX-14. The laboratory results indicated that VOCs above NYSDEC STARS Memo Alternative Guidance Values exist from 6' bgs to the water table. The laboratory results from boring AX-14 indicate that the contamination is found from 11-12' bgs. The second sample from each of borings PO-5 and AX-14 were analyzed only for VOCs in order to confirm the presence of contamination at multiple depths.

Figure 4 shows the boring locations with their respective total VOC concentrations. Boring locations were selected based upon the presence of former remote fills to former USTs. Boring numbers PO-5 COP-1, AX-14, AX-18 and GY-6 contained the concentrations of VOCs above their respective NYSDEC STARS Memo Alternative Guidance Values. Based on the contaminant distribution, soils in the vicinities of the former remote fills in front of the Airborne Express facility, the Copacabana, an the Goodyear tire and services have been impacted by petroleum releases.

ATC noted significant amounts of fill material beneath the Site. The fill contained asphalt, cinders, slag, wood, and ash. These materials likely contribute to the SVOC concentrations detected at the Site.

5.2 Groundwater Sampling Results

The groundwater laboratory results are summarized in Table 4. The complete laboratory report is provided in Appendix C. The groundwater sampling results indicated that VOCs above NYSDEC GWQC were detected in monitoring wells MW-1, MW-3, and MW-5. Benzene was detected in monitoring wells MW-1, MW-3 and MW-5 at concentrations of 1, 58, and 800 ug/l. The remaining contaminant concentrations are less than two orders of

magnitude above their respective GWQC. Total BTEX concentrations in MW-1, MW-3, and MW-5 are 12, 180, and 982 ug/l, respectively.

Groundwater samples from MW-4 contained no VOCs above laboratory detection limits. Therefore, the contamination does not appear to be coming on site from the southeast direction.

No SVOCs were detected above laboratory detection limits.

Figure 5 shows the monitoring well locations and their respective BTEX concentrations. It is apparent from the contaminant distribution that groundwater beneath the Airborne Express facility contains the greatest concentrations of BTEX. It does not appear that contaminated groundwater is migrating off-Site to any significant degree. The monitoring wells located on the sidewalks of 57th Street and 58th Street contain nondetectable to 180 ppb (MW-3) of dissolved BTEX.

In addition, the previous ATC Report indicated that groundwater contamination was primarily confined to the Airborne Express and Potamkin facilities. Groundwater under the downgradient portion of the Airborne facility contained nondectable concentrations of dissolved BTEX. Groundwater beneath the Artkraft Sign Company, the most downgradient extent of the Site, contained only 130 ppb of Xylenes. These previous groundwater samples were collected with Geoprobes, and thus likely contained suspended sediments, resulting in false positives.

5.3 Groundwater Gradient

ATC prepared a Groundwater Gradient Map using groundwater elevation data measured on December 4, 1998. This map shows that groundwater flows to the west towards the Hudson River. The hydraulic gradient west of MW-5 is 0.0048 feet/feet. East of MW-5 the hydraulic gradient is steeper. This is likely due to the occurrence of bedrock at shallower depths on the east side of the Site. Groundwater Gradient Map is shown in Figure 6

6.0 Conclusions and Recommendations

6.1 Hydrogeology

One hydrogeologic zone of concern occurs beneath the Site, a shallow unconsolidated water table aquifer occurring above bedrock consisting of mica-schists and gneiss. The water table aquifer consists of unconsolidated fmc-SANDS and fmc-gravels. A discontinuous organic-rich silt-clay layer occurs at approximately 5-8' bgs on the southwest side of the Site. The water table occurs at approximately 13' bgs on the west side of the Site. Groundwater was not encountered above the bedrock on the eastern side of the Site. Groundwater flows to the west towards the Hudson River. The hydraulic gradient west of MW-5 is 0.0048 feet/feet. East of MW-5 the hydraulic gradient is steeper. This is likely due to the occurrence of bedrock at shallower depths on the east side of the Site.

6.2 Petroleum-contaminated Soils (Based Upon this Investigation and Previous Investigations

Petroleum-contaminated soils above NYSDEC STARS Memo Alternative Guidance Values was detected in soil samples from seven of the thirteen soil borings advanced during this investigation. The soil borings were biased towards former remote fills to petroleum USTs at the Site. The field screening and analytical results indicate that contamination in boring BD-4 is not significantly above background.

1. Soil samples from PSALES-1 indicate low concentrations (less than 1.1 ppm) across the entire boring. The analytical results from soil samples from PSALES-1 did not indicate any contaminants above NYSDEC STARS Memo Alternative Guidance Values.
2. PID readings from BD-3 indicate low concentrations across the entire boring. The analytical results from BD-3 did not indicate any contaminants above NYSDEC STARS Memo Alternative Guidance Values.
3. PID readings in borings GY-6 and GY-7 decreased with depth.
4. PID readings from borings AX-18 and COPA-1 indicate that contamination begins at depths of 8' and 7' respectively and continues to the water table. VOCs were detected above NYSDEC STARS Memo Alternative Guidance Values in these soil samples. The source of this contamination is unclear but may be a result of a former UST or subsurface transport vertically through heterogeneous soils.
5. PID readings from AX-16, AX-17 and AK-9 indicate low concentrations of soil contamination in the shallow intervals and increase with depth. Contaminants were detected above NYSDEC STARS Memo Alternative Guidance Values in these soil samples.
6. PID readings from AX-14 and PO-5 indicate elevated concentrations across the entire length of the borings. Contaminants were detected above NYSDEC STARS Memo Alternative Guidance Values in these soils samples.

Based upon the distribution of soil contamination as compared to groundwater contamination, it appears that the Site has reached a state of attenuation. This is evident by the presence of soil contamination above the water table (i.e. 2,700 ppb of benzene in AX-18) associated with much lower groundwater concentrations (benzene in MW-1 at 1 ppb).

The laboratory results from ATC's previous Focused Subsurface Site Investigation indicated the following conditions at each parcel:

6.2.1 Artkraft Strauss Sign Company Facility

Field observations and laboratory results indicate what appears to be limited petroleum contamination in soil in the vicinity of two borings advanced near two USTs on the south side of the facility. Elevated levels of petroleum constituent (VOCs) were detected in a thin soil layer in boring AKSS-3 at the 2.5 to 3.0-foot depth, and at the seven-foot depth in AKSS-1. VOC contamination originating from petroleum was found in borings advanced in the vicinity of two USTs at the north side of the facility. The VOC contamination was present in soils between seven and nine feet in AKSS-5, and in a thin layer between 7.7 and 8.0 feet in AKSS-7.

SVOCs were detected by the laboratory in seven soil samples at concentrations exceeding NYSDEC STARS Alternative Guidance Values.

Soil contamination beneath the Artkraft facility does not appear to be extensive. However, this material may require special handling and disposal if proposed development of the Site includes excavation in this area. Further, at least four USTs will require removal prior to construction excavation activities. On-site characterization will be required to isolate contaminated soil from unaffected soil for proper disposal.

6.2.2 *Airborne Express Facility*

The past investigation revealed the presence of VOC contamination in soils collected from five borings advanced near 12 gasoline USTs at the southeast quadrant of the facility. The investigation in the vicinity of the waste oil UST and the former hydraulic lifts in the center of the facility indicate that SVOC and VOC contaminants are present in the soil just above the water table. The SVOC contamination maybe the result of historic releases from the waste oil tank or hydraulic fluid system. Since the VOC contamination was found in soils directly above the water table, ATC concludes that this contamination is found within the capillary fringe.

Two of the soil samples collected from the vicinity of the two USTs in the Airborne parking area exhibited VOCs exceeded NYSDEC STARS Alternative Guidance Values by at least one order of magnitude. SVOCs were detected in these samples at concentrations were below NYSDEC STARS Alternative Guidance Values. Laboratory analysis of soil samples from AIRX-13 (southwest section, near the Artkraft facility, at a greater distance from the

USTs) exhibited undetected VOC concentrations, and SVOC levels below NYSDEC STARS Alternative Guidance Values.

In summary, significant areas of soil contamination from on-site USTs sources are present at this facility. This material may require special handling and disposal during Site development.

6.2.3 Potamkin Service Facility

The past investigation revealed VOC contamination in each of the four borings installed within in the Potamkin Service facility, that were likely caused by petroleum releases from abandoned USTs. SVOC contamination in soil was also detected. This material may require special handling and during Site development.

6.2.4 Goodyear Service Facility

The operating service area, the presence of a subbasement, and concrete rubble beneath the floor slab limited the investigation at the Goodyear facility. No VOCs were detected in the limited soil sampling conducted but samples collected in the vicinity of the waste oil UST (in the center of the facility) indicate SVOC contamination in the soil just above the water table.

6.2.5 Manhattan Mini Storage Parking/Dynasty Auto Body Facilities

Soil samples from BODY-2 and MINI-1 contained SVOC concentrations above NYSDEC STARS Alternative Guidance Values, and lead concentrations above NYSDEC TAGM Eastern USA Background Levels. Laboratory analysis of soil samples found no VOC contamination.

6.3 Groundwater Contamination

The groundwater sampling results indicated that VOCs above NYSDEC GWQC were detected in monitoring wells MW-1, MW-3, and MW-5. Benzene was detected in monitoring wells MW-1, MW-3 and MW-5 at one to three orders of magnitude above the GWQC for this compound. The remaining contaminant concentrations were up to two orders of magnitude above their respective GWQC.

It is apparent from the contaminant distribution that groundwater beneath the Airborne Express facility contains the greatest concentrations of BTEX. It does not appear that contaminated groundwater is migrating off-Site to any significant degree. The monitoring wells located on the sidewalks of 57th Street and 58th Street contain nondetectable to 180 ppb (MW-3) of dissolved BTEX. In addition, ATC's previous Report indicated that groundwater contamination was primarily confined to the Airborne Express and Potamkin facilities.

Groundwater under the downgradient portion of the Airborne facility contained nondectable concentrations of dissolved BTEX. Groundwater beneath the Artkraft Sign Company, the most downgradient extent of the Site, contained only 130 ppb of Xylenes. These previous groundwater samples were collected with Geoprobes, and thus likely contained suspended sediments, resulting in false positives.

Based upon the presence of large chain VOC compounds such as toleune and 1,3,5-trimethylbenzene with the comparatively lower concentrations of the more biodegradable compounds such as benzene, it appears that the groundwater contamination is old and not related to any new releases.

Based upon these results ATC concludes that the documented soil contamination at the Site has had a limited impact on groundwater quality beneath the Site. It appears that the petroleum releases are old and that a steady state equilibrium has been reached between the contamination present in the soil and groundwater resulting in attenuation of the contaminants by the mechanisms of sorption and degradation. ATC has documented VOCs above NYSDEC STARS Alternative Guidance Values in what appears to be the capillary fringe. However, groundwater VOC concentrations are not severe and no separate-phase product was detected in the on-site monitoring wells. Minimal off-Site migration of VOCs has been observed.

6.4 RECOMENDATIONS

Based on the results of this study, petroleum-contaminated soil beneath the Site will need to be excavated during Site development. The current plans for the Site include demolition fo the existing structures and excavation beneath the water table to construct a multi-story office building. The handling of contaminated soils and groundwater will be discussed in the future as part of the construction phase of this project. Prior to construction, a Soil Management Plan will be prepared and submitted to the NYSDEC for review and acceptance. ATC does not recommend that the petroleum contamination along the sidewalks be excavated. ATC believes that source removal from under the building slabs will be sufficient since the Site has reached a state of attenuation. ATC recommends monitoring of soil quality during excavation. On-site segregation of contaminated soil from unaffected material will be performed through field-screening techniques. The contaminated soils will be properly disposed of and will be discussed in a Soil Management Plan as part of the construction phase. During soil excavation activities, any underground storage tanks (USTs) that are encountered will be removed, properly cleaned, and disposed of.

Based upon the groundwater sampling results, it is a unlikely that construction dewatering effluent treatment will be required. Dewatering issues will be discussed as part of the construction phase.

ATC recommends that the residual groundwater contamination be monitored on a quarterly basis for one year beginning with the December, 1999 sampling period. The results between the rounds should be compared using the Relative Percent Difference (RPD) method described in SW-846. If the results do not indicate a significant difference between sampling rounds then the groundwater monitoring should be suspended. All monitoring wells will then be properly abandoned in accordance with NYSDEC protocols.

Table 3. Soil Laboratory Results November 1999

SAMPLE NAME/#		B-GY6	GY-7	PO5	PO5	COPA1	AX14	AX14	AX15	AX16	AX17	PSALES	AK9	BD-3	BD-4	AX18	NYSDEC
Depth		3-4'	1-2'	6-7'	15-16'	15-16	11-12'	18-19'	8.5-9.5'	11-12'	14.5-15.5'	8-9'	14.5-15.5'	6-7'	4-5'	13.5-14.5	Standards*
VOCs:	Units																
Methyl t-butyl ether	µg/kg	ND	ND	ND	ND	1500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Benzene	µg/kg	ND	ND	ND	860	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2700	14
Tolulene	µg/kg	ND	ND	26000	5400	1800	7400	2	ND	450	ND	ND	ND	ND	ND	2700	100
Ethylbenzene	µg/kg	ND	ND	49000	ND	16000	34000	4	ND	ND	ND	ND	ND	ND	ND	3600	100
M&P Xylene	µg/kg	ND	ND	320000	14000	34000	130000	14	ND	260	ND	ND	ND	4	ND	9800	100
O-Xylene	µg/kg	12000	ND	240000	29000	12000	75000	7	ND	ND	ND	ND	ND	ND	ND	3900	100
Isopropylbenzene	µg/kg	15000	ND	24000	37000	7900	21000	ND	ND	ND	ND	ND	ND	ND	ND	6100	100
n-Propylbenzene	µg/kg	52000	ND	59000	120000	14000	62000	5	ND	3000	ND	ND	ND	ND	ND	12000	100
1,3,5-Trimethylbenzene	µg/kg	ND	ND	140000	7600	23000	43000	6	ND	ND	ND	ND	ND	ND	ND	3500	100
tert-Butylbenzene	µg/kg	19000	3	29000	9900	3600	20000	ND	ND	2900	ND	ND	ND	ND	ND	4700	100
1,2,4-Trimethylbenzene	µg/kg	19000	ND	400000	29000	72000	110000	ND	ND	2700	ND	ND	ND	ND	ND	ND	100
sec-Butylbenzene	µg/kg	32000	2	30000	31000	5700	12000	ND	ND	1700	ND	ND	ND	ND	ND	2600	100
p-Isopropyltoluene	µg/kg	ND	ND	83000	19000	3300	18000	ND	ND	1200	ND	ND	ND	ND	ND	1200	100
n-Butylbenzene	µg/kg	58000	4	320000	44000	35000	45000	17	ND	1500	ND	ND	ND	ND	ND	8100	100
Naphthalene	µg/kg	360000	12	130000	16000	11000	12000	38	ND	1900	ND	ND	ND	ND	ND	1800	200
BNs:																	
Napthalene	µg/kg	54000	ND	29000	NA	1600	NA	260J	ND	ND	ND	ND	420J	ND	NA	ND	1000
Acenapthene	µg/kg	7600J	ND	8500	NA	ND	NA	340J	ND	ND	ND	ND	220J	ND	NA	ND	400
Fluorene	µg/kg	15000	ND	2400	NA	ND	NA	260J	ND	ND	ND	ND	170J	ND	NA	ND	1000
Phenanthrene	µg/kg	33000	ND	22000	NA	430	NA	1500	ND	ND	270J	140J	1200	ND	NA	ND	1000
Anthracene	µg/kg	3000J	ND	9600	NA	130J	NA	420J	ND	ND	ND	ND	260J	ND	NA	ND	1000
Fluoranthene	µg/kg	ND	ND	47000	NA	250J	NA	590	ND	260J	290J	270J	1200	ND	NA	ND	1000
Pyrene	µg/kg	3500J	ND	110000	NA	1100	NA	2300	ND	700	440	280J	1600	ND	NA	ND	1000
Chrysene	µg/kg	ND	ND	31000	NA	ND	NA	460J	ND	170J	140J	ND	ND	ND	NA	ND	330
Benzo(a)anthracene	µg/kg	ND	ND	53000	NA	ND	NA	1100	ND	180J	180J	ND	ND	ND	NA	ND	330
Benzo(b)fluoranthene	µg/kg	ND	ND	36000	NA	ND	NA	580	ND	230J	ND	ND	ND	ND	NA	ND	330
Benzo(k)fluoranthene	µg/kg	ND	ND	23000	NA	ND	NA	230J	ND	120J	ND	ND	ND	ND	NA	ND	330
Benzo(a)pyrene	µg/kg	ND	ND	46000	NA	ND	NA	900	ND	150J	ND	ND	ND	ND	NA	ND	330
Indeno (1,2,3-cd) Pyrene	µg/kg	ND	ND	31000	NA	ND	NA	620	ND	ND	ND	ND	ND	ND	NA	ND	330
Dibenzo(a,h)Anthracene	µg/kg	ND	ND	8500	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	1000
Benzo(g,h,i)perylene	µg/kg	ND	ND	25000	NA	ND	NA	650	ND	ND	ND	ND	ND	ND	NA	ND	330

**NYSDEC Standards - NYSDEC STARS Memo Alternative Soil Guidance Values*

Results in shaded boxes indicate concentrations in exceedance of NYSDEC STARS Memo Alternative Guidance Values

ND= None Detected

J=Detected, but below background. Result is an estimate

NA=Not Analyzed for this parameter

Table 4
Groundwater Laboratory Results December 1999

SAMPLE #		MW-1	MW-2	MW-3	MW-4	MW-5	NYSDEC Standards*
VOCs:	Units						
Methyl tert-butyl ether	ug/l	45	ND	6	ND	110	5
Benzene	ug/l	1	ND	58	ND	800	0.7
Toluene	ug/l	1	ND	4	ND	59	5
Ethylbenzene	ug/l	9	ND	21	ND	74	5
M&P Xylene	ug/l	1	ND	70	ND	35	10
O-Xylene	ug/l	ND	ND	27	ND	14	5
Isopropylbenzene	ug/l	3	ND	23	ND	170	5
n-Propylbenzene	ug/l	7	ND	12	ND	390	5
1,3,5-Trimethylbenzene	ug/l	3	ND	20	ND	ND	5
tert-Butylbenzene	ug/l	ND	ND	ND	ND	ND	5
1,2,4-Trimethylbenzene	ug/l	ND	ND	37	ND	ND	5
sec-Butylbenzene	ug/l	1	ND	3	ND	31	5
p-Isopropyltoluene	ug/l	1	1	3	ND	ND	5
n-Butylbenzene	ug/l	6	ND	7	ND	78	5
Naphthalene	ug/l	ND	ND	10	ND	70	5
Total Xylenes	ug/l	ND	ND	97	ND	49	5
SVOCs:							
Acenapthene	ug/l	ND	ND	ND	ND	ND	50
Fluorene	ug/l	ND	ND	ND	ND	ND	0.002
Phenanthrene	ug/l	ND	ND	ND	ND	ND	0.002
Anthracene	ug/l	ND	ND	ND	ND	ND	0.002
Fluoranthene	ug/l	ND	ND	2J	ND	ND	0.002
Pyrene	ug/l	ND	ND	2J	ND	ND	0.002
Chrysene	ug/l	ND	ND	ND	ND	ND	0.002
Benzo(a)anthracene	ug/l	ND	ND	ND	ND	ND	50
Benzo(b)fluoranthene	ug/l	ND	ND	ND	ND	ND	50
Benzo(k)fluoranthene	ug/l	ND	ND	ND	ND	ND	50
Benzo(a)pyrene	ug/l	ND	ND	ND	ND	ND	0.002
Indeno (1,2,3-cd) Pyrene	ug/l	ND	ND	ND	ND	ND	10
Dibenzo(a,h)Anthracene	ug/l	ND	ND	ND	ND	ND	50
Benzo(g,h,i)perylene	ug/l	ND	ND	ND	ND	ND	50

J=Detected, but result is an estimate

ND=Not Detected

****=NYSDEC Ambient Groundwater Quality Criteria***

Shased boxes indicate concentrations above Ambient Groundwater Quality Criteria

Figure 1. U.S.G.S. Topographic Map

FIGURE 1: USGS TOPOGRAPHIC MAP

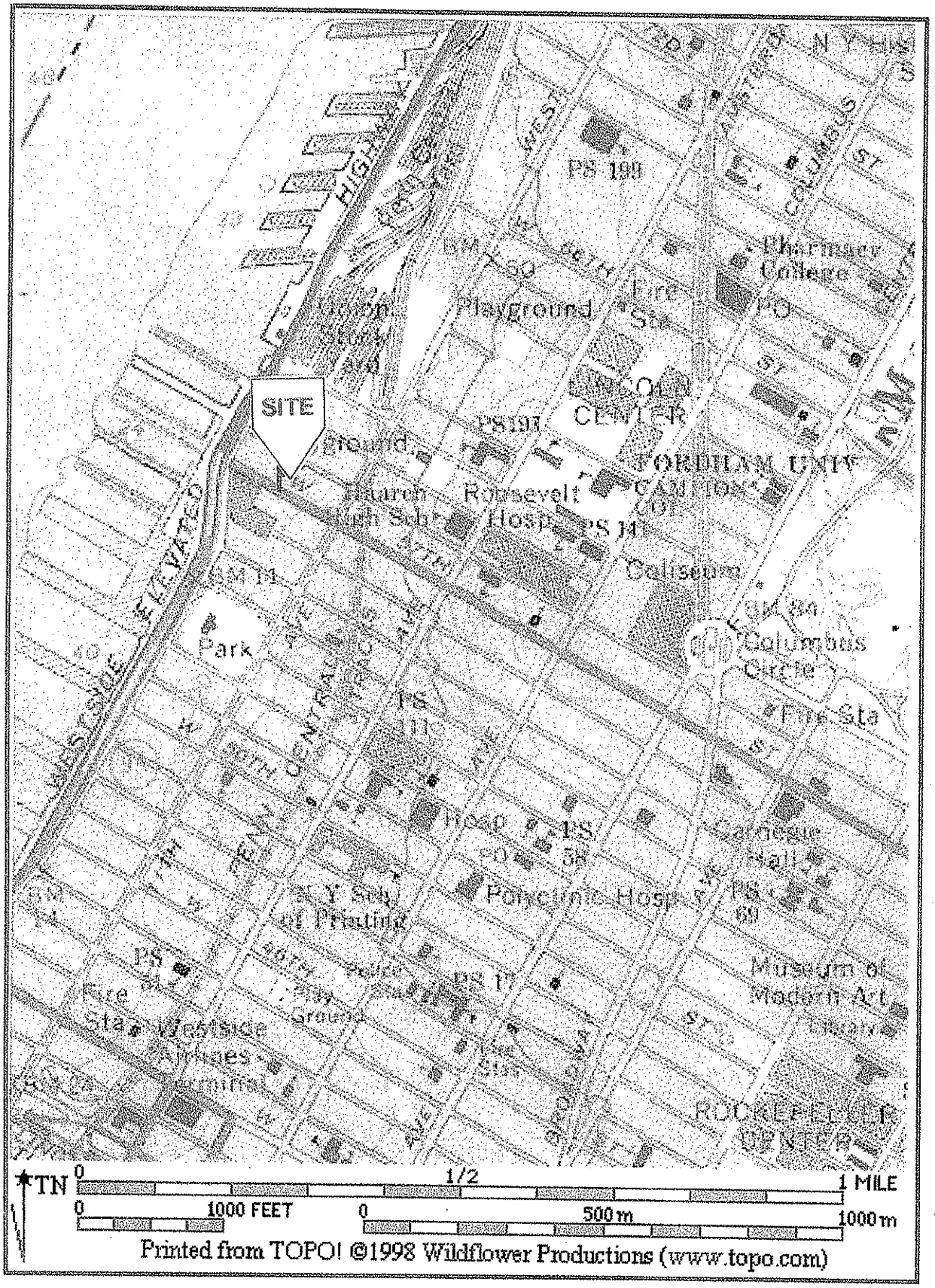
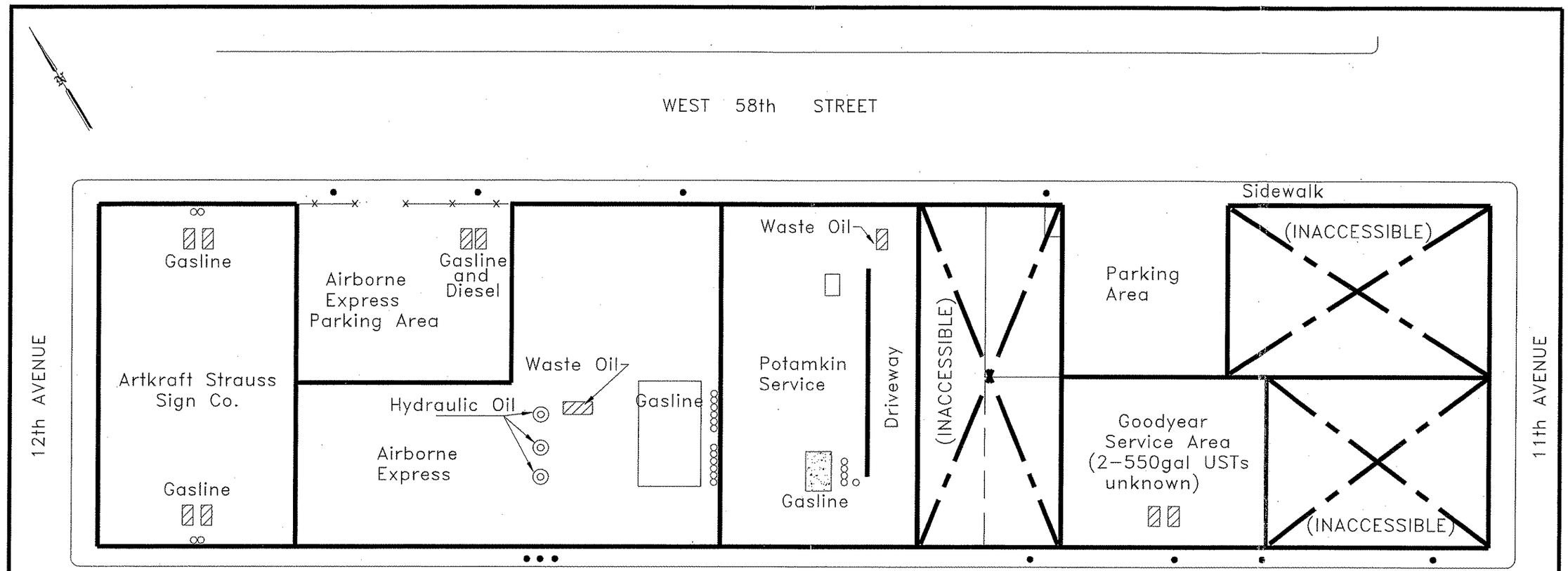


Figure 2. Site Plan



LEGEND

- SUSPECTED UST
- KNOWN UST
- UST VENT PIPE
- HYDRAULIC LIFT
- UST FILL PORT

0 50' 100' 150' 200'

APPROXIMATE SCALE

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS
104 E. 25th Street, 10th Floor • New York, NY 10010-2917
(212) 353-8280 • FAX: (212) 353-8306

Title: SITE PLAN
Client: THE DURST ORGANIZATION
Date: 01/12/2000

ATC PROJECT No. 18346.0001

Project Name
DURST WEST 57th STREET
NEW YORK N. Y.
REMEDIAL INVESTIGATION

FIGURE 2

K:\HILL\CAD\ATC\18346.001\SK-1

Figure 3. Previous Boring Location Map and Sample Results

WEST 58th STREET

12th AVENUE

11th AVENUE

WEST 57th STREET

VOC=ND
SVOC=ND

AKASS-4
AKASS-5
AKASS-7
AKASS-6
AKASS-8

VOC=130
SVOC=ND

Artkraft Strauss
Sign Co.

AKASS-3
AKASS-2
AKASS-1

AIRX-12
AIRX-11
AIRX-10

Airborne
Express
Parking Area

AIRX-13

VOC=202
SVOC=20

VOC=ND
SVOC=ND

Airborne
Express

AIRX-5

VOC=59

AIRX-7
AIRX-4
AIRX-6
AIRX-8
AIRX-3
AIRX-9
AIRX-2
AIRX-1

POTK-1
POTK-2

VOC=21,800
SVOC=390

Potamkin
Service

POTK-3
POTK-4

(INACCESSIBLE)

BODY-1
BODY-2
MINI-3

Parking
Area

Sidewalk

(INACCESSIBLE)

GDYR-1
GDYR-2

Locked
Storage

Goodyear
Service Area

GDYR-3
GDYR-5
GDYR-4

Sub
Base-
ment

(INACCESSIBLE)

VOC=ND
SVOC=ND

VOC=102
SVOC=ND

VOC=180
SVOC=ND

LEGEND

- SUSPECTED UST
- KNOWN UST
- UST VENT PIPE
- HYDRAULIC LIFT
- UST FILL PORT
- SOIL BORING

APPROXIMATE SCALE

0 50' 100' 150' 200'

ALL CONCENTRATIONS IN ug/l (ppb)

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ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS
104 E. 25th Street, 10th Floor • New York, NY 10010-2917
(212) 353-8280 • FAX: (212) 353-8306

Title: 1998 SUMMARY GROUNDWATER SAMPLES

Client: THE DURST ORGANIZATION

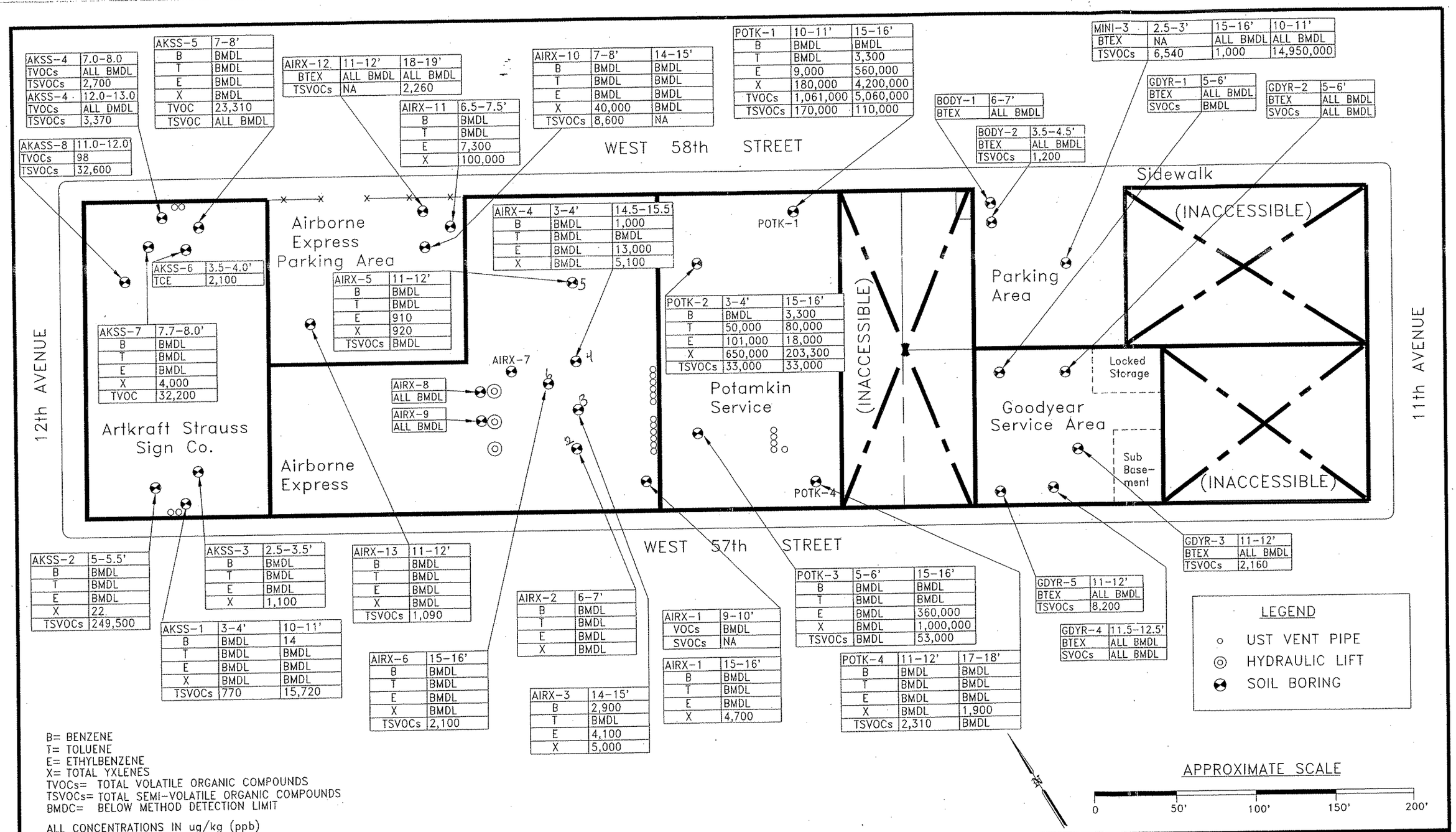
Date: 03/21/2000

ATC PROJECT No. 18346.001

Project Name
DURST WEST 57th STREET
NEW YORK N. Y.
REMEDIAL INVESTIGATION

FIGURE 3B

K:\HILL\CAD\ATC\18346.001\SK-3B



B= BENZENE
T= TOLUENE
E= ETHYLBENZENE
X= TOTAL YXLENES
TVOCs= TOTAL VOLATILE ORGANIC COMPOUNDS
TSVOCs= TOTAL SEMI-VOLATILE ORGANIC COMPOUNDS
BMDC= BELOW METHOD DETECTION LIMIT

ALL CONCENTRATIONS IN ug/kg (ppb)

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Title: 1998 SOIL PREVIOUS BORING LOCATION MAP WITH SUMMARY OF SOIL ANALYSES

Client: THE DURST ORGANIZATION

Date: 03/21/2000

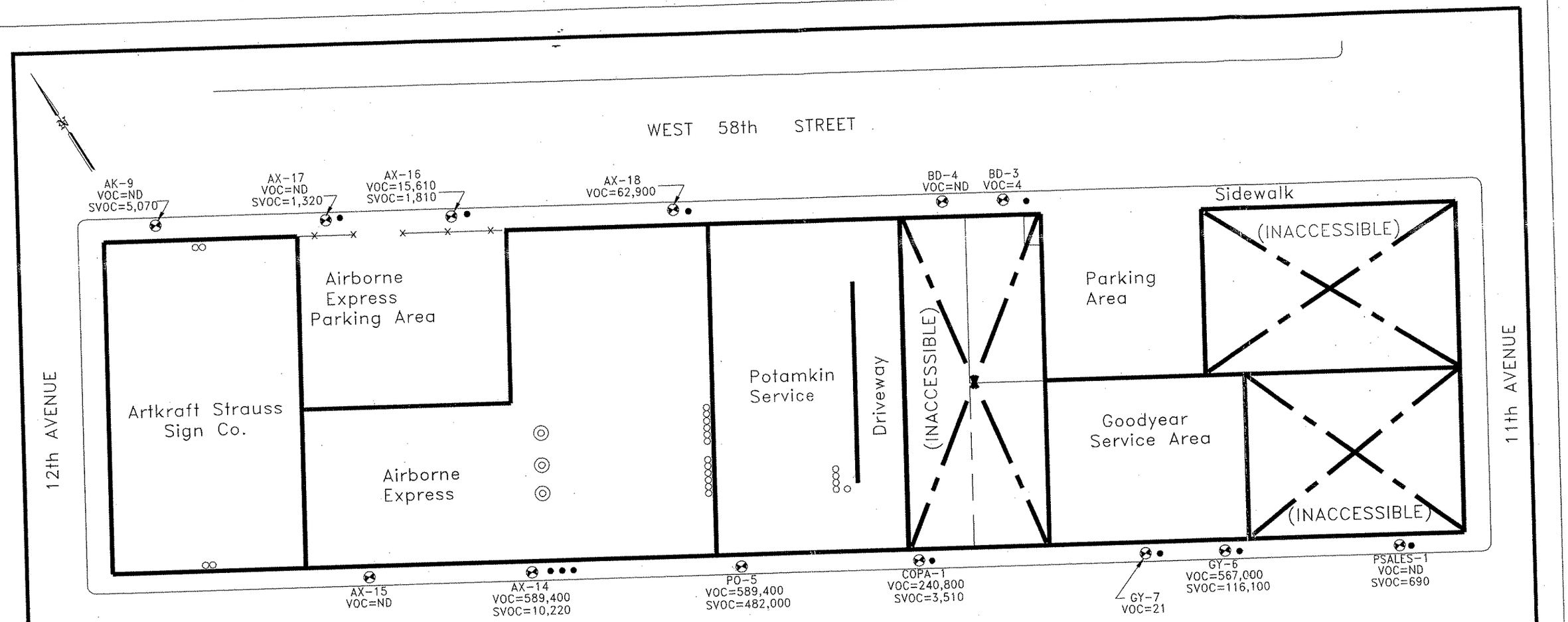
ATC PROJECT No. 18346.001

Project Name
DURST WEST 57th STREET
NEW YORK N. Y.
REMEDIAL INVESTIGATION

FIGURE 3A

K:\HILL\CAD\ATC\18346.001\SK-3A

Figure 4. Boring Location Map and VOC Concentrations



LEGEND

- UST VENT PIPE
- HYDRAULIC LIFT
- UST FILL PORT
- SOIL BORING

0 50' 100' 150' 200'

APPROXIMATE SCALE

* CONCENTRATIONS IN ppb

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(212) 353-8280 • FAX: (212) 353-8306

Title:
BORING LOCATION MAP AND VOC CONCENTRATIONS

Client:
THE DURST ORGANIZATION

Date:
01/12/2000

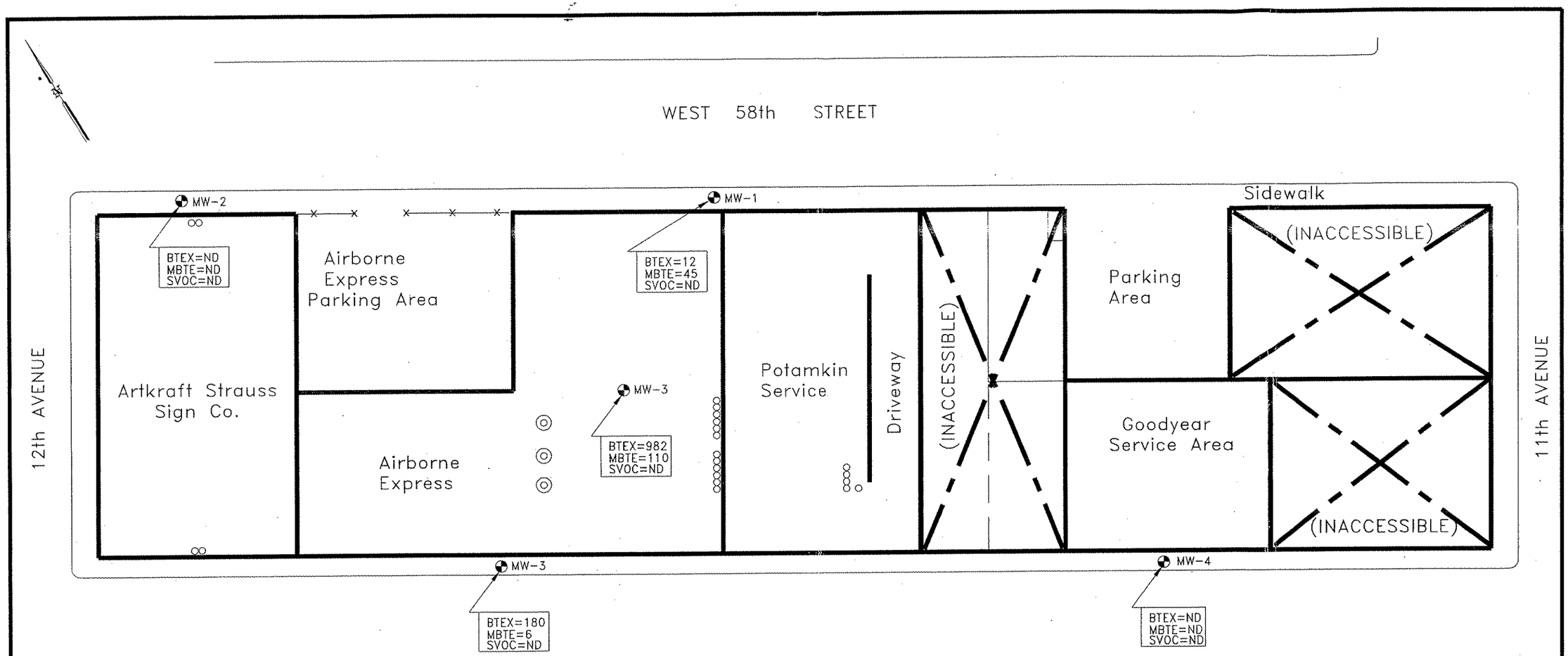
ATC PROJECT No. 18346.001

Project Name
DURST WEST 57th STREET
NEW YORK N. Y.
REMEDIAL INVESTIGATION

FIGURE 4

K:\HILL\CAD\ATC\18346.001\SK-3

Figure 5. Monitoring Well Location Map and BTEX plus MTBE Concentrations



LEGEND

- UST VENT PIPE
- HYDRAULIC LIFT
- UST FILL PORT
- MONITORING WELL

0 50' 100' 150' 200'

APPROXIMATE SCALE

* CONCENTRATIONS IN ppb

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Title: -MONITORING WELL LOCATION MAP & BTEX/MTBE CONCENTRATIONS

Client: THE DURST ORGANIZATION

Date: 01/12/2000

ATC PROJECT No. 18346.001

Project Name
DURST WEST 57th STREET
NEW YORK N. Y.
REMEDIAL INVESTIGATION

FIGURE 5

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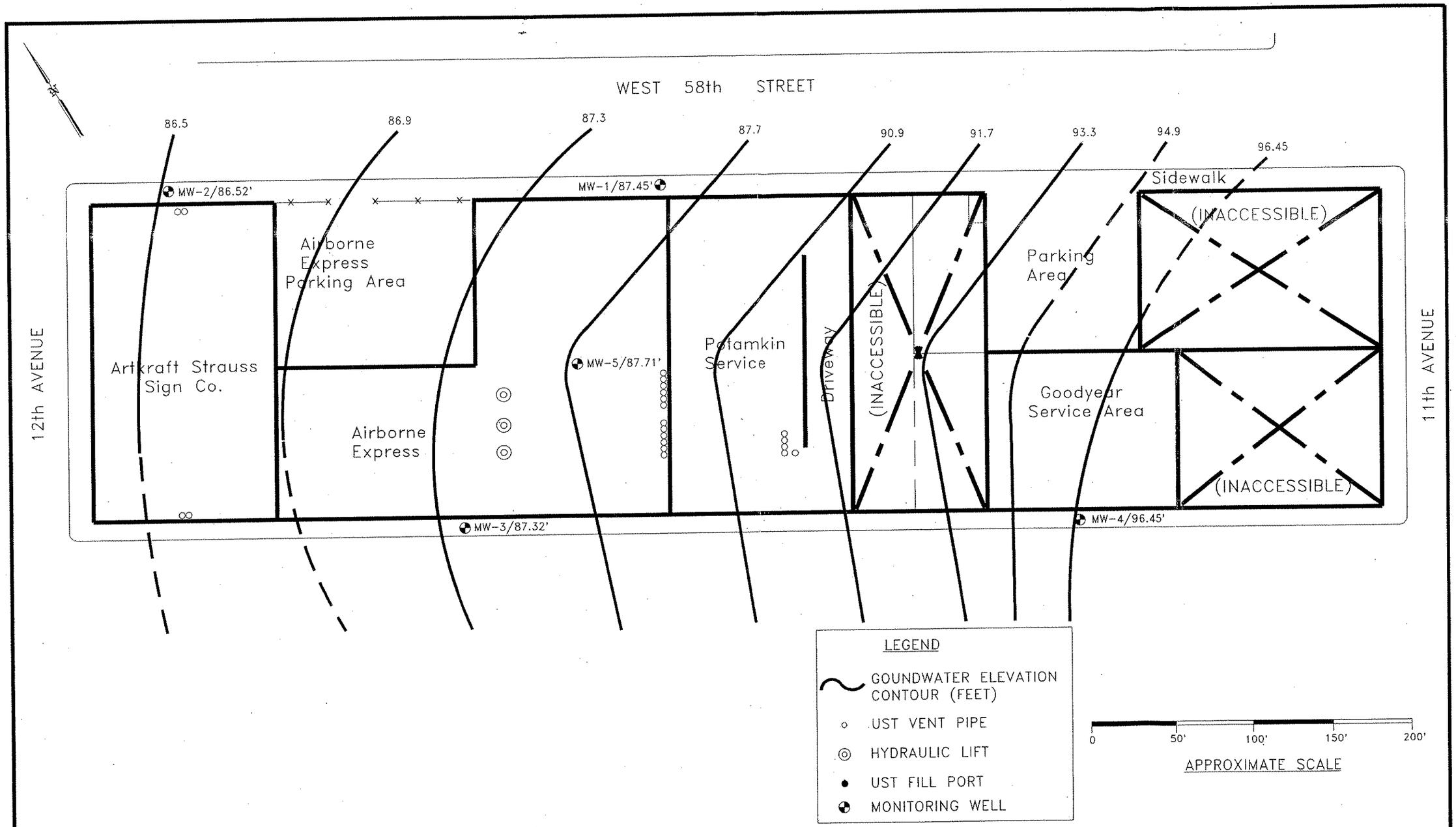

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104 E. 25th Street, 10th Floor • New York, NY 10010-2917
(212) 353-8280 • FAX: (212) 353-8306

Title:
GROUNDWATER GRADIENT MAP
Client:
THE DURST ORGANIZATION
Date:
01/12/2000

ATC PROJECT No. 18346.001

Project Name
DURST WEST 57th STREET
NEW YORK N. Y.
REMEDIAL INVESTIGATION

FIGURE 6

K:\HILL\CAD\ATC\18346.001\SK-5

Figure 6. Groundwater Gradient Map

APPENDIX A: Health & Safety Plan

ATC ASSOCIATES INC.

ENVIRONMENTAL SITE SAFETY PLAN

Important: Please forward one copy of completed document to the reviewer three (3) working days prior to project start up and maintain a copy on site. Place signed copy in the project file.
Items marked with " 1910.120..." are required by 29 CFR 1910.120 in the paragraph noted.

A. GENERAL INFORMATION (1910.120©(4))

Project Name: West .57th St. Project Number: 18346-0001

Location: W. 57th St. between 11th and 12th Aves., New York, NY

Client: Durst

Plan Prepared By: Matthew Millham Date: 10/15/99

Plan Approved By: _____ Date: _____

Project Start Date: 11/8/99

B. SITE DESCRIPTION (1910.120©(4))

Facility History: Presently there are multiple automobile service and sales facilites, overnight package delivery transfer facility, an auto body shop, a night club, and sign manufacturing company. Historically, there have been lumber yard and storage operations, an iron works operation, and auto and truck service operations.

Type of Hazard Anticipated On Site (i.e. tanks, drums, etc.): There are reportedly 40+ underground storage tanks, most of which are out of operation, or abandoned. They store, or had stored gasoline, heating oil, and waste oil. There may also be hydraulic oils remaining from lifts

Amount of Hazardous Materials Present: Unknown

C. General Site Description: 2 to 3-story buildings made of steel and reinforced concrete. Some paved parking areas.

D. **PROJECT OBJECTIVE(S)** (1910.120(b)(3))
(Description of work area activities planned)

Advanced approximately 40 soil borings in the vicinity of the reported USTs for the purpose of collecting soil and groundwater samples for analyses.

E. **PROJECT ORGANIZATION** (1910.120(b)(2))

Team Member	Responsibility	Type of Training	Date of Training
Curt Schmidt	Geologist/Supervisor	40-Hr. OSHA Latest 8-Hr. OSHA	1/86 4/30/98
Unknown at present	Driller	8-Hr. OHSA-	To be inspected on-site
Unknown at present	Assistant Driller	8-Hr. OHSA-	To be inspected

E. **CHEMICAL HAZARD ANALYSIS** (1910.120(b)(4))

Contaminant	IP	PEL/TLV	IDLH	LEL/UEL	Flash Point	Routes of Exposure
Gasoline	N/A	300 ppm	N/A	1.4% / 7.4%	-40°F	Inhalation, skin ingestion.
Fuel Oil, No. 2	N/A	None Reported	N/A	0.6% / 7.5%	100°F	Inhalation, Skin ingestion.

NOTE: Material Safety Data Sheets attached for all substances identified above. Also see Section (M)(2).

F. OTHER HAZARDS

Heat Stress: ____ yes __X__ no. If yes, please specify precautions to be taken.

Cold Stress: ____ yes __X__ no. If yes, please specify precautions to be taken.

Excessive Noise: __X__ yes ____ no. If yes, please specify precautions to be taken.

Ear plugs will be worn.

Confined Space Entry: ____ yes __X__ no. If yes, please attach copy of Confined Space Entry permit

Open Excavations: ____ yes __X__ no. If yes, is entry into excavation required?

____ yes ____ no. If so, specify precautions to be taken:

Welding and/or Cutting: ____ yes __X__ no. If yes, please specify precautions to be taken:

Heavy Equipment Operation: ____ yes __X__ no. If yes, specify type of equipment and precautions taken: Geoprobe Sampler. Proper handling of drill rig and equipment as per Section 23.5 of ATC Employee Health & Safety Policy Manual.

Slip, Trip, Fall Hazards: ____ yes __X__ no. If yes, please specify type , location, and precautions to be taken:

Presence of Underground Utilities: ____ yes ____ no. (WILL BE CALLED IN ONE WEEK PRIOR TO START OF FIELD WORK

Utility location service ID#: _____

Name of Contact: _____

Phone Number: 1-800-272-4480

Precautions to be taken: Look for markings on street and tie in to building.

Presence of Overhead Utilities : __X__ yes _____ no.

Specify exact location: We are drilling inside of the buildings: therefore there will be overhead lights and heating units, pipes, and girders.

Precautions to be taken: We will use low clearance Geoprobe units

Other Hazards: (Specify) _____

G. **SITE CONTROL** (1910.120(d))

Work Zones have been established as shown on the attached **Site Diagram**

Site Security: Security on site will be maintained by:

__X__ Temporary barricades and/or warning tape

_____ Security fence

_____ 24 hour security guard

_____ other (specify) _____

H. PERSONAL PROTECTIVE EQUIPMENT (1910.120(b)(4))

Based on evaluation of potential hazards, the following levels of personal protection have been designated for the applicable work zones:

Work Zone	Level of Protection	Required Protective Equipment (specify exact type, e.g. nitrile gloves)
Exclusion Zone	D	Respirator: N/A Filters/Cartridges: N/A Boots: Steel Toe Inner Gloves: Latex Outer Gloves: Leather Work Gloves Protective Coverall: Cotton, if necessary-Tyvek Hard Hat: Yes Eye Protection: Safety Glasses Other:
Contamination Reduction Zone	N/A	Respirator: Filters/Cartridges: Boots: Inner Gloves: Outer Gloves: Protective Coverall: Hard Hat: Eye Protection: Other:

Exceptions and Modifications: _____

_____

I. DECONTAMINATION (1910.120(k))

Personnel Decontamination Procedures.

All personnel entering the Exclusion Zone will undergo decontamination prior to leaving the site. Personnel will proceed through the following decontamination stations:

Decontamination Solution: Soap and Water
STATION 1: Glove Removal, Hand Wash

Equipment Required: 5 gallon buckets, Alconox, water, paper towel brush

STATION 2:
N/A

Equipment Required:

STATION 3
N/A

Equipment Required:

STATION 4
N/A

Equipment Required:

STATION 5
N/A

Equipment Required:

Equipment Decontamination

Gross Removal By:

Hand scrubbing _____
Cold high pressure wash _____
Hot high pressure wash _____
Steam cleaning __X__
Other (specify) _____

Clean rinse _____

Decon solution (specify) _____

Decontamination Waste Water

Collection (specify how) On plastic pad

Direct Discharge (specify how and where) If no contamination noted, will wash to storm sewer.

Pre-treatment (specify) None required.

Disposal (specify how and where) None required.

J. AMBIENT AIR MONITORING (1910.120(b)(4))

Activity	Instruments	Action Level	Frequency
Drilling	HNU PID	5 ppm	20-30 minutes
Soil Sampling	HNU PID	5 ppm	As Needed

Comments: _____

K. PERSONNEL AIR MONITORING (1910.120(h))

Activity/Location	Contaminant(s)	NIOSH/OSHA Protocol
Drilling	No. 2 Fuel Oil	Level D if < ppm*
	Gasoline (Unknown)	Level D if < 30 ppm*

(*=0.10 X TLV)

L. CONTINGENCY PLAN (1910.120(1))

Emergency Communication Signal(s) (specify): 3-long blasts on air-horn or vehicle horn

Emergency Escape Route(s) (specify and indicate on site diagram): To the up-wind direction of the exclusion zone.

Emergency Equipment On Site: (specify location):

First Aid Kit: Cab of drilling/Geoprobe vehicle

Fire Extinguishers: Geoprobe vehicle

Telephone: None

Eye Wash/Safety Shower: None

Others (specify):

Re-entry to the Exclusion Zone following an on-site emergency shall not be permitted until the following conditions are satisfied:

(1) The conditions resulting in an emergency have been corrected.

(2) The hazards have been re-evaluated.

(3) The Site Safety Plan has been reviewed and determined adequate for the hazards encountered.

(4) All site personnel have been instructed in any new hazards and changes to the Site Safety Plan.

M. OTHER REQUIRED INFORMATION

In order to comply with OSHA standards, the following documents MUST be maintained on site:

1) Hazard Community Manual (1910.1200).
2) Material Safety Data Sheets for all chemicals brought onto the site, or expected to be encountered (1910.1200)
3) Respirator fit test records for all employees who will be required to wear respirators (1910.134)
4) Coy of ATC's Respirator Program (1910.134).
5) Latest medical summary for all personnel (1910.120).
6) Copy of OSHA 200 Log during month of February only.

** EMERGENCY PHONE NUMBERS **

---- Post in Full View ----

ATC Director of Health and Safety (ATC Office) ..... (605) 338-0555

Chemtrec ..... (800) 424-9300

DOT Hotline ..... (202) 366-4488
Materials Transportation Bureau

Centers for Disease Control and Prevention ..... (404) 633-5313
(Emergency Only)

Solid Waste and Emergency Response ..... (202) 260-2180
Office of Emergency and Remedial Response

TSCA Assistance Information Services Hotline ..... (202) 554-1404

Environmental Medicine Resources (ATC Medical Director) ..... (770) 455-0818
--24 hour hotline

HOSPITAL: (Name): St Lukes / Roosevelt Med. Center

(Address): 1000 10th Ave., New York, NY

(Phone): (212) 523-6800/523-4000

Travel Time: 2 minutes

Directions: See Attachment

Map Attached: Yes

PARAMEDICS: (Name): New York Fire Department

(Phone): 911

FIRE DEPARTMENT: (Name): New York Fire Department

(Phone): 911

LOCAL POLICE: (Name): New York Fire Department

(Phone): 911

UTILITIES: Utility: 268-4868

Gas: Con Edison 261-8130

Brooklyn Union Gas 643-4050

APPENDIX B: Soil Laboratory Results

SCILAB
FULL SERVICE ENVIRONMENTAL LABORATORIES

REVISED
11/18 SB

SCILAB ALBANY, INC.
15 Century Hill Drive
P.O. Box 787
Latham, NY 12110
Tel: (518) 786-8100
Fax: (518) 786-7700

ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010
CURT SCHMIDT

Task Number: 9911-00161
Customer No.: 040772
Project No.: A80194
Purchase Order #: W 57TH ST NY N
Report Date: 11/18/99

Sampling Information

Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received: 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
001 GY 6-3 / B-GY6 3-4			Sample Date 11/08/1999 Time: 9:17		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/13/99
Methyl t-butyl ether	EPA Method 8021	<5900	ug/Kg	LIZ	11/13/99
Benzene	EPA Method 8021	<3000	ug/Kg	LIZ	11/13/99
Toluene	EPA Method 8021	<5900	ug/Kg	LIZ	11/13/99
Ethlybenzene	EPA Method 8021	<5900	ug/Kg	LIZ	11/13/99
m- & p-Xylenes	EPA Method 8021	<5900	ug/Kg	LIZ	11/13/99
O-Xylene	EPA Method 8021	12000	ug/Kg	LIZ	11/13/99
Isopropylbenzene	EPA Method 8021	15000	ug/Kg	LIZ	11/13/99
n-Propylbenzene	EPA Method 8021	52000	ug/Kg	LIZ	11/13/99
1,3,5-Trimethlybenzene	EPA Method 8021	<5900	ug/Kg	LIZ	11/13/99
tert-Butylbenzene	EPA Method 8021	19000	ug/Kg	LIZ	11/13/99
1,2,4-Trimethylbenzene	EPA Method 8021	19000	ug/Kg	LIZ	11/13/99
sec-Butylbenzene	EPA Method 8021	32000	ug/Kg	LIZ	11/13/99
p-Isopropyltoluene	EPA Method 8021	<5900	ug/Kg	LIZ	11/13/99
n-Butylbenzene	EPA Method 8021	58000	ug/Kg	LIZ	11/13/99
Naphthalene	EPA Method 8021	360000	ug/Kg	LIZ	11/13/99
Total Xylenes	EPA Method 8021	<18000	ug/Kg	LIZ	11/13/99
Percent Solids		84.6	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	54000	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	7600 J	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	15000	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	33000	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	3000 J	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	3500 J	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99

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Fax: (518) 786-7700

ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010
CURT SCHMIDT

Task Number 9911-00161
Customer No. 040772
Project No. A80194
Purchase Order # W 57TH ST NY N
Report Date 11/18/99

Sampling Information

Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
001 GY 6-3 / B-GY6 3-4			Sample Date 11/08/1999 Time: 9:17		
Matrix:			Collection Method: Grab		
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<7800	ug/Kg	SUB	11/18/99
002 GY 7-1 / GY7 1-2			Sample Date 11/08/1999 Time: 10:15		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/10/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Benzene	EPA Method 8021	<0.5	ug/Kg	LIZ	11/10/99
Toluene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Ethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
m- & p-Xylenes	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
O-Xylene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Isopropylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
n-Propylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
tert-Butylbenzene	EPA Method 8021	3	ug/Kg	LIZ	11/10/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
sec-Butylbenzene	EPA Method 8021	2	ug/Kg	LIZ	11/10/99
p-Isopropyltoluene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
n-Butylbenzene	EPA Method 8021	4	ug/Kg	LIZ	11/10/99
Naphthalene	EPA Method 8021	12	ug/Kg	LIZ	11/10/99
Total Xylenes	EPA Method 8021	<3	ug/Kg	LIZ	11/10/99
Percent Solids		91.2	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99

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Report Date 11/18/99

Sampling Information

Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
002 GY 7-1 / GY7 1-2			Sample Date 11/08/1999 Time: 10:15		
Matrix:			Collection Method: Grab		
Pyrene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<360	ug/Kg	SUB	11/18/99

Low surrogate due to matrix interefernce and confirmed by rerun.

003 PO 5-6 / PO5 6-7			Sample Date 11/08/1999 Time: 12:25		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/13/99
Methyl t-butyl ether	EPA Method 8021	<6400	ug/Kg	LIZ	11/13/99
Benzene	EPA Method 8021	<3200	ug/Kg	LIZ	11/13/99
Toluene	EPA Method 8021	26000	ug/Kg	LIZ	11/13/99
Ethlybenzene	EPA Method 8021	49000	ug/Kg	LIZ	11/13/99
m- & p-Xylenes	EPA Method 8021	320000	ug/Kg	LIZ	11/13/99
O-Xylene	EPA Method 8021	240000	ug/Kg	LIZ	11/13/99
Isopropylbenzene	EPA Method 8021	24000	ug/Kg	LIZ	11/13/99
n-Propylbenzene	EPA Method 8021	59000	ug/Kg	LIZ	11/13/99
1,3,5-Trimethlybenzene	EPA Method 8021	140000	ug/Kg	LIZ	11/13/99
tert-Butylbenzene	EPA Method 8021	29000	ug/Kg	LIZ	11/13/99
1,2,4-Trimethylbenzene	EPA Method 8021	400000	ug/Kg	LIZ	11/13/99
sec-Butylbenzene	EPA Method 8021	30000	ug/Kg	LIZ	11/13/99
p-Isopropyltoluene	EPA Method 8021	33000	ug/Kg	LIZ	11/13/99
n-Butylbenzene	EPA Method 8021	320000	ug/Kg	LIZ	11/13/99
Naphthalene	EPA Method 8021	130000	ug/Kg	LIZ	11/13/99
Total Xylenes	EPA Method 8021	560000	ug/Kg	LIZ	11/13/99
Percent Solids		78.4	%	DGL	11/16/99

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Test Performed	Method	Results	Units	Tech	Analy. Date
003 PO 5-6 / PO5 6-7			Sample Date 11/08/1999 Time: 12:25		
Matrix:			Collection Method: Grab		
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	29,000	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	8500	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	2400	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	22,000	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	9600	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	47,000	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	110,000	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	31,000	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	53,000	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	36,000	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	23,000	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	46,000	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	31,000	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	8500	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	25,000	ug/Kg	SUB	11/18/99
004 PO 5-15 / PO5 15-16			Sample Date 11/08/1999 Time: 9:17		
Matrix: Soil			Collection Method: Grab		
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/13/99
Methyl t-butyl ether	EPA Method 8021	<1500	ug/Kg	LIZ	11/13/99
Benzene	EPA Method 8021	860	ug/Kg	LIZ	11/13/99
Toluene	EPA Method 8021	5400	ug/Kg	LIZ	11/13/99
Ethlybenzene	EPA Method 8021	<1500	ug/Kg	LIZ	11/13/99
m- & p-Xylenes	EPA Method 8021	14000	ug/Kg	LIZ	11/13/99
O-Xylene	EPA Method 8021	29000	ug/Kg	LIZ	11/13/99
Isopropylbenzene	EPA Method 8021	37000	ug/Kg	LIZ	11/13/99
n-Propylbenzene	EPA Method 8021	120000	ug/Kg	LIZ	11/13/99
1,3,5-Trimethlybenzene	EPA Method 8021	7600	ug/Kg	LIZ	11/13/99
tert-Butylbenzene	EPA Method 8021	9900	ug/Kg	LIZ	11/13/99
1,2,4-Trimethylbenzene	EPA Method 8021	29000	ug/Kg	LIZ	11/13/99
sec-Butylbenzene	EPA Method 8021	31000	ug/Kg	LIZ	11/13/99

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Test Performed	Method	Results	Units	Tech	Analy. Date
004 PO 5-15 / PO5 15-16			Sample Date 11/08/1999 Time: 9:17		
Matrix:			Collection Method: Grab		
p-Isopropyltoluene	EPA Method 8021	19000	ug/Kg	LIZ	11/13/99
n-Butylbenzene	EPA Method 8021	44000	ug/Kg	LIZ	11/13/99
Naphthalene	EPA Method 8021	16000	ug/Kg	LIZ	11/13/99
Total Xylenes	EPA Method 8021	43000	ug/Kg	LIZ	11/13/99
Percent Solids		66.5	%	DGL	11/16/99
005 CO 1-15 / COPA1 15-16			Sample Date 11/08/1999 Time: 11:29		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/12/99
Methyl t-butyl ether	EPA Method 8021	1500	ug/Kg	LIZ	11/12/99
Benzene	EPA Method 8021	<600	ug/Kg	LIZ	11/12/99
Toluene	EPA Method 8021	1800	ug/Kg	LIZ	11/12/99
Ethlybenzene	EPA Method 8021	16000	ug/Kg	LIZ	11/12/99
m- & p-Xylenes	EPA Method 8021	34000	ug/Kg	LIZ	11/12/99
O-Xylene	EPA Method 8021	12000	ug/Kg	LIZ	11/12/99
Isopropylbenzene	EPA Method 8021	7900	ug/Kg	LIZ	11/12/99
n-Propylbenzene	EPA Method 8021	14000	ug/Kg	LIZ	11/12/99
1,3,5-Trimethlybenzene	EPA Method 8021	23000	ug/Kg	LIZ	11/12/99
tert-Butylbenzene	EPA Method 8021	3600	ug/Kg	LIZ	11/12/99
1,2,4-Trimethylbenzene	EPA Method 8021	72000	ug/Kg	LIZ	11/12/99
sec-Butylbenzene	EPA Method 8021	5700	ug/Kg	LIZ	11/12/99
p-Isopropyltoluene	EPA Method 8021	3300	ug/Kg	LIZ	11/12/99
n-Butylbenzene	EPA Method 8021	35000	ug/Kg	LIZ	11/12/99
Naphthalene	EPA Method 8021	11000	ug/Kg	LIZ	11/12/99
Total Xylenes	EPA Method 8021	46000	ug/Kg	LIZ	11/12/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	1600	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	430	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	130 J	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	250 J	ug/Kg	SUB	11/18/99

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ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010
CURT SCHMIDT

Task Number 9911-00161
Customer No. 040772
Project No. A80194
Purchase Order # W 57TH ST NY N
Report Date 11/18/99

Sampling Information

Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
005 CO 1-15 / COPA1 15-16			Sample Date 11/08/1999 Time: 11:29		
Matrix:			Collection Method: Grab		
Pyrene	EPA 8270 B/N	1100	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Percent Solids		83.4	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/N	Complete		JMB	11/11/99
006 AX 14-18 / AX14 11-12			Sample Date 11/08/1999 Time: 13:25		
Matrix: Soil			Collection Method: Grab		
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/12/99
Methyl t-butyl ether	EPA Method 8021	<1100	ug/Kg	LIZ	11/12/99
Benzene	EPA Method 8021	<550	ug/Kg	LIZ	11/12/99
Toluene	EPA Method 8021	7400	ug/Kg	LIZ	11/12/99
Ethlybenzene	EPA Method 8021	34000	ug/Kg	LIZ	11/12/99
m- & p-Xylenes	EPA Method 8021	130000	ug/Kg	LIZ	11/12/99
O-Xylene	EPA Method 8021	75000	ug/Kg	LIZ	11/12/99
Isopropylbenzene	EPA Method 8021	21000	ug/Kg	LIZ	11/12/99
n-Propylbenzene	EPA Method 8021	62000	ug/Kg	LIZ	11/12/99
1,3,5-Trimethlybenzene	EPA Method 8021	43000	ug/Kg	LIZ	11/12/99
tert-Butylbenzene	EPA Method 8021	20000	ug/Kg	LIZ	11/12/99
1,2,4-Trimethylbenzene	EPA Method 8021	110000	ug/Kg	LIZ	11/12/99
sec-Butylbenzene	EPA Method 8021	12000	ug/Kg	LIZ	11/12/99
p-Isopropyltoluene	EPA Method 8021	18000	ug/Kg	LIZ	11/12/99
n-Butylbenzene	EPA Method 8021	45000	ug/Kg	LIZ	11/12/99
Naphthalene	EPA Method 8021	12000	ug/Kg	LIZ	11/12/99
Total Xylenes	EPA Method 8021	205000	ug/Kg	LIZ	11/12/99
Percent Solids		90.5	%	DGL	11/16/99

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Sampled By: SCHMIDT
Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
007 AX 14-18 / AX14 18-19			Sample Date 11/08/1999 Time: 13:40		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/			LIZ	11/10/99
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/10/99
Methyl t-butyl ether	EPA Method 8021	<2	ug/Kg	LIZ	11/10/99
Benzene	EPA Method 8021	<0.9	ug/Kg	LIZ	11/10/99
Toluene	EPA Method 8021	2	ug/Kg	LIZ	11/10/99
Ethlybenzene	EPA Method 8021	4	ug/Kg	LIZ	11/10/99
m- & p-Xylenes	EPA Method 8021	14	ug/Kg	LIZ	11/10/99
O-Xylene	EPA Method 8021	7	ug/Kg	LIZ	11/10/99
Isopropylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/10/99
n-Propylbenzene	EPA Method 8021	5	ug/Kg	LIZ	11/10/99
1,3,5-Trimethlybenzene	EPA Method 8021	6	ug/Kg	LIZ	11/10/99
tert-Butylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/10/99
1,2,4-Trimethylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/10/99
sec-Butylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/10/99
p-Isopropyltoluene	EPA Method 8021	<2	ug/Kg	LIZ	11/10/99
n-Butylbenzene	EPA Method 8021	17	ug/Kg	LIZ	11/10/99
Naphthalene	EPA Method 8021	38	ug/Kg	LIZ	11/10/99
Total Xylenes	EPA Method 8021	21	ug/Kg	LIZ	11/10/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	260 J	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	340 J	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	260 J	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	1500	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	420 J	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	590	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	2300	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	460 J	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	1100	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	580	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	230 J	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	900	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	620	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<570	ug/Kg	SUB	11/18/99

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Test Performed	Method	Results	Units	Tech	Analy. Date
007 AX 14-18 / AX14 18-19			Sample Date 11/08/1999 Time: 13:40		
Matrix:			Collection Method: Grab		
Benzo (g,h,i) perylene	EPA 8270 B/N	660	ug/Kg	SUB	11/18/99
Percent Solids		57.8	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
008 AX 15-8.5 / AX15 8.5/9.5			Sample Date 11/08/1999 Time: 14:16		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/10/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Benzene	EPA Method 8021	<0.6	ug/Kg	LIZ	11/10/99
Toluene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Ethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
m- & p-Xylenes	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
O-Xylene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Isopropylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
n-Propylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
tert-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
sec-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
p-Isopropyltoluene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
n-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Naphthalene	EPA Method 8021	<6	ug/Kg	LIZ	11/10/99
Total Xylenes	EPA Method 8021	<4	ug/Kg	LIZ	11/10/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99

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Test Performed	Method	Results	Units	Tech	Analy. Date
008 AX 15-8.5 / AX15 8.5/9.5			Sample Date 11/08/1999 Time: 14:16		
Matrix:			Collection Method: Grab		
Benzo(a)anthracene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<410	ug/Kg	SUB	11/18/99
Percent Solids		81.5	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/N	Complete		JMB	11/11/99
009 AX 16-11 / AX-16 11-12			Sample Date 11/09/1999 Time: 11:07		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/12/99
Methyl t-butyl ether	EPA Method 8021	<130	ug/Kg	LIZ	11/12/99
Benzene	EPA Method 8021	<65	ug/Kg	LIZ	11/12/99
Toluene	EPA Method 8021	450	ug/Kg	LIZ	11/12/99
Ethlybenzene	EPA Method 8021	<130	ug/Kg	LIZ	11/12/99
m- & p-Xylenes	EPA Method 8021	260	ug/Kg	LIZ	11/12/99
O-Xylene	EPA Method 8021	<130	ug/Kg	LIZ	11/12/99
Isopropylbenzene	EPA Method 8021	<130	ug/Kg	LIZ	11/12/99
n-Propylbenzene	EPA Method 8021	3000	ug/Kg	LIZ	11/12/99
1,3,5-Trimethlybenzene	EPA Method 8021	<130	ug/Kg	LIZ	11/12/99
tert-Butylbenzene	EPA Method 8021	2900	ug/Kg	LIZ	11/12/99
1,2,4-Trimethylbenzene	EPA Method 8021	2700	ug/Kg	LIZ	11/12/99
sec-Butylbenzene	EPA Method 8021	1700	ug/Kg	LIZ	11/12/99
p-Isopropyltoluene	EPA Method 8021	1200	ug/Kg	LIZ	11/12/99
n-Butylbenzene	EPA Method 8021	1500	ug/Kg	LIZ	11/12/99
Naphthalene	EPA Method 8021	1900	ug/Kg	LIZ	11/12/99
Total Xylenes	EPA Method 8021	<400	ug/Kg	LIZ	11/12/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99

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Test Performed	Method	Results	Units	Tech	Analy. Date
009 AX 16-11 / AX-16 11-12			Sample Date 11/09/1999 Time: 11:07		
Matrix:			Collection Method: Grab		
Fluorene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	260 J	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	700	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	170 J	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	180 J	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	230 J	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	120 J	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	150 J	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<440	ug/Kg	SUB	11/18/99
Percent Solids		74.9	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
010 AX 17-14.5 / AX17 14.5-15.5			Sample Date 11/09/1999 Time: 11:52		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/10/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Benzene	EPA Method 8021	<0.6	ug/Kg	LIZ	11/10/99
Toluene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Ethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
m- & p-Xylenes	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
O-Xylene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Isopropylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
n-Propylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
tert-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
sec-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
p-Isopropyltoluene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99

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Test Performed	Method	Results	Units	Tech	Analy. Date
010 AX 17-14.5 / AX17 14.5-15.5			Sample Date 11/09/1999 Time: 11:52		
Matrix:			Collection Method: Grab		
n-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/10/99
Naphthalene	EPA Method 8021	<6	ug/Kg	LIZ	11/10/99
Total Xylenes	EPA Method 8021	<4	ug/Kg	LIZ	11/10/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	270 J	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	290 J	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	440	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	140 J	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	180 J	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<400	ug/Kg	SUB	11/18/99
Percent Solids		83.8	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
011 PS 1-8 / PSALES 8-9			Sample Date 11/09/1999 Time: 9:10		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/12/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
Benzene	EPA Method 8021	<0.6	ug/Kg	LIZ	11/12/99
Toluene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
Ethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
m- & p-Xylenes	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
O-Xylene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
Isopropylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99

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Fax: (518) 786-7700

ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010
CURT SCHMIDT

Task Number 9911-00161
Customer No. 040772
Project No. A80194
Purchase Order # W 57TH ST NY N
Report Date 11/18/99

Sampling Information
Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
011 PS 1-8 / PSALES 8-9			Sample Date 11/09/1999 Time: 9:10		
Matrix:			Collection Method: Grab		
n-Propylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
tert-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
sec-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
p-Isopropyltoluene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
n-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/12/99
Naphthalene	EPA Method 8021	<6	ug/Kg	LIZ	11/12/99
Total Xylenes	EPA Method 8021	<3	ug/Kg	LIZ	11/12/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	140 J	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	270 J	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	280 J	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<390	ug/Kg	SUB	11/18/99
Percent Solids		86.5	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
012 AK9-14.5 / AK9 14.5-15.5			Sample Date 11/09/1999 Time: 13:25		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/11/99
Methyl t-butyl ether	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99

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Report Date 11/18/99

Sampling Information

Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
012 AK9-14.5 / AK9 14.5-15.5			Sample Date 11/09/1999 Time: 13:25		
Matrix:			Collection Method: Grab		
Benzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Toluene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
Ethlybenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
m- & p-Xylenes	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
O-Xylene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
Isopropylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
n-Propylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
1,3,5-Trimethlybenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
tert-Butylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
1,2,4-Trimethylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
sec-Butylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
p-Isopropyltoluene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
n-Butylbenzene	EPA Method 8021	<2	ug/Kg	LIZ	11/11/99
Naphthalene	EPA Method 8021	<10	ug/Kg	LIZ	11/11/99
Total Xylenes	EPA Method 8021	<6	ug/Kg	LIZ	11/11/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	420 J	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	220 J	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	170 J	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	1200	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	260 J	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	1200	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	1600	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<650	ug/Kg	SUB	11/18/99
Percent Solids		51.0	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99

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Task Number 9911-00161
Customer No. 040772
Project No. A80194
Purchase Order # W 57TH ST NY N
Report Date 11/18/99

Sampling Information

Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date

Low surrogate due to matrix interference and confirmed by rerun.

013 BD 3-6 / BD-3 6-7
Matrix: Soil

Sample Date 11/09/1999 Time: 14:15
Collection Method: Grab

STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/11/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Benzene	EPA Method 8021	<0.5	ug/Kg	LIZ	11/11/99
Toluene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Ethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
m- & p-Xylenes	EPA Method 8021	4	ug/Kg	LIZ	11/11/99
O-Xylene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Isopropylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
n-Propylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
tert-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
sec-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
p-Isopropyltoluene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
n-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Naphthalene	EPA Method 8021	<5	ug/Kg	LIZ	11/11/99
Total Xylenes	EPA Method 8021	4	ug/Kg	LIZ	11/11/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99

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Report Date 11/18/99

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Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
013 BD 3-6 / BD-3 6-7			Sample Date 11/09/1999 Time: 14:15		
Matrix:			Collection Method: Grab		
Benzo(a)pyrene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<340	ug/Kg	SUB	11/18/99
Percent Solids		96.6	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99
014 BD 4-4 / BD 4 4-5			Sample Date 11/09/1999 Time: 14:45		
Matrix: Soil			Collection Method: Grab		
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/11/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Benzene	EPA Method 8021	<0.5	ug/Kg	LIZ	11/11/99
Toluene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Ethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
m- & p-Xylenes	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
O-Xylene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Isopropylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
n-Propylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
tert-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
sec-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
p-Isopropyltoluene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
n-Butylbenzene	EPA Method 8021	<1	ug/Kg	LIZ	11/11/99
Naphthalene	EPA Method 8021	<5	ug/Kg	LIZ	11/11/99
Total Xylenes	EPA Method 8021	<3	ug/Kg	LIZ	11/11/99
Percent Solids		96.3	%	DGL	11/16/99
015 AX 18-13.5 / AX-18 13.5-14.5			Sample Date 11/09/1999 Time: 15:45		
Matrix: Soil			Collection Method: Grab		
STARS 8021/8270 in Soil	SW-846 Method 8021/				
STARS 8021 Soils	SW-846 Method 8021			LIZ	11/13/99
Methyl t-butyl ether	EPA Method 8021	<150	ug/Kg	LIZ	11/13/99

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Project Location: W 57TH STREET NY NY
Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date
015 AX 18-13.5 / AX-18 13.5-14.5			Sample Date 11/09/1999 Time: 15:45		
Matrix:			Collection Method: Grab		
Benzene	EPA Method 8021	2700	ug/Kg	LIZ	11/13/99
Toluene	EPA Method 8021	2700	ug/Kg	LIZ	11/13/99
Ethlybenzene	EPA Method 8021	3800	ug/Kg	LIZ	11/13/99
m- & p-Xylenes	EPA Method 8021	9800	ug/Kg	LIZ	11/13/99
O-Xylene	EPA Method 8021	3900	ug/Kg	LIZ	11/13/99
Isopropylbenzene	EPA Method 8021	6100	ug/Kg	LIZ	11/13/99
n-Propylbenzene	EPA Method 8021	12000	ug/Kg	LIZ	11/13/99
1,3,5-Trimethlybenzene	EPA Method 8021	3500	ug/Kg	LIZ	11/13/99
tert-Butylbenzene	EPA Method 8021	4700	ug/Kg	LIZ	11/13/99
1,2,4-Trimethylbenzene	EPA Method 8021	<150	ug/Kg	LIZ	11/13/99
sec-Butylbenzene	EPA Method 8021	2600	ug/Kg	LIZ	11/13/99
p-Isopropyltoluene	EPA Method 8021	1200	ug/Kg	LIZ	11/13/99
n-Butylbenzene	EPA Method 8021	8100	ug/Kg	LIZ	11/13/99
Naphthalene	EPA Method 8021	1800	ug/Kg	LIZ	11/13/99
Total Xylenes	EPA Method 8021	13700	ug/Kg	LIZ	11/13/99
STARS 8270 Soils	SW-846 Method 8270B			SUB	11/18/99
Naphthalene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Acenapthene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Fluorene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Phenanthrene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Anthracene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Fluoranthene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Pyrene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Chrysene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Benzo(a)anthracene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Benzo(b)fluoranthene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Benzo(k)fluoranthene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Benzo(a)pyrene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<560	ug/Kg	SUB	11/18/99
Percent Solids		69.2	%	DGL	11/16/99
Extraction for 8270B/N Soil	EPA Method 8270 B/NComplete			JMB	11/11/99

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Purchase Order #	W 57TH ST NY N
Report Date	11/18/99

Sampling Information

Project Location: W 57TH STREET NY NY

Sampled By: SCHMIDT

Date Received 11/10/99

Test Performed	Method	Results	Units	Tech	Analy. Date

Unless otherwise noted, samples were analyzed within the holding times specified in the analyical method.

Authorized for Release: *[signature]* FOR:
David O'Hehir, Laboratory Director

NYS ELAP:10358 MA DEP:NY052 CT DEP:PH-0551

SEALAB ALBANY, INC.
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Latham, NY 12110
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CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

TASK # 4911-00161

Pg 1

Client ATC Associates
Client Contact Curt Schmidt
Project Location W 57th Street, New York, NY
Purchase Order

Sampler's Name Curt Schmidt (please print)
Contact C. Schmidt 212-353 8280 x 326
Turnaround Time Requested 1 week Std.

LAB ID	Sample ID/Description	Date Sampled	Time A = a.m. P = p.m.	Sample Type: Matrix	COMP	GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
1	GY6-3 / B-GY6 3-4'	11/8/99	0917A	Soil		X	2	9	VOCs (8021) STARS SVOCs 8270 STARS
	~~PO5-6 / PO5 6-7'~~	"							
2	GY7-1 / GY7 1-2'	11/8/99	1015A	Soil		X	2		VOCs 8021 STARS & MTBE SVOCs 8270 STARS
3	PO5-6 / PO5 6-7'	"	1235	"		X	2		" " "
4	PO5-15 / PO5 15-16	"	1245	"		X	1		VOCs 8021 STARS + MTBE
5	PO1-15 / COPA 1 15-16	"	1129	"		X	2		VOCs 8021 STARS + MTBE SVOCs 8270 STARS
6	AX14-11 / AX14 11-12	"	1325	"		X	1		VOCs 8021 STARS + MTBE
7	AX14-18 / AX-14 18-19'	"	1340	"		X	2		VOCs 8021 STARS + MTBE SVOCs 8270 STARS
8	AX15-8.5 / AX15 8.5-9.5'	"	1416	"		X	2	↓	" " " "
9	AX16-11 / AX-16 11-12'	11/9/99	1107	"		X	2	↓	" " " "

Sampled by: (signature) Curtis H. Schmidt	Date/Time 11/9/99 1648	Received by: (signature) Donna	Date/Time 11/9/99	1645
Relinquished by: (signature)		Received by: (signature)		
Relinquished by: (signature)		Received by: (signature)		
Dispatched by: (signature)		Received for Laboratory by:		

Preservatives
1. HCl
2. HNO_3
3. NaOH
4. NaS_2O_3
5. Zn Acet
6. Ascorbic
7. H_2SO_4
8. F (Filtered)
9. N (not preserved)
10. Other

Sample Condition
1. Samples intact? Y N
2. Custody seals intact? Y N
3. Preserved properly? Y N
4. Ambient or chilled?
5. C.O.C. received with samples? Y N

NOTES/COMMENTS/BILLING INFORMATION:

Method of Shipment: Courier

Date:

S[illegible]AB A[illegible]NY, [illegible]
15 Century Hill Drive
P.O. Box 787
Latham, NY 12110
518-786-8100
FAX 518-786-7700

CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

TASK # 9911-0-161

Pg 2

Client ATC Associates
Client Contact Curt Schmidt
Project Location W. 57th Street, NY, NY
Purchase Order

Sampler's Name Curt Schmidt
(please print)
Contact 212-353 8280
Turnaround Time Requested 1-Week STD

LAB ID	Sample ID/Description	Date Sampled	Time A = a.m. P = p.m.	Sample Type: Matrix	Sample Type: COMP	Sample Type: GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
1	AX 17-14.5 / AX17 14.5-15.5	11/9/99	1152A	SOIL		X	2	9	VOCs 8021 STARS & HVOCs SVOCs 8270 STARS
2	DS 1-8 / DS-1 8.9'	"	0910A	"		X	2	9	" " " "
3	AK 9-14.5 / AK-9 14.5-15.5	"	1325P	"		X	2	9	" " " "
4	BD 3-6 / BD-3 6-7'	"	1415P	"		X	2	9	" " " "
5	BD 4-4.5 / BD-4 4.5'	"	1445P	"		X	1	9	VOCs 8021 STARS
12	AX 18-13.5 / AX-18 13.5-14.5	"	1545P	"		X	2	9	VOCs 8021 STARS SVOCs 8270 STARS

Sampled by: (signature) Curtis H. Schmidt	Date/Time 11/9/99 1645	Received by: (signature) [illegible]	Date/Time 11/9/99 1645	Preservatives: 1. HCl 2. HNO_3 3. NaOH 4. NaS_2O_3 5. Zn Acet 6. Ascorbic 7. H_2SO_4 8. F (Filtered) 9. N (not preserved) 10. Other
Relinquished by: (signature)		Received by: (signature)		
Relinquished by: (signature)		Received by: (signature)		
Dispatched by: (signature)		Received for Laboratory by:	11-10-99 @ 9:15	

Sample Condition:
1. Samples intact? (Y) N
2. Custody seals intact? Y N
3. Preserved properly? (Y) N
4. Ambient or chilled?
5. C.O.C. received with samples? (Y) N

NOTES/COMMENTS/BILLING INFORMATION:

Method of Shipment: Fed Ex

Date: 11-10-99

APPENDIX C: Groundwater Laboratory Results

SCILAB
FULL SERVICE ENVIRONMENTAL LABORATORIES

SCILAB ALBANY, INC.
15 Century Hill Drive
P.O. Box 787
Latham, NY 12110
Tel: (518) 786-8100
Fax: (518) 786-7700

ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010

Task Number: 9912-00192
Customer No.: 040772
Project No.: A80194
Purchase Order #:
Report Date: 12/16/99

Sampling Information

Project Location: WEST 57TH ST (DURST)
Sampled By: MILLHAM
Date Received: 12/13/99

Test Performed	Method	Results	Units	Tech	Analy. Date
001 MW-1			Sample Date 12/10/1999 Time: 13:18		
Matrix: Water			Collection Method: Grab		
STARS 8021 in Water	SW-846 Method 8021			LIZ	12/14/99
Methyl t-butyl ether	EPA Method 8021	45	ug/L	LIZ	12/14/99
Benzene	EPA Method 8021	1	ug/L	LIZ	12/14/99
Toluene	EPA Method 8021	1	ug/L	LIZ	12/14/99
Ethlybenzene	EPA Method 8021	9	ug/L	LIZ	12/14/99
m- & p-Xylenes	EPA Method 8021	1	ug/L	LIZ	12/14/99
O-Xylene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
Isopropylbenzene	EPA Method 8021	3	ug/L	LIZ	12/14/99
n-Propylbenzene	EPA Method 8021	7	ug/L	LIZ	12/14/99
1,3,5-Trimethlybenzene	EPA Method 8021	3	ug/L	LIZ	12/14/99
tert-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
sec-Butylbenzene	EPA Method 8021	1	ug/L	LIZ	12/14/99
p-Isopropyltoluene	EPA Method 8021	1	ug/L	LIZ	12/14/99
n-Butylbenzene	EPA Method 8021	6	ug/L	LIZ	12/14/99
Naphthalene	EPA Method 8021	<5	ug/L	LIZ	12/14/99
Total Xylenes	EPA Method 8021	<3	ug/L	LIZ	12/14/99
STARS 8270 Water	SW-846 Method 8270B			EXL	12/16/99
Sample Analysis by Lab Id #		11369		EXL	12/16/99
Naphthalene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Acenapthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluorene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Phenanthrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Chrysene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(b)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(k)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99

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ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010

Task Number 9912-00192
Customer No. 040772
Project No. A80194
Purchase Order #
Report Date 12/16/99

Sampling Information

Project Location: WEST 57TH ST (DURST)
Sampled By: MILLHAM
Date Received 12/13/99

Test Performed	Method	Results	Units	Tech	Analy. Date
002 MW-2			Sample Date 12/10/1999 Time: 13:53		
Matrix: Water			Collection Method: Grab		
STARS 8021 in Water	SW-846 Method 8021			LIZ	12/14/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/L	LIZ	12/14/99
Benzene	EPA Method 8021	<0.5	ug/L	LIZ	12/14/99
Toluene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
Ethlybenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
m- & p-Xylenes	EPA Method 8021	<1	ug/L	LIZ	12/14/99
O-Xylene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
Isopropylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
n-Propylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
tert-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
sec-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
p-Isopropyltoluene	EPA Method 8021	1	ug/L	LIZ	12/14/99
n-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
Naphthalene	EPA Method 8021	<5	ug/L	LIZ	12/14/99
Total Xylenes	EPA Method 8021	<3	ug/L	LIZ	12/14/99
STARS 8270 Water	SW-846 Method 8270B			EXL	12/16/99
Sample Analysis by Lab Id #		11369		EXL	12/16/99
Naphthalene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Acenapthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluorene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Phenanthrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Chrysene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(b)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(k)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99

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ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010

Task Number 9912-00192
Customer No. 040772
Project No. A80194
Purchase Order #
Report Date 12/16/99

Sampling Information

Project Location: WEST 57TH ST (DURST)
Sampled By: MILLHAM

Date Received 12/13/99

Test Performed	Method	Results	Units	Tech	Analy. Date
003 MW-3			Sample Date 12/10/1999 Time: 11:44		
Matrix: Water			Collection Method: Grab		
STARS 8021 in Water	SW-846 Method 8021			LIZ	12/14/99
Methyl t-butyl ether	EPA Method 8021	6	ug/L	LIZ	12/14/99
Benzene	EPA Method 8021	58	ug/L	LIZ	12/14/99
Toluene	EPA Method 8021	4	ug/L	LIZ	12/14/99
Ethlybenzene	EPA Method 8021	21	ug/L	LIZ	12/14/99
m- & p-Xylenes	EPA Method 8021	70	ug/L	LIZ	12/14/99
O-Xylene	EPA Method 8021	27	ug/L	LIZ	12/14/99
Isopropylbenzene	EPA Method 8021	23	ug/L	LIZ	12/14/99
n-Propylbenzene	EPA Method 8021	12	ug/L	LIZ	12/14/99
1,3,5-Trimethlybenzene	EPA Method 8021	20	ug/L	LIZ	12/14/99
tert-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/14/99
1,2,4-Trimethylbenzene	EPA Method 8021	37	ug/L	LIZ	12/14/99
sec-Butylbenzene	EPA Method 8021	3	ug/L	LIZ	12/14/99
p-Isopropyltoluene	EPA Method 8021	3	ug/L	LIZ	12/14/99
n-Butylbenzene	EPA Method 8021	7	ug/L	LIZ	12/14/99
Naphthalene	EPA Method 8021	10	ug/L	LIZ	12/14/99
Total Xylenes	EPA Method 8021	97	ug/L	LIZ	12/14/99
STARS 8270 Water	SW-846 Method 8270B			EXL	12/16/99
Sample Analysis by Lab Id #		11369		EXL	12/16/99
Naphthalene	EPA 8270 B/N	4 J	ug/L	EXL	12/16/99
Acenapthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluorene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Phenanthrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluoranthene	EPA 8270 B/N	2 J	ug/L	EXL	12/16/99
Pyrene	EPA 8270 B/N	2 J	ug/L	EXL	12/16/99
Chrysene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(b)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(k)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99

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ATC/NY Associates, Inc.
104 East 25th Street
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New York NY 10010

Task Number 9912-00192
Customer No. 040772
Project No. A80194
Purchase Order #
Report Date 12/16/99

Sampling Information

Project Location: WEST 57TH ST (DURST)
Sampled By: MILLHAM

Date Received 12/13/99

Test Performed	Method	Results	Units	Tech	Analy. Date
004 MW-5			Sample Date 12/10/1999 Time: 14:30		
Matrix: Water			Collection Method: Grab		
STARS 8021 in Water	SW-846 Method 8021			LIZ	12/16/99
Methyl t-butyl ether	EPA Method 8021	110	ug/L	LIZ	12/16/99
Benzene	EPA Method 8021	800	ug/L	LIZ	12/16/99
Toluene	EPA Method 8021	59	ug/L	LIZ	12/16/99
Ethlybenzene	EPA Method 8021	74	ug/L	LIZ	12/16/99
m- & p-Xylenes	EPA Method 8021	35	ug/L	LIZ	12/16/99
O-Xylene	EPA Method 8021	14	ug/L	LIZ	12/16/99
Isopropylbenzene	EPA Method 8021	170	ug/L	LIZ	12/16/99
n-Propylbenzene	EPA Method 8021	390	ug/L	LIZ	12/16/99
1,3,5-Trimethlybenzene	EPA Method 8021	<10	ug/L	LIZ	12/16/99
tert-Butylbenzene	EPA Method 8021	<10	ug/L	LIZ	12/16/99
1,2,4-Trimethylbenzene	EPA Method 8021	<10	ug/L	LIZ	12/16/99
sec-Butylbenzene	EPA Method 8021	31	ug/L	LIZ	12/16/99
p-Isopropyltoluene	EPA Method 8021	<10	ug/L	LIZ	12/16/99
n-Butylbenzene	EPA Method 8021	78	ug/L	LIZ	12/16/99
Naphthalene	EPA Method 8021	70	ug/L	LIZ	12/16/99
Total Xylenes	EPA Method 8021	49	ug/L	LIZ	12/16/99
STARS 8270 Water	SW-846 Method 8270B			EXL	12/16/99
Sample Analysis by Lab Id #		11369		EXL	12/16/99
Naphthalene	EPA 8270 B/N	30	ug/L	EXL	12/16/99
Acenapthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluorene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Phenanthrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Chrysene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(b)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(k)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo(a)pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<5	ug/L	EXL	12/16/99

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ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010

Task Number 9912-00192
Customer No. 040772
Project No. A80194
Purchase Order #
Report Date 12/16/99

Sampling Information

Project Location: WEST 57TH ST (DURST)
Sampled By: MILLHAM

Date Received 12/13/99

Test Performed	Method	Results	Units	Tech	Analy. Date

Unless otherwise noted, samples were analyzed within the holding times specified in the analyical method.

Authorized for Release: Carol L. Gagnon
Carol L. Gagnon, Acting Laboratory Director

NYS ELAP:10358 MA DEP:NY052 CT DEP:PH-0551

SCHEAR ALBANY, INC.
15 Century Hill Drive
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Latham, NY 12110
518-786-8100
FAX 518-786-7700

CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

TASK # 9912-00192

Client ATC
Client Contact David Winslow
Project Location West 57th Street (Durst)
Purchase Order

Sampler's Name Matt Millham, Loan Dinh
(please print)
Contact Matt Millham 212 353 8230
Turnaround Time Requested 7 Day Standard

LAB ID	Sample ID/Description	Date Sampled	Time A = a.m. P = p.m.	Sample Type: Matrix	Sample Type: COMP	Sample Type: GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
1	MW-1	12/10	1:18	water		X	3	1, 10	8021 Stars
1	MW-1		1:21				2	4, 10	8270 Stars BN/AE
2	MW-2		1:53				3	1, 10	8021 Stars
2	MW-2		1:58				2	4, 10	8270 Stars BN/AE
3	MW-3		11:44				3	1, 10	8021 Stars
3	MW-3		11:46				2	10	8270 Stars BN/AE
4	MW-5		2:30				3	1, 10	8021 Stars
4	MW-5		2:30				2	4, 10	8270 Stars BN/AE

	Date/Time		Date/Time
Sampled by: (signature)	12/10 2:52	Received by: (signature)	12/10
Relinquished by: (signature)	12/10/09	Received by: (signature)	
Relinquished by: (signature)		Received by: (signature)	
Dispatched by: (signature)		Received for Laboratory by:	12-13-09 8:00

Preservatives

1. HCl
2. HNO_3
3. NaOH
4. NaS_2O_3
5. Zn Acet
6. Ascorbic
7. H_2SO_4
8. F (Filtered)
9. N (not preserved)
10. Other

Sample Condition

1. Samples intact? (Y) N
2. Custody seals intact? (Y) N
3. Preserved properly? (Y) N
4. Ambient or chilled? (Y) N
5. C.O.C. received with samples? (Y) N

NOTES/COMMENTS/BILLING INFORMATION:

Method of Shipment: Fedex

Date: 12-13-09

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ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010
DAVE WINSLOW

Task Number: 9912-00233
Customer No.: 040772
Project No.: A80194
Purchase Order #:
Report Date: 12/21/99

Sampling Information

Project Location: DURST 57TH ST
Sampled By: MILLHAM

Date Received: 12/16/99

Test Performed	Method	Results	Units	Tech	Analy. Date
001 MW-4			Sample Date 12/15/1999 Time: 12:31		
Matrix: Water			Collection Method: Grab		
STARS 8021 in Water	SW-846 Method 8021			LIZ	12/16/99
Methyl t-butyl ether	EPA Method 8021	<1	ug/L	LIZ	12/16/99
Benzene	EPA Method 8021	<0.5	ug/L	LIZ	12/16/99
Toluene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
Ethlybenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
m- & p-Xylenes	EPA Method 8021	<1	ug/L	LIZ	12/16/99
O-Xylene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
Isopropylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
n-Propylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
1,3,5-Trimethlybenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
tert-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
1,2,4-Trimethylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
sec-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
p-Isopropyltoluene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
n-Butylbenzene	EPA Method 8021	<1	ug/L	LIZ	12/16/99
Naphthalene	EPA Method 8021	<5	ug/L	LIZ	12/16/99
Total Xylenes	EPA Method 8021	<3	ug/L	LIZ	12/16/99
STARS 8270 Water	SW-846 Method 8270B			EXL	12/21/99
Sample Analysis by Lab Id #		11369		EXL	12/21/99
Naphthalene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Acenapthene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Fluorene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Phenanthrene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Chrysene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Benzo(a)anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Benzo(b)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Benzo(k)fluoranthene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Benzo(a)pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Indeno (1,2,3-cd)Pyrene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Dibenzo(a,h)Anthracene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99
Benzo (g,h,i) perylene	EPA 8270 B/N	<5	ug/L	EXL	12/21/99

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ATC/NY Associates, Inc.
104 East 25th Street
10th Floor
New York NY 10010
DAVE WINSLOW

Task Number 9912-00233
Customer No. 040772
Project No. A80194
Purchase Order #
Report Date 12/21/99

Sampling Information

Project Location: DURST 57TH ST
Sampled By: MILLHAM

Date Received 12/16/99

Test Performed	Method	Results	Units	Tech	Analy. Date

Unless otherwise noted, samples were analyzed within the holding times specified in the analyical method.

Authorized for Release: Carol L. Gagnon
Carol L. Gagnon, Acting Laboratory Director

NYS ELAP:10358 MA DEP:NY052 CT DEP:PH-0551

CILAB ALBANY, INC.
Century Hill Drive
O. Box 787
itham, NY 12110
8-786-8100
AX 518-786-7700

CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

TASK # 9912-00233

lient ATC
lient Contact David Winslow 212-353-8280
oject Location Durst 57th Street
urchase Order

Sampler's Name Matt Millham
(please print)
Contact 212 353-8280
Turnaround Time Requested 7-Day

LAB ID	Sample ID/Description	Date Sampled	Time A = a.m. P = p.m.	Sample Type: Matrix	Sample Type: COMP	Sample Type: GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
15	MW-4	12/15	12:31	water		X	3	1	8021 Stars
16	MW-4	12/15	12:33	water		X	2	4	8270 Stars.

Sampled by: (signature)	Date/Time 12/15 12:40	Received by: (signature)	Date/Time 12/15/99 1430
Relinquished by: (signature)		Received by: (signature)	
Relinquished by: (signature)		Received by: (signature)	
Dispatched by: (signature)		Received for Laboratory by:	12-16-99 10:00

NOTES/COMMENTS/BILLING INFORMATION:

Preservatives

1. HCl	6. Ascorbic
2. HNO_3	7. H_2SO_4
3. NaOH	8. F (Filtered)
4. NaS_2O_3	9. N (not preserved)
5. Zn Acet	10. Other

Method of Shipment: Fedex

Sample Condition

1. Samples intact?	(Y) N
2. Custody seals intact?	(Y) N
3. Preserved properly?	(Y) N
4. Ambient or chilled?	
5. C.O.C. received with samples?	(Y) N

Date: 12-16-99

APPENDIX D: Monitoring Well Installation Details/Field Logs

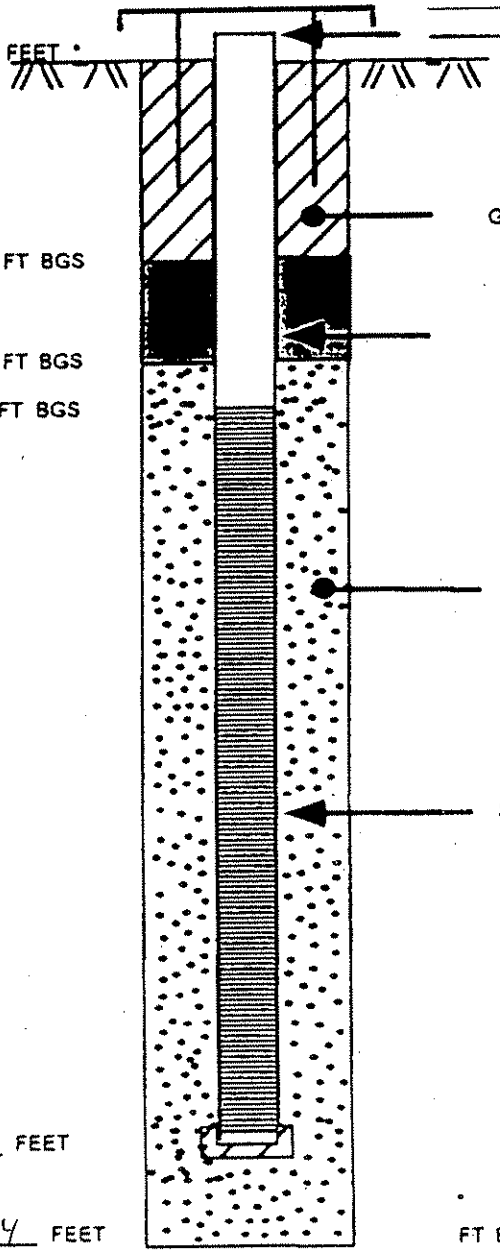
MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT NO.: 18346-0001
PROJECT NAME: West 57th St
CLIENT: DURST
SITE LOCATION: West 58th St

MONITORING WELL NAME: MW-1
INSTALLATION DATE(S): 11/16/99
COUNTY:
PERMIT NUMBER:

ELEVATION OF OUTER PROTECTIVE PROTESTIVE CASING _____ FEET *
GROUNDSURFACE ELEVATION _____ FEET *

HEIGHT OF MEASURING POINT (feet) _____
FEET* ELEVATION OF TOP OF CASING (MEASURING POINT)



GROUT/SEAL native Bentonite

DEPTH TO TOP OF Bentonite SEAL 5.5 FT BGS

CASING TYPE PVC
SCHEDULE 40
DIAMETER 2"

DEPTH TO TOP OF SAND PACK 7 FT BGS
DEPTH TO TOP OF SCREEN 8 FT BGS

SAND PACK TYPE #2

SCREEN TYPE PVC
SCHEDULE 40
DIAMETER 2"
SLOT SIZE .020

DEPTH TO BOTTOM OF SCREEN 23' FEET

DEPTH TO BOTTOM OF BOREHOLE 24 FEET

* RELATIVE TO MEAN SEA LEVEL
FT BGS FEET BELOW GROUND SURFACE

DRILLING METHOD: _____
DRILLING CONTRACTOR: _____
REMARKS (WELL DRILLING): (DEPTH TO WATER) _____
WELL DEVELOPMENT TECHNIQUE: _____
REMARKS (WELL DEVELOPMENT): (DATE) _____
WELL INSTALLATION SUPERVISED BY: _____

WELL PURPOSE: monitoring well
DRILLING FLUID: _____
FLUID LOSS DURING DRILLING: _____
WATER REMOVED DURING DEVELOPMENT: _____
SIGNATURE: _____

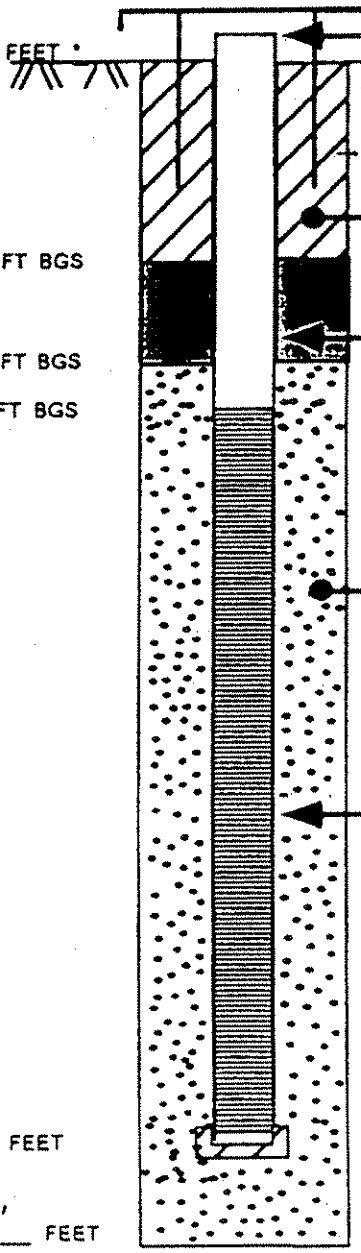
MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT NO.: 18346-0001
PROJECT NAME: West 57th St
CLIENT: DURST organization
SITE LOCATION: West 58th St. + 12th Ave

MONITORING WELL NAME: MW-2
INSTALLATION DATE(S): 11/25/99
COUNTY:
PERMIT NUMBER:

ELEVATION OF OUTER PROTECTIVE PROTESTIVE CASING _____ FEET *
GROUNDSURFACE ELEVATION _____ FEET *

_____ HEIGHT OF MEASURING POINT (feet)
_____ FEET* ELEVATION OF TOP OF CASING (MEASURING POINT)



DEPTH TO TOP OF Bentonite SEAL 5.5 FT BGS

DEPTH TO TOP OF SAND PACK 7 FT BGS

DEPTH TO TOP OF SCREEN 8 FT BGS

GROUT/SEAL Bentonite

CASING TYPE PVC
SCHEDULE 40
DIAMETER 2"

SAND PACK TYPE #2

SCREEN TYPE PVC
SCHEDULE 40
DIAMETER 2"
SLOT SIZE .020

DEPTH TO BOTTOM OF SCREEN 23' FEET

DEPTH TO BOTTOM OF BOREHOLE 24' FEET

* RELATIVE TO MEAN SEA LEVEL
FT BGS FEET BELOW GROUND SURFACE

DRILLING METHOD: Hollow stem
DRILLING CONTRACTOR: ADT
REMARKS (WELL DRILLING): (DEPTH TO WATER) 13'
WELL DEVELOPMENT TECHNIQUE:
REMARKS (WELL DEVELOPMENT): (DATE)
WELL INSTALLATION SUPERVISED BY: Winslow

WELL PURPOSE: monitoring well
DRILLING FLUID: None
FLUID LOSS DURING DRILLING: NA
WATER REMOVED DURING DEVELOPMENT:
SIGNATURE:

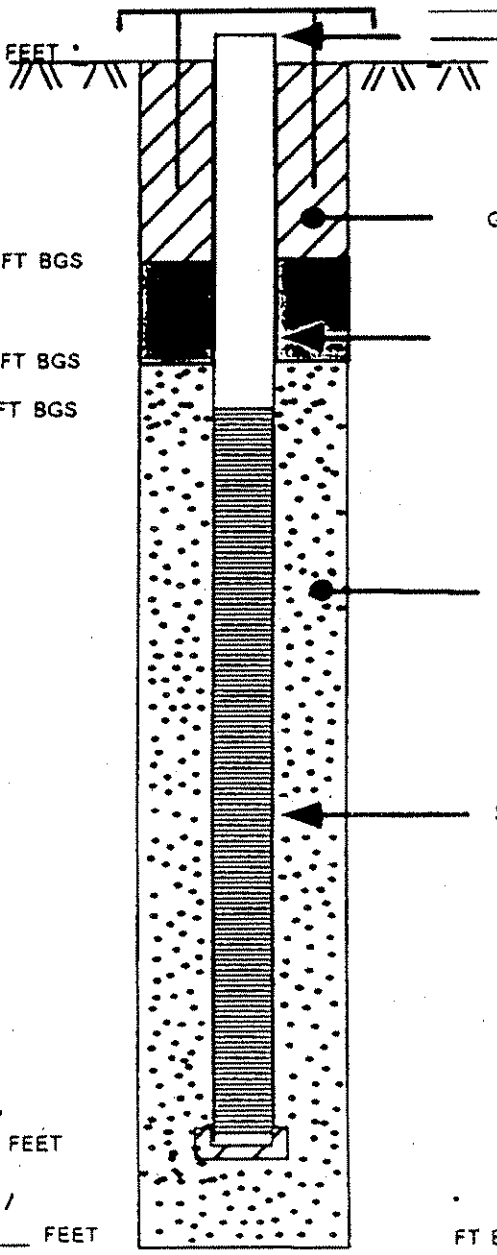
MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT NO.: 18376-0001
PROJECT NAME: West 57th St
CLIENT: BURST
SITE LOCATION: West 57th St

MONITORING WELL ~~NAME~~: MW-3
INSTALLATION DATE(S): 11/15/99
COUNTY: NY
PERMIT NUMBER:

ELEVATION OF OUTER PROTECTIVE PROTESTIVE CASING _____ FEET *
GROUNDSURFACE ELEVATION _____ FEET *

HEIGHT OF MEASURING POINT (feet) _____
FEET* ELEVATION OF TOP OF CASING (MEASURING POINT)



DEPTH TO TOP OF Bentonite SEAL 5.5' FT BGS

DEPTH TO TOP OF SAND PACK 7' FT BGS

DEPTH TO TOP OF SCREEN 8' FT BGS

GROUT/SEAL _____

CASING TYPE PVC
SCHEDULE 40
DIAMETER 2"

SAND PACK TYPE #1

SCREEN TYPE PVC
SCHEDULE 40
DIAMETER 2"
SLOT SIZE 010

DEPTH TO BOTTOM OF SCREEN 23' FEET

DEPTH TO BOTTOM OF BOREHOLE 24' FEET

* RELATIVE TO MEAN SEA LEVEL
FT BGS FEET BELOW GROUND SURFACE

DRILLING METHOD: _____
DRILLING CONTRACTOR: _____
REMARKS (WELL DRILLING): (DEPTH TO WATER) _____
WELL DEVELOPMENT TECHNIQUE: _____
REMARKS (WELL DEVELOPMENT): (DATE) _____
WELL INSTALLATION SUPERVISED BY: _____

WELL PURPOSE: monitoring well
DRILLING FLUID: _____
FLUID LOSS DURING DRILLING: _____
WATER REMOVED DURING DEVELOPMENT: _____
SIGNATURE: _____

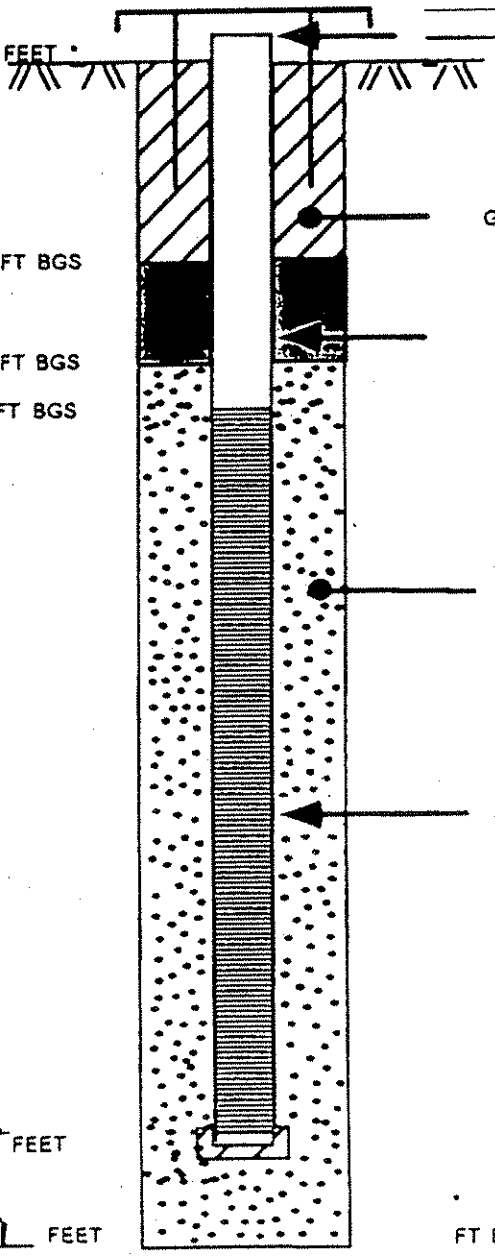
MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT NO.: _____
PROJECT NAME: West 57th
CLIENT: UNOCAL
SITE LOCATION: _____

MONITORING WELL NAME: MW-4
INSTALLATION DATE(S): 11/15/89
COUNTY: _____
PERMIT NUMBER: _____

ELEVATION OF OUTER PROTECTIVE PROTESTIVE CASING _____ FEET *
GROUNDSURFACE ELEVATION _____ FEET *

HEIGHT OF MEASURING POINT (feet) _____
FEET* ELEVATION OF TOP OF CASING (MEASURING POINT)



DEPTH TO TOP OF Bentonite SEAL 6.5 FT BGS

DEPTH TO TOP OF SAND PACK 7.5 FT BGS

DEPTH TO TOP OF SCREEN 8.5 FT BGS

GROUT/SEAL _____

CASING TYPE PVC
SCHEDULE 40
DIAMETER 2"

SAND PACK TYPE #1

SCREEN TYPE PVC
SCHEDULE 40
DIAMETER 2"
SLOT SIZE 0.10

DEPTH TO BOTTOM OF SCREEN 18.5 FEET

DEPTH TO BOTTOM OF BOREHOLE 19 FEET

* RELATIVE TO MEAN SEA LEVEL
FT BGS FEET BELOW GROUND SURFACE

DRILLING METHOD: _____
DRILLING CONTRACTOR: _____
REMARKS (WELL DRILLING): (DEPTH TO WATER) _____
WELL DEVELOPMENT TECHNIQUE: _____
REMARKS (WELL DEVELOPMENT): (DATE) _____
WELL INSTALLATION SUPERVISED BY: _____

WELL PURPOSE: monitoring well
DRILLING FLIUD: _____
FLUID LOSS DURING DRILLING: _____
WATER REMOVED DURING DEVELOPMENT: _____
SIGNATURE: _____

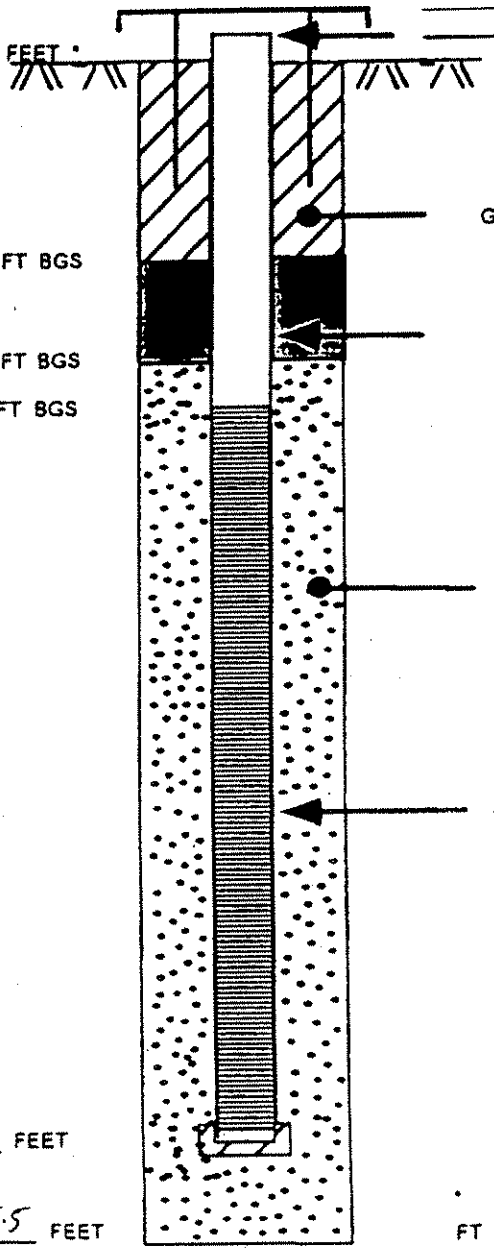
MONITORING WELL CONSTRUCTION DIAGRAM

PROJECT NO.: 18376-0001
PROJECT NAME: WOTSM
CLIENT: DURST
SITE LOCATION: Airborne

MONITORING WELL NAME: MW-5
INSTALLATION DATE(S): 12/7/99
COUNTY:
PERMIT NUMBER:

ELEVATION OF OUTER PROTECTIVE PROTESTIVE CASING _____ FEET *
GROUNDSURFACE ELEVATION _____ FEET *

HEIGHT OF MEASURING POINT (feet) _____
FEET* ELEVATION OF TOP OF CASING (MEASURING POINT) _____



DEPTH TO TOP OF Bentonite SEAL 3 FT BGS
DEPTH TO TOP OF SAND PACK 4 FT BGS
DEPTH TO TOP OF SCREEN 5 FT BGS

GROUT/SEAL Native
CASING TYPE PVC
SCHEDULE 40
DIAMETER 2"
SAND PACK TYPE #2
SCREEN TYPE PVC
SCHEDULE 40
DIAMETER 2"
SLOT SIZE .020

DEPTH TO BOTTOM OF SCREEN 25 FEET
DEPTH TO BOTTOM OF BOREHOLE 25.5 FEET

* RELATIVE TO MEAN SEA LEVEL
FT BGS FEET BELOW GROUND SURFACE

DRILLING METHOD:
DRILLING CONTRACTOR:
REMARKS (WELL DRILLING): (DEPTH TO WATER)
WELL DEVELOPMENT TECHNIQUE:
REMARKS (WELL DEVELOPMENT): (DATE)
WELL INSTALLATION SUPERVISED BY:

WELL PURPOSE: monitoring well
DRILLING FLIUD:
FLUID LOSS DURING DRILLING:
WATER REMOVED DURING DEVELOPMENT:
SIGNATURE:

ATC Associates, Inc.

104 East 25th Street
New York, New York 10010
(212) 353-8280

Monitoring Well
Development, Purging and Sampling Data Log

Project No.:	18346-0001	**Monitoring Well:**	MW 1
Project Name:	Watertown	**Well Casing Diameter:**	2 in.
Project Manager:	Winslow	**Well Stick-up Height:**	N/A ft.
Project Location:		**Depth of Well from Top of Well Casing:**	24.2 ft.
Water Analyzer Used:		**Depth of Well from Top of Roadbox Casing:**	ft.

WELL DEVELOPMENT DATA

DATE: 12/7/99	Time	Distance from Top of Well Casing to: Water (ft.)	Free Product (ft.)	Height of Water Column (ft.)	Volume Factor[1]	Well Volume (gal.)
Before Development						
After Development				NA	NA	NA

Volume of Groundwater Removed During Development: 5 gal.

Comments:

WELL PURGING AND SAMPLING DATA

DATE: 12/10/99

Distance from top of well casing to water: 14.12 ft.

Distance from top of well casing to free product: ft.

Number of Well Volumes	Time	pH	Temp °C	Conductivity uS/cm	Dissolved Oxygen (ppm)
0	1:00 pm	7.12	15.4	0.0	10.07
1	1.02	7.19	17.6	.969	1.05
2	1 04	7.13	17 4	1.21	[illegible]
3	1:06	7.12	17.7	1 06	30
4	1 08	7.13	17.7	1 03	[illegible]
5					

Comments:

Notes:

[1]Volume Factor = 0.163 gal./ft. and 0.653 gal./ft. for 2" and 4" diameter well casings, respectively.
NA = Not Applicable

ATC Associates, Inc.

104 East 25th Street
New York, New York 10010
(212) 353-8280

Monitoring Well
Development, Purging and Sampling Data Log

Project No.:	18346-0001	**Monitoring Well:**	MW 2
Project Name:	West 57th St	**Well Casing Diameter:**	2 in.
Project Manager:	Winslow	**Well Stick-up Height:**	NA ft.
Project Location:		**Depth of Well from Top of Well Casing:**	22.37 ft.
Water Analyzer Used:		**Depth of Well from Top of Roadbox Casing:**	ft.

WELL DEVELOPMENT DATA

DATE: 12/7/99	Time	Distance from Top of Well Casing to: Water (ft.)	Free Product (ft.)	Height of Water Column (ft.)	Volume Factor[1]	Well Volume (gal.)
Before Development						
After Development				NA	NA	NA

Volume of Groundwater Removed During Development: 5 gal.

Comments:

WELL PURGING AND SAMPLING DATA

DATE: 12/10/99

Distance from top of well casing to water: 7.74 ft.

Distance from top of well casing to free product: ft.

Number of Well Volumes	Time	pH	Temp °C	Conductivity uS/cm	Dissolved Oxygen (ppm)
0	1:44	6.7	15.0	.075	10.23
1	1:46	7.05	16.3	20.7	1.74
2	1:48	7.12	16.3	20.7	.84
3	1:50	7.10	16.3	20.6	.97
4	1:52	7.08	16.1	20.5	.17
5					

Comments:

Notes:

[1]Volume Factor = 0.163 gal./ft. and 0.653 gal./ft. for 2" and 4" diameter well casings, respectively.
NA = Not Applicable

ATC Associates, Inc.

104 East 25th Street
New York, New York 10010
(212) 353-8280

Monitoring Well
Development, Purging and Sampling Data Log

Project No.:	1834-001	**Monitoring Well:**	MW 3
Project Name:	WEGY 57	**Well Casing Diameter:**	2 in.
Project Manager:		**Well Stick-up Height:**	N/A ft.
Project Location:		**Depth of Well from Top of Well Casing:**	23.5 ft.
Water Analyzer Used:		**Depth of Well from Top of Roadbox Casing:**	ft.

WELL DEVELOPMENT DATA

DATE: 12/8/99	Time	Distance from Top of Well Casing to: Water (ft.)	Free Product (ft.)	Height of Water Column (ft.)	Volume Factor[1]	Well Volume (gal.)
Before Development						
After Development				NA	NA	NA

Volume of Groundwater Removed During Development: 5 gal.

Comments:

WELL PURGING AND SAMPLING DATA

DATE: 12/10/99

Distance from top of well casing to water: 11.45 ft.

Distance from top of well casing to free product: ft.

Number of Well Volumes	Time	pH	Temp °C	Conductivity uS/cm	Dissolved Oxygen (ppm)
0	11:23	6.82	19.0	0	8.43
1	11:25	7.14	18.0	5.01	1.70
2	11:27	7.15	17.0	5.03	0.55
3	11:29	7.16	17.5	5.00	0.91
4		7.17	17.5	4.99	0.96
5					

Comments:

Notes:

[1]Volume Factor = 0.163 gal./ft. and 0.653 gal./ft. for 2" and 4" diameter well casings, respectively.
NA = Not Applicable

ATC Associates, Inc.

104 East 25th Street
New York, New York 10010
(212) 353-8280

Monitoring Well
Development, Purging and Sampling Data Log

Project No.: 18346 - 0001	**Monitoring Well:** MW-4
Project Name: West 57 St.	**Well Casing Diameter:** 2 in.
Project Manager: Winslow	**Well Stick-up Height:** NA ft.
Project Location:	**Depth of Well from Top of Well Casing:** ft.
Water Analyzer Used:	**Depth of Well from Top of Roadbox Casing:** ft.

WELL DEVELOPMENT DATA

DATE: 12/8/99		Distance from Top of Well Casing to:		Height of Water Column (ft.)	Volume Factor[1]	Well Volume (gal.)
	Time	Water (ft.)	Free Product (ft.)			
Before Development						
After Development				NA	NA	NA

Volume of Groundwater Removed During Development: 5 gal.

Comments:

WELL PURGING AND SAMPLING DATA

DATE: 12/15/99

Distance from top of well casing to water: 10.38 ft.

Distance from top of well casing to free product: — ft.

Number of Well Volumes	Time	pH	Temp °C	Conductivity uS/cm	Dissolved Oxygen (ppm)
0					
1					
2					
3					
4	12:20	—	—	—	—
5					

Comments:

Notes:

[1]Volume Factor = 0.163 gal./ft. and 0.653 gal./ft. for 2" and 4" diameter well casings, respectively.
NA = Not Applicable

ATC Associates, Inc.

104 East 25th Street
New York, New York 10010
(212) 353-8280

Monitoring Well
Development, Purging and Sampling Data Log

Project No.:	18346-0001	**Monitoring Well:**	MW 5
Project Name:	West 57th St	**Well Casing Diameter:**	2 in.
Project Manager:	Winslow	**Well Stick-up Height:**	n/a ft.
Project Location:		**Depth of Well from Top of Well Casing:**	22.16 ft.
Water Analyzer Used:		**Depth of Well from Top of Roadbox Casing:**	ft.

WELL DEVELOPMENT DATA

DATE: 12/8/99	Time	Distance from Top of Well Casing to: Water (ft.)	Free Product (ft.)	Height of Water Column (ft.)	Volume Factor[1]	Well Volume (gal.)
Before Development						
After Development				NA	NA	NA

Volume of Groundwater Removed During Development: 5 gal.

Comments:

WELL PURGING AND SAMPLING DATA

DATE: 12/10/99

Distance from top of well casing to water: 18.98 ft.

Distance from top of well casing to free product: ft.

Number of Well Volumes	Time	pH	Temp °C	Conductivity uS/cm	Dissolved Oxygen (ppm)
0	2:15	6.9	14.7	2.54	9.67
1	2:17	7.0	18.6	1.13	4.27
2	2:19	6.95	18.1	1.04	3.9
3	2:21	6.93	18.3	1.01	3.99
4	2:23	6.92	18.4	1.00	3.93
5					

Comments:

Notes:

[1]Volume Factor = 0.163 gal./ft. and 0.653 gal./ft. for 2" and 4" diameter well casings, respectively.
NA = Not Applicable

APPENDIX E: Previous Laboratory Results

Table 1
Detected Volatile Organic Compounds in Soil
Artkraft Sign Company Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	AK1-3	AK1-10	AK2-5	AK3-2.5	AK3-10	AK4-7	AK4-12	AK5-7	AK5-7	AK5-11	AK6-3.5	AK6-11	AK7-7.7	AK7-7.7	AK7-9.5	AK8-11	STARS AGV/
BORING NO.>>	AKSS-1	AKSS-1	AKSS-2	AKSS-3	AKSS-3	AKSS-4	AKSS-4	AKSS-5	AKSS-5	AKSS-5	AKSS-6	AKSS-6	AKSS-7	AKSS-7	AKSS-7	AKSS-8	TAGM SCO
Depth (ft)>>	3.0-4.0	10.0-11.0	5.0-5.5	2.5-3.5	10.0-11.0	7.0-8.0	12.0-13.0	7.0-8.0	7.0-8.0	11.0-12.0	3.5-4.0	11.0-11.5	7.7-8.0	7.7-8.0	9.5-10.0	11.0-12.0	
									*					*			
VOCS: (µg/kg)																	
Acetone	<140	120	87	<1,400	180	<2,900	25	<1,500	NA	<13	<2,700	65	<1,400	NA	16	86	200(TAGM)
2-Butanone (MEK)	<140	36	69	<1,400	55	<2,900	<12	<1,500	NA	<13	<2,700	16	<1,400	NA	<12	12	300(TAGM)
Benzene	<68	**14**	<6	**1,500**	<9	<1,500	<6	<730	<290	<6	<1,300	<6	<700	<280	<6	<6	14(STARS)
Trichloroethene	<68	<9	<6	<720	<9	<1,500	<6	<730	NA	<6	**2,100**	<6	<700	NA	<6	<6	700(TAGM)
Toluene	<68	<9	<6	<720	<9	<1,500	<6	<730	<580	<6	<1,300	<6	<700	<570	<6	<6	100(STARS)
Tetrachloroethene	<68	<9	<6	<720	<9	<1,500	<6	<730	NA	<6	<1,300	<6	<700	NA	<6	<6	1400(TAGM)
1,3,5-Trimethylbenzene	<68	<9	<6	<720	<9	<1,500	<6	<730	NA	<6	<1,300	<6	<700	NA	<6	<6	100(STARS)
Ethylbenzene	<68	<9	<6	<720	<9	<1,500	<6	<730	<580	<6	<1,300	<6	<700	<570	<6	<6	100(STARS)
Total Xylenes	<68	<9	22	**1,100**	<9	<1,500	<6	<730	**2,600**	<6	<1,300	<6	<700	**4,000**	<6	<6	100(STARS)
m- & p-Xylenes	NA	NA	NA	NA	NA	NA	NA	NA	<580	NA	NA	NA	NA	**1,100**	NA	NA	100(STARS)
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	**2,600**	NA	NA	NA	NA	**2,900**	NA	NA	100(STARS)
isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	**1,600**	NA	NA	NA	NA	**2,100**	NA	NA	100(STARS)
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	**6,200**	NA	NA	NA	NA	**10,000**	NA	NA	100(STARS)
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	**1,700**	NA	NA	NA	NA	**3,300**	NA	NA	100(STARS)
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	**4,800**	NA	NA	NA	NA	**7,400**	NA	NA	100(STARS)
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	**810**	NA	NA	NA	NA	**1,400**	NA	NA	100(STARS)
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	**3,000**	NA	NA	NA	NA	<570	NA	NA	200(STARS)
MTBE	NA	NA	NA	NA	NA	NA	NA	NA	<580	NA	NA	NA	NA	<570	NA	NA	1000(STARS)

*** These samples were analyzed under EPA8260 and EPA 8021.**

STARS AGV - **New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based VOCs.**

TAGM SCO - **NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality.**
TAGM SCOs are applied to non-petroleum VOCs not listed under the NYSDEC STARS Memo.

NA - **Not Analyzed**

Shaded boxes with bold results indicate VOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 2
Detected Semi-Volatile Organic Compounds in Soil
Artkraft Sign Company Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	AK1-3	AK1-10	AK2-5	AK3-2.5	AK3-10	AK4-7	AK4-12	AK5-7	AK5-7	AK5-11	AK6-3.5	AK6-11	AK7-7.7	AK7-7.7	AK7-9.5	AK8-11	STARS AGV/
BORING NO.>>	AKSS-1	AKSS-1	AKSS-2	AKSS-3	AKSS-3	AKSS-4	AKSS-4	AKSS-5	AKSS-5	AKSS-5	AKSS-6	AKSS-6	AKSS-7	AKSS-7	AKSS-7	AKSS-8	TAGM SCO
Depth (ft)>>	3.0-4.0	10.0-11.0	5.0-5.5	2.5-3.5	10.0-11.0	7.0-8.0	12.0-13.0	7.0-8.0	7.0-8.0	11.0-12.0	3.5-4.0	11.0-11.5	7.7-8.0	7.7-8.0	9.5-10.0	11.0-12.0	
SVOCs: (µg/kg)																	
Naphthalene	<230	**750**	<2,200	**800**	**370**	<980	<200	<970	NA	NA	NA	NA	NA	NA	NA	<970	200
Acenaphthylene	<230	<310	<2,200	NA	NA	<980	NA	NA	NA	NA	NA	NA	NA	NA	NA	<970	50,000
Acenapthene	<230	**980**	**76,000**	<190	<280	<980	<200	<970	NA	NA	NA	NA	NA	NA	NA	<970	400
Fluorene	<230	620	**8,400**	<190	<280	<980	<200	<970	NA	NA	NA	NA	NA	NA	NA	<970	1,000
Phenanthrene	<230	**2,500**	**26,000**	520	**1,100**	<980	510	<970	NA	NA	NA	NA	NA	NA	NA	**5,200**	1,000
Anthracene	<230	**1,100**	**9,900**	<190	450	<980	<200	<970	NA	NA	NA	NA	NA	NA	NA	**1,100**	1,000
Fluoranthene	340	**1,400**	**21,000**	600	800	<980	710	<970	NA	NA	NA	NA	NA	NA	NA	**6,100**	1,000
Pyrene	<230	**2,000**	**20,000**	670	**1,100**	<980	660	<970	NA	NA	NA	NA	NA	NA	NA	**4,700**	1,000
Benzo(a)anthracene	<230	**1,200**	**14,000**	480	<280	<980	**420**	<970	NA	NA	NA	NA	NA	NA	NA	**3,400**	330
Chrysene	<230	**1,100**	**12,000**	500	<280	<980	**380**	<970	NA	NA	NA	NA	NA	NA	NA	**3,000**	330
Benzo(b)fluoranthene	**430**	**950**	**13,000**	**600**	**470**	<980	**360**	<970	NA	NA	NA	NA	NA	NA	NA	**3,200**	330
Benzo(k)fluoranthene	<230	**370**	**5,000**	250	<280	<980	<200	<970	NA	NA	NA	NA	NA	NA	NA	**1,300**	330
Benzo(a)pyrene	<230	**1,100**	**11,000**	520	<280	<980	**330**	<970	NA	NA	NA	NA	NA	NA	NA	**2,400**	330
Benzo(g,h,i)perylene	<230	**690**	<2,200	<90	<280	<980	<200	<970	NA	NA	NA	NA	NA	NA	NA	**1,100**	330
Indeno-(1,2,3-cd)Pyrene	<230	**470**	**6,200**	<190	<280	<980	<200	<970	NA	NA	NA	NA	NA	NA	NA	**1,100**	330
2-Methyl Naphthalene	<230	490	22,000	NA	NA	2,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36,400
Dibenzofuran	<230	<310	**5,000**	<190	<280	<980	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	620

STARS AGV - **New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based SVOCs.**

TAGM SCO - **NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality.**
TAGM SCOs are applied to non-petroleum SVOCs not listed under the NYSDEC STARS Memo.

NA - **Not Analyzed**

Shaded boxes with bold results indicate SVOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 3

PCB and RCRA Heavy Metal Compounds in Soil

Artkraft Sign Company Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	AK1-3	AK1-10	AK2-5	AK3-2.5	AK3-10	AK4-7	AK4-12	AK5-7	AK5-7	AK5-11	AK6-3.5	AK6-11	AK7-7.7	AK7-7.7	AK7-9.5	AK8-11	STARS AGV/
BORING NO.>>	AKSS-1	AKSS-1	AKSS-2	AKSS-3	AKSS-3	AKSS-4	AKSS-4	AKSS-5	AKSS-5	AKSS-5	AKSS-6	AKSS-6	AKSS-7	AKSS-7	AKSS-7	AKSS-8	TAGM SCO
Depth (ft)>>	3.0-4.0	10.0-11.0	5.0-5.5	2.5-3.5	10.0-11.0	7.0-8.0	12.0-13.0	7.0-8.0	7.0-8.0	11.0-12.0	3.5-4.0	11.0-11.5	7.7-8.0	7.7-8.0	9.5-10.0	11.0-12.0	
PCBs:																	
PCB-1016	<0.7	<0.9	NA	NA	NA	<0.6	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	10,000
PCB-1221	<0.7	<0.9	NA	NA	NA	<0.6	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	10,000
PCB-1232	<0.7	<0.9	NA	NA	NA	<0.6	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	10,000
PCB-1242	<0.7	<0.9	NA	NA	NA	<0.6	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	10,000
PCB-1248	<0.7	<0.9	NA	NA	NA	<0.6	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	10,000
PCB-1254	<0.7	<0.9	NA	NA	NA	<0.6	NA	<0.6	NA	NA	NA	NA	NA	NA	NA	<0.6	10,000
PCB-1260	<0.7	<0.9	NA	NA	NA												
RCRA Heavy Metals																	
Arsenic	NA	NA	NA	NA	NA	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	3-12
Barium	NA	NA	NA	NA	NA	81.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	88.4	15-600
Cadmium	NA	NA	NA	NA	NA	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	0-1.75
Chromium	NA	NA	NA	NA	NA	15.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.4	1.5-40
Lead	NA	NA	NA	NA	NA	50.5	NA	19.4	NA	NA	NA	NA	NA	NA	NA	**540.0**	200-500
Mercury	NA	NA	NA	NA	NA	**0.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.7**	0.001-0.2
Selenium	NA	NA	NA	NA	NA	<8.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.2	0.1-3.9
Silver	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	SB

TAGM SCO - **NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objectives and Cleanup Levels; Recommended Soil Cleanup Objectives. ATC used the TAGM SCO to protect groundwater for PCBs. ATC used Eastern USA Background Levels listed in TAGM for heavy metals.**

SB - **Site Background**

NA - **Not Analyzed**

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Shaded boxes with bold results indicate PCB or heavy metal concentrations above NYSDEC TAGM Eastern USA Background Levels for metals or the TAGM Soil Cleanup Objective to protect groundwater for PCBs.

Table 4
Detected Volatile Organic Compounds in Soil
Airborne Express Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	AX1-9	AX1-15	AX2-6	AX3-14	AX4-3	AX4-14.5	AX5-11	AX6-15	AX7-13	AX7-15	AX8-15	AX9-14.5	AX10-7	AX10-14	AX11-6.5	AX12-11	AX12-18	AX13-11	STARS AGV/
BORING NO.>>	AIRX-1	AIRX-1	AIRX-2	AIRX-3	AIRX-4	AIRX-4	AIRX-5	AIRX-6	AIRX-7	AIRX-7	AIRX-8	AIRX-9	AIRX-10	AIRX-10	AIRX-11	AIRX-12	AIRX-12	AIRX-13	TAGM SCO
Depth (ft)>>	9.0-10.0	15.0-16.0	6.0-7.0	14.0-15.0	3.0-4.0	14.5-15.5	11.0-12.0	15.0-16.0	13.0-14.0	15.0-16.0	15.0-16.0	14.5-15.5	7.0-8.0	14.0-15.0	6.5-7.5	11.0-12.0	18.0-19.0	11.0-12.0	
VOCs: (µg/kg)																			
Acetone	<1,500	<7,300	<1,400	11,000	<1,500	<1,600	<1,600	<3,000	28	<1,500	<5,700	<5,900	<1,400	22	<1,500	<11	33	<12	200 (TAGM)
2-Butanone (MEK)	<1,500	<7,300	<1,400	<3,300	<1,500	<1,600	<1,600	<3,000	<11	<1,500	<5,700	<5,900	<1,400	<12	<1,500	<11	<13	<12	300 (TAGM)
Benzene	<760	<3,700	<690	**2,900**	<740	**1,000**	<800	<1,500	<6	<740	<2,900	<3,000	<710	<5	<740	<6	<6	<6	14 (STARS)
Trichloroethene	<760	<3,700	<690	<1,700	<740	<800	<800	<1,500	<6	<740	<2,900	<3,000	<710	<5	<740	<6	<6	<6	700 (TAGM)
Toluene	<760	<3,700	<690	<1,700	<740	<800	<800	<1,500	<6	<740	<2,900	<3,000	<710	<5	<740	<6	<6	<6	100 (STARS)
1,3,5-Trimethylbenzene	<760	<3,700	<690	<1,700	<740	<800	<800	<1,500	<6	<740	<2,900	<3,000	<710	<5	<740	<6	<6	<6	100 (STARS)
Ethylbenzene	<760	<3,700	<690	**4,100**	<740	**13,000**	**910**	<1,500	<6	<740	<2,900	<3,000	**2,200**	<5	**7,300**	<6	<6	<6	100 (STARS)
Total Xylenes	<760	**4,700**	<690	**5,000**	**950**	**5,100**	**920**	<1,500	<6	<740	<2,900	<3,000	**40,000**	<5	**100,000**	<6	<6	<6	100 (STARS)

STARS AGV - New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based VOCs.

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality. TAGM SCOs are applied to non-petroleum VOCs not listed under the NYSDEC STARS Memo.

Shaded boxes with bold results indicate VOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 5
Detected Semi-Volatile Organic Compounds in Soil
Airborne Express Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	AX1-9	AX1-15	AX2-6	AX3-14	AX4-3	AX4-14.5	AX5-11	AX6-15	AX7-13	AX7-15	AX8-15	AX9-14.5	AX10-7	AX10-14	AX11-6.5	AX12-11	AX12-18	AX13-11	STARS AGV/
BORING NO.>>	AIRX-1	AIRX-1	AIRX-2	AIRX-3	AIRX-4	AIRX-4	AIRX-5	AIRX-6	AIRX-7	AIRX-7	AIRX-8	AIRX-9	AIRX-10	AIRX-10	AIRX-11	AIRX-12	AIRX-12	AIRX-13	TAGM SCO
Depth (ft)>>	9.0-10.0	15.0-16.0	6.0-7.0	14.0-15.0	3.0-4.0	14.5-15.5	11.0-12.0	15.0-16.0	13.0-14.0	15.0-16.0	15.0-16.0	14.5-15.5	7.0-8.0	14.0-15.0	6.5-7.5	11.0-12.0	18.0-19.0	11.0-12.0	
SVOCs: (µg/kg)																			
Naphthalene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	**8,600**	NA	NA	NA	<210	<210	200 (STARS)
Acenaphthylene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	NA	NA	NA	NA	<210	NA	41,000 (TAGM)
Acenapthene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	<210	<210	400 (STARS)
Fluorene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	<210	<210	1,000 (STARS)
Phenanthrene	NA	<1,200	NA	NA	NA	NA	<210	**1,000**	<180	NA	NA	NA	<940	NA	NA	NA	<210	360	1,000 (STARS)
Anthracene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	<210	<210	1,000 (STARS)
Fluoranthene	NA	<1,200	NA	NA	NA	NA	<210	**1,100**	<180	NA	NA	NA	<940	NA	NA	NA	490	370	1,000 (STARS)
Pyrene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	580	360	1,000 (STARS)
Benzo(a)anthracene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	290	<210	330 (STARS)
Chrysene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	310	<210	330 (STARS)
Benzo(b)fluoranthene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	310	<210	330 (STARS)
Benzo(k)fluoranthene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	<210	<210	330 (STARS)
Benzo(a)pyrene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	280	<210	330 (STARS)
Benzo(g,h,i)perylene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	<940	NA	NA	NA	<210	<210	330 (STARS)
2-Methyl Naphthalene	NA	<1,200	NA	NA	NA	NA	<210	<990	<180	NA	NA	NA	NA	NA	NA	NA	<210	NA	36,400 (TAGM)

STARS AGV - New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based SVOCs.

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality. TAGM SCOs are applied to non-petroleum SVOCs not listed under the NYSDEC STARS Memo.

NA - Not Analyzed

Shaded boxes with bold results indicate SVOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 6
PCB and RCRA Heavy Metal Compounds in Soil
Airborne Express Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	AX1-9	AX1-15	AX2-6	AX3-14	AX4-3	AX4-14.5	AX5-11	AX6-15	AX7-13	AX7-15	AX8-15	AX9-14.5	AX10-7	AX10-14	AX11-6.5	AX12-11	AX12-18	AX13-11	
BORING NO.>>	AIRX-1	AIRX-1	AIRX-2	AIRX-3	AIRX-4	AIRX-4	AIRX-5	AIRX-6	AIRX-7	AIRX-7	AIRX-8	AIRX-9	AIRX-10	AIRX-10	AIRX-11	AIRX-12	AIRX-12	AIRX-13	TAGM SCO *
Depth (ft)>>	9.0-10.0	15.0-16.0	6.0-7.0	14.0-15.0	3.0-4.0	14.5-15.5	11.0-12.0	15.0-16.0	13.0-14.0	15.0-16.0	15.0-16.0	14.5-15.5	7.0-8.0	14.0-15.0	6.5-7.5	11.0-12.0	18.0-19.0	11.0-12.0	
PCBs:	<0.6	NA	NA	NA	NA	NA	<0.6	<0.5	NA	NA	NA	NA	<0.5	NA	NA	NA	<0.6	<0.6	10000
RCRA Heavy Metals:																			
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5	NA	NA	NA	NA	NA	<5.7	<9.8	3-12
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70.9	NA	NA	NA	NA	NA	95.0	89.8	15-600
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87	NA	NA	NA	NA	NA	1.7	1.1	0-1.75
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.9	NA	NA	NA	NA	NA	14.1	13.7	1.5-40
Lead	129	289	NA	226	NA	141	104	96.6	NA	NA	59.5	NA	11.2	NA	9.9	NA	398.0	165	200-500
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	NA	NA	NA	NA	NA	**0.7**	<0.1	0.001-0.2
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.3	NA	NA	NA	NA	NA	<10.0	<6	0.1-3.9
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	<1.2	<1.1	SB

TAGM SCO - **NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objectives and Cleanup Levels; Recommended Soil Cleanup Objectives. ATC used the TAGM SCO to protect groundwater for PCBs. ATC used Eastern USA Background Levels listed in TAGM for heavy metals.**

SB - **Site Background**

NA - **Not Analyzed**

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Shaded boxes with bold results indicate PCB or heavy metal concentrations above NYSDEC TAGM Eastern USA Background Levels for metals or the TAGM Soil Cleanup Objective to protect groundwater for PCBs.

Table 7
Detected Volatile Organic Compounds in Soil
Potamkin Toyota Service Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	PO 1-10	PO 1-15	PO 2-3	PO 2-15	PO 3-5	PO 3-15	PO 4-11	PO 4-17	STARS AGV/
BORING NO.>>	POTK-1	POTK-1	POTK-2	POTK-2	POTK-3	POTK-3	POTK-4	POTK-4	TAGM SCO
Depth>>	10.0-11.0	15.0-16.0	3.0-4.0	15.0-16.0	3.0-4.0	15.0-16.0	11.0-12.0	17.0-18.0	
VOCs: (µg/kg)									
Acetone	<16000	<65,000	<27,000	<3,600	19	<36,000	<12	<2,200	200(TAGM)
2-Butanone (MEK)	<16000	<65,000	<27,000	<3,600	<12	<36,000	<12	<2,200	300(TAGM)
Benzene	<7900	<33,000	<14,000	**3,300**	<6	<18,000	<6	<1,100	14(STARS)
Trichloroethene	<7900	<33,000	<14,000	<1,800	<6	<18,000	<6	<1,100	700(TAGM)
Toluene	<7900	**300,000**	**50,000**	**80,000**	<6	<18,000	<6	<1,100	100(STARS)
1,3,5-Trimethylbenzene	**260,000**	<33,000	**260,000**	<1,800	<6	<18,000	<6	<1,100	100(STARS)
Ethylbenzene	**9,000**	**560,000**	**101,000**	**18,000**	<6	**360,000**	<6	<1,100	100(STARS)
Total Xylenes	**180,000**	**4,200,000**	**650,000**	**102,000**	<6	**1,000,000**	<6	**1,900**	100(STARS)

STARS AGV - New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based VOCs.

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality.

TAGM SCOs are applied to non-petroleum VOCs not listed under the NYSDEC STARS Memo.

Shaded boxes with bold results indicate VOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 8
Detected Semi-Volatile Organic Compounds in Soil
Potamkin Toyota Service Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	PO 1-10	PO 1-15	PO 2-3	PO 2-15	PO 3-5	PO 3-15	PO 4-11	PO 4-17	STARS AGV/
BORING NO.>>	POTK-1	POTK-1	POTK-2	POTK-2	POTK-3	POTK-3	POTK-4	POTK-4	TAGM SCO
Depth>>	10.0-11.0	15.0-16.0	3.0-4.0	15.0-16.0	5.0-6.0	15.0-16.0	11.0-12.0	17.0-18.0	
SVOCs: (µg/kg)									
Naphthalene	**170,000**	**110,000**	**33,000**	**33,000**	<190	**20,000**	<190	<3,000	200(STARS)
Acenaphthylene	<11,000	NA	NA	NA	NA	NA	NA	<3,000	50000(TAGM)
Acenapthene	<11,000	<11,000	<3,600	<4,800	<190	**1,800**	<190	<3,000	400(STARS)
Fluorene	<11,000	<11,000	<3,600	<4,800	<190	**4,400**	<190	<3,000	1000(STARS)
Phenanthrene	<11,000	<11,000	<3,600	<4,800	<190	**15,000**	<190	<3,000	1000(STARS)
Anthracene	<11,000	<11,000	<3,600	<4,800	<190	**1,900**	<190	<3,000	1000(STARS)
Fluoranthene	<11,000	<11,000	<3,600	<4,800	<190	**5,000**	460	<3,000	1000(STARS)
Pyrene	<11,000	<11,000	<3,600	<4,800	<190	**4,900**	550	<3,000	1000(STARS)
Benzo(a)anthracene	<11,000	<11,000	<3,600	<4,800	<190	<1,200	**380**	<3,000	330(STARS)
Chrysene	<11,000	<11,000	<3,600	<4,800	<190	<1,200	**330**	<3,000	330(STARS)
Benzo(b)fluoranthene	<11,000	<11,000	<3,600	<4,800	<190	<1,200	**390**	<3,000	330(STARS)
Benzo(k)fluoranthene	<11,000	<11,000	<3,600	<4,800	<190	<1,200	200	<3,000	330(STARS)
Benzo(a)pyrene	<11,000	<11,000	<3,600	<4,800	<190	<1,200	<190	<3,000	330(STARS)
Benzo(g,h,i)perylene	<11,000	<11,000	<3,600	<4,800	<190	<1,200	<190	<3,000	330(STARS)
2-Methyl Naphthalene	<11,000	NA	NA	NA	NA	NA	NA	<3,000	36400(TAGM)
Dibenzofuran	<11,000	NA	NA	NA	NA	NA	NA	<3,000	620(TAGM)

STARS AGV - New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based SVOCs.

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality. TAGM SCOs are applied to non-petroleum SVOCs not listed under the NYSDEC STARS Memo.

NA - Not Analyzed

Shaded boxes with bold numbers indicate SVOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 9
PCB abd RCRA Heavy Metal Compounds in Soil
Potamkin Toyota Service Facility

All results expressed in micrograms per kilogram (μg/kg)

SAMPLE NO.>>	PO 1-10	PO 1-15	PO 2-3	PO 2-15	PO 3-5	PO 3-15	PO 4-11	PO 4-17	
BORING NO.>>	POTK-1	POTK-1	POTK-2	POTK-2	POTK-3	POTK-3	POTK-4	POTK-4	TAGM SCO
Depth>>	10.0-11.0	15.0-16.0	3.0-4.0	15.0-16.0	5.0-6.0	15.0-16.0	11.0-12.0	17.0-18.0	
PCBs:	<21	<22	NA	<24	NA	NA	<19	<30	10000
RCRA Heavy Metals:									
Arsenic	10.6	<0.1	NA	<0.1	4.4	<0.1	**16.3**	NA	3-12
Barium	210.0	1.7	NA	2.4	13.9	1.8	498.0	NA	15-600
Cadmium	<2.2	<0.005	NA	<0.005	<2.6	<0.010	<2.2	NA	0-1.75
Chromium	10.9	<0.01	NA	<0.01	5.0	<0.01	10.4	NA	1.5-40
Lead	149.0	0.083	69.9	0.15	4.8	2.4	**605.0**	**760.00**	200-500
Mercury	**0.7**	<0.0002	NA	<0.0002	<0.1	<0.0002	**3.1**	NA	0.001-0.2
Selenium	<6.7	<0.10	NA	<0.10	<6.6	<0.10	<6.5	NA	0.1-3.9
Silver	<1.1	<0.020	NA	<0.020	<1.1	<0.020	<1.1	NA	SB

TAGM SCO - **NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objectives and Cleanup Levels; Recommended Soil Cleanup Objectives. ATC used the TAGM SCO to protect groundwater for PCBs. ATC used Eastern USA Background Levels listed in TAGM for heavy metals.**

SB - **Site Background**

NA - **Not Analyzed**

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Shaded boxes with bold results indicate PCB or heavy metal concentrations above NYSDEC TAGM Eastern USA Background Levels for metals or the TAGM Soil Cleanup Objective to protect groundwater for PCBs.

Table 10
Detected Volatile Organic Compounds in Soil
Goodyear Service Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	GY1-5	GY2-5	GY3-11	GY4-11.5	GY5-11	STARS AGV/
BORING NO.>>	GDYR-1	GDYR-2	GDYR-3	GDYR-4	GDYR-5	TAGM SCO
Depth (ft)>>	5.0-6.0	5.0-6.0	11.0-12.0	11.5-12.5	11.0-12.0	
VOCs: (µg/kg)						
Acetone	80	<11	<11	<11	<12	200(TAGM)
2-Butanone (MEK)	19	<11	<11	<11	<12	300(TAGM)
Benzene	<5	<6	<6	<5	<6	14(STARS)
Trichloroethene	<5	<6	<6	<5	<6	700(TAGM)
Toluene	<5	<6	<6	<5	<6	100(STARS)
Tetrachloroethene	6	<6	<6	<5	<6	1400(TAGM)
1,3,5-Trimethylbenzene	<5	<6	<6	<5	<6	100(STARS)
Ethylbenzene	<5	<6	<6	<5	<6	100(STARS)
Total Xylenes	<5	<6	<6	<5	<6	100(STARS)

STARS AGV - **New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based VOCs.**

TAGM SCO - **NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality. TAGM SCOs are applied to non-petroleum VOCs not listed under the NYSDEC STARS Memo.**

Shaded boxes with bold results indicate VOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 12
PCB and RCRA Heavy Metal Compounds in Soil
Goodyear Service Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	GY1-5	GY2-5	GY3-11	GY4-11.5	GY5-11	
BORING NO.>>	GDYR-	GDYR-2	GDYR-3	GDYR-4	GDYR-5	TAGM SCO
Depth (ft)>>	5.0-6.0	5.0-6.0	11.0-12.0	11.5-12.5	11.0-12.0	
PCBs:						
PCB-1016	<18	NA	NA	<18	NA	10000
PCB-1221	<18	NA	NA	<18	NA	10000
PCB-1232	<18	NA	NA	<18	NA	10000
PCB-1242	<18	NA	NA	<18	NA	10000
PCB-1248	<18	NA	NA	<18	NA	10000
PCB-1254	<18	NA	NA	<18	NA	10000
PCB-1260	<18	NA	NA	100	NA	10000
RCRA Heavy Metals						
Arsenic	10.4	NA	NA	<5.2	NA	3-12
Barium	37.0	NA	NA	66.4	NA	15-600
Cadmium	**5.3**	NA	NA	1.1	NA	0-1.75
Chromium	15.1	NA	NA	13.6	NA	1.5-40
Lead	50.8	NA	NA	49.5	NA	200-500
Mercury	<0.1	NA	NA	<0.1	NA	0.001-0.2
Selenium	<28.4	NA	NA	<6.8	NA	0.1-3.9
Silver	<0.90	NA	NA	<1.0	NA	SB

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objectives and Cleanup Levels; Recommended Soil Cleanup Objectives. ATC used the TAGM SCO to protect groundwater for PCBs. ATC used Eastern USA Background Levels listed in TAGM for heavy metals.

SB - Site Background

NA - Not Analyzed

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Shaded boxes with bold results indicate PCB or heavy metal concentrations above NYSDEC TAGM Eastern USA Background Levels for metals or the TAGM Soil Cleanup Objective to protect groundwater for PCBs.

Table 11
Detected Semi-Volatile Compounds in Soil Goodyear Service Facility

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	GY1-5	GY2-5	GY3-11	GY4-11.5	GY5-11	STARS AGV/
BORING NO.>>	GDYR-1	GDYR-2	GDYR-3	GDYR-4	GDYR-5	TAGM SCO
Depth (ft)>>	5.0-6.0	5.0-6.0	11.0-12.0	11.5-12.5	11.0-12.0	
SVOCs: (µg/kg)						
Naphthalene	<180	<190	<930	<180	<1,000	200(STARS)
Acenaphthylene	<180	NA	NA	NA	NA	50000(TAGM)
Acenapthene	<180	<190	<930	<180	<1,000	400(STARS)
Fluorene	<180	<190	<930	<180	<1,000	1000(STARS)
Phenanthrene	<180	<190	**1,200**	<180	<1,000	1000(STARS)
Anthracene	<180	<190	<930	<180	<1,000	1000(STARS)
Fluoranthene	<180	<190	960	<180	**2,200**	1000(STARS)
Pyrene	<180	<190	<930	<180	**1,600**	1000(STARS)
Benzo(a)anthracene	<180	<190	<930	<180	**1,200**	330(STARS)
Chrysene	<180	<190	<930	<180	**1,000**	330(STARS)
Benzo(b)fluoranthene	<180	<190	<930	<180	**1,200**	330(STARS)
Benzo(k)fluoranthene	<180	<190	<930	<180	<1,000	330(STARS)
Benzo(a)pyrene	<180	<190	<930	<180	**1,000**	330(STARS)
Benzo(g,h,i)perylene	<180	<190	<930	<180	<1,000	330(STARS)
2-Methyl Naphthalene	<180	NA	NA	NA	NA	36400(TAGM)
Dibenzofuran	<180	NA	NA	NA	NA	620(TAGM)

STARS AGV - New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based SVOCs.

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality.
TAGM SCOs are applied to non-petroleum SVOCs not listed under the NYSDEC STARS Memo.

Shaded boxes with bold numbers indicate SVOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 13
Detected Volatile Organic Compounds in Soil
Mini Storage and Dynasty Autobody Parking Lot

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	BD1-6	BD2-3.5	MI1-2.5	MI1-3	MI1-15.5	STARS AGV/
BORING NO.>>	BODY-1	BODY-2	MINI-1	MINI-1	MINI-1	TAGM SCO
Depth (ft)>>	6.0-7.0	3.5-4.5	2.5-3.0	3.0-4.0	15.5-16.0	
VOCs: (µg/kg)						
Acetone	<11	<12	NA	<11	<11	200
2-Butanone (MEK)	<11	<12	NA	<11	<11	300
Benzene	<6	<6	NA	<5	<6	14
Trichloroethene	<6	<6	NA	<5	<6	700
Toluene	<6	<6	NA	<5	<6	100
1,3,5-Trimethylbenzene	<6	<6	NA	<5	<6	100
Ethylbenzene	<6	<6	NA	<5	<6	100
Total Xylenes	<6	<6	NA	<5	<6	100

STARS AGV - New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based VOCs.

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality. TAGM SCOs are applied to non-petroleum VOCs not listed under the NYSDEC STARS Memo.

NA - Not Analyzed

Shaded boxes with bold results indicate VOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 14
Detected Semi-Volatile Organic Compounds in Soil
Mini Storage and Dynasty Autobody Parking Lot

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	BD1-6	BD2-3.5	MI1-2.5	MI1-3	MI1-15.5	STARS AGV/
BORING NO.>>	BODY-1	BODY-2	MINI-1	MINI-1	MINI-1	TAGM SCO
Depth (ft)>>	6.0-7.0	3.5-4.5	2.5-3.0	3.0-4.0	15.5-16.0	
SVOCs: (µg/kg)						
Naphthalene	NA	<990	<930	**91,000**	<920	200(STARS)
Acenaphthylene	NA	NA	NA	<18,000	<920	50000(TAGM)
Acenapthene	NA	<990	<930	**84,000**	<920	400(STARS)
Fluorene	NA	<990	<930	**99,000**	<920	1000(STARS)
Phenanthrene	NA	<990	**1,900**	**240,000**	**1,000**	1000(STARS)
Anthracene	NA	<990	<930	**120,000**	<920	1000(STARS)
Fluoranthene	NA	**1,200**	**2,000**	**200,000**	970	1000(STARS)
Pyrene	NA	<990	**1,700**	**180,000**	<920	1000(STARS)
Benzo(a)anthracene	NA	<990	<930	**170,000**	<920	330(STARS)
Chrysene	NA	<990	**940**	<18,000	<920	330(STARS)
Benzo(b)fluoranthene	NA	<990	<930	**130,000**	<920	330(STARS)
Benzo(k)fluoranthene	NA	<990	<930	**58,000**	<920	330(STARS)
Benzo(a)pyrene	NA	<990	<930	<18,000	<920	330(STARS)
Benzo(g,h,i)perylene	NA	<990	<930	<18,000	<920	330(STARS)
2-Methyl Naphthalene	NA	NA	NA	**40,000**	<920	36400(TAGM)
Dibenzofuran	NA	NA	NA	**83,000**	<920	620(TAGM)

STARS AGV - New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series Memo #1: Petroleum-Contaminated Soil Guidance Policy - Alternative Soil Guidance Values. The Alternative Soil Guidance values are applied to petroleum-based SVOCs.

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objective to Protect Groundwater Quality.
TAGM SCOs are applied to non-petroleum SVOCs not listed under the NYSDEC STARS Memo.

NA - Not Analyzed

Shaded boxes with bold numbers indicate SVOC concentrations above NYSDEC STARS Memo Alternative Soil Guidance Values, or NYSDEC TAGM Soil Cleanup Objectives to Protect Groundwater Quality.

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Table 15
PCB and RCRA Heavy Metal Compounds in Soil
Mini Storage and Dynasty Autobody Parking Lot

All results expressed in micrograms per kilogram (µg/kg)

SAMPLE NO.>>	BD1-6	BD2-3.5	MI1-2.5	MI1-3	MI1-15.5	
BORING NO.>>	BODY-1	BODY-2	MINI-1	MINI-1	MINI-1	TAGM SCO
Depth (ft)>>	6.0-7.0	3.5-4.5	2.5-3.0	3.0-4.0	15.5-16.0	
PCBs:	NA	NA	NA	<0.5	<0.5	10,000
RCRA Heavy Metals						
Arsenic	NA	<4.8	NA	**27.8**	<5.5	3-12
Barium	NA	87.7	NA	204.0	71.6	15-600
Cadmium	NA	1.6	NA	**5.0**	0.91	0-1.75
Chromium	NA	**48.6**	NA	11.9	14.2	1.5-40
Lead	NA	64.4	NA	**2,083**	**653.0**	200-500
Mercury	NA	0.2	NA	**0.6**	0.2	0.001-0.2
Selenium	NA	<9.6	NA	<28.4	<6	0.1-3.9
Silver	NA	<1.0	NA	<1.0	<1.9	SB

TAGM SCO - NYSDEC Technical and Administrative Guidance Memorandum #HWR-94-4046: Determination of Soil Cleanup Objectives and Cleanup Levels; Recommended Soil Cleanup Objectives. ATC used the TAGM SCO to protect groundwater for PCBs. ATC used Eastern USA Background Levels listed in TAGM for heavy metals.

SB - Site Background

NA - Not Analyzed

Any numerical result with a "less than" symbol indicates a concentration below the laboratory detection limit.

Shaded boxes with bold results indicate PCB or heavy metal concentrations above NYSDEC TAGM Eastern USA Background Levels for metals or the TAGM Soil Cleanup Objective to protect groundwater for PCBs.

Table 16
Summary of Groundwater Analytical Results

SAMPLE NO.>>		AK-GW-5	AK-GW-8	AX-GW-1	AX-GW-8	AX-GW-10	AX-GW-13	GY-GW-4	PO GW-1	PO GW-4	NYSDEC
BORING NO.>>		AKSS-5	AKSS-8	AIRX-1	AIRX-8	AIRX-10	AIRX-13	GDYR-4	POTK-1	POTK-4	Standards*
VOCs:	UNITS										
Acetone	µg/l	<50	<50	42	22	<10	<50	<10	<500	<100	50
2-Butanone (MEK)	µg/l	<50	<50	<10	26	<10	<50	<10	<500	<100	50
Benzene	µg/l	<25	<25	**28**	**11**	<5	<25	<5	<250	**180**	0.7
Trichloroethene	µg/l	<25	<25	<5	<5	<5	<25	<5	<250	<50	3
Toluene	µg/l	<25	<25	**5**	<5	<5	<25	<5	**2000**	<50	5
Ethylbenzene	µg/l	<25	<25	**13**	<5	**12**	<25	<5	**3800**	<50	5
Total Xylenes	µg/l	<25	**130**	**14**	<5	**190**	<25	<5	**16000**	<50	5
T.I.C.'s:	µg/l							None Found			
Ethyl Benzene	µg/l								**780**		5
Propyl Benzene	µg/l								**520**	**80**	5
1H-Indene, 2,3-dihydro-	µg/l			760	250				500	80	
1-methyl Napthalene	µg/l									50	
Phenanthrene, 1-methyl-7-(methyl ethyl)	µg/l						2.0				
Cyclohexane Methyl-	µg/l			380	120						
Cyclohexane Ethyl-	µg/l				49						
SVOCs:	µg/l										
Naphthalene	µg/l	<5	<5	<5	NA#	**20**	<5	<5	**390**	<50	10
Acenaphthylene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	
Acenapthene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	20
Fluorene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	50
Phenanthrene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	50
Anthracene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	50
Fluoranthene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	50
Pyrene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	50
Benzo(a)anthracene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	0.002
Chrysene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	0.002
Benzo(b)fluoranthene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	0.002
Benzo(k)fluoranthene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	0.002
Benzo(a)pyrene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	0.002
Benzo(g,h,i)perylene	µg/l	<5	<5	<5	NA#	<6	<5	<5	<50	<50	0.002
T.I.C.'s:											
1H-Indene, 2,3-dihydro-5-methyl	µg/l			14							
PCBs:	µg/l	all <0.5	all <0.6	all <0.5	NA	all <0.7	all <0.5	all <0.5	all <0.5	all <0.5	0.01
HEAVY METALS:											
Arsenic	µg/l	0.18	0.24	NA	NA	0.90	0.27	<0.05	0.34	0.6	25
Barium	µg/l	6.1	7.1	NA	NA	24.2	2.8	2.7	6.6	4.6	1000
Cadmium	µg/l	0.096	0.13	NA	NA	0.37	0.081	0.044	<0.060	<0.060	10
Chromium	µg/l	1.2	1.8	NA	NA	5.2	0.97	0.96	0.82	0.4	50
Lead	µg/l	7.4	5.8	7.4	**36.1**	**26.4**	3.2	3.9	17.4	24.1	25
Mercury	µg/l	0.016	0.046	NA	NA	0.025	0.035	0.0055	0.1	0.15	2
Selenium	µg/l	<0.10	<0.10	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	10
Silver	µg/l	<0.01	<0.025	NA	NA	<0.01	<0.01	<0.01	0.021	0.018	50

NA# = Not Analyzed - insufficient volume

*** NYSDEC (1993) Ambient Water Quality Standards and Guidance Values**

APPENDIX F: Waste Manifests

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

JOB # _____

DATE 11/30/99 MANIFEST # No. 08322

GENERATOR OF WASTE

NAME c/o ATC

ADDRESS The Dust organization

PHONE NUMBER _____

SITE LOCATION 1155 Ave of the Americas N.Y. N.Y. Drums @ between W57 T58th 11th T12th St

IDENTIFICATION OF WASTE

PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
Drill Cuttings	NI16	55 Gallon DOT Drum	1
Spill # (if applicable)	ERG #		

GENERATOR'S CLASSIFICATION

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) AGENT (please print or type)

SUPERVISOR'S SIGNATURE M. C TITLE E T

TRANSPORTER NAME AND ADDRESS (#1) **(#2)**

(#1)		(#2)	
NAME	FENLEY & NICOL ENVIRONMENTAL INC.	NAME	
ADDRESS	445 BROOK AVENUE, DEER PARK, NY 11729	ADDRESS	
PHONE NUMBER	24 Hour Emergency# (516) 586-4300	PHONE NUMBER	
DRIVER'S NAME	K Rock SIGNATURE	DRIVER'S NAME	SIGNATURE
INDUSTRIAL WASTE HAULER PERMIT #	1A-036 VEHICLE PLATE # 1429TA	INDUSTRIAL WASTE HAULER PERMIT #	VEHICLE PLATE #

DISPOSAL SITE (Must be filled in by disposal site)

NAME OF FACILITY Fenley + Nicol Env.

ADDRESS OF FACILITY 445 Brook Ave, Deer Park, NY 11729

PHONE NUMBER _____

This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable) NY013420928552

DISPOSAL SITE INSPECTOR NAME _____

SIGNATURE _____ DATE

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

JOB.#

DATE 11/30/99 MANIFEST # No. 08320

GENERATOR OF WASTE

NAME The Durst organization c/o ATC

ADDRESS 1155 Avenue of the Americas

PHONE NUMBER

SITE LOCATION W. ~~38th~~ 58 th ST N.Y. N.Y. Betw. 11th + 12th AVE

IDENTIFICATION OF WASTE

PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
DRILL CUTTINGS	N116	55 Gallon DOT Drum	2
Spill # (if applicable)	ERG #		

GENERATOR'S CLASSIFICATION

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) AGENT FOR
please print or type

SUPERVISOR'S SIGNATURE M. S[illegible] TITLE ENVIRO TECH

TRANSPORTER NAME AND ADDRESS (#1) **(#2)**

(#1)		(#2)	
NAME	FENLEY & NICOL ENVIRONMENTAL INC.	NAME	
ADDRESS	445 BROOK AVENUE, DEER PARK, NY 11729	ADDRESS	
PHONE NUMBER	24 Hour Emergency# (516) 586-4900	PHONE NUMBER	
DRIVER'S NAME	K. BROCK	DRIVER'S NAME	
SIGNATURE	[illegible]	SIGNATURE	
INDUSTRIAL WASTE HAULER PERMIT #	1A-036	INDUSTRIAL WASTE HAULER PERMIT #	
VEHICLE PLATE #	14887AD	VEHICLE PLATE #	

DISPOSAL SITE (Must be filled in by disposal site)

NAME OF FACILITY ~~Chambers Landfill~~ Fenley + Nicol Env.

ADDRESS OF FACILITY ~~Frostburg MD.~~ 445 Brook Ave, Deer Park, NY 11729

PHONE NUMBER

This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable) NY013420928552

DISPOSAL SITE INSPECTOR NAME

SIGNATURE DATE

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

JOB # _____

DATE 11/30/99 MANIFEST # No. 08321

GENERATOR OF WASTE

NAME Darst organization c/o A.T.C.

ADDRESS 11

PHONE NUMBER _____

SITE LOCATION 1165 6th AVE N.Y. N.Y. 57th - 58th between 11th + 12th Ave

IDENTIFICATION OF WASTE PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
DRILL CUTTING	N116	55 GALLON DOT DRUM	2
Spill # (if applicable)	ERG #		

GENERATOR'S CLASSIFICATION

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) AGENT FOR (please print or type)

SUPERVISOR'S SIGNATURE M. C TITLE ET

TRANSPORTER NAME AND ADDRESS (#1)

NAME FENLEY & NICOL ENVIRONMENTAL INC.

ADDRESS 445 BROOK AVENUE, DEER PARK, NY 11729

PHONE NUMBER 24 Hour Emergency# (516) 586-4900

DRIVER'S NAME K. Fox SIGNATURE _____

INDUSTRIAL WASTE HAULER PERMIT # 1A-036 VEHICLE PLATE # 14887AD

(#2)

NAME _____

ADDRESS _____

PHONE NUMBER _____

DRIVER'S NAME _____ SIGNATURE _____

INDUSTRIAL WASTE HAULER PERMIT # _____ VEHICLE PLATE # _____

DISPOSAL SITE (Must be filled in by disposal site)

NAME OF FACILITY Fenley + Nicol Env.

ADDRESS OF FACILITY 445 Brook Ave, Deer Park, NY 11721

PHONE NUMBER _____

This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable) NY0134209 28552

DISPOSAL SITE INSPECTOR NAME _____

SIGNATURE _____ DATE _____

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST
PLEASE TYPE OR PRINT CLEARLY

JOB # 9909654

MANIFEST # No. 08229

TE 12-22-99

GENERATOR OF WASTE

NAME ATC Associates

ADDRESS W57th St. Between 11th & 12th Ave. New York, N.Y.

PHONE NUMBER

SITE LOCATION Same as above 9909654

IDENTIFICATION OF WASTE PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
Drill Cuttings formud	NY-116	55 gallon metal D.O.T. Drum	1
Spill # (if applicable)	ERG #		

GENERATOR'S CLASSIFICATION

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) _____ please print or type

SUPERVISOR'S SIGNATURE _____ TITLE _____

TRANSPORTER NAME AND ADDRESS (#1)

NAME FENLEY & NICOL ENVIRONMENTAL INC.

ADDRESS 445 BROOK AVENUE, DEER PARK, NY 11729

PHONE NUMBER 24 Hour Emergency# (516) 586-4900

DRIVER'S NAME Brian Wyble SIGNATURE Brian Wyble

INDUSTRIAL WASTE HAULER PERMIT # 1A-036 VEHICLE PLATE # 14287AD

(#2)

NAME _____

ADDRESS _____

PHONE NUMBER _____

DRIVER'S NAME _____ SIGNATURE _____

INDUSTRIAL WASTE HAULER PERMIT # _____ VEHICLE PLATE # _____

DISPOSAL SITE (Must be filled in by disposal site)

NAME OF FACILITY Fenley + Nicol Env.

ADDRESS OF FACILITY 445 Brook Ave, Deer Park, NY 11729

PHONE NUMBER

This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable) NYD134209285 52

DISPOSAL SITE INSPECTOR NAME

SIGNATURE DATE

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST
PLEASE TYPE OR PRINT CLEARLY

JOB # 9909654

MANIFEST # No. 08228

TE 12-22-99

GENERATOR OF WASTE

NAME ATC Associates

ADDRESS W57th St. Between 11th & 12th Ave NewYork, N.Y.

PHONE NUMBER

SITE LOCATION Same as above

IDENTIFICATION OF WASTE PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
Well Development water	N-253	55gallon metal D.O.T. Drum	4
Spill # (if applicable)	ERG #		

GENERATOR'S CLASSIFICATION

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) _____ please print or type

SUPERVISOR'S SIGNATURE _____ TITLE _____

TRANSPORTER NAME AND ADDRESS (#1)

NAME FENLEY & NICOL ENVIRONMENTAL INC.

ADDRESS 445 BROOK AVENUE, DEER PARK, NY 11729

PHONE NUMBER 24 Hour Emergency# (516) 586-4900

DRIVER'S NAME Brian Wyble SIGNATURE Brian Wyble

INDUSTRIAL WASTE HAULER PERMIT # 1A-036 VEHICLE PLATE # 1488JAD

(#2)

NAME _____

ADDRESS _____

PHONE NUMBER _____

DRIVER'S NAME _____ SIGNATURE _____

INDUSTRIAL WASTE HAULER PERMIT # _____ VEHICLE PLATE # _____

DISPOSAL SITE (Must be filled in by disposal site)

NAME OF FACILITY Fenley + Nicol Env.

ADDRESS OF FACILITY 445 Brook Ave, Deer Park, NY 11729

PHONE NUMBER

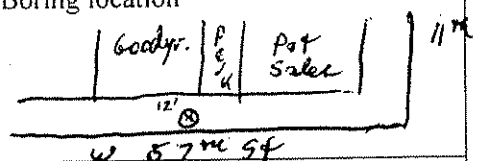
This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable) NY013420928552

DISPOSAL SITE INSPECTOR NAME

SIGNATURE DATE

APPENDIX G: Boring Logs

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client Durst ~~G.C.I. Environmental Advisory~~	Boring No. B-GI-6
	Project Number ~~16374-0002~~	Boring location 
Driller: ~~Zebra Environmental~~ Geologist: Curt Schmidt, P.G.	Location: West 57th St. New York, NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type mc Size I.D. 2" Hammer wt. NA Hammer Fall NA	Date Start 11/8/99 Date Complete Surface Elev. Groundwater Elev. NA

Depth	Sample #	Sample Type	Blows per 6" [Not Applicable] 0-6	6-12	12-18	18-24	density or moist	PID	Field Identification of Soil	Remarks
0									Concrete	
							slightly moist	70.3	black (f-m)SAND, trace silt	Heavy Gasoline Fuel Oil odor
						28"		91.8	Gray cms(f-m)SAND, little(-)silt	
								108		
							Slightly moist	120	dark brown silt, some(-) mf sand	
								132		
4								139		
								10.2	dark brown to black clayey SILT and cms GRAVEL	
						9"	very moist	4.3		
							Slightly moist		cms GRAVEL, some cms sand (Schist fragments)	
								0.2		
							dry			refusal @ 8.5' 2nd refusal @ 5'
8						3"		2d		
12										
16										
20										

ground surface to _____ ft. used _____ casing then _____ casing to _____ ft

A= auger ss: split spoon sampler mc: macrocore HSA: hollow stem auger HA: Hand Auger

tr.=trace = 0-10% l.=little = 10-20% s.=some = 20-35% and = 35-50% c= course m=medium f=fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client G.C.I. Environmental Advisory	Boring No. B-Co-1
	Project Number 16374-0002	Boring location Pot | Copa co-1 | Condo
Driller: Zebra Environmental Geologist: Curt Schmidt, P.G.	Location: West 57th St. New York, NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type — mc Size I.D. — 2" Hammer wt. NA Hammer Fall NA	Date Start } 11/8/99 Date Complete } Surface Elev. Groundwater Elev. NA

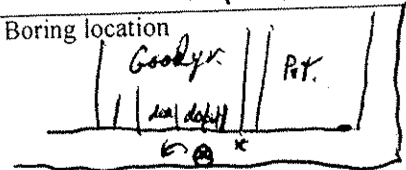
Depth	Sample #	Sample Type	Blows per 6" [Not Applicable] 0-6	6-12	12-18	18-24	density or moist	PID	Field Identification of Soil	Remarks
0							dry	0.1	CONCRETE	
							sl. moist	0.2	black-gray c m f SAND, some m f gravel to. sl. f, cinders, coal, slag, ash	
						35"	loose	0.5	dk brown m f SAND, little silt, trace clay	
							sl. moist loose damp	0.6	light brown m f GRAVEL, some c m f sand — pegmatitic?	
4								1.1	brown/dk gray c m f SAND, little m f gravel	
						42"	firm moist	1.2	little silt, mica flakes	
								16.7	reddish brown c m f SAND	
								115.	black c m f SAND, little fine gravel, trace silt	gasoline odor 7.4-8.0
8								25.7	brown c m f SAND, little m f gravel, little silt	No Odor
						47"	Moist, loose - firm	54.0		slight petrol. odor
								77.0	gray - dk gray m f SAND, little silt, trace m f gravel	old gasoline odor
								86.4		
12							Moist	64.8	Same	
						44	firm	56.5		
							very moist firm	445.		
								1223.		
16								658.	r. dk gray c m f SAND, little silt trace fine gravel	
							wet soft - firm	1258		
								1020		
								1073		
20										

ground surface to _____ft. used _____ casing then _____ casing to _____ ft

A= auger ss: split spoon sampler mc: macrocore HSA: hollow stem auger HA: Hand Auger

tr.=trace = 0-10% l.=little = 10-20% s.=some = 20-35% and = 35-50% c= course m=medium f=fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client G.C.I. Environmental Advisory Project Number 16374-0002	Boring No. B- GY-7 Boring location
Driller: Zebra Environmental Geologist: Curt Schmidt, P.G.	Location: West 57th St. New York, NY	
Groundwater Observations NA ft AFTER NA hours	casing / sampler Type: — / mc Size I.D.: — / 2" Hammer wt. NA Hammer Fall NA	Date Start } 11/8/99 Date Complete } Surface Elev. Groundwater Elev. NA



Depth	Sample #	Type	Blows per 6" [Not Applicable] 0-6	6-12	12-18	18-24	density or moist	PID	Field Identification of Soil	Remarks
0							dry/loose		Concrete	cinder fill
								27.2	4" v.dk. gray black c(m)f SAND, trace silt shale cobble	
							moist	4.1	reddish brown c-m-f SAND and c-m-f GRAVEL	
						31"	sl. moist		red ss gravel/cobble	
							moist	1.1	brown m-f(c) SAND, little silt, trace c-m-f	
							dry	2.3	gravel (brick) some cobble	No Odor
4								1.1	gray c-m-f SAND and c-m-f GRAVEL	
						28		2.4	(det. schist)	No Odor
								2.7		refusal @ 7' 2nd refusal @ 7'
8										
12										
16										
20										

ground surface to ______ft. used__________ casing then________casing to ________ft

A= auger ss: split spoon sampler mc: macrocore HSA: hollow stem auger HA: Hand Auger

tr.=trace = 0-10% l.=little = 10-20% s.=some = 20-35% and = 35-50% c= course m=medium f=fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: ~~NYC~~ DPR ST	Boring No. B-AX 14-
	Project Number 13000-0053	Boring location
Driller: Geologist: Cuy + Schmidt	Location Forest Av. & Samuel Pl Staten Island, NY	
Groundwater Observations _____ ft	casing sampler Type: Size I.D. Hammer wt. Hammer Fall	Date Start Date Complete Surface Elev. Groundwater Elev.

Depth	Sample #	Sample Type	Blows per 6" 0-6	6-12	12-18	density or moist	PID	Field Identification of soil remarks
1						Sl. Moist loose-firm	332	Concrete No odor
2					31"		751	r.dk. gray to brown cm-f SAND some(-) cm-f gravel, little(-) silt, mica flakes
3							~~1285~~ 1245	gasoline odor
4							386	
5					38"	firm Moist	401	brick frags in tip
6							1783	Mottled gray and brown M-F SAND, little silt
7							484	
8							1160	black-gray cm-f SAND, little silt, little m-f gravel; mica flakes
9					21"	loose-firm Moist	1486	
10							1045	
11							1464	same
12							288.6	
13					13"	Moist firm	1568	
14							1337	same
15						Soft wet	393.	gray fine SAND, little(+) silt
16						Moist firm	51.9	Mottled gray & brown silt and fine SAND
17						Soft wet	291.	brown cm-f SAND and cm-f GRAVEL little silt
18					26"		133	
19						Soft Moist	69	black silty organic CLAY
						very moist	79	
							9.2	black cm-f SAND, little clayey silt

ground surface to _____ft. used _____ casing then _____ casing to _____ ft

A= auger ss: split spoon sampler mc: macrocore HSA: hollow stem auger HA: Hand Auger

Trace: 0-10% Little: 10-20% some: 20-10%

C= course M=inedium F=fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: ~~S.C.A.~~ Durst Project Number 16010-0103	Boring No. B- PO5 Boring location
Driller: Steve Salumbier Geologist: Curt Schmidt Groundwater Observations _______ ft Zebra	Location 31st Rd. & 137th St. Queens (Flushing), NY casing sampler Type: Size I.D. Hammer wt. N/A Hammer Fall N/A	Date Start 11/8/99 Date Complete Surface Elev. Groundwater Elev.

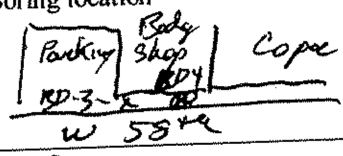
Depth	Sample #	Sample Type	Blows per 6" 0-6	6-12	12-18	density or moist	PID	Field Identification of soil remarks
						loose moist	102	concrete, black-gray c+m f SAND, little c f, trace silt, cinders, slag etc.
						firm moist	773 1385. 1629.	black-dk gray m f(+) SAND, little m f gravel, trace(+) silt, gasoline odor
4						Moist	386.7	same
	PO5-6					firm	490.1 1227.0 898	wood fibers
8							1131	dk gray c m f SAND, little c m f gravel, little clayey silt, mica schist, cinders & slag), wood
						Moist loose firm	796. 102.1	
						Sl. moist firm	397 950	laminated fine SAND and SILT w/ laminae of c m f sand
12						very moist soft	1182 1365 1261	gray-dk gray c m f SAND and m f GRAVEL, little clayey silt, cinders, slag, wood fibers. strong gasoline odor
						wet	1565	layer m f GRAVEL, glass, wood
16								EOB = 16'
20								

ground surface to _______ ft. used ____________ casing then __________ casing to __________ ft

A - auger ss: split spoon sampler mc: macrocore HSA: hollow stem auger HA: Hand Auger

Trace: 0-10% Little: 10-20% some: 20-40%

C= course M=medium F=fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization	Boring No. BD-4
	Project Number	Boring location 
Driller: ADT Geologist: Curt Schmidt, P.G.	Location: Ridgewood (Queens), NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type MC Size I.D. 2"	Date Start Date Complete Surface Elev. Groundwater Elev. NA

Depth	Sample #	Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0				dry loose	0	Concret black-gray c-m-f SAND, little (+) f gravel, little silt	
			30"		0	[cinder, ash, brick] brown m-f SAND	
				very Moist loose	0	little (+) silt	
					0		
4					0.5	~~gray-v.dk. gray c-m-f GRAVEL, some c-m-f sand concrete, schist~~	
						Refusal @ 5'	
8							
12							
16							
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: Durst NYC ~~ABC~~	Boring No. B-AK 15
	Project Number ~~13000-0053~~	Boring location
Driller: Geologist: Curt Schmidt	Location ~~Forest Av. & Samuel Pl Staten Island, NY~~	
Groundwater Observations _______ ft	casing sampler Type: Size I.D. Hammer wt. Hammer Fall	Date Start Date Complete Surface Elev. Groundwater Elev.

Depth	Sample #	Type	Blows per 6" 0-6	6-12	12-18	density or moist	PID	Field Identification of soil remarks
1					26"	Moist sl. firm	0.0	Concrete dk gray to brown c-m-f SAND, little (+) m-f gravel, little (-) silt cinders, clay
2							0.1	[ash] brown-dk gray c-m-f SAND, little m-f gravel, trace silt
3							5.4	mica - deteriorated schist
4							0.0	Same
5						Moist	0.0	
6		-			34"	firm	0.0	
7							0.0	dk gray to brown c-m-f SAND some (-) m-f gravel, trace silt mica flakes
8						Moist	1.6	
9					38"	very moist sl. firm	0	
10						wet	0	Same
11						soft	0	
12						Wet	0	
13						Soft	0	Same
14						Very Moist	0	— brown m-f SAND little si.
15							0	black - v dk gray c-m-f SAND little m-f gravel trace silt
16								
17								
18								
19								
20								

ground surface to ______ft. used__________ casing then________casing to __________ft

A= auger ss: split spoon sampler mc: macrocore HSA: hollow stem auger HA: Hand Auger

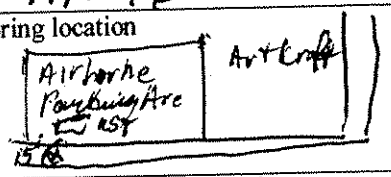
Trace: 0-10% Little: 10-20% some: 20-10%

C= course M=medium F=fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization	Boring No. ~~PES~~ - PSALES-1
	Project Number 18346-0001	Boring location Potamkin Toyota Sales 67'
Driller: ADT Geologist: Curt Schmidt, P.G.	Location: Ridgewood (Queens), NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type MC Size I.D. 2"	Date Start 3/11/99 Date Complete Surface Elev. Groundwater Elev. NA

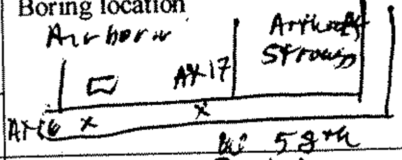
Depth	Sample #	Sample Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0				dry	0.6	Concrete	
				loose	1.1-22	gray to dk gray to yellowish red cmf SAND, some cmf gravel, little silt	
			38"		0.6	cinders, slag, ash, concrete brick	
				sl. form	0.4	pale brown to gray mf(+) SAND, some silt	
4					0.2	dk gray to brown cmf SAND and	
				sl moist	0.1	mf GRAVEL, little(-) silt; coal	
			37"	loose	0.4	cinders, slag ash brick glass	
					0.1	deteo. mica schist	
8					0.0	brown mf SAND, little silt	
			19"	dry	1.0		
				loose	1.1	brown to gray cmf GRAVEL and cmf SAND	
					0.8	little silt; mica schist; quartzite in tip	refusal @ 11' beat-sampler 2nd refusal @ 9' move closer to curb 3rd & 4th refusals @ 5'
12							
16							
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization	Boring No. AX-16
	Project Number	Boring location 
Driller: ADT Geologist: Curt Schmidt, P.G.	Location: ~~Ridgewood (Queens)~~, NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type MC Size I.D. 2"	Date Start 11/9/99 Date Complete Surface Elev. Groundwater Elev. NA

Depth	Sample #	Sample Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0			39"	sl. moist loose	0 0 0.2 0.2	Concrete brown to dk gray cm-f SAND, some(-) m-f gravel, trace silt, mica ~~v. dk gray to black cm-f SAND, (little) m-f gravel~~ little silt (+ cinders & ash	
4			19"	moist loose firm	0.5 0.6 0.8 1.1	very dark gray cm-f SAND, some m-f gravel little silt, mica schist frags.	
8			31"	loose moist	0.0 0.5	~~Loose~~ dk gray cm-f SAND, some(-) cm-f gravel trace silt	
12			39"	very moist firm loose moist - very moist loose wet	1.5 1.9 1.2 14 [redacted] 20.0 112	light brown to dark gray cm-f SAND, little(+) m-f gravel, little(-) silt dk gray/gr brown cm-f SAND, little cm-f gravel trace silt 1st Refusal @ 13' v. dk gray cm-f SAND and cm-f GRAVEL trace silt dk grey gasoline odor - when wet	
16						END OF BORING = 16 ft.	
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization	Boring No. AX-17
Driller: ADT Geologist: Curt Schmidt, P.G.	Project Number Location: Ridgewood (Queens), NY	Boring location 
Groundwater Observations NA ft AFTER NA hours	Type: casing — ; sampler MC Size I.D.: sampler 2"	Date Start 11/9/99 Date Complete 11/9/99 Surface Elev. Groundwater Elev. NA

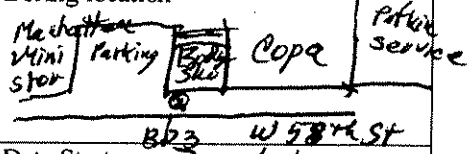
Depth	Sample #	Sample Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0			32"	moist loose	0.1 0.4 1.0 2.2	Concrete brown mf(+) SAND, little(+) silt 12" CMF (Black) ~~SAND~~, trace mf gravel and trace silt. brown mf(+) SAND, little(+) silt, BRICK COBBLE	No odor
4			38"	moist loose to firm	1.2 2.7 3.0 3.3	brown cmf SAND and mf GRAVEL; mica	No Odor.
8			28"	loose to firm moist v. moist	0.2 1.2 2.2 2.8	12" same brown to reddish brown mf(+) SAND, some cmf gravel, little silt; mica	No odor
12			27"		0.2 1.7 24.4 7.5	12" same. brown cmf (+) SAND, little silt, trace fine gravel black cmf GRAVEL, some cmf sand.	ODOR of rubber
16							
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization	Boring No. AK-9
	Project Number	Boring location 
Driller: ADT Geologist: Curt Schmidt, P.G.	Location: Ridgewood (Queens), NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type MC Size I.D. 2"	Date Start 3/11/99 Date Complete Surface Elev. Groundwater Elev. NA

Depth	Sample #	Sample Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0						CONCRETE	
				dry	44.8	brown to gray to black cmf SAND, little cmf	
			28"	sl. moist	2.1	gravel, little silt	
				loose	2.2	brown - dk gray cmf(+) SAND, little	No odors
					1.9	cmf gravel, trace silt, mica flakes, brick	
4					1.7	dk gray cmf SAND, little cmf gravel	
				loose	2.5	little silt, mica flakes	(fill)
			21"	moist	1.8		no odor
					4.1		
8					2.3	dark brown c mf(+) SAND, little fine gravel	
			2"			little silt	
12							
				soft	0.6	same	
			14"		11.8		
				soft very moist to wet	10.9	black organic clayey SILT or silty CLAY, some mf(+) sand.	
					3.4	wood w/ very faint petrol. odor	
16			1.5"		2.2	Refusal @ 16.2' on wood	
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization	Boring No. BD-3
	Project Number	Boring location 
Driller: ADT Geologist: Curt Schmidt, P.G.	Location: Ridgewood (Queens), NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type MC Size I.D. 2"	Date Start 11/9/99 Date Complete Surface Elev. Groundwater Elev. NA

Depth	Sample #	Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0				0.3 →		Concrete / brown m f SAND, little silt	
			32	0.2 →			
			SL Hard loose Compacted	0.1 →			
4				0.0 →			
				SL Hard	1.1	Same	
			27"	2.3 loose	2.2	gray cmf GRAVEL and cmf SAND	
				4.0	4.0	mica - deteriorated schist.	
				3.8	3.8	Refusal on Schist @ 7.5'	
8							
12							
16							
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization	Boring No. ~~B-5~~ AX-18
	Project Number	Boring location Petroleum service / Air borne
Driller: ADT Geologist: Curt Schmidt, P.G.	Location: Ridgewood (Queens), NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type MC Size I.D. 2"	Date Start 11/9/99 Date Complete Surface Elev. Groundwater Elev. NA

Depth	Sample #	Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0						Concrete	
				loose si. moist	0.8	black c-m-f SAND and m-f gravel - cinders, brick concrete	
			37"		1.1		
				Sl. Moist firm compact	1.5	brown m-f SAND, little silt,	
					1.8	trace m-f gravel	No odor
4					0		
			34"	very moist	1.1	Same cinders & slag	
				moist	1.2	blk-brown c-m-f GRAVEL and c-m-f SAND, wet	
					1.2	brown c-m-f SAND	No odor
					362	2" dk gray c-m-f SAND	Petrol. Odor
8				Wet			
				Moist	94.6		
			37"	firm	136	black-grayish brown c-m-f SAND, some c-m-f gravel little silt; cinders slag ash	
					256		
				Moist	367		petrol odor
12					809		
					709	Same becoming c-m-f GRAVEL and c-m-f SAND trace(+) silt	
				Wet	1461		
				Sl. firm	921		
16							
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine

ATC Associates Inc. 104 East 25th Street New York, NY 10010 212-353-8280	Client: The Durst Organization Project Number	Boring No. ~~B~~ AX-18 Boring location Potanksu service / Air borne
Driller: ADT Geologist: Curt Schmidt, P.G.	Location: Ridgewood (Queens), NY	
Groundwater Observations NA ft AFTER NA hours	casing sampler Type MC Size I.D. 2"	Date Start / Date Complete 11/9/99 Surface Elev. Groundwater Elev. NA

Depth	Sample #	Sample Type	Recovery (in.)	density or moist	PID	Field Identification of Soil	Remarks
0						Concrete	
				loose sl. moist	0.8	black cmf SAND and mf gravel - cinders, brick concrete	
			37"	sl. moist	1.1	brown cmf SAND, little silt,	
				firm compacted	1.5	trace mf gravel	
4					1.8		No odor
					0		
			34	very moist	1.7	Same	
						blk-brown cmf GRAVEL and cmf SAND, wet, cinders & slag	
				moist	1.2	brown cmf SAND	No odor
					362	2" dkgray cmf SAND	Petrol. Odor
8				Wet			
				Moist	94.6		
			37"	Firm	136	black-grayish brown cmf SAND, some cmf gravel little silt; cinders slag ash	
					256		
12				Moist	367		petrol odor
					309		
				Wet	709	Same becoming	
				sl-firm	1461	c m f GRAVEL and cmf SAND	
					929	trace(-) silt	
16							
20							

mc: macrocore HSA: hollow stem auger HA: Hand Auger tr.=trace = 0-10% l.=little = 10-20%
s.=some = 20-35% and = 35-50% c = course m = medium f = fine