

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

**ANGLERS CLUB/GLADSKY MARINE SITE
GARVIES POINT ROAD
GLEN COVE, NEW YORK**

**PREPARED FOR

CITY OF GLEN COVE
COMMUNITY DEVELOPMENT AGENCY**

**BY

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1.0 INTRODUCTION

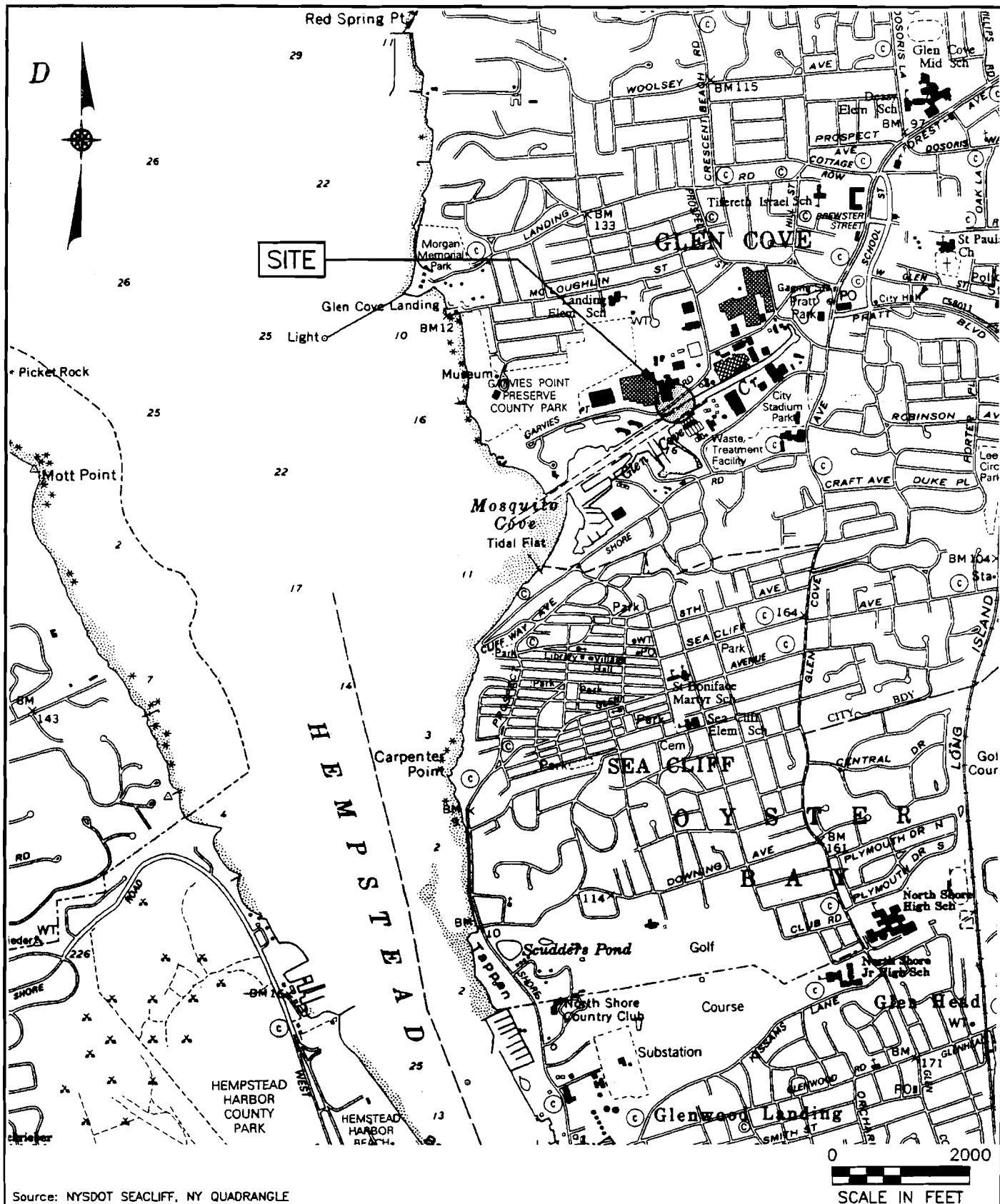
1.1 Project Background

The City of Glen Cove Community Development Agency (GCCDA) retained Dvirka and Bartilucci Consulting Engineers (D&B) to conduct Phase I and Phase II Environmental Site Assessments (ESAs) at the Anglers Club/Gladsky Marine Site located on the south side of Garvies Point Road in Glen Cove, New York. The site location is shown on Figure 1-1. This work was conducted under the City of Glen Cove's Brownfields Program for redevelopment of industrial and potentially contaminated properties within the City, and as part of the Glen Cove Creek Revitalization Plan in support of redevelopment of all or a portion of this site.

The site is owned by the City of Glen Cove and currently occupied by the Anglers Club (western portion), and Gladsky Marine and a City of Glen Cove sanitary wastewater pump station (eastern portion). The site layout is shown on Figure 1-2.

The results of the Phase I ESA indicated that historic uses of the site included boat storage and maintenance, and a possible concrete plant or sand and gravel facility. In addition, as a result of a previous investigation, subsurface asbestos contamination had been identified on the Gladsky Marine portion of the site.

Based on these findings, a Phase II ESA sampling program was developed for the property. Sample locations were selected to evaluate areas of potential environmental concern identified during the Phase I ESA, including a fuel oil underground storage tank (UST), an area of chemical storage, a metal-lined pit, an area of boat storage and maintenance, areas of stained soil, and the subsurface asbestos contamination and fill near the bulkhead. The Phase II ESA sampling program included collection of eleven surface soil samples, seven subsurface soil samples, one sediment sample from the pit and nine groundwater samples for chemical analysis, as well as asbestos analysis for selected soil samples. Specific sample locations are described in Section 2.0.

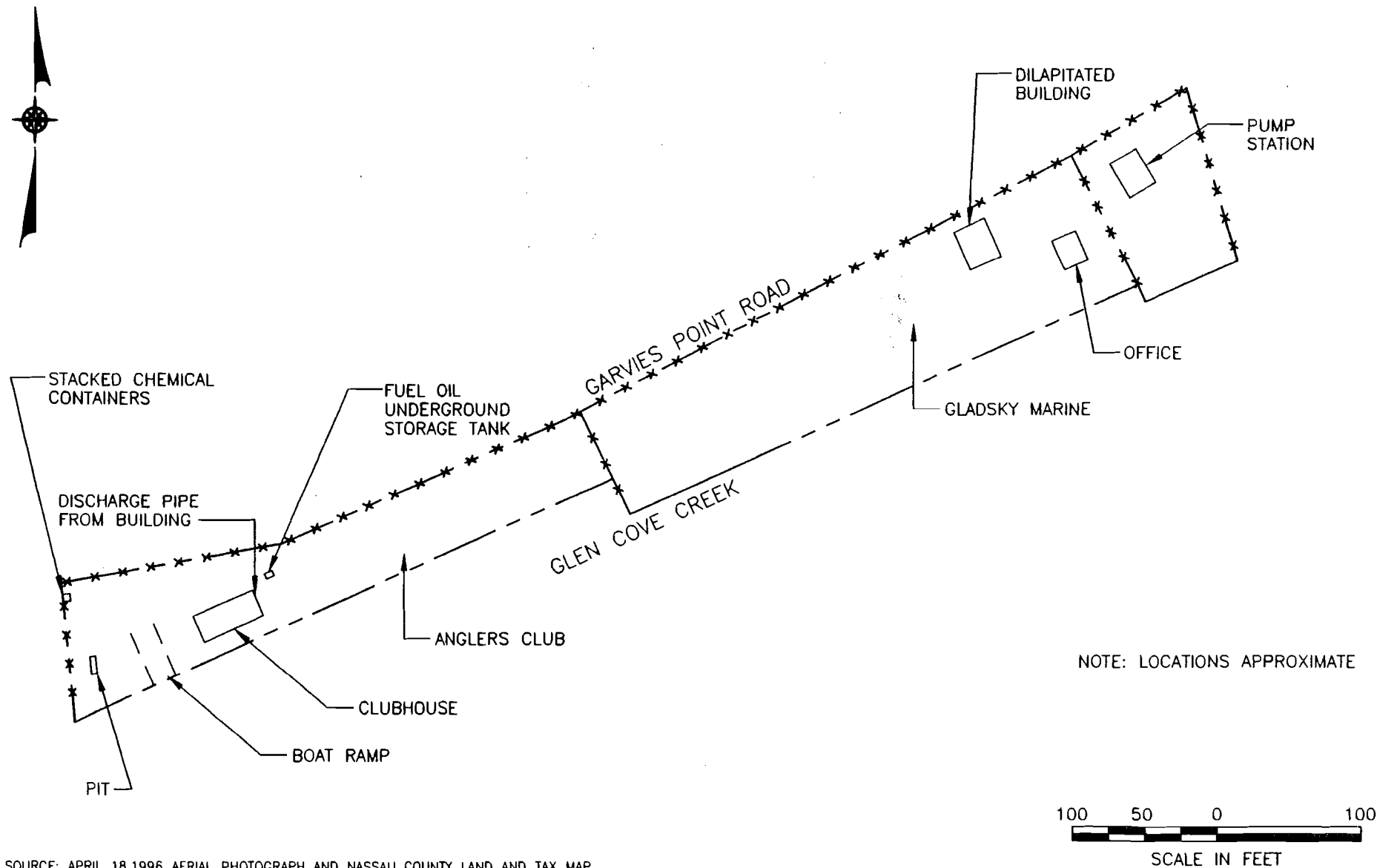


ANGLERS CLUB/GLADSKY MARINE
PHASE II ENVIRONMENTAL SITE ASSESSMENT

SITE LOCATION MAP



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SOURCE: APRIL 18, 1996 AERIAL PHOTOGRAPH AND NASSAU COUNTY LAND AND TAX MAP

ANGLERS CLUB/GLADSKY MARINE
PHASE II ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN



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FIGURE 1-2

1.2 Project Objective and Scope

The objective of the Phase II ESA was to evaluate the areas of potential environmental concern identified during the Phase I ESA. This objective was attained by collection of surface and subsurface soil, sediment and groundwater samples for laboratory analysis.

1.3 Report Organization

The remainder of this report consists of four sections. Section 2.0 (Field Investigation) describes the scope of work for the Phase II ESA, including the sample locations, sampling procedures for soil, sediment and groundwater, decontamination procedures, analytical methods and data validation. The site hydrogeology and the results of the soil, sediment and groundwater analyses, including data validation results, are described in Section 3.0 (Findings). The conclusions of the Phase II ESA and recommendations regarding additional investigation and remediation, if warranted, are presented in Section 4.0 (Conclusions and Recommendations).

2.0 FIELD INVESTIGATION

2.1 Sampling Procedures

The sampling program at the Anglers Club/Gladsky Marine Site was conducted on April 12 and 13, 2000. Surface soil and sediment samples were collected using dedicated disposable polyethylene scoops. Subsurface soil samples were collected using a Geoprobe direct-push rig by Zebra Environmental Corporation (Zebra).

At each subsurface soil sample location, samples were collected continuously to groundwater, which was encountered at depths of approximately 5 to 7 feet below ground surface depending on the probe location and the tidal conditions in Glen Cove Creek. A 1.5-inch diameter Macro-Core sampler with a dedicated acetate liner was utilized for sample collection. Upon retrieval, each soil sample was screened for volatile organic compounds (VOCs) using an organic vapor analyzer equipped with a photoionization detector (PID), and geologically logged, including observations regarding staining or odors. The worst-case interval from each probe point, based on staining, odors and PID readings, was submitted for laboratory analysis. If no worst-case interval was evident, then the unsaturated sample from immediately above the water table was submitted for analysis. Samples to be analyzed were placed directly into laboratory-supplied bottles and placed into an iced cooler for overnight shipment to the laboratory under chain of custody procedures. After completion of sampling at each location, the probe hole was backfilled with cuttings, clean sand and granular bentonite.

Groundwater samples were also collected by Zebra using a Geoprobe rig. A decontaminated Geoprobe groundwater sampler was driven to the target depth and chase rods were used to release a sacrificial drive point. The rods were then retracted to expose the sampler screen. A new dedicated length of polyethylene tubing equipped with a check valve was inserted into the rods and oscillated up and down to drive a column of water to the surface. Before sample collection, approximately ½ gallon of water was purged from the tubing. In accordance with the Sampling, Analysis and Monitoring Plan (SAMP) for the project, purge water was

recharged to the ground on-site after all samples were collected. Samples for all parameters, except dissolved metals, were collected directly into laboratory-supplied bottles and placed into an iced cooler for overnight shipment to the laboratory under chain of custody procedures. Since turbidity levels in all groundwater samples were greater than 50 Nephelometric Turbidity Units (NTUs), both total and dissolved metals were analyzed. Samples to be analyzed for dissolved metals were field-filtered utilizing a barrel filter apparatus and dedicated 0.45-micron filters. Decontamination of non-dedicated equipment (Geoprobe groundwater sampler and barrel filter) was conducted by washing utilizing a solution of non-phosphate detergent in potable water, followed by a rinse with potable water and a rinse with distilled water. After groundwater sample collection, pH, specific conductivity, turbidity, temperature, dissolved oxygen and salinity of the groundwater were measured using a Horiba Model U-10 Water Quality Checker. Dissolved oxygen levels were only measured on April 12, 2000, due to failure of the oxygen sensor on April 13, 2000.

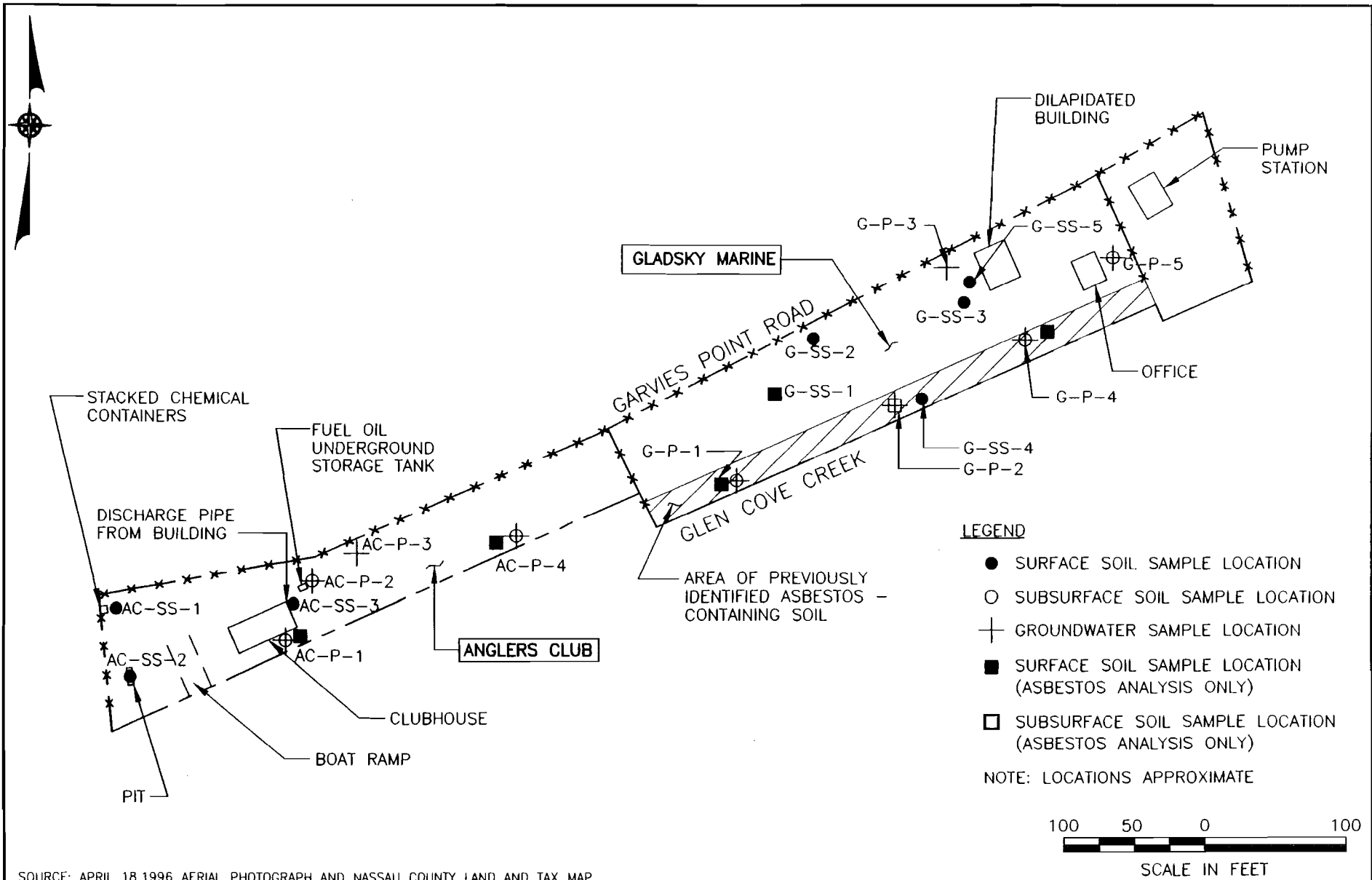
2.2 Sample Locations and Analytical Parameters

2.2.1 Anglers Club Property

At the Anglers Club portion of the site, four surface soil samples, one sediment sample, three subsurface soil samples and four groundwater samples were collected. A summary of the collected samples and analyses is presented in Table 2-1. Sample locations are shown on Figure 2-1. Two of the surface soil samples were collected from adjacent to a stack of five-gallon chemical containers (AC-SS-1) and beneath a backflow prevention discharge pipe emerging from the on-site building (AC-SS-3) to evaluate potential environmental impacts at these locations. Sediment sample AC-SS-2 was collected from within a metal-lined pit in the southwestern portion of the property that was reportedly used for barbecues. These three samples were analyzed for Target Compound List (TCL) VOCs, TCL semi-volatile organic compounds (SVOCs), TCL pesticides/PCBs, Target Analyte List (TAL) metals and cyanide. The remaining two surface soil samples (AC-P-1, 0-6" and AC-P-4, 0-6") were collected from along the Glen

TABLE 2-1
SUMMARY OF SAMPLES AND ANALYTICAL PARAMETERS
ANGLERS CLUB/GLADSKY MARINE SITE
GLEN COVE, NEW YORK

SAMPLE	AREA OF POTENTIAL CONCERN	MEDIUM	ANALYSES						
			TCL VOCs	TCL SVOCs	TCL Pesticides/ PCBs	TAL Metals		Cyanide	Asbestos
						Total	Dissolved		
ANGLERS CLUB									
AC-SS-1	Stacked Containers	Surface Soil	X	X	X	X		X	
AC-SS-2	Pit	Sediment	X	X	X	X		X	
AC-SS-3	Discharge Pipe	Surface Soil	X	X	X	X		X	
AC-P-1 0-6"	Bulkhead	Surface Soil							X
AC-P-4 0-6"	Bulkhead	Surface Soil							X
AC-P-1 5-7'	Bulkhead	Subsurface Soil	X	X	X	X		X	X
AC-P-2 1-3'	Fuel Oil UST	Subsurface Soil	X	X	X	X		X	
AC-P-4 4-6'	Bulkhead	Subsurface Soil	X	X	X	X		X	X
AC-P-1-GW	Bulkhead	Groundwater	X	X	X	X	X	X	
AC-P-2-GW	Fuel Oil UST	Groundwater	X	X	X	X	X	X	
AC-P-3-GW	Upgradient	Groundwater	X	X	X	X	X	X	
AC-P-4-GW	Bulkhead	Groundwater	X	X	X	X	X	X	
GLADSKY MARINE									
G-SS-1	Ash and Fibrous Material	Surface Soil							X
G-SS-2	Ash	Surface Soil	X	X	X	X		X	
G-SS-3	Oil-staining	Surface Soil	X	X	X	X		X	
G-SS-4	Topographic Low	Surface Soil	X	X	X	X		X	
G-SS-5	Soil and Rusted Metal Flakes	Surface Soil	X	X	X	X		X	
G-P-1 0-6"	Bulkhead	Surface Soil							X
G-P-4 0-6"	Bulkhead	Surface Soil							X
G-P-1 5-7'	Bulkhead	Subsurface Soil	X	X	X	X		X	X
G-P-2 3-4'	Bulkhead	Subsurface Soil							X
G-P-4 4-6'	Bulkhead	Subsurface Soil	X	X	X	X		X	X
G-P-5 4-6'	Apparent Sewer Pipe	Subsurface Soil	X	X	X	X		X	
G-P-1-GW	Bulkhead	Groundwater	X	X	X	X	X	X	
G-P-2-GW	Bulkhead	Groundwater	X	X	X	X	X	X	
G-P-3-GW	Upgradient	Groundwater	X	X	X	X	X	X	
G-P-4-GW	Bulkhead	Groundwater	X	X	X	X	X	X	
G-P-5-GW	Apparent Sewer Pipe	Groundwater	X	X	X	X	X	X	



ANGLERS CLUB/GLADSKY MARINE
PHASE II ENVIRONMENTAL SITE ASSESSMENT
SAMPLE LOCATIONS



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FIGURE 2-1

Cove Creek shoreline/bulkhead for asbestos analysis only to determine the presence of asbestos in this area.

In order to confirm the suspected presence of contaminants that may have been placed along the bulkhead at the property, two subsurface soil samples (AC-P-1, 5-7' and AC-P-4, 4-6') and two groundwater samples (AC-P-1-GW and AC-P-4-GW) were collected from along the Glen Cove Creek shoreline/bulkhead. One subsurface soil sample (AC-P-2, 1-3') and one groundwater sample (AC-P-2-GW) were collected from adjacent to the fuel oil UST on the property. These samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. Groundwater samples were analyzed for both total and dissolved metals. The two subsurface samples from the shoreline (AC-P-1, 5-7' and AC-P-4, 4-6') were also to be analyzed for asbestos. However, due to bottle breakage there was insufficient sample volume for the asbestos analysis to be conducted on AC-P-1 (5-7'). As a result, this analysis was eliminated with GCCDA concurrence. The fourth groundwater sample was collected along the northern property boundary to evaluate upgradient groundwater quality. This sample was analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, total and dissolved TAL metals, and cyanide.

2.2.2 Gladsky Marine Property

The sampling program for the Gladsky Marine property included collection and analysis of seven surface soil samples, four subsurface soil samples and five groundwater samples. A summary of the collected samples and analyses is presented in Table 2-1. Sample locations are shown on Figure 2-1. Three of the surface soil samples (G-SS-1, G-P-1 0-6" and G-P-4 0-6") were collected for asbestos analysis only. Sample G-SS-1 was collected from a small area of ash and fibrous material in the west-central portion of the property. Samples G-P-1 0-6" and G-P-4 0-6" were collected from along the Glen Cove Creek bulkhead where buried asbestos had previously been reported. The locations for the remaining four surface soil samples were an area of ash (G-SS-2), an area of oil-stained soil (G-SS-3), a topographically low area near the bulkhead with oil-stained soil (G-SS-4), and an area of mixed soil and rusted metal flakes (G-SS-

5). These four samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide.

In order to characterize fill material that may have been placed along the bulkhead at the property, two subsurface soil samples (G-P-1, 5-7' and G-P-4, 4-6') and three groundwater samples (G-P-1-GW, G-P-2-GW and G-P-4-GW) were collected from along the Glen Cove Creek bulkhead. These samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. Groundwater samples were analyzed for both total and dissolved metals. The two subsurface samples from along the bulkhead (G-P-1, 5-7' and G-P-4, 4-6') were also analyzed for asbestos. One subsurface soil sample from location G-P-2, 3-4' was collected for asbestos analysis only. One groundwater sample (G-P-3-GW) was collected from along the northern property boundary to evaluate upgradient groundwater quality. One subsurface soil (G-P-5, 4-6') and one groundwater sample (G-P-5-GW) were collected adjacent to an apparent sewer line east of the office building and along the bulkhead at the eastern and western ends of the property.

2.3 Analytical Methods and Data Validation

Chemical analyses for soil and groundwater samples were conducted by Mitkem Corporation. Asbestos analyses were subcontracted by Mitkem to EMSL Analytical, Inc. Each laboratory is certified under the New York State Department of Health Environmental Laboratory Accreditation Program (ELAP) for the respective analyses.

All analyses were performed using New York State Department of Environmental Conservation (NYSDEC) 12/95 Analytical Services Protocols (ASP) methods with Category B data deliverables. Site-specific quality assurance/quality control (QA/QC) samples, including blind duplicate samples and matrix spike/matrix spike duplicate samples, were utilized for this sampling program. A trip blank, which was analyzed for VOCs only, was included with each sample shipment.

The data packages were validated in accordance with NYSDEC QA/QC requirements. All sample results and QA sample (calibrations, blanks, spikes, etc.) results have been reviewed for transcription errors and contract compliance to yield a “100% validation” as stipulated in the project SAMP.

3.0 FINDINGS

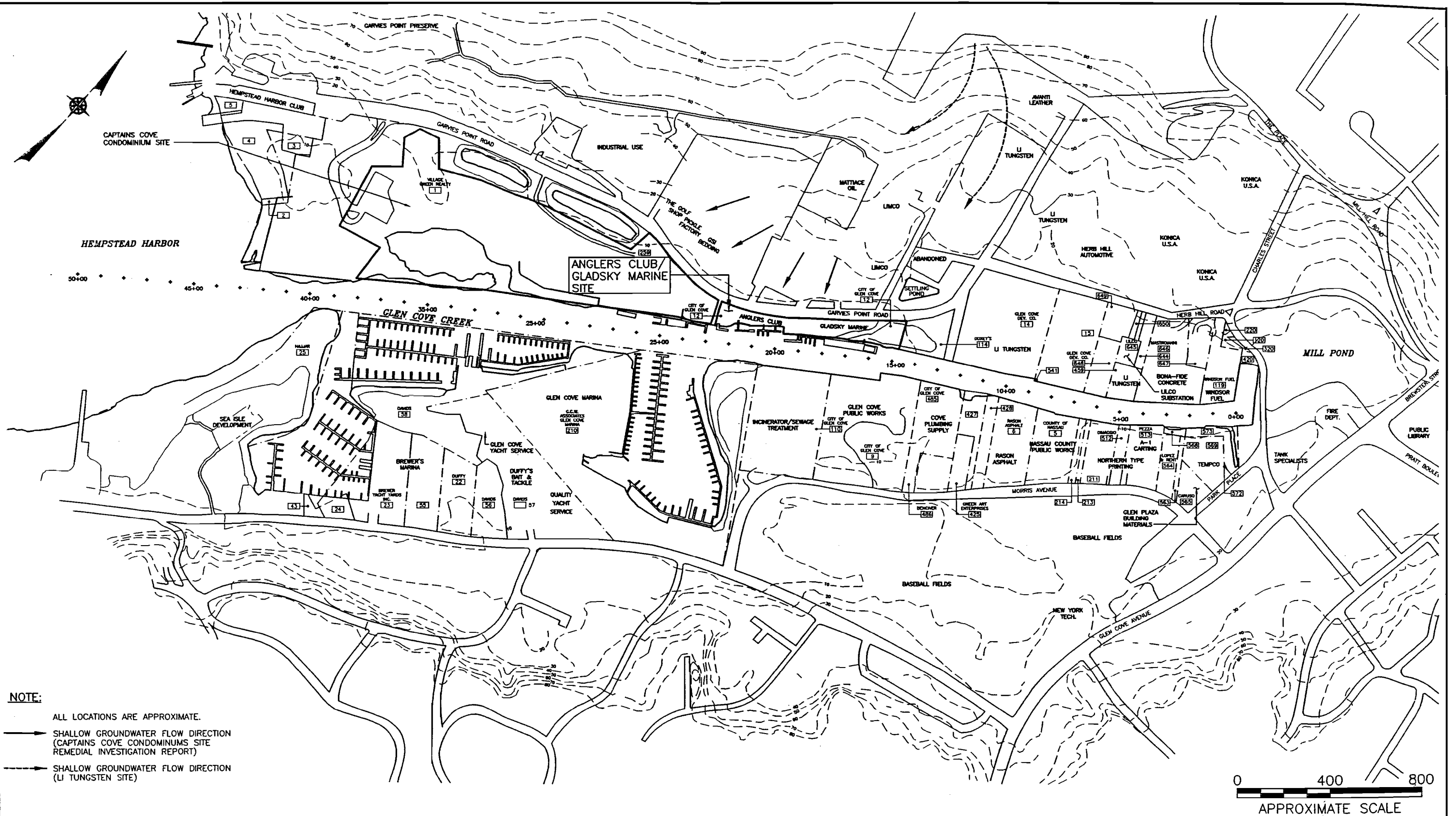
3.1 Hydrogeology

Logs for the probe locations at which soil sampling was conducted are included in Appendix A. In general, the shallow geology above the water table at the site consists of silt or silt and sand. The material observed just below the water table generally consists of sand. Fill material was observed at probe locations AC-P-1 (see Figure 2-1 for location), where occasional brick pieces were observed to 1.5 feet below ground surface, and G-P-5, where occasional asphalt pieces were observed to 1.3 feet below ground surface. As shown on the boring logs, the maximum PID leaching observed in any sample was 1.8 parts per million in sample AC-P-2, 1 to 2 feet. This shows that no PID readings significantly above background levels were detected at any sample location.

The subsurface geology observed at the Anglers Club/Gladsky Marine Site is similar to the shallow subsurface geology described for the Captains Cove Condominiums Superfund Site, located immediately west of the Anglers Club property, and for the Li Tungsten Superfund Site, located approximately 500 feet east of the Gladsky Marine property. The locations of these sites are shown on Figure 3-1. At the Captains Cove Site, the sand and silt is underlain by an extensive and relatively thick clay layer. The depth to the clay layer is reported as 12 to 16 feet below ground surface (approximately 2 to 7 feet below the water table). At the Li Tungsten Site, the clay layer was reportedly encountered along Glen Cove Creek at an elevation of 4 feet below mean sea level which corresponds to an approximate depth of 14 feet below ground surface (approximately 9 feet below the water table).

At the Anglers Club/Gladsky Marine Site, groundwater was encountered at depths between 5.5 feet and 7 feet below ground surface. These measurements correspond to groundwater elevations of approximately 3 feet to 4.5 feet above mean sea level. However, since tidal variation was observed in Glen Cove Creek during this investigation, the depth to groundwater likely varies in accordance with the tidal cycles. This is consistent with

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ANGLERS CLUB/GLADSKY MARINE
PHASE II ENVIRONMENTAL SITE ASSESSMENT

LOCATION OF NEARBY SITES AND REPORTED
GROUNDWATER FLOW DIRECTION

observations at the Captains Cove Site where water levels in monitoring wells near the shoreline fluctuated as much as three feet in response to tidal changes in Glen Cove Creek.

The Remedial Investigation (RI) Report for the Captains Cove Site reported that shallow groundwater flow from the Mattiace Petrochemical Superfund Site, located northeast of the Anglers Club/Gladsky Marine Site (see Figure 3-1), is radial away from the Mattiace Site. The groundwater flow vectors from the Captains Cove RI Report, shown on Figure 3-1, indicate that the Anglers Club/Gladsky Marine Site is downgradient of the Mattiace Petrochemical Site. In addition, the shallow groundwater flow vectors for the Li Tungsten Site (see Figure 3-1) show that the Anglers Club/Gladsky Marine Site is also downgradient of a portion of the Li Tungsten Site.

3.2 Identification of Standards, Criteria and Guidelines

Analytical results for all parameters in surface soil, subsurface soil and sediment samples, except asbestos, are compared to the NYSDEC Recommended Soil Cleanup Objectives (RSCOs) which are presented in the Technical and Administrative Guidance Memorandum No. 4046, *Determination of Soil Cleanup Objectives and Cleanup Levels*, dated January 24, 1994. RSCOs have been developed to protect human health in a residential environment resulting from ingestion of soil, and to protect groundwater as a potable water supply. The soil and sediment results are also compared to the United States Environmental Protection Agency (USEPA) Region III Risk-Based Concentrations for Industrial Land Use (RBCs). The RSCOs and RBCs are included in the data summary tables for the soil and sediment samples.

The site's location adjacent to Glen Cove Creek indicates that groundwater at the site would likely be impacted by the saline waters of the creek. The NYSDEC defines saline groundwater (Class GSA) as that which contains chloride at a concentration greater than 250 milligrams per liter (mg/l). Typical seawater with a salinity of 3.5% contains chloride at 1.93% and sodium at 1.06% (James L. Sumich, 1992, An Introduction to the Biology of Marine Life, page 21). Based on the sodium to chloride ratio in seawater of 0.55 and the definition of saline

groundwater, it can be concluded that saline groundwater would contain sodium at a concentration above 137.5 mg/l (137,500 micrograms per liter). The dissolved sodium concentrations exceed 137.5 mg/l in four groundwater samples (AC-P-3, AC-P-4, G-P-1 and G-P-4) and are just below 137.5 mg/l in two other samples (122 mg/l at AC-P-1 and 137 mg/l at G-P-5). It is therefore apparent that groundwater in most of the site would meet the definition of Class GSA, for which there are no chemical-specific standards.

However, for screening purposes, groundwater results are compared to NYSDEC Class GA groundwater standards and guidance values which are presented in the NYSDEC Technical and Operation Guidance Series (1.1.1), *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, dated June 1998. The best-classified usage of Class GA groundwater is as potable water supply. However, it should be noted that even where the definition of saline groundwater is not met at the site, it is extremely unlikely that site groundwater will ever be utilized for potable purposes. The NYSDEC Class GA groundwater standards and guidance values are included in the data summary tables for the groundwater samples.

Soils containing asbestos at greater than 1% are considered asbestos-containing materials. According to the New York State Department of Health, there are no regulations that define whether remediation of such soils is required, although at other sites, asbestos in soil has been remediated by removal or isolation, such as with soil cover or pavement. If isolated, administrative controls, such as deed restrictions, will be required to maintain the cover and limit exposure to the subsurface asbestos.

3.3 Anglers Club Property Sample Results

3.3.1 Surface Soil

Analytical results for compounds exceeding RSCOs or RBCs in Anglers Club surface soil samples are summarized in Table 3-1. Analytical results for all compounds are summarized in Table B-1 of Appendix B. Laboratory data sheets are included in Appendix C.

TABLE 3-1
COMPOUNDS EXCEEDING STANDARDS, CRITERIA AND GUIDELINES IN SURFACE SOIL AND SEDIMENT SAMPLES
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-SS-1	AC-SS-3	AC-SS-2	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Sediment			
PERCENT SOLIDS	88	75	59			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics						
Benzo(a)anthracene	U	340 J	U	330	224 or MDL	7800
Chrysene	U	480	U	330	400	780000
Benzo(a)pyrene	U	370 J	U	330	61 or MDL	780
Dibenzo(a,h)anthracene	U	110 J	U	330	14 or MDL	780

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

D: Concentration from diluted sample.

MDL: Method detection limit.

 Concentration exceeds Recommended Soil Cleanup Objective.

SAMPLE ID	AC-SS-1	AC-SS-3	AC-SS-2	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Sediment			
PERCENT SOLIDS	88	75	59			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals						
Arsenic	9.5	9.2	221	3	7.5 or SB	3.8
Barium	30.1 B	37.4 B	485	10	300 or SB	140000
Beryllium	0.16 B	0.25 B	0.31 B	0.3	0.16 or SB	4100
Cadmium	0.98 B	15.4	35.9	0.3	10 or SB	1000
Cobalt	5.4 B	7.1 B	46.2	3	30 or SB	120000
Copper	156	51.2	636	2	25 or SB	82000
Iron	9370	20500	54600	2	2000 or SB	610000
Lead	78.8	135	4460	2	400*	--
Mercury	0.59	0.2	0.48	0.1	0.1	--
Nickel	8.3	14.1	58.2	3	13 or SB	41000
Selenium	U	1.2	16.5	5	2 or SB	10000
Zinc	173	691	4290	2	20 or SB	610000

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

 Concentration exceeds Recommended Soil Cleanup Objective.

 Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

*: Average background levels for lead in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

VOCs were not detected at concentrations above RSCOs or RBCs in either surface soil sample.

No SVOCs were detected at concentrations above RSCOs or RBCs in surface soil sample AC-SS-1. Sample AS-SS-3, collected from beneath the backflow prevention discharge pipe, contained four individual carcinogenic polycyclic aromatic hydrocarbons (PAHs) at concentrations above their RSCOs. However, total carcinogenic polycyclic aromatic hydrocarbons (CaPAHs) do not exceed the RSCO of 10,000 micrograms per kilogram (ug/kg) and total SVOCs are well below the RSCO of 500,000 ug/kg. The RBCs for SVOCs, including CaPAHs, were not exceeded in this sample.

Pesticides and PCBs were not detected at concentrations above RSCOs or RBCs in either of the surface soil samples.

Arsenic, copper, iron, mercury and zinc were detected at concentrations above RSCOs in both surface soil samples. AC-SS-3 also contained beryllium, cadmium and nickel at concentrations slightly above RSCOs. Arsenic exceeded RBCs in both surface soil samples.

3.3.2 Subsurface Soil

Analytical results for compounds exceeding RSCOs or RBCs in Anglers Club subsurface soil samples are summarized in Table 3-2. Analytical results for all compounds are summarized in Table B-2 of Appendix B. Laboratory data sheets are included in Appendix C.

VOCs were not detected at concentrations above RSCOs or RBCs in any of the subsurface soil samples.

No SVOCs were detected at concentrations above RSCOs or RBCs in AC-P-1, 5-7'. The other two subsurface soil samples each contained the CaPAH benzo(a)pyrene at a concentration

TABLE 3-2
COMPOUNDS EXCEEDING STANDARDS, CRITERIA AND GUIDELINES IN SUBSURFACE SOIL SAMPLES
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1	AC-P-2	AC-P-4	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	1-3	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	84	89	82			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics						
Benzo(a)pyrene	U	140 J	120 J	330	61 or MDL	780

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

MDL: Method detection limit.

 Concentration exceeds Recommended Soil Cleanup Objective.

SAMPLE ID	AC-P-1	AC-P-2	AC-P-4	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	1-3	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals						
Arsenic	1.4 B	8.5	4.4	3	7.5 or SB	3.8
Beryllium	0.27 B	0.36 B	0.31 B	0.3	0.16 or SB	4100
Copper	6.7	29.4	30.8	2	25 or SB	82000
Iron	7950	9160	8810	2	2000 or SB	610000
Lead	4.7	190	585	2	400*	--
Mercury	U	0.16	0.27	0.1	0.1	--
Selenium	U	0.89	2.2	5	2 or SB	10000
Zinc	28.2	201	326	2	20 or SB	610000

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

 Concentration exceeds Recommended Soil Cleanup Objective.

 Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

*: Average background levels for lead in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

above the RSCO. Neither concentration exceeded the RBC for benzo(a)pyrene. In addition, both total CaPAHs and total SVOCs were well below their RSCOs.

Pesticides and PCBs were not detected in any of the subsurface soil samples.

Beryllium, iron, and zinc were detected at concentrations above RSCOs in each of the subsurface soil samples. Arsenic, copper and mercury were also detected at levels above RSCOs in AC-P-2, 1-3'. The arsenic concentration in AC-P-2, 1-3' also exceeded the RBC. Copper, lead, mercury and selenium were also detected at levels above RSCOs in AC-P-4, 4-6', and arsenic was detected at a concentration above the RBC, but below the RSCO in this sample. With the exception of iron, the metals results only marginally exceeded the RSCOs.

3.3.3 Sediment

Analytical results for compounds exceeding RSCOs or RBCs in Anglers Club subsurface soil samples are summarized in Table 3-1. Analytical results for all compounds are summarized in Table B-1 of Appendix B. Laboratory data sheets are included in Appendix C.

No VOCs, SVOCs, pesticides or PCBs were detected at concentrations above RSCOs or RBCs in sediment sample AC-SS-2.

RSCOs were exceeded in sediment sample AC-SS-2 for arsenic, barium, beryllium, cadmium, cobalt, copper, iron, lead, mercury, nickel, selenium and zinc. The RBC for arsenic was also exceeded in this sample. With the exception of nickel, the metals concentrations detected in AC-SS-2 were significantly higher than those detected in the surface soil samples, especially arsenic, lead and zinc.

3.3.4 Asbestos

Analytical results for the asbestos samples collected at the Anglers Club property are summarized in Table B-3 in Appendix B. Laboratory data sheets are included in Appendix C.

Asbestos was detected in each of the three samples collected at the property at less than 1%. Concentrations ranged from 0.05% to 0.79%.

3.3.5 Groundwater

The pH, specific conductivity, turbidity, temperature, dissolved oxygen and salinity measurements for the Anglers Club groundwater samples are summarized in Table 3-3. Compounds exceeding Class GA groundwater standards or guidance values are shown in Table 3-4. The analytical results for the Anglers Club groundwater samples are summarized in Table B-4 of Appendix B. Laboratory data sheets are included in Appendix C.

Seven VOCs (bromomethane, 1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, 1,1,1-trichloroethane, trichloroethene and tetrachloroethene) were detected at concentrations above Class GA groundwater standards in the groundwater sample from AC-P-1, collected from along the bulkhead of the property. According to information obtained from the GCCDA, all of these compounds except bromomethane have been detected at similar or greater concentrations in groundwater at the upgradient Mattiace Petrochemical Superfund Site. Although they were not detected in on-site upgradient sample AC-P-3, it is possible that the source for these compounds is the Mattiace Petrochemical site. It should be noted that, based on the groundwater flow directions shown on Figure 3-1, sample location AC-P-3 is not directly upgradient of AC-P-1, since the location of AC-P-3 was selected to represent upgradient conditions for the entire property. None of the other groundwater samples collected at the Anglers Club property contained VOCs at concentrations above Class GA standards or guidance values.

TABLE 3-3
SUMMARY OF FIELD WATER QUALITY PARAMETERS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (feet)	pH	SPECIFIC CONDUCTIVITY (mS\cm)	TURBIDITY (NTUs)	TEMPERATURE (degrees C)	DISSOLVED OXYGEN (mg/l)	SALINITY (%)
AC-P-1	4/12/00	5-9	6.70	3.51	>999	13.1	3.31	0.17
AC-P-2	4/12/00	8-12	6.46	2.01	>999	12.1	5.04	0.09
AC-P-3	4/12/00	8-12	6.49	1.92	>999	12.3	4.86	0.09
AC-P-4	4/12/00	8-12	6.75	3.91	>999	12.6	4.37	0.19

TABLE 3-4
COMPOUNDS EXCEEDING CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1- GW	AC-P-2- GW	AC-P-3- GW	AC-P-4- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Volatile Organics						
Bromomethane	43	U	U	U	10	5
1,1-Dichloroethene	23	U	U	U	10	5
1,1-Dichloroethane	530 D	U	U	U	10	5
1,2-Dichloroethane	3 J	U	U	U	10	0.6
1,1,1-Trichloroethane	8 J	U	U	U	10	5
Trichloroethene	170 D	3 J	U	U	10	5
Tetrachloroethene	300 D	1 J	U	U	10	5

NOTES:

U: Compound analyzed for but not detected.

D: Concentration from diluted sample.

 Concentration exceeds Groundwater Standard or Guidance Value.

SAMPLE ID	AC-P-1- GW Total	AC-P-1- GW Dissolved	AC-P-2- GW Total	AC-P-2- GW Dissolved	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Metals						
Antimony	U	3.1 B	U	6.0 B	3	3
Arsenic	32.5	3.7 B	8.6 B	5.4 B	3	25
Beryllium	4.2 B	U	2.2 B	U	0.3	3 GV
Cadmium	7.9	U	0.55 B	U	0.3	5
Chromium	269	2.6 B	116	U	2	50
Copper	277	2.6 B	48.4	2.7 B	2	200
Iron	84300	20.5 B	45600	118	2	300
Lead	510	U	27.5	U	2	25
Magnesium	27500	19000	18000	13900	3	35000 GV
Manganese	47100	5680	1710	1170	4	300
Nickel	260	26.6 B	71.9	5.4 B	3	100
Selenium	U	U	U	8.9	5	10
Sodium	119000	122000	37800	35700	155	20000
Thallium	36.6	U	U	U	5	0.5 GV

SAMPLE ID	AC-P-3- GW Total	AC-P-3- GW Dissolved	AC-P-4- GW Total	AC-P-4- GW Dissolved	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Metals						
Antimony	U	5.7 B	U	7.2 B	3	3
Arsenic	44.7	5.9 B	42	5.4 B	3	25
Beryllium	6.5	U	8.2	U	0.3	3 GV
Cadmium	3.2 B	U	9.7	0.55 B	0.3	5
Chromium	227	U	417	U	2	50
Copper	126	4.7 B	179	6.3 B	2	200
Iron	139000	29.8 B	294000	29.4 B	2	300
Lead	94.0	U	103	U	2	25
Magnesium	17300	8510	133000	136000	3	35000 GV
Manganese	1300	62.6	1260	218	4	300
Nickel	152	U	265	6.7 B	3	100
Selenium	U	7	13.4	12.9	5	10
Sodium	725000	729000	876000	12300000	155	20000
Thallium	U	U	U	U	5	0.5 GV

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

GV: Guidance value.

 Concentration exceeds Groundwater Standard or Guidance Value.

No SVOCs were detected at concentrations above Class GA standards or guidance values in any of the groundwater samples.

No pesticides or PCBs were detected in any of the groundwater samples.

In general, the concentrations of metals detected in the dissolved samples were less than those detected in the total samples, indicating that much of the metal concentrations detected in the total samples can be attributed to metals adsorbed to soil particles. Groundwater standards for iron and sodium were exceeded in each of the four dissolved samples. The standard for antimony was slightly exceeded in each of the four dissolved samples and the standard for manganese was exceeded in two of the dissolved samples (AC-P-1-GW and AC-P-2-GW). The guidance value for magnesium and the standard for selenium were exceeded in the dissolved sample from AC-P-4-GW.

3.4 Gladsky Marine Property Sample Results

3.4.1 Surface Soil

Analytical results for compounds exceeding RSCOs or RBCs in Gladsky Marine surface soil samples are summarized in Table 3-5. Analytical results for all compounds are summarized in Table B-5 of Appendix B. Laboratory data sheets are included in Appendix C.

No VOCs were detected at concentrations above RSCOs or RBCs in any of the surface soil samples.

SVOCs were detected at concentrations above RSCOs in each of the surface soil samples. Phenol exceeded its RSCO in G-SS-2. G-SS-3 contained three CaPAHs at concentrations above RSCOs and G-SS-5 contained four CaPAHs at concentrations above RSCOs. The concentration of total CaPAHs and total SVOCs in each of these samples was less than the RSCO. G-SS-4 contained seven CaPAHs at concentrations above RSCOs and the concentration of total CaPAHs

**TABLE 3-5
COMPOUNDS EXCEEDING STANDARDS, CRITERIA AND GUIDELINES IN SURFACE SOIL SAMPLES
GLADSKY MARINE, GLEN COVE, NEW YORK**

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics							
Phenol	100 J	U	U	U	330	30 or MDL	1200000000
Benzo(a)anthracene	U	2200	12000 D	660	330	224 or MDL	7800
Chrysene	U	2200	11000 D	890	330	400	780000
Benzo(b)fluoranthene	U	2200	18000 D	980	330	1100	7800
Benzo(k)fluoranthene	U	590 J	4300 D	310 J	330	1100	78000
Benzo(a)pyrene	U	U	8200 D	500	330	61 or MDL	780
Indeno (1,2,3-cd)pyrene	U	920 J	3400 D	500	330	3200	7800
Dibenzo(a,h)anthracene	U	U	1900	130 J	330	14 or MDL	780
Total carcinogenic SVOCs	U	8110	58800	3970		10000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

D: Concentration from diluted sample.

MDL: Method detection limit.

Concentration exceeds Recommended Soil Cleanup Objective.

Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
PCBs							
Aroclor-1254	U	430 P	1100	150 P	33	1000	2900
Total PCBs	U	430	1100	150		1000	2900

NOTES:

U: Compound analyzed for but not detected.

P: Greater than 25% difference between primary and confirmation columns; lower value reported.

Concentration exceeds Recommended Soil Cleanup Objective.

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals							
Arsenic	3380	94.5	26.2	15.1	3	7.5 or SB	3.8
Barium	1220	208	83.5	63.5	10	300 or SB	140000
Beryllium	0.26 B	0.18 B	0.21 B	U	0.3	0.16 or SB	4100
Cadmium	4.6	13.2	4.1	17.1	0.3	10 or SB	1000
Chromium	553	168	101	674	2	50 or SB	3100000
Cobalt	45.2	16.8	13.4	42.1	3	30 or SB	120000
Copper	4310	10000	450	122	2	25 or SB	82000
Iron	115000	115000	57200	525600	2	2000 or SB	610000
Lead	1390	2730	740	7590	2	400*	--
Mercury	0.15	0.19	0.15	U	0.1	0.1	--
Nickel	107	90.6	82.1	98.5	3	13 or SB	41000
Selenium	4.7	6.5	4.5	20.8	5	2 or SB	10000
Zinc	2350	3250	1070	3250	2	20 or SB	610000

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

Concentration exceeds Recommended Soil Cleanup Objective.

Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

* Average background levels for lead in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

was also above the RSCO value. Four of the individual CaPAHs also exceeded RBCs. The RSCO for total SVOCs was not exceeded in G-SS-4. G-SS-4 was collected from a low area along the bulkhead that showed some oil staining, therefore the likely source for the detected PAHs is petroleum.

No pesticides were detected at concentrations above RSCOs or RBCs in any of the surface soil samples. The RSCO for PCBs was slightly exceeded in G-SS-4, but the detected concentration was less than the RBC.

Each of the four surface soil samples contained a number of metals at concentrations above RSCOs and in many cases the exceedances were significant. RSCOs for arsenic, chromium, copper, iron, lead, nickel, selenium and zinc were exceeded in all four samples. The RBC for arsenic was also exceeded in each sample. RSCOs for beryllium and mercury were exceeded in G-SS-2, G-SS-3 and G-SS-4. The RSCO for cadmium was exceeded in G-SS-3 and G-SS-5, and the RSCO for cobalt was exceeded in G-SS-2 and G-SS-5. The RSCO for barium was exceeded in G-SS-2. The likely source for these metals is paint from historic boat maintenance and painting operations at the property.

3.4.2 Subsurface Soil

Analytical results for compounds exceeding RSCOs or RBCs in Gladsky Marine subsurface soil samples are summarized in Table 3-6. Analytical results for all compounds are summarized in Table B-6 of Appendix B. Laboratory data sheets are included in Appendix C.

No VOCs were detected at concentrations above RSCOs or RBCs in any of the subsurface soil samples.

SVOCs were detected at concentrations above RSCOs in only one of the subsurface soil samples. G-P-4 (4-6') contained two CaPAHs at concentrations slightly above RSCOs but less than the RBCs. The concentration of total CaPAHs in this sample was well below the RSCO.

TABLE 3-6
COMPOUNDS EXCEEDING STANDARDS, CRITERIA AND GUIDELINES IN SUBSURFACE SOIL SAMPLES
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1	G-P-4	G-P-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	4-6	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics						
Benzo(a)anthracene	U	260 J	U	330	224 or MDL	7800
Benzo(a)pyrene	U	170 J	U	330	61 or MDL	780

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

MDL: Method detection limit.

Concentration exceeds Recommended Soil Cleanup Objective.

SAMPLE ID	G-P-1	G-P-4	G-P-5	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	4-6	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals						
Arsenic	1.6 B	4.7	1.4 B	3	7.5 or SB	3.8
Beryllium	0.26 B	0.15 B	0.24 B	0.3	0.16 or SB	4100
Iron	10100	9170	7170	2	2000 or SB	610000
Zinc	20.5	98.4	17.5	2	20 or SB	610000

NOTES:

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

Concentration exceeds Recommended Soil Cleanup Objective.

Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

No pesticides were detected at concentrations above RSCOs in any of the subsurface soil samples. PCBs were not detected in any of the subsurface soil samples.

Iron was detected at a concentration above the RSCO in each of the subsurface soil samples. Beryllium and zinc were detected at concentrations slightly above RSCOs in two samples each. No other metals were detected in the subsurface soil samples at concentrations above RSCOs. Arsenic was detected at a concentration slightly above the RBC in G-P-4, 4-6'.

3.4.3 Asbestos

Analytical results for the asbestos samples collected at the Gladsky Marine property are summarized in Table 3-7 and in Table B-7 of Appendix B. Laboratory data sheets are included in Appendix C.

Asbestos was detected in each of the six samples collected at the property. Asbestos was detected at less than 1% in samples G-SS-1 (0.04%) and G-P-4, 4-6' (0.73%). The remaining four samples each contained asbestos at greater than 1%, ranging from 1.01% to 3.54%.

3.4.4 Groundwater

The pH, specific conductivity, turbidity, temperature, dissolved oxygen and salinity measurements for the Gladsky Marine groundwater samples are summarized in Table 3-8. Compounds exceeding Class GA groundwater standards or guidance values are shown in Table 3-9. The analytical results for the Gladsky Marine groundwater samples are summarized in Table B-8 of Appendix B. Laboratory data sheets are included in Appendix C.

Upgradient sample G-P-3-GW contained four VOCs (vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethene and trichloroethene) at concentrations above Class GA groundwater standards. According to information obtained from the GCCDA, all of these compounds have been detected at similar or greater concentrations in groundwater at the upgradient Mattiace

**TABLE 3-7
ASBESTOS SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK**

SAMPLE ID	G-SS-1	G-P-1	G-P-1	G-P-2	G-P-4	G-P-4
SAMPLE DEPTH (FT)	0-0.5	0-0.5	5-7	3-4	0-0.5	4-6
SAMPLE TYPE	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Subsurface Soil
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/13/00	4/13/00	4/13/00
Asbestos	0.04% Chrysotile	1.55% Chrysotile	1.01% Chrysotile	1.11% Chrysotile	3.54% Chrysotile	0.73% Chrysotile

NOTES:

All analyses conducted utilizing polarized light microscopy and transmission electron microscopy.

Exceeds 1% asbestos.

TABLE 3-8
SUMMARY OF FIELD WATER QUALITY PARAMETERS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (feet)	pH	SPECIFIC CONDUCTIVITY (mS\cm)	TURBIDITY (NTUs)	TEMPERATURE (degrees C)	DISSOLVED OXYGEN (mg/l)	SALINITY (%)
G-P-1	4/12/00	8-12	6.79	2.28	>999	13.2	3.34	0.10
G-P-2	4/12/00	12-16	6.75	2.51	>999	13.1	3.76	0.10
G-P-3	4/13/00	12-16	6.17	1.14	>999	9.0	NM	0.05
G-P-4	4/13/00	12-16	6.10	3.69	>999	9.8	NM	0.18
G-P-5	4/13/00	10-14'	6.12	3.15	>999	10.4	NM	0.14

NM: Not measured due to instrument failure.

TABLE 3-9
COMPOUNDS EXCEEDING CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1- GW	G-P-2- GW	G-P-3- GW	G-P-4- GW	G-P-5- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/13/00	4/13/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Volatile Organics							
Vinyl chloride	U	U	10	U	U	10	2
1,1-Dichloroethane	U	U	7 J	U	U	10	5
1,2-Dichloroethene (total)	U	U	51	U	1 J	10	5
Trichloroethene	U	U	36	U	U	10	5

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

Concentration exceeds Groundwater Standard or Guidance Value.

SAMPLE ID	G-P-1- GW	G-P-1- GW	G-P-2- GW	G-P-2- GW	G-P-3- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
	Total	Dissolved	Total	Dissolved	Total		
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Metals							
Antimony	U	U	U	U	U	3	3
Arsenic	8 B	5 B	14.9	U	40.5	3	25
Barium	42.5 B	14.3 B	105 B	U	964	10	1000
Beryllium	0.59 B	U	2.4 B	U	7.5	0.3	3 GV
Cadmium	0.92	U	1.7 B	U	10.1	0.3	5
Chromium	43	U	168	U	346	2	50
Copper	66.2	4.5 B	51.5	U	530	2	200
Iron	24200	1080	82900	5380	266000	2	300
Lead	90.4	U	53	U	159	2	25
Magnesium	42200	40200	36800	23500	28400	3	35000 GV
Manganese	461	348	1820	935	41700	4	300
Mercury	U	U	U	U	0.91	0.1	0.7
Nickel	33.2 B	4.6 B	79.5	3.2 B	300	3	100
Selenium	8.8	6.6	9.9	U	21.8	5	10
Sodium	300000	307000	43500	25500	66600	155	20000
Thallium	U	U	U	U	35.8	5	0.5 GV

SAMPLE ID	G-P-3- GW	G-P-4- GW	G-P-4- GW	G-P-5- GW	G-P-5- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
	Dissolved	Total	Dissolved	Total	Dissolved		
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Metals							
Antimony	3.5 B	U	4.4 B	28.1 B	5 B	3	3
Arsenic	U	U	U	23.8	U	3	25
Barium	49.1 B	86.3 B	55.1 B	2720	62.5 B	10	1000
Beryllium	U	U	U	29.3	U	0.3	3 GV
Cadmium	0.69 B	U	U	27.2	U	0.3	5
Chromium	12.3	24.4	2.1 B	731	U	2	50
Copper	4.7 B	6.4 B	2.7 B	495	U	2	200
Iron	32.5 B	5250	2610	1230000	3360	2	300
Lead	4.1	5.1	U	391	2.1 B	2	25
Magnesium	16600	49000	47500	99700	24800	3	35000 GV
Manganese	16500	2480	2520	5350	577	4	300
Mercury	U	U	U	U	U	0.1	0.7
Nickel	34.1 B	12.7 B	U	649	4.9 B	3	100
Selenium	U	U	U	27.1	U	5	10
Sodium	66700	405000	417000	125000	137000	155	20000
Thallium	16.2	U	U	U	U	5	0.5 GV

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

GV: Guidance value.

NA: Not analyzed.

Concentration exceeds Groundwater Standard or Guidance Value.

Petrochemical site. None of the other groundwater samples collected at the Gladsky Marine property contained VOCs at concentrations above standards or guidance values.

No SVOCs were detected at concentrations above Class GA standards or guidance values in any of the groundwater samples.

No pesticides or PCBs were detected in any of the groundwater samples.

In general, the concentrations of metals detected in the dissolved samples were less than those detected in the total samples, indicating that much of the metal concentrations detected in the total samples can be attributed to metals adsorbed to soil particles. Groundwater standards for manganese and sodium were exceeded in each of the five dissolved samples. The groundwater standard for iron was exceeded in the dissolved samples from G-P-1-GW, G-P-2-GW, G-P-4-GW and G-P-5-GW. The standard for antimony was slightly exceeded in the dissolved samples from G-P-3-GW, G-P-4-GW and G-P-5-GW. The guidance value for magnesium was exceeded in the dissolved samples from G-P-1-GW and G-P-4-GW, and the standard for thallium was exceeded in the dissolved sample from G-P-3-GW.

3.5 Data Validation

Groundwater, soil and sediment samples were collected from the Anglers Club and Gladsky Marine properties in support of a Phase II Environmental Site Assessment for the City of Glen Cove. The samples were analyzed for Target Compound List (TCL) organic compounds, Target Analyte List (TAL) metals and cyanide. Several soil samples were collected and analyzed for asbestos only. Sample analysis was performed by Mitkem Corporation, a subcontractor to Dvirka and Bartilucci Consulting Engineers, in accordance with NYSDEC 10/95 Analytical Services Protocol (ASP) methods.

The data packages submitted by Mitkem have been validated in accordance with NYSDEC quality assurance/quality control (QA/QC) requirements. All environmental sample

results, as well as QA/QC sample results, were reviewed for transcription errors and compliance with the NYSDEC ASP to yield a "100 % Data Validation" as stipulated in the Sampling, Analysis and Monitoring Plan for this investigation. Copies of the validation forms are included in Appendix D.

The findings of the validation process are summarized below

- All samples were analyzed within the NYSDEC ASP specified holding times. All QA/QC requirements (i.e. calibrations, tunes, spikes, blanks, duplicates, etc.) were met.
- The methylene chloride and acetone results that are flagged with a "B" on the data summary tables have been qualified as nondetect in the soil samples due to laboratory contamination. That is, the method blanks associated with the soil samples also contained these compounds and the sample concentrations were less than five times that found in the blank.
- The bis-2-ethylhexyl phthalate results that are flagged with a "B" on the data summary tables have been qualified as nondetect in the soil and sediment samples due to laboratory contamination. That is, the method blanks associated with these samples also contained bis-2-ethylhexyl phthalate and the sample concentrations were less than five times that found in the blank.
- Several samples required re-analysis at secondary dilutions to ensure that all compound concentrations were within the instrument calibration range. In those instances the best set of data is comprised of the initial results with the results for the compounds in question coming from the diluted run and have been flagged "D" on the summary tables.
- The SVOC fraction of sample G-SS-2 was re-extracted due to surrogate recoveries being below QC limits. The re-extract had contractually compliant recoveries and is considered the best set of data and is included on the data summary tables.
- Several samples required re-analysis or re-extraction due to surrogate recoveries and/or internal standard area counts being outside QC limits. The re-analysis/re-extracts were compared to the initial runs to determine which analysis was most contractually compliant (that is, had most recoveries/area counts within units) and those data were utilized for environmental assessment purposes and are included on the data summary tables.

No other problems were found with the data and all results are deemed valid and usable for environmental assessment purposes, as qualified above.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Anglers Club

Surface soil beneath the backflow prevention discharge pipe at the Anglers Club property is slightly contaminated with semi-volatile organic compounds (SVOCs). This sample also contained several metals at concentrations slightly above NYSDEC Recommended Soil Cleanup Objectives (RSCOs), as did the surface soil sample collected from the area of stacked chemical containers. The sources for the SVOCs and metals detected in these samples are unknown, but could be the result of fill material used at the site. As noted in Section 3.1, RSCOs have been developed to protect human health in a residential environment resulting from ingestion of soil, and to protect groundwater as a potable water supply. According to the Glen Cove Community Development Agency (GCCDA), the entire north side of Glen Cove Creek, including the Anglers Club property, recently was rezoned to prohibit residential development. Since future plans for the property do not include residential use, the slight exceedances of RSCOs do not warrant remediation of surface soil at the site.

The sediment in the reported barbecue pit contains elevated concentrations of metals, likely due to ash remaining from barbecues. In order to eliminate potential contact with this material, either through dermal contact or inhalation of dust, it would be prudent to periodically remove the material contained in the pit.

Subsurface soil is slightly contaminated with SVOCs and metals, and in general, at lesser concentrations than found in the surface soil samples. Since the property is not currently utilized for residential purposes and future plans do not include residential use, similar to surface soil, remediation of subsurface soil at the Anglers Club property is not warranted.

Groundwater in the western portion of the property is contaminated with chlorinated volatile organic compounds (VOCs). Since the Phase I Environmental Site Assessment did not indicate the use of chlorinated solvents on the property, and these compounds have been detected

in groundwater at the upgradient Mattiace Petrochemical Superfund Site, it is likely that the VOCs result from contamination from the Mattiace Petrochemical Site. However, since public water is provided to the site and the groundwater is saline, the use of groundwater as a potable water supply in this area is extremely unlikely. In addition, contact with the impacted groundwater by site occupants and construction workers is highly unlikely since groundwater is 6 to 7 feet below ground surface. As a result, groundwater remediation is not warranted.

The concentrations of VOCs in groundwater and the depth to groundwater (6 to 7 feet below ground surface) would appear to preclude the groundwater contamination from impacting the use of the property.

Asbestos results indicate that soils along the bulkhead would not be considered as asbestos-containing material. The detection of asbestos in each sample indicates that fill material containing asbestos was likely placed at the property.

4.2 Gladsky Marine

Surface soil at the Gladsky Marine property contains fairly high elevated levels of metals, likely due to historic boat maintenance and painting operations at the site. Elevated concentrations of SVOCs, generally including polycyclic aromatic hydrocarbons that are classified as probable human carcinogens (CaPAHs) were also detected at several locations. The sample results, except for arsenic, do not exceed USEPA Region III remediation guidance for industrial/non-residential land use. However, depending on the future commercial use of the property, remediation of the detected metals and CaPAHs through removal or isolation/cover may be warranted. Soil remediation may be conducted prior to, or as part of, future redevelopment of the property; however, further investigation needs to be conducted to better define the remediation required.

Subsurface soil at the Gladsky Marine property is slightly contaminated with SVOCs and metals, likely due to historic boat repair and maintenance operations at the property, as well as

possibly from fill material used at the site. Based on the planned use of the property for commercial development, the levels of contaminants and the limited chance for contact with subsurface soil, remediation of subsurface soil below 2 feet is not warranted.

Since VOCs in groundwater only exceeded Class GA standards in upgradient sample G-P-3-GW, these concentrations likely represent upgradient background conditions. Dissolved metals were also detected at concentrations above Class GA standards in each groundwater sample. Similar to the Anglers Club property, the groundwater beneath the Gladsky Marine property is saline and public water is provided to the site. As a result, use of groundwater as a potable water supply at the site is extremely unlikely and contact with the impacted groundwater by site occupants and construction workers, due to groundwater being 6 to 7 feet below ground surface, is highly unlikely. Therefore, groundwater remediation is not warranted.

Similar to the Anglers Club property, the concentrations of VOCs in groundwater and the depth to groundwater would appear to preclude groundwater contamination from impacting the planned commercial use of the property. However, to confirm that VOCs volatilizing from groundwater will not impact any building to be constructed at the property, it is recommended that a limited soil vapor survey be conducted in the area surrounding sample location G-P-3 in the north central portion of the property.

Asbestos results were greater than 1% in the two surface soil samples and two of the three subsurface soil samples collected from the area of the bulkhead, confirming the results of a previous asbestos investigation. Although there are no state or federal regulations that address asbestos in soil, it may be prudent to evaluate the extent of the asbestos in all areas of the property in order to limit potential exposure during any future construction activities or site use.

APPENDIX A

GEOLOGIC LOGS



Project No.: 1684
 Project Name: Anglers Club/Gladsky
 Marine Phase II ESA
 Glen Cove, NY

Boring No.: AC-P-1
 Sheet 1 of 1
 By: KPW

Drilling Contractor: Zebra Env.
 Driller: Charles Green
 Drill Rig: Geoprobe
 Date Started: 4/12/00

Geologist: Ken Wenz
 Drilling Method: Geoprobe
 Drive Hammer Weight: NA
 Date Completed: 4/12/00

Boring Completion Depth: 8'
 Ground Surface Elevation: ---
 Boring Diameter: 2"

Depth (ft.)	Soil Sample				PID Per 6" (ppm)	Sample Description	USCS
	No.	Type	Blows Per 6"	Rec. (feet)			
-0-	1	GP		3.0	0.0	0-1.5': Brown; SILT; some fine to medium sand; occasional roots; occasional fine gravel and brick pieces; dry; no odor. 1.5-3.0': Brown to tan-brown; SILT; little clay; trace fine to medium sand; trace fine gravel; dry; no odor.	ML
					0.0		ML
-1-					0.0		
					0.0		
-2-					0.0		
					0.0		
-3-	2	GP		3.2	--	0-2.1': Tan-brown; SILT; little clay; trace fine to medium sand; trace fine gravel; dry; no odor. 2.1-2.7': Tan-brown; FINE TO COARSE SAND; trace silt; trace fine to medium gravel; wet at 2.5'; no odor. 2.7-3.2': Dark brown; FINE TO MEDIUM GRAVEL; trace fine to coarse sand; wet; no odor.	
					--		
-4-					0.0		ML
					0.0		SP
-5-					0.0		GP
					0.0		
-6-					0.0		
					0.0		
-7-					0.0		
					--		
-8-							
-9-							
-10-							

Sample Types:
 SS = Split Spoon
 HA = Hand Auger
 GP = Geoprobe Sampler
 CC = Concrete Core

NOTES:
 Soil sample from 5-7' and groundwater sample sent for laboratory analysis. Soil sample from 0-6" sent for only asbestos analysis.

					Project No.: 1684 Project Name: Anglers Club/Gladsky Marine Phase II ESA Glen Cove, NY		Boring No.: AC-P-2 Sheet <u>1</u> of <u>1</u> By: KPW	
Drilling Contractor: Zebra Env. Driller: Charles Green Drill Rig: Geoprobe Date Started: 4/12/00					Geologist: Ken Wenz Drilling Method: Geoprobe Drive Hammer Weight: NA Date Completed: 4/12/00		Boring Completion Depth: 8' Ground Surface Elevation: --- Boring Diameter: 2"	
Depth (ft.)	Soil Sample				PID Per 6" (ppm)	Sample Description	USCS	
	No.	Type	Blows Per 6"	Rec. (feet)				
-0-	1	GP		3.4	0.1	0-0.3': Dark brown; SILT; trace fine to medium sand; occasional roots; moist; no odor.	ML	
					0.0	0.3-0.6': Dark brown; SILT AND FINE GRAVEL; trace fine to medium sand; dry; no odor.	GM	
-1-					0.8	0.6-1.2': Brown; SILT AND FINE SAND; asphalt pieces 0.8-0.9'; dry; no odor.	SM	
					1.8	1.2-1.5': Brown; SILT; some fine to medium sand; dry; no odor.	ML	
-2-					0.6	1.5-2.2': Dark brown; SILT AND FINE TO MEDIUM SAND; trace fine to medium gravel; occasional coal pieces at 1.5-1.8'; dry; no odor.	SM	
					0.6	2.2-3.0': Dark brown; SILT; little fine to medium sand; trace fine gravel; dry; no odor.	ML	
-3-	2	GP		4.0	0.0	3.0-3.4': Tan; SILT; little fine to medium sand; trace clay; trace fine gravel; dry; no odor.	ML	
					--			
-4-					0.1	0-2.5': Tan; SILT; little fine to medium sand; trace to some clay; trace fine gravel; dry; no odor.	ML	
					0.0	2.5-4.0': Tan-brown; SILT AND FINE SAND; wet; no odor.	SM	
-5-					0.0			
					0.0			
-6-					0.0			
					0.2			
-7-					0.0			
					0.0			
-8-								
-9-								
-10-								

Sample Types: SS = Split Spoon HA = Hand Auger GP = Geoprobe Sampler CC = Concrete Core	NOTES: Soil sample from 1-3' and groundwater sample sent for laboratory analysis.

 Dvirka and Bartilucci CONSULTING ENGINEERS					Project No.: 1684 Project Name: Anglers Club/Gladsky Marine Phase II ESA Glen Cove, NY		Boring No.: AC-P-4 Sheet <u>1</u> of <u>1</u> By: KPW	
Drilling Contractor: Zebra Env. Driller: Charles Green Drill Rig: Geoprobe Date Started: 4/12/00					Geologist: Ken Wenz Drilling Method: Geoprobe Drive Hammer Weight: NA Date Completed: 4/12/00		Boring Completion Depth: 8' Ground Surface Elevation: --- Boring Diameter: 2"	
Depth (ft.)	Soil Sample				PID Per 6" (ppm)	Sample Description	USCS	
	No.	Type	Blows Per 6"	Rec. (feet)				
-0-	1	GP		2.6	0.0	0-0.8': Brown; SILT AND FINE TO MEDIUM SAND; trace fine gravel; dry; no odor.	SM	
					0.1	0.8-1.2': Gray-brown; SILT AND CLAY; trace fine sand; dry; no odor.	CL	
-1-					0.0	1.2-1.6': Brown; SILT AND FINE TO MEDIUM SAND; occasional fine gravel; dry; no odor.	SM	
					0.0	1.6-2.4': Gray-brown; SILT AND FINE TO MEDIUM SAND; little clay; occasional fine gravel; dry to moist; no odor.	SM	
-2-					0.0	2.4-2.6': Gray; FINE TO MEDIUM SAND; trace silt; trace fine gravel; dry; no odor.	SP	
					0.0			
-3-					--			
					--			
-4-	2	GP		2.4	0.0	0-1.4': Gray; FINE TO MEDIUM SAND; trace silt; trace fine gravel; dry; no odor.	SP	
					0.1	1.4-1.9': Brown; SILT AND FINE SAND; trace fine gravel; dry; no odor.	SM	
-5-					0.0	1.9-2.1': Tan-brown; SILT AND CLAY; trace to little fine sand; occasional fine gravel; dry; no odor.	CL	
					0.0	2.1-2.4': Tan-brown; FINE TO COARSE SAND; trace silt; wet; no odor.	SP	
-6-					0.0			
					0.2			
-7-					0.0			
					0.0			
-8-								
-9-								
-10-								
Sample Types: SS = Split Spoon HA = Hand Auger GP = Geoprobe Sampler CC = Concrete Core						NOTES: Soil sample from 4-6' and groundwater sample sent for laboratory analysis. Soil sample from 0-6" sent for only asbestos analysis.		



Project No.: 1684
 Project Name: Anglers Club/Gladsky
 Marine Phase II ESA
 Glen Cove, NY

Boring No.: G-P-1
 Sheet 1 of 1
 By: KPW

Drilling Contractor: Zebra Env.
 Driller: Charles Green
 Drill Rig: Geoprobe
 Date Started: 4/12/00

Geologist: Ken Wenz
 Drilling Method: Geoprobe
 Drive Hammer Weight: NA
 Date Completed: 4/12/00

Boring Completion Depth: 8'
 Ground Surface Elevation: ---
 Boring Diameter: 2"

Depth (ft.)	Soil Sample				PID Per 6" (ppm)	Sample Description	USCS
	No.	Type	Blows Per 6"	Rec. (feet)			
-0-	1	GP		3.3	0.0	0-0.9': Brown-gray; SILT AND FINE TO MEDIUM SAND; trace fine gravel; dry; no odor.	SM
					0.0	0.9-1.5': Brown; SILT AND FINE SAND; trace clay; trace fine gravel; dry; no odor.	SM
-1-					0.0	1.5-3.3': Brown; FINE SAND; little silt; trace fine gravel; dry; no odor.	SP
					0.0		
-2-					0.0		
					0.0		
-3-					0.0		
					--		
-4-	2	GP		2.9	0.0	0-2.7': Brown; FINE SAND; little silt; trace fine gravel; wet at 1.7'; no odor.	SP
					0.0	2.7-2.9': Brown; FINE TO COARSE SAND AND FINE TO COARSE GRAVEL; wet; no odor.	GP
-5-					0.0		
					0.0		
-6-					0.0		
					0.0		
-7-					--		
					--		
-8-							
-9-							
-10-							

Sample Types:
 SS = Split Spoon
 HA = Hand Auger
 GP = Geoprobe Sampler
 CC = Concrete Core

NOTES:
 Soil sample from 5-7' and groundwater sample sent for laboratory analysis. Soil sample from 0-6" sent for only asbestos analysis.



Project No.: 1684
 Project Name: Anglers Club/Gladsky
 Marine Phase II ESA
 Glen Cove, NY

Boring No.: G-P-2
 Sheet 1 of 1
 By: KPW

Drilling Contractor: Zebra Env.
 Driller: Charles Green
 Drill Rig: Geoprobe
 Date Started: 4/12/00

Geologist: Ken Wenz
 Drilling Method: Geoprobe
 Drive Hammer Weight: NA
 Date Completed: 4/12/00

Boring Completion Depth: 4'
 Ground Surface Elevation: ---
 Boring Diameter: 2"

Depth (ft.)	Soil Sample				PID Per 6" (ppm)	Sample Description	USCS
	No.	Type	Blows Per 6"	Rec. (feet)			
-0-	1	GP		3.7	0.0	0-0.7': Gray; SILT AND FINE TO COARSE SAND AND FINE TO COARSE GRAVEL; dry; no odor.	SM
					0.0	0.7-3.7': Brown; SILT AND FINE TO MEDIUM SAND; trace fine gravel; dry; no odor.	SM
-1-					0.0		
					0.0		
-2-					0.0		
					0.0		
-3-					0.0		
					0.0		
-4-							
-5-							
-6-							
-7-							
-8-							
-9-							
-10-							

Sample Types:
 SS = Split Spoon
 HA = Hand Auger
 GP = Geoprobe Sampler
 CC = Concrete Core

NOTES:
 Soil sample from 3-4' sent for only asbestos analysis.



Project No.: 1684
 Project Name: Anglers Club/Gladsky
 Marine Phase II ESA
 Glen Cove, NY

Boring No.: G-P-4
 Sheet 1 of 1
 By: KPW

Drilling Contractor: Zebra Env.
 Driller: Charles Green
 Drill Rig: Geoprobe
 Date Started: 4/13/00

Geologist: Ken Wenz
 Drilling Method: Geoprobe
 Drive Hammer Weight: NA
 Date Completed: 4/13/00

Boring Completion Depth: 8'
 Ground Surface Elevation: ---
 Boring Diameter: 2"

Depth (ft.)	Soil Sample				PID Per 6" (ppm)	Sample Description	USCS
	No.	Type	Blows Per 6"	Rec. (feet)			
-0-	1	GP		3.1	0.0	0-1.5': Gray-brown; SILT; some fine to coarse sand; little fine to medium gravel; dry; no odor.	ML
					0.1	1.5-3.1': Brown to gray-brown; FINE TO MEDIUM SAND; some silt; trace fine to medium gravel; dry; no odor.	SP
-1-					0.0		
					0.0		
-2-					0.0		
					0.0		
-3-					0.1		
					--		
-4-	2	GP		1.5	0.0	0-1.5': Brown to gray-brown; FINE TO MEDIUM SAND; some silt; trace fine to medium gravel; wet at 1.0'; no odor.	SP
					0.0		
-5-					0.0		
					--		
-6-					--		
					--		
-7-					--		
					--		
-8-							
-9-							
-10-							

Sample Types:
 SS = Split Spoon
 HA = Hand Auger
 GP = Geoprobe Sampler
 CC = Concrete Core

NOTES:
 Soil sample from 4-6' and groundwater sample sent for laboratory analysis. Soil sample from 0-6" sent for only asbestos analysis.

					Project No.: 1684 Project Name: Anglers Club/Gladsky Marine Phase II ESA Glen Cove, NY		Boring No.: G-P-5 Sheet <u>1</u> of <u>1</u> . By: KPW	
Drilling Contractor: Zebra Env. Driller: Charles Green Drill Rig: Geoprobe Date Started: 4/13/00					Geologist: Ken Wenz Drilling Method: Geoprobe Drive Hammer Weight: NA Date Completed: 4/13/00		Boring Completion Depth: 8' Ground Surface Elevation: --- Boring Diameter: 2"	
Depth (ft.)	Soil Sample				PID Per 6" (ppm)	Sample Description	USCS	
	No.	Type	Blows Per 6"	Rec. (feet)				
-0-	1	GP		3.2	0.0	0-1.3': Brown to gray-brown; SILT AND FINE TO MEDIUM SAND; occasional fine to coarse gravel and asphalt pieces; dry; no odor. 1.3-1.8': Brown; SILT AND CLAY; little fine to medium sand; trace fine to coarse gravel; dry; no odor. 1.8-2.2': Tan-brown; FINE TO COARSE SAND; little silt; trace fine to medium gravel; dry; no odor. 2.2-2.3': Gray; CLAY; dry; no odor. 2.3-3.2': Brown to orange-brown; SILT AND FINE TO MEDIUM SAND; dry; no odor.	SM CL SP CL SM	
-4-	2	GP		2.6	0.0	0-1.9': Brown to orange-brown; SILT AND FINE TO MEDIUM SAND; wet at 1.8'; no odor. 1.9-2.6': Orange-brown to gray; FINE TO COARSE SAND; some silt; trace fine to medium gravel; wet; no odor.	SM SP	
-10-								

Sample Types: SS = Split Spoon HA = Hand Auger GP = Geoprobe Sampler CC = Concrete Core	NOTES: Soil sample from 4-6' and groundwater sample sent for laboratory analysis.

APPENDIX B

DATA SUMMARY TABLES

TABLE B-1
SURFACE SOIL AND SEDIMENT SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-SS-1	AC-SS-3	AC-SS-2	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Sediment			
PERCENT SOLIDS	88	75	59			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Volatile Organics						
Chloromethane	U	U	U	10	--	440000
Bromomethane	U	U	U	10	--	2900000
Vinyl chloride	U	U	U	10	200	3000
Chloroethane	U	U	U	10	1900	2000000
Methylene chloride	U	U	13 JB	10	100	760000
Acetone	12 B	18 JB	8 JB	10	200	200000000
Carbon disulfide	U	U	U	10	2700	200000000
1,1-Dichloroethene	U	U	U	10	400	9500
1,1-Dichloroethane	U	U	U	10	200	200000000
1,2-Dichloroethene (total)	U	U	U	10	300	18000000
Chloroform	U	U	U	10	300	940000
1,2-Dichloroethane	U	U	U	10	100	63000
2-Butanone	U	U	U	10	300	1200000000
1,1,1-Trichloroethane	U	U	U	10	800	570000000
Carbon tetrachloride	U	U	U	10	600	44000
Bromochloromethane	U	U	U	10	--	--
1,2-Dichloropropane	U	U	U	10	--	84000
cis-1,3-Dichloropropene	U	U	U	10	--	32000
Trichloroethene	U	U	U	10	700	520000
Dibromochloromethane	U	U	U	10	N/A	68000
1,1,2-Trichloroethane	U	U	U	10	--	100000
Benzene	U	U	3 J	10	60	100000
trans-1,3-Dichloropropene	U	U	U	10	--	32000
Bromoform	U	U	U	10	--	720000
4-Methyl-2-pentanone	U	U	U	10	1000	160000000
2-Hexanone	U	U	U	10	--	82000000
Tetrachloroethene	U	U	2 J	10	1400	110000
1,1,2,2-Tetrachloroethane	U	U	U	10	600	29000
Toluene	U	U	30	10	1500	410000000
Chlorobenzene	U	U	U	10	1700	41000000
Ethylbenzene	U	U	12 J	10	5500	200000000
Styrene	U	U	U	10	--	410000000
Xylene (total)	U	U	74	10	1200	4100000000
Total VOCs	12	18	142		10000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

N/A: Not available.

TABLE B-1
SURFACE SOIL AND SEDIMENT SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-SS-1	AC-SS-3	AC-SS-2	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Sediment			
PERCENT SOLIDS	88	75	59			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics						
Phenol	U	U	U	330	30 or MDL	1200000000
bis (2-Chloroethyl) ether	U	U	U	330	--	5200
2-Chlorophenol	U	U	U	330	800	10000000
1,3-Dichlorobenzene	U	U	U	330	1600	1800000
1,4-Dichlorobenzene	U	U	U	330	8500	240000
1,2-Dichlorobenzene	U	U	U	330	7900	180000000
2-Methylphenol	U	U	U	330	100 or MDL	100000000
2,2'-oxybis (1-Chloropropane)	U	U	U	330	--	--
4-Methylphenol	U	U	U	330	900	10000000
N-Nitroso-di-n-propylamine	U	U	U	330	--	820
Hexachloroethane	U	U	U	330	--	410000
Nitrobenzene	U	U	U	330	200 or MDL	1000000
Isophorone	U	U	U	330	4400	6000000
2-Nitrophenol	U	U	U	330	330 or MDL	--
2,4-Dimethylphenol	U	U	U	330	--	41000000
2,4-Dichlorophenol	U	U	U	330	400	6100000
1,2,4-Trichlorobenzene	U	U	U	330	--	20000000
Naphthalene	U	U	2200	330	13000	41000000
4-Chloroaniline	U	U	U	330	220 or MDL	8200000
bis (2-Chloroethoxy)methane	U	U	U	330	--	--
Hexachlorobutadiene	U	U	U	330	--	73000
4-Chloro-3-methylphenol	U	U	U	330	240 or MDL	--
2-Methylnaphthalene	U	U	1500	330	36400	41000000
Hexachlorocyclopentadiene	U	U	U	330	--	14000000
2,4,6-Trichlorophenol	U	U	U	330	--	520000
2,4,5-Trichlorophenol	U	U	U	825	100	200000000
2-Chloronaphthalene	U	U	U	330	--	160000000
2-Nitroaniline	U	U	U	825	430 or MDL	--
Dimethylphthalate	U	U	U	330	2000	20000000000
Acenaphthylene	U	U	U	330	41000	--
2,6-Dinitrotoluene	U	U	U	330	1000	2000000
3-Nitroaniline	U	U	U	825	500 or MDL	--
Acenaphthene	U	U	U	330	50000	120000000
2,4-Dinitrophenol	U	U	U	825	200 or MDL	4100000
4-Nitrophenol	U	U	U	825	100 or MDL	16000000
Dibenzofuran	U	U	U	330	6200	8200000
2,4-Dinitrotoluene	U	U	U	330	--	4100000
Diethylphthalate	U	U	U	330	7100	1600000000
4-Chlorophenyl-phenylether	U	U	U	330	--	--
Fluorene	U	U	U	330	50000	82000000
4-Nitroaniline	U	U	U	825	--	--
4,6-Dinitro-2-methylphenol	U	U	U	330	--	200000
N-Nitrosodiphenylamine	U	U	U	330	--	1200000
4-Bromophenyl-phenylether	U	U	U	330	--	--

TABLE B-1
SURFACE SOIL AND SEDIMENT SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-SS-1	AC-SS-3	AC-SS-2	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Sediment			
PERCENT SOLIDS	88	75	59			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics (cont.)						
Hexachlorobenzene	U	U	U	330	410	3600
Pentachlorophenol	U	U	U	825	1000 or MDL	48000
Phenanthrene	U	360 J	U	330	50000	--
Anthracene	U	45 J	U	330	50000	610000000
Carbazole	U	U	U	330	--	290000
Di-n-butylphthalate	U	60 J	U	330	8100	--
Fluoranthene	U	680	U	330	50000	82000000
Pyrene	52 J	870	120 J	330	50000	61000000
Butylbenzylphthalate	U	240 J	U	330	50000	410000000
3,3'-Dichlorobenzidine	U	U	U	330	N/A	13000
Benzo(a)anthracene	U	340 J	U	330	224 or MDL	7800
Chrysene	U	480	U	330	400	780000
bis (2-Ethylhexyl) phthalate	210 JB	550 B	13000 DB	330	50000	410000
Di-n-octylphthalate	U	U	U	330	50000	--
Benzo(b)fluoranthene	U	630	U	330	1100	7800
Benzo(k)fluoranthene	U	240 J	U	330	1100	78000
Benzo(a)pyrene	U	370 J	U	330	61 or MDL	780
Indeno (1,2,3-cd)pyrene	U	320 J	U	330	3200	7800
Dibenzo(a,h)anthracene	U	110 J	U	330	14 or MDL	780
Benzo (g,h,i)perylene	U	330 J	U	330	50000	--
Total carcinogenic SVOCs	U	2490	U		10000	
Total SVOCs	262	5625	16820		500000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

D: Concentration from diluted sample.

MDL: Method detection limit.

N/A: Not available.

Concentration exceeds Recommended Soil Cleanup Objective.

TABLE B-1
SURFACE SOIL AND SEDIMENT SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-SS-1	AC-SS-3	AC-SS-2	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Sediment			
PERCENT SOLIDS	88	75	59			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Pesticides/PCBs						
alpha-BHC	U	U	U	1.7	110	910
beta-BHC	U	U	42 P	1.7	200	3200
delta-BHC	U	U	U	1.7	300	--
gamma-BHC	U	U	4.7 P	1.7	60	4400
Heptachlor	U	U	22 P	1.7	100	1300
Aldrin	U	U	U	1.7	41	340
Heptachlor epoxide	U	U	U	1.7	20	630
Endosulfan I	13	4.9 P	U	1.7	900	12000000
Dieldrin	U	U	30 P	3.3	44	360
4,4'-DDE	32 P	11	U	3.3	2100	17000
Endrin	U	U	U	3.3	100	610000
Endosulfan II	U	U	U	3.3	900	12000000
4,4'-DDD	220 D	6.5	U	3.3	2900	24000
Endosulfan sulfate	U	U	U	3.3	1000	--
4,4'-DDT	23 P	19 P	21 P	3.3	2100	17000
Methoxychlor	U	U	U	17	--	10000000
Endrin ketone	U	U	U	3.3	N/A	--
Endrin aldehyde	U	U	U	3.3	--	--
alpha-Chlordane	U	24 P	U	1.7	540	16000
gamma-Chlordane	15	32	U	1.7	540	16000
Toxaphene	U	U	U	170	--	5200
Total Pesticides	303	97.4	119.7		10000	
Aroclor-1016	U	U	U	33	1000	82000
Aroclor-1221	U	U	U	67	1000	2900
Aroclor-1232	U	U	U	33	1000	2900
Aroclor-1242	U	U	U	33	1000	2900
Aroclor-1248	U	U	U	33	1000	2900
Aroclor-1254	330 P	250 P	U	33	1000	2900
Aroclor-1260	U	U	U	33	1000	2900
Total PCBs	330	250	U		1000	2900

NOTES:

U: Compound analyzed for but not detected.

P: Greater than 25% difference between primary and confirmation columns; lower value reported.

D: Concentration from diluted sample.

N/A: Not available.

TABLE B-1
SURFACE SOIL AND SEDIMENT SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-SS-1	AC-SS-3	AC-SS-2	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Sediment			
PERCENT SOLIDS	88	75	59			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals						
Aluminum	2830	4430	6350	9	SB	2000000
Antimony	1.7 B	2.2 B	27	3	SB	820
Arsenic	9.5	9.2	221	3	7.5 or SB	3.8
Barium	30.1 B	37.4 B	485	10	300 or SB	140000
Beryllium	0.16 B	0.25 B	0.31 B	0.3	0.16 or SB	4100
Cadmium	0.98 B	15.4	35.9	0.3	10 or SB	1000
Calcium	14000	3030	61200	317	SB	--
Chromium	11.4	13.9	178	2	50 or SB	3100000
Cobalt	5.4 B	7.1 B	46.2	3	30 or SB	120000
Copper	156	51.2	636	2	25 or SB	82000
Iron	9370	20500	54600	2	2000 or SB	610000
Lead	78.8	135	4460	2	400*	--
Magnesium	7180	1410	2750	3	SB	--
Manganese	410	232	2880	4	SB	41000
Mercury	0.59	0.2	0.48	0.1	0.1	--
Nickel	8.3	14.1	58.2	3	13 or SB	41000
Potassium	284 B	366 B	1890	320	SB	--
Selenium	U	1.2	16.5	5	2 or SB	10000
Silver	U	U	U	8	SB	10000
Sodium	162 B	865 B	7660	155	SB	--
Thallium	U	U	U	5	SB	140
Vanadium	13.6	17.3	58	3	150 or SB	14000
Zinc	173	691	4290	2	20 or SB	610000
Cyanide	0.2 B	0.38 B	1.7	2	---	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

9.5 Concentration exceeds Recommended Soil Cleanup Objective.

9.2 Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

*: Average background levels for lead in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

TABLE B-2
SUBSURFACE SOIL SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1	AC-P-2	AC-P-4	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	1-3	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	84	89	82			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Volatile Organics						
Chloromethane	U	U	U	10	--	440000
Bromomethane	U	U	U	10	--	2900000
Vinyl chloride	U	U	U	10	200	3000
Chloroethane	U	U	U	10	1900	2000000
Methylene chloride	86 B	U	U	10	100	760000
Acetone	11 JB	7 JB	7 JB	10	200	200000000
Carbon disulfide	U	U	U	10	2700	200000000
1,1-Dichloroethene	U	U	U	10	400	9500
1,1-Dichloroethane	U	U	U	10	200	200000000
1,2-Dichloroethene (total)	U	U	U	10	300	18000000
Chloroform	U	U	U	10	300	940000
1,2-Dichloroethane	U	U	U	10	100	63000
2-Butanone	U	U	3 J	10	300	1200000000
1,1,1-Trichloroethane	U	U	U	10	800	570000000
Carbon tetrachloride	U	U	U	10	600	44000
Bromochloromethane	U	U	U	10	--	--
1,2-Dichloropropane	U	U	U	10	--	84000
cis-1,3-Dichloropropene	U	U	U	10	--	32000
Trichloroethene	1 J	U	U	10	700	520000
Dibromochloromethane	U	U	U	10	N/A	68000
1,1,2-Trichloroethane	U	U	U	10	--	100000
Benzene	U	U	U	10	60	100000
trans-1,3-Dichloropropene	U	U	U	10	--	32000
Bromoform	U	U	U	10	--	720000
4-Methyl-2-pentanone	U	U	U	10	1000	160000000
2-Hexanone	U	U	U	10	--	82000000
Tetrachloroethene	5 J	U	U	10	1400	110000
1,1,2,2-Tetrachloroethane	U	U	U	10	600	29000
Toluene	U	5 JB	4 JB	10	1500	410000000
Chlorobenzene	U	U	U	10	1700	41000000
Ethylbenzene	U	U	U	10	5500	200000000
Styrene	U	U	U	10	--	410000000
Xylene (total)	U	U	1 J	10	1200	4100000000
Total VOCs	103	12	15		10000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

N/A: Not available.

TABLE B-2
SUBSURFACE SOIL SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1	AC-P-2	AC-P-4	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	1-3	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics						
Phenol	U	U	U	330	30 or MDL	1200000000
bis (2-Chloroethyl) ether	U	U	U	330	--	5200
2-Chlorophenol	U	U	U	330	800	10000000
1,3-Dichlorobenzene	U	U	U	330	1600	1800000
1,4-Dichlorobenzene	U	U	U	330	8500	240000
1,2-Dichlorobenzene	U	U	U	330	7900	180000000
2-Methylphenol	U	U	U	330	100 or MDL	100000000
2,2'-oxybis (1-Chloropropane)	U	U	U	330	--	--
4-Methylphenol	U	U	U	330	900	10000000
N-Nitroso-di-n-propylamine	U	U	U	330	--	820
Hexachloroethane	U	U	U	330	--	410000
Nitrobenzene	U	U	U	330	200 or MDL	1000000
Isophorone	U	U	U	330	4400	6000000
2-Nitrophenol	U	U	U	330	330 or MDL	--
2,4-Dimethylphenol	U	U	U	330	--	41000000
2,4-Dichlorophenol	U	U	U	330	400	6100000
1,2,4-Trichlorobenzene	U	U	U	330	--	20000000
Naphthalene	U	U	U	330	13000	41000000
4-Chloroaniline	U	U	U	330	220 or MDL	8200000
bis (2-Chloroethoxy)methane	U	U	U	330	--	--
Hexachlorobutadiene	U	U	U	330	--	73000
4-Chloro-3-Methylphenol	U	U	U	330	240 or MDL	--
2-Methylnaphthalene	U	U	U	330	36400	41000000
Hexachlorocyclopentadiene	U	U	U	330	--	14000000
2,4,6-Trichlorophenol	U	U	U	330	--	520000
2,4,5-Trichlorophenol	U	U	U	825	100	200000000
2-Chloronaphthalene	U	U	U	330	--	160000000
2-Nitroaniline	U	U	U	825	430 or MDL	--
Dimethylphthalate	U	U	U	330	2000	20000000000
Acenaphthylene	U	U	U	330	41000	--
2,6-Dinitrotoluene	U	U	U	330	1000	2000000
3-Nitroaniline	U	U	U	825	500 or MDL	--
Acenaphthene	U	U	U	330	50000	120000000
2,4-Dinitrophenol	U	U	U	825	200 or MDL	4100000
4-Nitrophenol	U	U	U	825	100 or MDL	16000000
Dibenzofuran	U	U	U	330	6200	8200000
2,4-Dinitrotoluene	U	U	U	330	--	4100000
Diethylphthalate	U	U	U	330	7100	1600000000
4-Chlorophenyl-phenylether	U	U	U	330	--	--
Fluorene	U	U	U	330	50000	82000000
4-Nitroaniline	U	U	U	825	--	--
4,6-Dinitro-2-methylphenol	U	U	U	330	--	200000
N-Nitrosodiphenylamine	U	U	U	330	--	1200000
4-Bromophenyl-phenylether	U	U	U	330	--	--

TABLE B-2
SUBSURFACE SOIL SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1	AC-P-2	AC-P-4	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	1-3	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics (cont.)						
Hexachlorobenzene	U	U	U	330	410	3600
Pentachlorophenol	U	U	U	825	1000 or MDL	48000
Phenanthrene	U	130 J	190 J	330	50000	--
Anthracene	U	U	U	330	50000	610000000
Carbazole	U	U	U	330	--	290000
Di-n-butylphthalate	U	U	U	330	8100	--
Fluoranthene	U	240 J	320 J	330	50000	82000000
Pyrene	U	300 J	340 J	330	50000	61000000
Butylbenzylphthalate	U	U	U	330	50000	410000000
3,3'-Dichlorobenzidine	U	U	U	330	N/A	13000
Benzo(a)anthracene	U	140 J	160 J	330	224 or MDL	7800
Chrysene	U	170 J	200 J	330	400	780000
bis (2-Ethylhexyl) phthalate	69 JB	110 JB	230 JB	330	50000	410000
Di-n-octylphthalate	U	U	U	330	50000	--
Benzo(b)fluoranthene	U	200 J	240 J	330	1100	7800
Benzo(k)fluoranthene	U	76 J	85 J	330	1100	78000
Benzo(a)pyrene	U	140 J	120 J	330	61 or MDL	780
Indeno (1,2,3-cd)pyrene	U	100 J	140 J	330	3200	7800
Dibenzo(a,h)anthracene	U	U	U	330	14 or MDL	780
Benzo (g,h,i)perylene	U	110 J	130 JB	330	50000	--
Total carcinogenic SVOCs	U	826	945		10000	
Total SVOCs	69	1716	2155		500000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

D: Concentration from diluted sample.

MDL: Method detection limit.

N/A: Not available.

69 Concentration exceeds Recommended Soil Cleanup Objective.

TABLE B-2
SUBSURFACE SOIL SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1	AC-P-2	AC-P-4	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	1-3	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals						
Aluminum	4500	6010	4480	9	SB	2000000
Antimony	U	1.4 B	1.1 B	3	SB	820
Arsenic	1.4 B	8.5	4.4	3	7.5 or SB	3.8
Barium	8.5 B	118	77.3	10	300 or SB	140000
Beryllium	0.27 B	0.36 B	0.31 B	0.3	0.16 or SB	4100
Cadmium	0.23 B	0.59 B	0.64 B	0.3	10 or SB	1000
Calcium	401 B	2540	1460	317	SB	--
Chromium	8.7	12	11	2	50 or SB	3100000
Cobalt	3.7 B	4.6 B	5.2 B	3	30 or SB	120000
Copper	6.7	29.4	30.8	2	25 or SB	82000
Iron	7950	9160	8810	2	2000 or SB	610000
Lead	4.7	190	585	2	400*	--
Magnesium	1010	1250	1140	3	SB	--
Manganese	55.4	260	199	4	SB	41000
Mercury	U	0.16	0.27	0.1	0.1	--
Nickel	5.6 B	8.4	7.1 B	3	13 or SB	41000
Potassium	560 B	410 B	528 B	320	SB	--
Selenium	U	0.89	2.2	5	2 or SB	10000
Silver	U	U	U	8	SB	10000
Sodium	U	126 B	527 B	155	SB	--
Thallium	U	U	U	5	SB	140
Vanadium	11.6	15.8	13.2	3	150 or SB	14000
Zinc	28.2	201	326	2	20 or SB	610000
Cyanide	0.12 B	0.19 B	0.22 B	2	---	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

XXXXXXXXXX Concentration exceeds Recommended Soil Cleanup Objective.

XXXXXXXXXX Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

*: Average background levels for lead in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

TABLE B-3
ASBESTOS SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1	AC-P-4	AC-P-4
SAMPLE DEPTH (FT)	0-0.5	0-0.5	4-6
SAMPLE TYPE	Surface Soil	Surface Soil	Subsurface Soil
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00
Asbestos	0.79% Chrysotile	0.05% Chrysotile	0.17% Chrysotile

NOTES:

Sample from AC-P-1 (5-7') was not analyzed for asbestos due to insufficient sample volume (bottle breakage).
All analyses conducted utilizing polarized light microscopy and transmission electron microscopy.

TABLE B-4
GROUNDWATER SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1- GW	AC-P-2- GW	AC-P-3- GW	AC-P-4- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
<i>Volatile Organics</i>						
Chloromethane	U	U	U	U	10	---
Bromomethane	43	U	U	U	10	5
Vinyl chloride	U	U	U	U	10	2
Chloroethane	U	U	U	U	10	5
Methylene chloride	U	U	U	U	10	5
Acetone	U	U	U	U	10	50
Carbon disulfide	9 J	U	U	U	10	---
1,1-Dichloroethene	23	U	U	U	10	5
1,1-Dichloroethane	530 D	U	U	U	10	5
1,2-Dichloroethene (total)	U	4 J	U	U	10	5
Chloroform	U	U	U	U	10	7
1,2-Dichloroethane	3 J	U	U	U	10	0.6
2-Butanone	U	U	U	U	10	50 GV
1,1,1-Trichloroethane	8 J	U	U	U	10	5
Carbon tetrachloride	U	U	U	U	10	5
Bromochloromethane	U	U	U	U	10	5
2,2-Dichloropropane	U	U	U	U	10	5
cis-1,3-Dichloropropene	U	U	U	U	10	0.4
Trichloroethene	170 D	3 J	U	U	10	5
Dibromochloromethane	U	U	U	U	10	50 GV
1,1,2-Trichloroethane	1 J	U	U	U	10	1
Benzene	1 J	U	U	U	10	1
trans-1,3-Dichloropropene	U	U	U	U	10	0.4
Bromoform	U	U	U	U	10	50 GV
4-Methyl-2-pentanone	U	U	U	U	10	---
2-Hexanone	U	U	U	U	10	50 GV
Tetrachloroethene	300 D	1 J	U	U	10	5
1,1,2,2-Tetrachloroethane	U	U	U	U	10	5
Toluene	U	U	U	U	10	5
Chlorobenzene	2 J	U	U	U	10	5
Ethylbenzene	U	U	U	U	10	5
Styrene	U	U	U	U	10	5
Xylene (total)	U	U	U	U	10	5
Total VOCs	1090	8	U	U		

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

GV: Guidance value.

D: Concentration from diluted sample.

Concentration exceeds Groundwater Standard or Guidance Value.

TABLE B-4
GROUNDWATER SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1- GW	AC-P-2- GW	AC-P-3- GW	AC-P-4- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
<i>Semi-volatile Organics</i>						
Phenol	U	U	U	U	330	1
bis (2-Chloroethyl) Ether	U	U	U	U	330	1
2-Chlorophenol	U	U	U	U	330	--
1,3-Dichlorobenzene	U	U	U	U	330	3
1,4-Dichlorobenzene	U	U	U	U	330	3
1,2-Dichlorobenzene	U	U	U	U	330	3
2-Methylphenol	U	U	U	U	330	1
2,2'-oxybis (1-Chloropropane)	U	U	U	U	330	--
4-Methylphenol	U	U	U	U	330	1
N-Nitroso-di-n-propylamine	U	U	U	U	330	--
Hexachloroethane	U	U	U	U	330	5
Nitrobenzene	U	U	U	U	330	0.4
Isophorone	U	U	U	U	330	50 GV
2-Nitrophenol	U	U	U	U	330	1
2,4-Dimethylphenol	U	U	U	U	330	50 GV
2,4-Dichlorophenol	U	U	U	U	330	5
1,2,4-Trichlorobenzene	U	U	U	U	330	5
Naphthalene	U	U	U	U	330	10 GV
4-Chloroaniline	U	U	U	U	330	5
bis (2-Chloroethoxy)methane	U	U	U	U	330	5
Hexachlorobutadiene	U	U	U	U	330	0.5
4-Chloro-3-Methylphenol	U	U	U	U	330	--
2-Methylnaphthalene	U	U	U	U	330	--
Hexachlorocyclopentadiene	U	U	U	U	330	5
2,4,6-Trichlorophenol	U	U	U	U	330	1
2,4,5-Trichlorophenol	U	U	U	U	825	1
2-Chloronaphthalene	U	U	U	U	330	10 GV
2-Nitroaniline	U	U	U	U	825	5
Dimethylphthalate	U	U	U	U	330	50 GV
Acenaphthylene	U	U	U	U	330	--
2,6-Dinitrotoluene	U	U	U	U	330	5
3-Nitroaniline	U	U	U	U	825	5
Acenaphthene	U	U	U	U	330	20 GV
2,4-Dinitrophenol	U	U	U	U	825	10 GV
4-Nitrophenol	U	U	U	U	825	1
Dibenzofuran	U	U	U	U	330	--
2,4-Dinitrotoluene	U	U	U	U	330	5
Diethylphthalate	U	U	U	U	330	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	330	--
Fluorene	U	U	U	U	330	50 GV
4-Nitroaniline	U	U	U	U	825	5
4,6-Dinitro-2-methylphenol	U	U	U	U	330	--
N-Nitrosodiphenylamine	U	U	U	U	330	50 GV
4-Bromophenyl-phenylether	U	U	U	U	330	--

TABLE B-4
GROUNDWATER SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1- GW	AC-P-2- GW	AC-P-3- GW	AC-P-4- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
<i>Semi-volatile Organics (cont.)</i>						
Hexachlorobenzene	U	U	U	U	330	0.04
Pentachlorophenol	U	U	U	U	825	1
Phenanthrene	U	U	U	U	330	50 GV
Anthracene	U	U	U	U	330	50 GV
Carbazole	U	U	U	U	330	--
Di-n-butylphthalate	U	U	U	U	330	50
Fluoranthene	U	U	U	U	330	50 GV
Pyrene	U	U	U	U	330	50 GV
Butylbenzylphthalate	1 J	U	U	U	330	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	330	5
Benzo(a)anthracene	U	U	U	U	330	0.002 GV
Chrysene	U	U	U	U	330	0.002 GV
bis (2-Ethylhexyl) phthalate	2 J	U	2 J	1 J	330	5
Di-n-octylphthalate	U	U	U	U	330	50 GV
Benzo(b)fluoranthene	U	U	U	U	330	0.002 GV
Benzo(k)fluoranthene	U	U	U	U	330	0.002 GV
Benzo(a)pyrene	U	U	U	U	330	ND
Indeno (1,2,3-cd)pyrene	U	U	U	U	330	0.002 GV
Dibenzo(a,h)anthracene	U	U	U	U	330	--
Benzo (g,h,i)perylene	U	U	U	U	330	--
Total carcinogenic SVOCs	U	U	U	U		
Total SVOCs	3	U	2	1		

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

GV: Guidance value.

ND: Non-detectable concentration.

Concentration exceeds Groundwater Standard or Guidance Value.

TABLE B-4
GROUNDWATER SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1- GW	AC-P-2- GW	AC-P-3- GW	AC-P-4- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Pesticides/PCBs						
alpha-BHC	U	U	U	U	0.05	--
beta-BHC	U	U	U	U	0.05	--
delta-BHC	U	U	U	U	0.05	--
gamma-BHC	U	U	U	U	0.05	--
Heptachlor	U	U	U	U	0.05	0.04
Aldrin	U	U	U	U	0.05	--
Heptachlor epoxide	U	U	U	U	0.05	0.03
Endosulfan I	U	U	U	U	0.05	--
Dieldrin	U	U	U	U	0.10	0.004
4,4'-DDE	U	U	U	U	0.05	0.2
Endrin	U	U	U	U	0.05	ND
Endosulfan II	U	U	U	U	0.05	--
4,4'-DDD	U	U	U	U	0.05	0.3
Endosulfan sulfate	U	U	U	U	0.05	--
4,4'-DDT	U	U	U	U	0.05	0.2
Methoxychlor	U	U	U	U	0.50	35
Endrin ketone	U	U	U	U	0.10	5
Endrin aldehyde	U	U	U	U	0.10	5
alpha-Chlordane	U	U	U	U	0.05	0.05
gamma-Chlordane	U	U	U	U	0.05	0.05
Toxaphene	U	U	U	U	5.0	0.06
Total Pesticides	U	U	U	U		
Aroclor-1016	U	U	U	U	1.0	0.09
Aroclor-1221	U	U	U	U	2.0	0.09
Aroclor-1232	U	U	U	U	1.0	0.09
Aroclor-1242	U	U	U	U	1.0	0.09
Aroclor-1248	U	U	U	U	1.0	0.09
Aroclor-1254	U	U	U	U	1.0	0.09
Aroclor-1260	U	U	U	U	1.0	0.09
Total PCBs	U	U	U	U		0.09

NOTES:

U: Compound analyzed for but not detected.

ND: Non-detectable concentration.

TABLE B-4
GROUNDWATER SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-1- GW Total	AC-P-1- GW Dissolved	AC-P-2- GW Total	AC-P-2- GW Dissolved	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Metals						
Aluminum	65700	19 B	34000	14.1 B	9	--
Antimony	U	3.1 B	U	6.0 B	3	3
Arsenic	32.5	3.7 B	8.6 B	5.4 B	3	25
Barium	927	10.2 B	170 B	39.3 B	10	1000
Beryllium	4.2 B	U	2.2 B	U	0.3	3 GV
Cadmium	7.9	U	0.55 B	U	0.3	5
Calcium	96800	81000	124000	116000	317	--
Chromium	269	2.6 B	116	U	2	50
Cobalt	199	32.2 B	70.3	20.8 B	3	--
Copper	277	2.6 B	48.4	2.7 B	2	200
Iron	84300	20.5 B	45600	118	2	300
Lead	510	U	27.5	U	2	25
Magnesium	27500	19000	18000	13900	3	35000 GV
Manganese	47100	5680	1710	1170	4	300
Mercury	0.27 B	U	U	U	0.1	0.7
Nickel	260	26.6 B	71.9	5.4 B	3	100
Potassium	11500	7080	3930 B	1910 B	320	--
Selenium	U	U	U	8.9	5	10
Silver	15.8	U	U	U	8	50
Sodium	119000	122000	37800	35700	155	20000
Thallium	36.6	U	U	U	5	0.5 GV
Vanadium	109	U	75.3	U	3	--
Zinc	655	21.2	83.9	16.9 B	2	2000 GV
Cyanide	15.6	NA	3.5 B	NA	2	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

GV: Guidance value.

NA: Not analyzed.

 Concentration exceeds Groundwater Standard or Guidance Value.

TABLE B-4
GROUNDWATER SAMPLE RESULTS
ANGLERS CLUB, GLEN COVE, NEW YORK

SAMPLE ID	AC-P-3- GW Total	AC-P-3- GW Dissolved	AC-P-4- GW Total	AC-P-4- GW Dissolved	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Metals						
Aluminum	103000	14.2 B	161000	U	9	--
Antimony	U	5.7 B	U	7.2 B	3	3
Arsenic	44.7	5.9 B	42	5.4 B	3	25
Barium	448	90.9 B	819	54.5 B	10	1000
Beryllium	6.5	U	8.2	U	0.3	3 GV
Cadmium	3.2 B	U	9.7	0.55 B	0.3	5
Calcium	56400	43700	126000	112000	317	--
Chromium	227	U	417	U	2	50
Cobalt	67.6	U	135	21.3 B	3	--
Copper	126	4.7 B	179	6.3 B	2	200
Iron	139000	29.8 B	294000	29.4 B	2	300
Lead	94.0	U	103	U	2	25
Magnesium	17300	8510	133000	136000	3	35000 GV
Manganese	1300	62.6	1260	218	4	300
Mercury	0.26 B	U	0.68	U	0.1	0.7
Nickel	152	U	265	6.7 B	3	100
Potassium	14800	9100	69700	69100	320	--
Selenium	U	7	13.4	12.9	5	10
Silver	U	U	U	U	8	50
Sodium	725000	729000	876000	12300000	155	20000
Thallium	U	U	U	U	5	0.5 GV
Vanadium	255	U	325	U	3	--
Zinc	199	5.1 B	368	11.4 B	2	2000 GV
Cyanide	4.7 B	NA	3 B	NA	2	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

GV: Guidance value.

NA: Not analyzed.

Concentration exceeds Groundwater Standard or Guidance Value.

**TABLE B-5
SURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK**

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Volatile Organics							
Chloromethane	U	U	U	U	10	--	440000
Bromomethane	U	U	U	U	10	--	2900000
Vinyl chloride	U	U	U	U	10	200	3000
Chloroethane	U	U	U	U	10	1900	2000000
Methylene chloride	6 JB	6 JB	7 JB	2 JB	10	100	760000
Acetone	34 B	11 B	5 JB	3 JB	10	200	20000000
Carbon disulfide	U	U	U	U	10	2700	20000000
1,1-Dichloroethene	U	U	U	U	10	400	9500
1,1-Dichloroethane	U	U	U	U	10	200	20000000
1,2-Dichloroethene (total)	U	U	U	U	10	300	18000000
Chloroform	U	U	U	U	10	300	940000
1,2-Dichloroethane	U	U	U	U	10	100	63000
2-Butanone	U	U	U	U	10	300	120000000
1,1,1-Trichloroethane	U	U	U	U	10	800	57000000
Carbon tetrachloride	U	U	U	U	10	600	44000
Bromochloromethane	U	U	U	U	10	--	--
1,2-Dichloropropane	U	U	U	U	10	--	84000
cis-1,3-Dichloropropene	U	U	U	U	10	--	32000
Trichloroethene	U	U	U	U	10	700	520000
Dibromochloromethane	U	U	U	U	10	N/A	68000
1,1,2-Trichloroethane	U	U	U	U	10	--	100000
Benzene	3 J	U	U	U	10	60	100000
trans-1,3-Dichloropropene	U	U	U	U	10	--	32000
Bromoform	U	U	U	U	10	--	720000
4-Methyl-2-pentanone	U	U	U	U	10	1000	16000000
2-Hexanone	U	U	U	U	10	--	8200000
Tetrachloroethene	U	U	U	U	10	1400	110000
1,1,2,2-Tetrachloroethane	U	U	U	U	10	600	29000
Toluene	4 J	1 J	U	U	10	1500	41000000
Chlorobenzene	U	U	U	U	10	1700	4100000
Ethylbenzene	U	U	U	U	10	5500	20000000
Styrene	U	U	U	U	10	--	41000000
Xylene (total)	2 J	4 J	U	U	10	1200	41000000
Total VOCs	49	22	12	5		10000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

N/A: Not available.

TABLE B-5
SURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics							
Phenol	100 J	U	U	U	330	30 or MDL	1200000000
bis (2-Chloroethyl) ether	U	U	U	U	330	--	5200
2-Chlorophenol	U	U	U	U	330	800	10000000
1,3-Dichlorobenzene	U	U	U	U	330	1600	1800000
1,4-Dichlorobenzene	U	U	U	U	330	8500	240000
1,2-Dichlorobenzene	U	U	U	U	330	7900	180000000
2-Methylphenol	U	U	U	U	330	100 or MDL	100000000
2,2'-oxybis (1-Chloropropane)	U	U	U	U	330	--	--
4-Methylphenol	U	U	U	U	330	900	10000000
N-Nitroso-di-n-propylamine	U	U	U	U	330	--	820
Hexachloroethane	U	U	U	U	330	--	410000
Nitrobenzene	U	U	U	U	330	200 or MDL	1000000
Isophorone	U	U	U	U	330	4400	6000000
2-Nitrophenol	U	U	U	U	330	330 or MDL	--
2,4-Dimethylphenol	U	U	U	U	330	--	41000000
2,4-Dichlorophenol	U	U	U	U	330	400	6100000
1,2,4-Trichlorobenzene	U	U	U	U	330	--	20000000
Naphthalene	7600 D	U	180 J	U	330	13000	41000000
4-Chloroaniline	U	U	U	U	330	220 or MDL	8200000
bis (2-Chloroethoxy)methane	U	U	U	U	330	--	--
Hexachlorobutadiene	U	U	U	U	330	--	73000
4-Chloro-3-Methylphenol	U	U	U	U	330	240 or MDL	--
2-Methylnaphthalene	18000 D	U	100 J	U	330	36400	41000000
Hexachlorocyclopentadiene	U	U	U	U	330	--	14000000
2,4,6-Trichlorophenol	U	U	U	U	330	--	520000
2,4,5-Trichlorophenol	U	U	U	U	825	100	200000000
2-Chloronaphthalene	U	U	U	U	330	--	160000000
2-Nitroaniline	U	U	U	U	825	430 or MDL	--
Dimethylphthalate	U	U	U	U	330	2000	20000000000
Acenaphthylene	U	U	52 J	U	330	41000	--
2,6-Dinitrotoluene	U	U	U	U	330	1000	2000000
3-Nitroaniline	U	U	U	U	825	500 or MDL	--
Acenaphthene	U	U	430	U	330	50000	120000000
2,4-Dinitrophenol	U	U	U	U	825	200 or MDL	4100000
4-Nitrophenol	U	U	U	U	825	100 or MDL	16000000
Dibenzofuran	U	U	190 J	U	330	6200	8200000
2,4-Dinitrotoluene	U	U	U	U	330	--	4100000
Diethylphthalate	U	U	U	U	330	7100	1600000000
4-Chlorophenyl-phenylether	U	U	U	U	330	--	--
Fluorene	U	U	350 J	U	330	50000	82000000
4-Nitroaniline	U	U	U	U	825	--	--
4,6-Dinitro-2-methylphenol	U	U	U	U	330	--	200000
N-Nitrosodiphenylamine	U	U	110 J	U	330	--	1200000
4-Bromophenyl-phenylether	U	U	U	U	330	--	--

TABLE B-5
SURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics (cont.)							
Hexachlorobenzene	U	U	U	U	330	410	3600
Pentachlorophenol	U	U	U	U	825	1000 or MDL	48000
Phenanthrene	U	U	11000 D	710	330	50000	--
Anthracene	U	U	2100	64 J	330	50000	610000000
Carbazole	U	U	960	78 J	330	--	290000
Di-n-butylphthalate	U	U	110 J	U	330	8100	--
Fluoranthene	U	2800	20000 D	1000	330	50000	82000000
Pyrene	U	2500 D	25000 D	1400	330	50000	61000000
Butylbenzylphthalate	U	U	160 J	44 J	330	50000	410000000
3,3'-Dichlorobenzidine	U	U	U	U	330	N/A	13000
Benzo(a)anthracene	U	2200	12000 D	660	330	224 or MDL	7800
Chrysene	U	2200	11000 D	890	330	400	780000
bis (2-Ethylhexyl) phthalate	200 J	4600 B	920 B	170 JB	330	50000	410000
Di-n-octylphthalate	U	U	U	U	330	50000	--
Benzo(b)fluoranthene	U	2200	18000 D	980	330	1100	7800
Benzo(k)fluoranthene	U	590 J	4300 D	310 J	330	1100	78000
Benzo(a)pyrene	U	U	8200 D	500	330	61 or MDL	780
Indeno (1,2,3-cd)pyrene	U	920 J	3400 JD	500	330	3200	7800
Dibenzo(a,h)anthracene	U	U	1900	130 J	330	14 or MDL	780
Benzo (g,h,i)perylene	U	1100 J	2800 JD	520	330	50000	--
Total carcinogenic SVOCs	U	8110	58800	3970		10000	
Total SVOCs	25900	19110	123262	7956		500000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

D: Concentration from diluted sample.

MDL: Method detection limit.

N/A: Not available.

 Concentration exceeds Recommended Soil Cleanup Objective.

 Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

**TABLE B-5
SURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK**

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Pesticides/PCBs							
alpha-BHC	U	U	U	U	1.7	110	910
beta-BHC	U	U	U	U	1.7	200	3200
delta-BHC	U	U	U	U	1.7	300	--
gamma-BHC	U	2.9 P	U	U	1.7	60	4400
Heptachlor	U	15	U	U	1.7	100	1300
Aldrin	U	17 P	U	U	1.7	41	340
Heptachlor epoxide	U	U	U	U	1.7	20	630
Endosulfan I	U	U	U	U	1.7	900	12000000
Dieldrin	U	33 P	U	U	3.3	44	360
4,4'-DDE	U	8 P	25 P	9	3.3	2100	17000
Endrin	U	U	16 P	U	3.3	100	610000
Endosulfan II	U	170 DP	38 P	9.2 P	3.3	900	12000000
4,4'-DDD	U	22 P	12 P	U	3.3	2900	24000
Endosulfan sulfate	U	U	U	U	3.3	1000	--
4,4'-DDT	U	20 P	U	57 P	3.3	2100	17000
Methoxychlor	U	U	36 P	U	17	---	10000000
Endrin ketone	U	15 P	36	7.2 P	3.3	N/A	--
Endrin aldehyde	U	U	U	U	3.3	---	--
alpha-Chlordane	U	14 P	21 P	6.3 P	1.7	540	16000
gamma-Chlordane	U	27 P	65 DP	15	1.7	540	16000
Toxaphene	U	U	U	U	170	---	5200
Total Pesticides	U	343.9	249	103.7		10000	
Aroclor-1016	U	U	U	U	33	1000	82000
Aroclor-1221	U	U	U	U	67	1000	2900
Aroclor-1232	U	U	U	U	33	1000	2900
Aroclor-1242	U	U	U	U	33	1000	2900
Aroclor-1248	U	U	U	U	33	1000	2900
Aroclor-1254	U	430 P	1100	150 P	33	1000	2900
Aroclor-1260	U	U	U	U	33	1000	2900
Total PCBs	U	430	1100	150		1000	2900

NOTES:

U: Compound analyzed for but not detected.

P: Greater than 25% difference between primary and confirmation columns; lower value reported.

D: Concentration from diluted sample.

N/A: Not available.

Concentration exceeds Recommended Soil Cleanup Objective.

**TABLE B-5
SURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK**

SAMPLE ID	G-SS-2	G-SS-3	G-SS-4	G-SS-5	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	0-0.5	0-0.5	0-0.5	0-0.5			
SAMPLE TYPE	Surface Soil	Surface Soil	Surface Soil	Surface Soil			
PERCENT SOLIDS	67	92	91	90			
DILUTION FACTOR	1	1	1	1			
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals							
Aluminum	5910	1510	1480	226	9	SB	2000000
Antimony	16.6 B	11.3	4.9 B	15.6	3	SB	820
Arsenic	3380	94.5	26.2	15.1	3	7.5 or SB	3.8
Barium	1220	208	83.5	63.5	10	300 or SB	140000
Beryllium	0.26 B	0.18 B	0.21 B	U	0.3	0.16 or SB	4100
Cadmium	4.6	13.2	4.1	17.1	0.3	10 or SB	1000
Calcium	58600	24900	12200	12500	317	SB	--
Chromium	553	168	101	674	2	50 or SB	3100000
Cobalt	45.2	16.8	13.4	42.1	3	30 or SB	120000
Copper	4310	10000	450	122	2	25 or SB	82000
Iron	115000	115000	57200	525600	2	2000 or SB	610000
Lead	1390	2730	740	7590	2	400*	--
Magnesium	8070	9990	4890	204 B	3	SB	--
Manganese	1810	351	441	2600	4	SB	41000
Mercury	0.15	0.19	0.15	U	0.1	0.1	--
Nickel	107	90.6	82.1	98.5	3	13 or SB	41000
Potassium	5130	202 B	179 B	85.7 B	320	SB	--
Selenium	4.7	6.5	4.5	20.8	5	2 or SB	10000
Silver	9.6	4.9	3.3	U	8	SB	10000
Sodium	5680	5360	1960	5400	155	SB	--
Thallium	U	1.3 B	U	U	5	SB	140
Vanadium	37.3	20.9	14.5	U	3	150 or SB	14000
Zinc	2350	3250	1070	3250	2	20 or SB	610000
Cyanide	0.56	0.5	0.28 B	0.41	2	---	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

Concentration exceeds Recommended Soil Cleanup Objective.

Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

*: Average background levels for lead in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

TABLE B-6
SUBSURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1	G-P-4	G-P-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	4-6	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Volatile Organics						
Chloromethane	U	U	U	10	--	440000
Bromomethane	U	U	U	10	--	2900000
Vinyl chloride	U	U	U	10	200	3000
Chloroethane	U	U	U	10	1900	2000000
Methylene chloride	U	4 JB	5 JB	10	100	760000
Acetone	9 JB	4 JB	6 JB	10	200	200000000
Carbon disulfide	U	U	U	10	2700	200000000
1,1-Dichloroethene	U	U	U	10	400	9500
1,1-Dichloroethane	U	U	U	10	200	200000000
1,2-Dichloroethene (total)	U	U	U	10	300	18000000
Chloroform	U	U	U	10	300	940000
1,2-Dichloroethane	U	U	U	10	100	63000
2-Butanone	U	U	U	10	300	1200000000
1,1,1-Trichloroethane	U	U	U	10	800	570000000
Carbon tetrachloride	U	U	U	10	600	44000
Bromochloromethane	U	U	U	10	--	--
1,2-Dichloropropane	U	U	U	10	--	84000
cis-1,3-Dichloropropene	U	U	U	10	--	32000
Trichloroethene	U	U	U	10	700	520000
Dibromochloromethane	U	U	U	10	N/A	68000
1,1,2-Trichloroethane	U	U	U	10	--	100000
Benzene	U	U	U	10	60	100000
trans-1,3-Dichloropropene	U	U	U	10	--	32000
Bromoform	U	U	U	10	--	720000
4-Methyl-2-pentanone	U	U	U	10	1000	160000000
2-Hexanone	U	U	U	10	--	82000000
Tetrachloroethene	U	U	U	10	1400	110000
1,1,2,2-Tetrachloroethane	U	U	U	10	600	29000
Toluene	3 JB	U	2 J	10	1500	410000000
Chlorobenzene	U	U	U	10	1700	41000000
Ethylbenzene	U	U	U	10	5500	200000000
Styrene	U	U	U	10	--	410000000
Xylene (total)	U	U	2 J	10	1200	4100000000
Total VOCs	12	8	15		10000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

N/A: Not available.

TABLE B-6
SUBSURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1	G-P-4	G-P-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA
SAMPLE DEPTH (FT)	5-7	4-6	4-6			Region III
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			Risk-Based
PERCENT SOLIDS	93	88	84			Concentrations -
DILUTION FACTOR	1	1	1			Industrial
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			Land Use
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics						
Phenol	U	U	U	330	30 or MDL	1200000000
bis (2-Chloroethyl) ether	U	U	U	330	--	5200
2-Chlorophenol	U	U	U	330	800	10000000
1,3-Dichlorobenzene	U	U	U	330	1600	1800000
1,4-Dichlorobenzene	U	U	U	330	8500	240000
1,2-Dichlorobenzene	U	U	U	330	7900	180000000
2-Methylphenol	U	U	U	330	100 or MDL	100000000
2,2'-oxybis (1-Chloropropane)	U	U	U	330	--	--
4-Methylphenol	U	U	U	330	900	10000000
N-Nitroso-di-n-propylamine	U	U	U	330	--	820
Hexachloroethane	U	U	U	330	--	410000
Nitrobenzene	U	U	U	330	200 or MDL	1000000
Isophorone	U	U	U	330	4400	6000000
2-Nitrophenol	U	U	U	330	330 or MDL	--
2,4-Dimethylphenol	U	U	U	330	--	41000000
2,4-Dichlorophenol	U	U	U	330	400	6100000
1,2,4-Trichlorobenzene	U	U	U	330	--	20000000
Naphthalene	U	U	U	330	13000	41000000
4-Chloroaniline	U	U	U	330	220 or MDL	8200000
bis (2-Chloroethoxy)methane	U	U	U	330	--	--
Hexachlorobutadiene	U	U	U	330	--	73000
4-Chloro-3-Methylphenol	U	U	U	330	240 or MDL	--
2-Methylnaphthalene	U	U	U	330	36400	41000000
Hexachlorocyclopentadiene	U	U	U	330	--	14000000
2,4,6-Trichlorophenol	U	U	U	330	--	520000
2,4,5-Trichlorophenol	U	U	U	825	100	200000000
2-Chloronaphthalene	U	U	U	330	--	160000000
2-Nitroaniline	U	U	U	825	430 or MDL	--
Dimethylphthalate	U	U	U	330	2000	20000000000
Acenaphthylene	U	U	U	330	41000	--
2,6-Dinitrotoluene	U	U	U	330	1000	2000000
3-Nitroaniline	U	U	U	825	500 or MDL	--
Acenaphthene	U	50 J	U	330	50000	120000000
2,4-Dinitrophenol	U	U	U	825	200 or MDL	4100000
4-Nitrophenol	U	U	U	825	100 or MDL	16000000
Dibenzofuran	U	U	U	330	6200	8200000
2,4-Dinitrotoluene	U	U	U	330	--	4100000
Diethylphthalate	U	U	U	330	7100	1600000000
4-Chlorophenyl-phenylether	U	U	U	330	--	--
Fluorene	U	45 J	U	330	50000	82000000
4-Nitroaniline	U	U	U	825	--	--
4,6-Dinitro-2-methylphenol	U	U	U	330	--	200000
N-Nitrosodiphenylamine	U	U	U	330	--	1200000
4-Bromophenyl-phenylether	U	U	U	330	--	--

TABLE B-6
SUBSURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1	G-P-4	G-P-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	4-6	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Semi-volatile Organics (cont.)						
Hexachlorobenzene	U	U	U	330	410	3600
Pentachlorophenol	U	U	U	825	1000 or MDL	48000
Phenanthrene	U	480	U	330	50000	--
Anthracene	U	80 J	U	330	50000	610000000
Carbazole	U	44 J	U	330	--	290000
Di-n-butylphthalate	U	U	U	330	8100	--
Fluoranthene	U	510	U	330	50000	82000000
Pyrene	U	700	U	330	50000	61000000
Butylbenzylphthalate	U	U	U	330	50000	410000000
3,3'-Dichlorobenzidine	U	U	U	330	N/A	13000
Benzo(a)anthracene	U	260 J	U	330	224 or MDL	7800
Chrysene	U	270 J	U	330	400	780000
bis (2-Ethylhexyl) phthalate	310 JB	610 B	200 JB	330	50000	410000
Di-n-octylphthalate	U	U	U	330	50000	--
Benzo(b)fluoranthene	U	320 J	U	330	1100	7800
Benzo(k)fluoranthene	U	130 J	U	330	1100	78000
Benzo(a)pyrene	U	170 J	U	330	61 or MDL	780
Indeno (1,2,3-cd)pyrene	U	220 J	U	330	3200	7800
Dibenzo(a,h)anthracene	U	U	U	330	14 or MDL	780
Benzo (g,h,i)perylene	U	220 J	U	330	50000	--
Total carcinogenic SVOCs	U	1370	U		10000	
Total SVOCs	310	4109	200		500000	

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

B: Compound detected in the blank as well as the sample.

MDL: Method detection limit.

N/A: Not available.

 Concentration exceeds Recommended Soil Cleanup Objective.

TABLE B-6
SUBSURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1	G-P-4	G-P-5	Contract Required Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	4-6	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Pesticides/PCBs						
alpha-BHC	U	U	U	1.7	110	910
beta-BHC	U	U	U	1.7	200	3200
delta-BHC	U	U	U	1.7	300	--
Gamma-BHC	U	U	U	1.7	60	4400
Heptachlor	U	U	U	1.7	100	1300
Aldrin	U	U	U	1.7	41	340
Heptachlor epoxide	U	U	U	1.7	20	630
Endosulfan I	U	U	U	1.7	900	12000000
Dieldrin	U	U	U	3.3	44	360
4,4'-DDE	U	6.5	U	3.3	2100	17000
Endrin	U	U	U	3.3	100	610000
Endosulfan II	U	U	U	3.3	900	12000000
4,4'-DDD	U	U	U	3.3	2900	24000
Endosulfan sulfate	U	U	U	3.3	1000	--
4,4'-DDT	U	29	U	3.3	2100	17000
Methoxychlor	U	U	U	17	---	10000000
Endrin ketone	U	U	U	3.3	N/A	--
Endrin aldehyde	U	U	U	3.3	---	--
alpha-Chlordane	U	7.9 P	U	1.7	540	16000
gamma-Chlordane	U	8.7 P	U	1.7	540	16000
Toxaphene	U	U	U	170	---	5200
Total Pesticides	U	52.1	U		10000	
Aroclor-1016	U	U	U	33	10000	82000
Aroclor-1221	U	U	U	67	10000	2900
Aroclor-1232	U	U	U	33	10000	2900
Aroclor-1242	U	U	U	33	10000	2900
Aroclor-1248	U	U	U	33	10000	2900
Aroclor-1254	U	U	U	33	10000	2900
Aroclor-1260	U	U	U	33	10000	2900
Total PCBs	U	U	U		10000	2900

NOTES:

U: Compound analyzed for but not detected.

P: Greater than 25% difference between primary and confirmation columns; lower value reported.

N/A: Not available.

TABLE B-6
SUBSURFACE SOIL SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1	G-P-4	G-P-5	Instrument Detection Limit	Recommended Soil Cleanup Objectives	USEPA Region III Risk-Based Concentrations - Industrial Land Use
SAMPLE DEPTH (FT)	5-7	4-6	4-6			
SAMPLE TYPE	Subsurface Soil	Subsurface Soil	Subsurface Soil			
PERCENT SOLIDS	93	88	84			
DILUTION FACTOR	1	1	1			
DATE OF COLLECTION	4/12/00	4/13/00	4/13/00			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(mg/kg)	(mg/kg)
Metals						
Aluminum	3940	2610	4070	9	SB	2000000
Antimony	0.57 B	0.56 B	U	3	SB	820
Arsenic	1.6 B	4.7	1.4 B	3	7.5 or SB	3.8
Barium	19.6 B	25.2 B	16.2 B	10	300 or SB	140000
Beryllium	0.26 B	0.15 B	0.24 B	0.3	0.16 or SB	4100
Cadmium	0.25 B	0.74 B	0.19 B	0.3	10 or SB	1000
Calcium	794 B	2900	555 B	317	SB	--
Chromium	10.6	11.7	6.8	2	50 or SB	3100000
Cobalt	5.2 B	2.5 B	3.3 B	3	30 or SB	120000
Copper	11.1	23.7	6.4	2	25 or SB	82000
Iron	10100	9170	7170	2	2000 or SB	610000
Lead	7.3	49.5	6.6	2	400*	--
Magnesium	1010	1650	1170	3	SB	--
Manganese	177	66.9	83.4	4	SB	41000
Mercury	U	U	U	0.1	0.1	--
Nickel	9.6	6.9	5.2 B	3	13 or SB	41000
Potassium	577 B	419 B	506 B	320	SB	--
Selenium	U	U	U	5	2 or SB	10000
Silver	U	U	U	8	SB	10000
Sodium	U	U	U	155	SB	--
Thallium	U	U	U	5	SB	140
Vanadium	11.3	8.6	9.6	3	150 or SB	14000
Zinc	20.5	98.4	17.5	2	20 or SB	610000
Cyanide	0.11 B	0.13 B	U	2	---	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

SB: Site background.

Concentration exceeds Recommended Soil Cleanup Objective.

Concentration exceeds USEPA Region III Risk-Based Concentration for Industrial Land Use.

*: Average background levels for lead in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

TABLE B-7
ASBESTOS SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-SS-1	G-P-1	G-P-1	G-P-2	G-P-4	G-P-4
SAMPLE DEPTH (FT)	0-0.5	0-0.5	5-7	3-4	0-0.5	4-6
SAMPLE TYPE	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Subsurface Soil
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/13/00	4/13/00	4/13/00
Asbestos	0.04% Chrysotile	1.55% Chrysotile	1.01% Chrysotile	1.11% Chrysotile	3.54% Chrysotile	0.73% Chrysotile

NOTES:

All analyses conducted utilizing polarized light microscopy and transmission electron microscopy.

Exceeds 1% asbestos.

TABLE B-8
GROUNDWATER SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1- GW	G-P-2- GW	G-P-3- GW	G-P-4- GW	G-P-5- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/13/00	4/13/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
<i>Volatile Organics</i>							
Chloromethane	U	U	U	U	U	10	---
Bromomethane	U	U	U	U	U	10	5
Vinyl chloride	U	U	10	U	U	10	2
Chloroethane	U	U	U	U	U	10	5
Methylene chloride	U	U	U	U	U	10	5
Acetone	U	U	U	U	U	10	50
Carbon disulfide	U	U	U	U	U	10	---
1,1-Dichloroethene	U	U	3 J	U	U	10	5
1,1-Dichloroethane	U	U	7 J	U	U	10	5
1,2-Dichloroethene (total)	U	U	51	U	1 J	10	5
Chloroform	U	U	U	U	U	10	7
1,2-Dichloroethane	U	U	U	U	U	10	0.6
2-Butanone	U	U	U	U	U	10	50 GV
1,1,1-Trichloroethane	U	U	U	U	U	10	5
Carbon tetrachloride	U	U	U	U	U	10	5
Bromochloromethane	U	U	U	U	U	10	5
2,2-Dichloropropane	U	U	U	U	U	10	5
cis-1,3-Dichloropropene	U	U	U	U	U	10	0.4
Trichloroethene	U	U	36	U	U	10	5
Dibromochloromethane	U	U	U	U	U	10	50 GV
1,1,2-Trichloroethane	U	U	U	U	U	10	1
Benzene	U	U	U	U	U	10	1
trans-1,3-Dichloropropene	U	U	U	U	U	10	0.4
Bromoform	U	U	U	U	U	10	50 GV
4-Methyl-2-pentanone	U	U	U	U	U	10	---
2-Hexanone	U	U	U	U	U	10	50 GV
Tetrachloroethene	U	U	U	U	U	10	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	10	5
Toluene	U	U	U	U	U	10	5
Chlorobenzene	U	U	U	U	U	10	5
Ethylbenzene	U	U	U	U	U	10	5
Styrene	U	U	U	U	U	10	5
Xylene (total)	U	U	U	U	U	10	5
Total VOCs	U	U	107	U	1		

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

GV: Guidance value.

Concentration exceeds Groundwater Standard or Guidance Value.

TABLE B-8
GROUNDWATER SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1- GW	G-P-2- GW	G-P-3- GW	G-P-4- GW	G-P-5- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/13/00	4/13/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
<i>Semi-volatile Organics</i>							
Phenol	U	U	U	U	U	330	1
bis (2-Chloroethyl) Ether	U	U	U	U	U	330	1
2-Chlorophenol	U	U	U	U	U	330	--
1,3-Dichlorobenzene	U	U	U	U	U	330	3
1,4-Dichlorobenzene	U	U	U	U	U	330	3
1,2-Dichlorobenzene	U	U	U	U	U	330	3
2-Methylphenol	U	U	U	U	U	330	1
2,2'-oxybis (1-Chloropropane)	U	U	U	U	U	330	--
4-Methylphenol	U	U	U	U	U	330	1
N-Nitroso-di-n-propylamine	U	U	U	U	U	330	--
Hexachloroethane	U	U	U	U	U	330	5
Nitrobenzene	U	U	U	U	U	330	0.4
Isophorone	U	U	U	U	U	330	50 GV
2-Nitrophenol	U	U	U	U	U	330	1
2,4-Dimethylphenol	U	U	U	U	U	330	50 GV
2,4-Dichlorophenol	U	U	U	U	U	330	5
1,2,4-Trichlorobenzene	U	U	U	U	U	330	5
Naphthalene	U	U	U	U	U	330	10 GV
4-Chloroaniline	U	U	U	U	U	330	5
bis (2-Chloroethoxy)methane	U	U	U	U	U	330	5
Hexachlorobutadiene	U	U	U	U	U	330	0.5
4-Chloro-3-Methylphenol	U	U	U	U	U	330	--
2-Methylnaphthalene	U	U	U	U	U	330	--
Hexachlorocyclopentadiene	U	U	U	U	U	330	5
2,4,6-Trichlorophenol	U	U	U	U	U	330	1
2,4,5-Trichlorophenol	U	U	U	U	U	825	1
2-Chloronaphthalene	U	U	U	U	U	330	10 GV
2-Nitroaniline	U	U	U	U	U	825	5
Dimethylphthalate	U	U	U	U	U	330	50 GV
Acenaphthylene	U	U	U	U	U	330	--
2,6-Dinitrotoluene	U	U	U	U	U	330	5
3-Nitroaniline	U	U	U	U	U	825	5
Acenaphthene	U	U	U	U	U	330	20 GV
2,4-Dinitrophenol	U	U	U	U	U	825	10 GV
4-Nitrophenol	U	U	U	U	U	825	1
Dibenzofuran	U	U	U	U	U	330	--
2,4-Dinitrotoluene	U	U	U	U	U	330	5
Diethylphthalate	U	U	U	U	U	330	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	330	--
Fluorene	U	U	U	U	U	330	50 GV
4-Nitroaniline	U	U	U	U	U	825	5
4,6-Dinitro-2-methylphenol	U	U	U	U	U	330	--
N-Nitrosodiphenylamine	U	U	U	U	U	330	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	330	--

TABLE B-8
GROUNDWATER SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1- GW	G-P-2- GW	G-P-3- GW	G-P-4- GW	G-P-5- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/13/00	4/13/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
<i>Semi-volatile Organics (cont.)</i>							
Hexachlorobenzene	U	U	U	U	U	330	0.04
Pentachlorophenol	U	U	U	U	U	825	1
Phenanthrene	U	U	U	U	U	330	50 GV
Anthracene	U	U	U	U	U	330	50 GV
Carbazole	U	U	U	U	U	330	--
Di-n-butylphthalate	U	U	U	U	U	330	50
Fluoranthene	U	U	U	U	U	330	50 GV
Pyrene	U	U	U	U	U	330	50 GV
Butylbenzylphthalate	U	U	U	U	U	330	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	1 J	330	5
Benzo(a)anthracene	U	U	U	U	U	330	0.002 GV
Chrysene	U	U	U	U	U	330	0.002 GV
bis (2-Ethylhexyl) phthalate	2 J	U	U	U	2 J	330	5
Di-n-octylphthalate	U	U	U	U	U	330	50 GV
Benzo(b)fluoranthene	U	U	U	U	U	330	0.002 GV
Benzo(k)fluoranthene	U	U	U	U	U	330	0.002 GV
Benzo(a)pyrene	U	U	U	U	U	330	ND
Indeno (1,2,3-cd)pyrene	U	U	U	U	U	330	0.002 GV
Dibenzo(a,h)anthracene	U	U	U	U	U	330	--
Benzo (g,h,i)perylene	U	U	U	U	U	330	--
Total carcinogenic SVOCs	U	U	U	U	U		
Total SVOCs	2	U	U	U	3		

NOTES:

U: Compound analyzed for but not detected.

J: Estimated concentration.

GV: Guidance value.

ND: Non-detectable concentration.

Concentration exceeds Groundwater Standard or Guidance Value.

TABLE B-8
GROUNDWATER SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1- GW	G-P-2- GW	G-P-3- GW	G-P-4- GW	G-P-5- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/13/00	4/13/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Pesticides/PCBs							
alpha-BHC	U	U	U	U	U	0.05	--
beta-BHC	U	U	U	U	U	0.05	--
delta-BHC	U	U	U	U	U	0.05	--
Gamma-BHC	U	U	U	U	U	0.05	--
Heptachlor	U	U	U	U	U	0.05	0.04
Aldrin	U	U	U	U	U	0.05	--
Heptachlor epoxide	U	U	U	U	U	0.05	0.03
Endosulfan I	U	U	U	U	U	0.05	--
Dieldrin	U	U	U	U	U	0.10	0.004
4,4'-DDE	U	U	U	U	U	0.05	0.2
Endrin	U	U	U	U	U	0.05	ND
Endosulfan II	U	U	U	U	U	0.05	--
4,4'-DDD	U	U	U	U	U	0.05	0.3
Endosulfan sulfate	U	U	U	U	U	0.05	--
4,4'-DDT	U	U	U	U	U	0.05	0.2
Methoxychlor	U	U	U	U	U	0.50	35
Endrin ketone	U	U	U	U	U	0.10	5
Endrin aldehyde	U	U	U	U	U	0.10	5
alpha-Chlordane	U	U	U	U	U	0.05	0.05
gamma-Chlordane	U	U	U	U	U	0.05	0.05
Toxaphene	U	U	U	U	U	5.0	0.06
Total Pesticides	U	U	U	U	U		
Aroclor-1016	U	U	U	U	U	1.0	0.09
Aroclor-1221	U	U	U	U	U	2.0	0.09
Aroclor-1232	U	U	U	U	U	1.0	0.09
Aroclor-1242	U	U	U	U	U	1.0	0.09
Aroclor-1248	U	U	U	U	U	1.0	0.09
Aroclor-1254	U	U	U	U	U	1.0	0.09
Aroclor-1260	U	U	U	U	U	1.0	0.09
Total PCBs	U	U	U	U	U		0.09

NOTES:

U: Compound analyzed for but not detected.

ND: Non-detectable concentration.

TABLE B-8
GROUNDWATER SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-1- GW	G-P-1- GW	G-P-2- GW	G-P-2- GW	G-P-3- GW	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
	Total	Dissolved	Total	Dissolved	Total		
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/12/00	4/12/00	4/12/00	4/12/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Metals							
Aluminum	9110	9.8 B	28900	15 B	91000	9	--
Antimony	U	U	U	U	U	3	3
Arsenic	8 B	5 B	14.9	U	40.5	3	25
Barium	42.5 B	14.3 B	105 B	U	964	10	1000
Beryllium	0.59 B	U	2.4 B	U	7.5	0.3	3 GV
Cadmium	0.92	U	1.7 B	U	10.1	0.3	5
Calcium	110000	92500	110000	89200	114000	317	--
Chromium	43	U	168	U	346	2	50
Cobalt	18.8 B	4.9 B	25.1 B	U	1370	3	--
Copper	66.2	4.5 B	51.5	U	530	2	200
Iron	24200	1080	82900	5380	266000	2	300
Lead	90.4	U	53	U	159	2	25
Magnesium	42200	40200	36800	23500	28400	3	35000 GV
Manganese	461	348	1820	935	41700	4	300
Mercury	U	U	U	U	0.91	0.1	0.7
Nickel	33.2 B	4.6 B	79.5	3.2 B	300	3	100
Potassium	20500	19500	15100	7220	14700	320	--
Selenium	8.8	6.6	9.9	U	21.8	5	10
Silver	U	U	U	U	12.9	8	50
Sodium	300000	307000	43500	25500	66600	155	20000
Thallium	U	U	U	U	35.8	5	0.5 GV
Vanadium	24.5 B	U	119	U	197	3	--
Zinc	138	13.6 B	405	19.2 B	891	2	2000 GV
Cyanide	2.7 B	NA	3.9 B	NA	51.5	2	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

GV: Guidance value.

NA: Not analyzed.

Concentration exceeds Groundwater Standard or Guidance Value.

TABLE B-8
GROUNDWATER SAMPLE RESULTS
GLADSKY MARINE, GLEN COVE, NEW YORK

SAMPLE ID	G-P-3- GW Dissolved	G-P-4- GW Total	G-P-4- GW Dissolved	G-P-5- GW Total	G-P-5- GW Dissolved	Contract Required Detection Limit (ug/L)	Class GA Groundwater Standards and Guidance Values (ug/L)
DILUTION FACTOR	1	1	1	1	1		
DATE OF COLLECTION	4/13/00	4/13/00	4/13/00	4/13/00	4/13/00		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
Metals							
Aluminum	54 B	3900	9.8 B	398000	12 B	9	--
Antimony	3.5 B	U	4.4 B	28.1 B	5 B	3	3
Arsenic	U	U	U	23.8	U	3	25
Barium	49.1 B	86.3 B	55.1 B	2720	62.5 B	10	1000
Beryllium	U	U	U	29.3	U	0.3	3 GV
Cadmium	0.69 B	U	U	27.2	U	0.3	5
Calcium	104000	215000	214000	73200	35400	317	--
Chromium	12.3	24.4	2.1 B	731	U	2	50
Cobalt	257	U	U	360	U	3	--
Copper	4.7 B	6.4 B	2.7 B	495	U	2	200
Iron	32.5 B	5250	2610	1230000	3360	2	300
Lead	4.1	5.1	U	391	2.1 B	2	25
Magnesium	16600	49000	47500	99700	24800	3	35000 GV
Manganese	16500	2480	2520	5350	577	4	300
Mercury	U	U	U	U	U	0.1	0.7
Nickel	34.1 B	12.7 B	U	649	4.9 B	3	100
Potassium	5530	15400	16100	83300	14900	320	--
Selenium	U	U	U	27.1	U	5	10
Silver	U	U	U	U	U	8	50
Sodium	66700	405000	417000	125000	137000	155	20000
Thallium	16.2	U	U	U	U	5	0.5 GV
Vanadium	U	8.2 B	3.6 B	965	U	3	--
Zinc	116	9.2 B	6 B	1700	10.8 B	2	2000 GV
Cyanide	NA	U	NA	2.3 B	NA	2	--

NOTES:

U: Compound analyzed for but not detected.

B: Concentration is between instrument detection limit and contract required detection limit.

GV: Guidance value.

NA: Not analyzed.

Concentration exceeds Groundwater Standard or Guidance Value.

APPENDIX C

LABORATORY DATA SHEETS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS1

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: V6A3209

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 12

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	11	U
67-64-1-----	Acetone	12	B
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (Total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	4	JB
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (Total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS1

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: V6A3209

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 12

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3265

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 41

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
74-87-3	-----Chloromethane	17	U	
74-83-9	-----Bromomethane	17	U	
75-01-4	-----Vinyl Chloride	17	U	
75-00-3	-----Chloroethane	17	U	
75-09-2	-----Methylene Chloride	13	JB	
67-64-1	-----Acetone	8	JB	
75-15-0	-----Carbon Disulfide	17	U	
75-35-4	-----1,1-Dichloroethene	17	U	
75-34-3	-----1,1-Dichloroethane	17	U	
540-59-0	-----1,2-Dichloroethene (Total)	17	U	
67-66-3	-----Chloroform	17	U	
107-06-2	-----1,2-Dichloroethane	17	U	
78-93-3	-----2-Butanone	17	U	
71-55-6	-----1,1,1-Trichloroethane	17	U	
56-23-5	-----Carbon Tetrachloride	17	U	
75-27-4	-----Bromodichloromethane	17	U	
78-87-5	-----1,2-Dichloropropane	17	U	
10061-01-5	-----cis-1,3-Dichloropropene	17	U	
79-01-6	-----Trichloroethene	17	U	
124-48-1	-----Dibromochloromethane	17	U	
79-00-5	-----1,1,2-Trichloroethane	17	U	
71-43-2	-----Benzene	3	J	
10061-02-6	-----trans-1,3-Dichloropropene	17	U	
75-25-2	-----Bromoform	17	U	
108-10-1	-----4-Methyl-2-Pentanone	17	U	
591-78-6	-----2-Hexanone	17	U	
127-18-4	-----Tetrachloroethene	2	J	
79-34-5	-----1,1,2,2-Tetrachloroethane	17	U	
108-88-3	-----Toluene	30		
108-90-7	-----Chlorobenzene	17	U	
100-41-4	-----Ethylbenzene	12	J	
100-42-5	-----Styrene	17	U	
1330-20-7	-----Xylene (Total)	74		

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 7

ACSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3265

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 41

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1634-04-4	PROPANE, 2-METHOXY-2-METHYL-	5.65	120	NJ
2.	UNKNOWN ALKANE	13.37	330	J
3.	UNKNOWN ALKANE	13.61	100	J
4. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	13.79	85	NJ
5.	UNKNOWN ALKANE	13.91	150	J
6. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.14	100	NJ
7.	UNKNOWN ALKANE	14.25	340	J
8.	UNKNOWN ALKANE	14.40	110	J
9.	UNKNOWN ALKANE	14.56	420	J
10.	UNKNOWN ALKANE	14.72	80	J
11.	UNKNOWN ALKANE	14.84	890	J
12.	UNKNOWN ALKANE	15.06	470	J
13.	UNKNOWN ALKANE	15.17	64	J
14.	UNKNOWN	15.27	150	J
15.	UNKNOWN ALKANE	15.33	110	J
16.	UNKNOWN	15.43	180	J
17. 2870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHY	15.55	190	NJ
18. 6004-38-2	4,7-METHANO-1H-INDENE, OCTAH	15.79	290	NJ
19.	UNKNOWN	15.90	64	J
20. 110-06-5	DI-TERT-BUTYL DISULFIDE	16.11	3300	NJ
21.	UNKNOWN	16.22	90	J
22.	UNKNOWN	16.31	82	J
23. 110-06-5	DI-TERT-BUTYL DISULFIDE	16.46	420	NJ
24.	UNKNOWN	16.60	97	J
25.	UNKNOWN	16.72	320	J
26. 54120-62-6	BENZENE, ETHYL-1,2,4-TRIMETH	16.90	270	NJ
27.	UNKNOWN	17.04	180	J
28.	UNKNOWN	17.48	88	J
29.	UNKNOWN	17.60	67	J
30.	UNKNOWN	18.13	4700	J

FORM I VOA-TIC

00028

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS2RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007RE

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: V6A3293

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 41

Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3-----	Chloromethane	17	U
74-83-9-----	Bromomethane	17	U
75-01-4-----	Vinyl Chloride	17	U
75-00-3-----	Chloroethane	17	U
75-09-2-----	Methylene Chloride	12	JB
67-64-1-----	Acetone	14	JB
75-15-0-----	Carbon Disulfide	17	U
75-35-4-----	1,1-Dichloroethene	17	U
75-34-3-----	1,1-Dichloroethane	17	U
540-59-0-----	1,2-Dichloroethene (Total)	17	U
67-66-3-----	Chloroform	17	U
107-06-2-----	1,2-Dichloroethane	17	U
78-93-3-----	2-Butanone	17	U
71-55-6-----	1,1,1-Trichloroethane	17	U
56-23-5-----	Carbon Tetrachloride	17	U
75-27-4-----	Bromodichloromethane	17	U
78-87-5-----	1,2-Dichloropropane	17	U
10061-01-5-----	cis-1,3-Dichloropropene	17	U
79-01-6-----	Trichloroethene	17	U
124-48-1-----	Dibromochloromethane	17	U
79-00-5-----	1,1,2-Trichloroethane	17	U
71-43-2-----	Benzene	5	J
10061-02-6-----	trans-1,3-Dichloropropene	17	U
75-25-2-----	Bromoform	17	U
108-10-1-----	4-Methyl-2-Pentanone	17	U
591-78-6-----	2-Hexanone	17	U
127-18-4-----	Tetrachloroethene	3	J
79-34-5-----	1,1,2,2-Tetrachloroethane	17	U
108-88-3-----	Toluene	89	
108-90-7-----	Chlorobenzene	17	U
100-41-4-----	Ethylbenzene	9	J
100-42-5-----	Styrene	17	U
1330-20-7-----	Xylene (Total)	69	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS2RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007RE

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: V6A3293

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 41

Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	13.37	350	J
2.	UNKNOWN ALKANE	13.61	150	J
3.	UNKNOWN ALKANE	13.91	130	J
4.	UNKNOWN	14.14	110	J
5.	UNKNOWN ALKANE	14.25	380	J
6.	UNKNOWN ALKANE	14.40	140	J
7.	UNKNOWN ALKANE	14.56	520	J
8.	UNKNOWN ALKANE	14.72	72	J
9.	UNKNOWN ALKANE	14.83	1100	J
10.	UNKNOWN ALKANE	15.07	550	J
11.	UNKNOWN ~~ALKANE~~ <i>alkane 571560</i>	15.27	150	J
12.	UNKNOWN <i>Alkane</i>	15.33	120	J
13.	UNKNOWN	15.43	190	J
14.	874-41-9 BENZENE, 1-ETHYL-2,4-DIMETHY	15.55	270	NJ
15.	UNKNOWN	15.65	93	J
16.	6004-38-2 4,7-METHANO-1H-INDENE, OCTAH	15.79	370	NJ
17.	UNKNOWN	15.89	90	J
18.	110-06-5 DI-TERT-BUTYL DISULFIDE	16.11	4000	NJ
19.	UNKNOWN	16.23	120	J
20.	UNKNOWN	16.31	240	J
21.	110-06-5 DI-TERT-BUTYL DISULFIDE	16.46	560	NJ
22.	2049-95-8 BENZENE, (1,1-DIMETHYLPROPYL	16.60	140	NJ
23.	UNKNOWN	16.72	420	J
24.	17851-27-3 BENZENE, 1-ETHYL-2,4,5-TRIME	16.90	410	NJ
25.	UNKNOWN	17.04	250	J
26.	UNKNOWN	17.23	160	J
27.	UNKNOWN	17.48	120	J
28.	UNKNOWN	17.60	100	J
29.	UNKNOWN	17.80	130	J
30.	UNKNOWN	18.13	7000	J

FORM I VOA-TIC

00030

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564004

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: V6A3208

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 25

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	18	B
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (Total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (Total)	13	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564004

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: V6A3208

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 25

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS1

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5203

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 12

decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	370	U
111-44-4-----	bis(-2-Chloroethyl) Ether	370	U
95-57-8-----	2-Chlorophenol	370	U
541-73-1-----	1,3-Dichlorobenzene	370	U
106-46-7-----	1,4-Dichlorobenzene	370	U
95-50-1-----	1,2-Dichlorobenzene	370	U
95-48-7-----	2-Methylphenol	370	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5-----	4-Methylphenol	370	U
621-64-7-----	N-Nitroso-di-n-propylamine	370	U
67-72-1-----	Hexachloroethane	370	U
98-95-3-----	Nitrobenzene	370	U
78-59-1-----	Isophorone	370	U
88-75-5-----	2-Nitrophenol	370	U
105-67-9-----	2,4-Dimethylphenol	370	U
120-83-2-----	2,4-Dichlorophenol	370	U
120-82-1-----	1,2,4-Trichlorobenzene	370	U
91-20-3-----	Naphthalene	370	U
106-47-8-----	4-Chloroaniline	370	U
111-91-1-----	bis(2-Chloroethoxy) methane	370	U
87-68-3-----	Hexachlorobutadiene	370	U
59-50-7-----	4-Chloro-3-methylphenol	370	U
91-57-6-----	2-Methylnaphthalene	370	U
77-47-4-----	Hexachlorocyclopentadiene	370	U
88-06-2-----	2,4,6-Trichlorophenol	370	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	370	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	370	U
208-96-8-----	Acenaphthylene	370	U
606-20-2-----	2,6-Dinitrotoluene	370	U
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. X

ACSS1

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70564

Matrix: (soil/water) SOIL Lab Sample ID: 70564005

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S1B5203

Level: (low/med) LOW Date Received: 04/13/00

% Moisture: 12 decanted: (Y/N) N Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/02/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	930	U
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	930	U
534-52-1	4,6-Dinitro-2-methylphenol	930	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	930	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	52	J
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	210	JB
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS1

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5203

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

CONCENTRATION UNITS:

Number TICs found: 29

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.81	18000	ANJB
2.	UNKNOWN	4.90	680	JB
3.	UNKNOWN	5.95	1600	AJB
4.	UNKNOWN	15.31	280	J
5. 629-78-7	HEPTADECANE	15.39	880	J
6. 593-45-3	OCTADECANE	16.30	380	J
7. 629-62-9	PENTADECANE	16.67	280	NJ
8.	UNKNOWN	16.96	280	J
9.	UNKNOWN	17.08	290	J
10. 112-95-8	EICOSANE	17.18	430	J
11.	UNKNOWN	17.27	240	J
12.	UNKNOWN	17.67	1200	J
13. 6418-43-5	HEXADECANE, 3-METHYL-	17.78	280	NJ
14. 6006-33-3	N-TRIDECYLCYCLOHEXANE	17.85	420	J
15. 112-95-8	EICOSANE	18.02	1400	J
16.	UNKNOWN ALKANE	18.32	1700	J
17.	UNKNOWN	18.53	270	J
18. 55045-07-3	DODECANE, 2-METHYL-8-PROPYL-	18.61	950	NJ
19.	UNKNOWN	18.69	510	J
20. 55045-08-4	DODECANE, 2-METHYL-6-PROPYL-	18.82	1400	J
21.	UNKNOWN	19.11	3600	J
22. 6006-95-7	N-PENTADECYLCYCLOHEXANE	19.49	1500	J
23. 629-94-7	HENEICOSANE	19.82	3200	J
24.	UNKNOWN	20.01	3500	J
25.	UNKNOWN	20.26	1600	J
26. 629-78-7	HEPTADECANE	20.40	2600	J
27. 629-97-0	DOCOSANE	20.57	7800	NJ
28.	UNKNOWN	21.26	3800	J
29. 629-78-7	HEPTADECANE	23.16	2500	JB
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS1RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005RE

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5249

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG Q
108-95-2	Phenol	370	U
111-44-4	bis(-2-Chloroethyl) Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	65	J
106-47-8	4-Chloroaniline	370	U
111-91-1	bis(2-Chloroethoxy) methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	930	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	930	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	930	U
83-32-9	Acenaphthene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS1RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005RE

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5249

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	930 U
100-02-7-----	4-Nitrophenol	930 U
132-64-9-----	Dibenzofuran	370 U
121-14-2-----	2,4-Dinitrotoluene	370 U
84-66-2-----	Diethylphthalate	370 U
7005-72-3-----	4-Chlorophenyl-phenylether	370 U
86-73-7-----	Fluorene	370 U
100-01-6-----	4-Nitroaniline	930 U
534-52-1-----	4,6-Dinitro-2-methylphenol	930 U
86-30-6-----	N-Nitrosodiphenylamine (1)	370 U
101-55-3-----	4-Bromophenyl-phenylether	370 U
118-74-1-----	Hexachlorobenzene	370 U
87-86-5-----	Pentachlorophenol	930 U
85-01-8-----	Phenanthrene	370 U
120-12-7-----	Anthracene	370 U
86-74-8-----	Carbazole	370 U
84-74-2-----	Di-n-butylphthalate	370 U
206-44-0-----	Fluoranthene	370 U
129-00-0-----	Pyrene	79 J
85-68-7-----	Butylbenzylphthalate	370 U
91-94-1-----	3,3'-Dichlorobenzidine	370 U
56-55-3-----	Benzo(a)anthracene	370 U
218-01-9-----	Chrysene	370 U
117-81-7-----	bis(2-Ethylhexyl)phthalate	220 JB
117-84-0-----	Di-n-octylphthalate	370 U
205-99-2-----	Benzo(b)fluoranthene	370 U
207-08-9-----	Benzo(k)fluoranthene	370 U
50-32-8-----	Benzo(a)pyrene	370 U
193-39-5-----	Indeno(1,2,3-cd)pyrene	370 U
53-70-3-----	Dibenzo(a,h)anthracene	370 U
191-24-2-----	Benzo(g,h,i)perylene	370 U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS1RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005RE

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5249

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALDOL CONDENSATE	4.28	4100	AJ
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.72	16000	ANJB
3.	UNKNOWN	4.78	590	JB
4.	UNKNOWN	5.82	1500	AJB
5.	UNKNOWN	7.52	410	JB
6.	UNKNOWN	7.72	460	JB
7.	UNKNOWN	8.13	250	J
8.	UNKNOWN	12.82	150	J
9. 143-10-2	1-DECANETHIOL	13.03	130	J
10.	UNKNOWN	13.78	140	J
11. 544-76-3	HEXADECANE	14.28	160	NJ
12.	UNKNOWN	14.72	240	J
13.	UNKNOWN	14.91	140	J
14. 294-62-2	CYCLODODECANE	15.17	380	NJ
15. 629-78-7	HEPTADECANE	15.24	620	J
16. 593-45-3	OCTADECANE	16.17	370	NJ
17.	UNKNOWN	16.53	260	J
18.	UNKNOWN	16.72	260	J
19. 593-45-3	OCTADECANE	16.95	220	NJ
20. 629-92-5	NONADECANE	17.05	380	J
21. 7098-21-7	TRITETRACONTANE	17.13	250	J
22.	UNKNOWN	17.38	880	J
23. 112-95-8	EICOSANE	17.65	210	J
24.	UNKNOWN ALKANE	17.70	570	J
25. 112-95-8	EICOSANE	17.89	1300	J
26. 593-45-3	OCTADECANE	18.41	160	J
27. 54833-23-7	EICOSANE, 10-METHYL-	18.48	600	J
28.	UNKNOWN	18.56	420	J
29.	UNKNOWN	18.91	1700	J
30.	UNKNOWN	19.38	3500	J

FORM I SV-TIC

00076

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: S1B5196

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	1100	U
111-44-4-----	bis(-2-Chloroethyl) Ether	1100	U
95-57-8-----	2-Chlorophenol	1100	U
541-73-1-----	1,3-Dichlorobenzene	1100	U
106-46-7-----	1,4-Dichlorobenzene	1100	U
95-50-1-----	1,2-Dichlorobenzene	1100	U
95-48-7-----	2-Methylphenol	1100	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	1100	U
106-44-5-----	4-Methylphenol	1100	U
621-64-7-----	N-Nitroso-di-n-propylamine	1100	U
67-72-1-----	Hexachloroethane	1100	U
98-95-3-----	Nitrobenzene	1100	U
78-59-1-----	Isophorone	1100	U
88-75-5-----	2-Nitrophenol	1100	U
105-67-9-----	2,4-Dimethylphenol	1100	U
120-83-2-----	2,4-Dichlorophenol	1100	U
120-82-1-----	1,2,4-Trichlorobenzene	1100	U
91-20-3-----	Naphthalene	2200	
106-47-8-----	4-Chloroaniline	1100	U
111-91-1-----	bis(2-Chloroethoxy) methane	1100	U
87-68-3-----	Hexachlorobutadiene	1100	U
59-50-7-----	4-Chloro-3-methylphenol	1100	U
91-57-6-----	2-Methylnaphthalene	1500	
77-47-4-----	Hexachlorocyclopentadiene	1100	U
88-06-2-----	2,4,6-Trichlorophenol	1100	U
95-95-4-----	2,4,5-Trichlorophenol	2800	U
91-58-7-----	2-Chloronaphthalene	1100	U
88-74-4-----	2-Nitroaniline	2800	U
131-11-3-----	Dimethylphthalate	1100	U
208-96-8-----	Acenaphthylene	1100	U
606-20-2-----	2,6-Dinitrotoluene	1100	U
99-09-2-----	3-Nitroaniline	2800	U
83-32-9-----	Acenaphthene	1100	U

FORM I SV-1

00077

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: S1B5196

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

51-28-5-----	2,4-Dinitrophenol	2800	U
100-02-7-----	4-Nitrophenol	2800	U
132-64-9-----	Dibenzofuran	1100	U
121-14-2-----	2,4-Dinitrotoluene	1100	U
84-66-2-----	Diethylphthalate	1100	U
7005-72-3-----	4-Chlorophenyl-phenylether	1100	U
86-73-7-----	Fluorene	1100	U
100-01-6-----	4-Nitroaniline	2800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1100	U
101-55-3-----	4-Bromophenyl-phenylether	1100	U
118-74-1-----	Hexachlorobenzene	1100	U
87-86-5-----	Pentachlorophenol	2800	U
85-01-8-----	Phenanthrene	1100	U
120-12-7-----	Anthracene	1100	U
86-74-8-----	Carbazole	1100	U
84-74-2-----	Di-n-butylphthalate	1100	U
206-44-0-----	Fluoranthene	1100	U
129-00-0-----	Pyrene	120	J
85-68-7-----	Butylbenzylphthalate	1100	U
91-94-1-----	3,3'-Dichlorobenzidine	1100	U
56-55-3-----	Benzo(a)anthracene	1100	U
218-01-9-----	Chrysene	1100	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	12000	EB
117-84-0-----	Di-n-octylphthalate	1100	U
205-99-2-----	Benzo(b)fluoranthene	1100	U
207-08-9-----	Benzo(k)fluoranthene	1100	U
50-32-8-----	Benzo(a)pyrene	1100	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	1100	U
53-70-3-----	Dibenzo(a,h)anthracene	1100	U
191-24-2-----	Benzo(g,h,i)perylene	1100	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: S1B5196

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:

Number TICs found: 30

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.75	8400	AJB
2.	UNKNOWN	5.20	5900	JB
3.	UNKNOWN	5.63	4400	JB
4. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	6.69	9600	NJ
5. 95-36-3	1,2,4-TRIMETHYLBENZENE	7.20	9300	JB
6. 1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	8.01	5300	JB
7. 135-01-3	BENZENE, 1,2-DIETHYL-	8.09	4900	J
8. 110-06-5	DI-TERT-BUTYL DISULFIDE	9.04	9200	J
9.	UNKNOWN	9.67	9200	J
10.	UNKNOWN	11.33	36000	J
11.	UNKNOWN	12.22	4000	J
12. 629-92-5	NONADECANE	17.18	2700	J
13. 4292-92-6	CYCLOHEXANE, PENTYL-	17.85	4100	J
14. 112-95-8	EICOSANE	18.02	2900	J
15.	UNKNOWN	18.13	5200	J
16.	UNKNOWN	18.33	11000	J
17.	UNKNOWN	18.60	5900	J
18. 1795-15-9	CYCLOHEXANE, OCTYL-	18.69	6700	J
19. 544-76-3	HEXADECANE	18.82	3200	J
20.	UNKNOWN	18.91	11000	J
21.	UNKNOWN	19.11	18000	J
22. 6006-95-7	N-PENTADECYLCYCLOHEXANE	19.49	4500	J
23. 629-59-4	TETRADECANE	19.86	6500	J
24.	UNKNOWN	20.01	5800	J
25. 55045-14-2	TETRADECANE, 4-ETHYL-	20.57	55000	J
26.	UNKNOWN	21.26	72000	J
27. 629-94-7	HENEICOSANE	23.16	78000	JB
28. 629-78-7	HEPTADECANE	23.76	170000	JB
29.	UNKNOWN	25.56	45000	J
30. 36728-72-0	28-NOR-17.BETA. (H) -HOPANE	26.23	110000	J

FORM I SV-TIC

00079

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS2DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007DL

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: S1B5385

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	2200	U
111-44-4-----	bis(-2-Chloroethyl) Ether	2200	U
95-57-8-----	2-Chlorophenol	2200	U
541-73-1-----	1,3-Dichlorobenzene	2200	U
106-46-7-----	1,4-Dichlorobenzene	2200	U
95-50-1-----	1,2-Dichlorobenzene	2200	U
95-48-7-----	2-Methylphenol	2200	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	2200	U
106-44-5-----	4-Methylphenol	2200	U
621-64-7-----	N-Nitroso-di-n-propylamine	2200	U
67-72-1-----	Hexachloroethane	2200	U
98-95-3-----	Nitrobenzene	2200	U
78-59-1-----	Isophorone	2200	U
88-75-5-----	2-Nitrophenol	2200	U
105-67-9-----	2,4-Dimethylphenol	2200	U
120-83-2-----	2,4-Dichlorophenol	2200	U
120-82-1-----	1,2,4-Trichlorobenzene	2200	U
91-20-3-----	Naphthalene	2100	DJ
106-47-8-----	4-Chloroaniline	2200	U
111-91-1-----	bis(2-Chloroethoxy) methane	2200	U
87-68-3-----	Hexachlorobutadiene	2200	U
59-50-7-----	4-Chloro-3-methylphenol	2200	U
91-57-6-----	2-Methylnaphthalene	1900	DJ
77-47-4-----	Hexachlorocyclopentadiene	2200	U
88-06-2-----	2,4,6-Trichlorophenol	2200	U
95-95-4-----	2,4,5-Trichlorophenol	5600	U
91-58-7-----	2-Chloronaphthalene	2200	U
88-74-4-----	2-Nitroaniline	5600	U
131-11-3-----	Dimethylphthalate	2200	U
208-96-8-----	Acenaphthylene	2200	U
606-20-2-----	2,6-Dinitrotoluene	2200	U
99-09-2-----	3-Nitroaniline	5600	U
83-32-9-----	Acenaphthene	2200	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS2DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007DL

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: S1B5385

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

51-28-5-----	2,4-Dinitrophenol	5600	U
100-02-7-----	4-Nitrophenol	5600	U
132-64-9-----	Dibenzofuran	2200	U
121-14-2-----	2,4-Dinitrotoluene	2200	U
84-66-2-----	Diethylphthalate	2200	U
7005-72-3-----	4-Chlorophenyl-phenylether	2200	U
86-73-7-----	Fluorene	2200	U
100-01-6-----	4-Nitroaniline	5600	U
534-52-1-----	4,6-Dinitro-2-methylphenol	5600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	2200	U
101-55-3-----	4-Bromophenyl-phenylether	2200	U
118-74-1-----	Hexachlorobenzene	2200	U
87-86-5-----	Pentachlorophenol	5600	U
85-01-8-----	Phenanthrene	2200	U
120-12-7-----	Anthracene	2200	U
86-74-8-----	Carbazole	2200	U
84-74-2-----	Di-n-butylphthalate	2200	U
206-44-0-----	Fluoranthene	2200	U
129-00-0-----	Pyrene	160	DJ
85-68-7-----	Butylbenzylphthalate	2200	U
91-94-1-----	3,3'-Dichlorobenzidine	2200	U
56-55-3-----	Benzo(a)anthracene	2200	U
218-01-9-----	Chrysene	2200	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	13000	DB
117-84-0-----	Di-n-octylphthalate	2200	U
205-99-2-----	Benzo(b)fluoranthene	2200	U
207-08-9-----	Benzo(k)fluoranthene	2200	U
50-32-8-----	Benzo(a)pyrene	2200	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	2200	U
53-70-3-----	Dibenzo(a,h)anthracene	2200	U
191-24-2-----	Benzo(g,h,i)perylene	2200	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS2DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564007DL

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: S1B5385

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:

Number TICs found: 28

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.23	7500	NJBD
2.	UNKNOWN	4.64	12000	JBD
3. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	6.14	9900	JBD
4. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	6.64	9600	JBD
5. 1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	7.46	3800	JBD
6. 141-93-5	BENZENE, 1,3-DIETHYL-	7.54	5600	JBD
7. 2870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHY	7.81	4400	JBD
8. 527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL	8.42	2500	JD
9.	UNKNOWN	8.84	1800	JD
10.	UNKNOWN	9.11	7100	JD
11.	UNKNOWN	10.77	36000	JD
12. 89-74-7	ETHANONE, 1-(2,4-DIMETHYLPHE	10.91	1600	JD
13.	UNKNOWN	11.52	4400	JD
14.	UNKNOWN	11.64	5300	JD
15.	UNKNOWN	13.16	3000	JD
16.	UNKNOWN	13.66	8200	JD
17.	UNKNOWN	14.31	1300	JD
18. 629-78-7	HEPTADECANE	14.83	2000	NJD
19.	UNKNOWN	15.28	1200	JD
20. 629-92-5	NONADECANE	16.62	2800	NJD
21.	UNKNOWN	16.96	1400	JD
22.	UNKNOWN	17.27	5300	JD
23. 112-95-8	EICOSANE	17.46	8700	JD
24.	UNKNOWN	17.78	14000	JD
25. 1560-84-5	EICOSANE, 2-METHYL-	18.05	5800	JD
26. 1795-16-0	CYCLOHEXANE, DECYL-	18.12	9500	JD
27.	UNKNOWN	18.30	16000	JD
28. 112-95-8	EICOSANE	18.56	81000	JD
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. /

ACSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564004

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5204

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	440	U
111-44-4-----	bis(-2-Chloroethyl) Ether	440	U
95-57-8-----	2-Chlorophenol	440	U
541-73-1-----	1,3-Dichlorobenzene	440	U
106-46-7-----	1,4-Dichlorobenzene	440	U
95-50-1-----	1,2-Dichlorobenzene	440	U
95-48-7-----	2-Methylphenol	440	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5-----	4-Methylphenol	440	U
621-64-7-----	N-Nitroso-di-n-propylamine	440	U
67-72-1-----	Hexachloroethane	440	U
98-95-3-----	Nitrobenzene	440	U
78-59-1-----	Isophorone	440	U
88-75-5-----	2-Nitrophenol	440	U
105-67-9-----	2,4-Dimethyphenol	440	U
120-83-2-----	2,4-Dichlorophenol	440	U
120-82-1-----	1,2,4-Trichlorobenzene	440	U
91-20-3-----	Naphthalene	440	U
106-47-8-----	4-Chloroaniline	440	U
111-91-1-----	bis(2-Chloroethoxy) methane	440	U
87-68-3-----	Hexachlorobutadiene	440	U
59-50-7-----	4-Chloro-3-methylphenol	440	U
91-57-6-----	2-Methylnaphthalene	440	U
77-47-4-----	Hexachlorocyclopentadiene	440	U
88-06-2-----	2,4,6-Trichlorophenol	440	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	440	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	440	U
208-96-8-----	Acenaphthylene	440	U
606-20-2-----	2,6-Dinitrotoluene	440	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	440	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564004

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5204

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	1100 U
100-02-7-----	4-Nitrophenol	1100 U
132-64-9-----	Dibenzofuran	440 U
121-14-2-----	2,4-Dinitrotoluene	440 U
84-66-2-----	Diethylphthalate	440 U
7005-72-3-----	4-Chlorophenyl-phenylether	440 U
86-73-7-----	Fluorene	440 U
100-01-6-----	4-Nitroaniline	1100 U
534-52-1-----	4,6-Dinitro-2-methylphenol	1100 U
86-30-6-----	N-Nitrosodiphenylamine (1)	440 U
101-55-3-----	4-Bromophenyl-phenylether	440 U
118-74-1-----	Hexachlorobenzene	440 U
87-86-5-----	Pentachlorophenol	1100 U
85-01-8-----	Phenanthrene	360 J
120-12-7-----	Anthracene	45 J
86-74-8-----	Carbazole	440 U
84-74-2-----	Di-n-butylphthalate	60 J
206-44-0-----	Fluoranthene	680
129-00-0-----	Pyrene	870
85-68-7-----	Butylbenzylphthalate	240 J
91-94-1-----	3,3'-Dichlorobenzidine	440 U
56-55-3-----	Benzo(a)anthracene	340 J
218-01-9-----	Chrysene	480
117-81-7-----	bis(2-Ethylhexyl)phthalate	550 B
117-84-0-----	Di-n-octylphthalate	440 U
205-99-2-----	Benzo(b)fluoranthene	630
207-08-9-----	Benzo(k)fluoranthene	240 J
50-32-8-----	Benzo(a)pyrene	370 J
193-39-5-----	Indeno(1,2,3-cd)pyrene	320 J
53-70-3-----	Dibenzo(a,h)anthracene	110 J
191-24-2-----	Benzo(g,h,i)perylene	330 J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564004

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5204

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.82	19000	ANJB
2.	UNKNOWN	4.90	680	JB
3.	UNKNOWN	5.08	120	JB
4.	UNKNOWN	5.48	120	JB
5.	UNKNOWN	5.88	880	JB
6.	UNKNOWN	5.96	1800	AJ
7. 110-13-4	2,5-HEXANEDIONE	6.12	100	NJ
8.	UNKNOWN	6.23	340	JB
9.	UNKNOWN	6.63	170	JB
10.	UNKNOWN	6.68	270	JB
11.	UNKNOWN	7.03	200	JB
12.	UNKNOWN	7.34	210	JB
13.	UNKNOWN	7.61	91	JB
14. 85-44-9	PHTHALIC ANHYDRIDE	11.41	120	NJ
15.	UNKNOWN	11.83	140	J
16.	UNKNOWN	13.04	110	J
17. 57-10-3	HEXADECANOIC ACID	17.66	440	J
18. 80-05-7	PHENOL, 4,4'-(1-METHYLETHYL)	19.47	300	J
19. 593-45-3	OCTADECANE	22.96	1100	NJ
20. 56554-86-0	17-OCTADECENAL	23.80	1300	JB
21. 544-76-3	HEXADECANE	24.15	730	JB
22.				
23.				
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FORM I SV-TIC

00085

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70564
Matrix: (soil/water) SOIL Lab Sample ID: 70654005
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4A0853F
% Moisture: 12 decanted: (Y/N) N Date Received: 04/13/00
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/17/00
Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/05/00
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	13	
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	32	P
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	190	E
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	23	P
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	15	
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	330	P
11096-82-5	Aroclor-1260	38	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS1DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564005DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E4A0944F

% Moisture: 12 decanted: (Y/N) N

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/08/00

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	38	U
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	38	U
33213-65-9	Endosulfan II	38	U
72-54-8	4,4'-DDD	200	D
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	38	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	38	U
7421-93-4	Endrin aldehyde	38	U
5103-71-9	alpha-Chlordane	19	U
5103-74-2	gamma-Chlordane	21	D
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	450	DP
11096-82-5	Aroclor-1260	380	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70654007

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E4A0854F

% Moisture: 41 decanted: (Y/N) N

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/05/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	2.8	U
319-85-7-----	beta-BHC	42	P
319-86-8-----	delta-BHC	2.8	U
58-89-9-----	gamma-BHC (Lindane)	4.7	P
76-44-8-----	Heptachlor	22	P
309-00-2-----	Aldrin	2.8	U
1024-57-3-----	Heptachlor epoxide	2.8	U
959-98-8-----	Endosulfan I	2.8	U
60-57-1-----	Dieldrin	30	P
72-55-9-----	4,4'-DDE	5.5	U
72-20-8-----	Endrin	5.5	U
33213-65-9-----	Endosulfan II	5.5	U
72-54-8-----	4,4'-DDD	5.5	U
1031-07-8-----	Endosulfan sulfate	5.5	U
50-29-3-----	4,4'-DDT	21	P
72-43-5-----	Methoxychlor	28	U
53494-70-5-----	Endrin ketone	5.5	U
7421-93-4-----	Endrin aldehyde	5.5	U
5103-71-9-----	alpha-Chlordane	2.8	U
5103-74-2-----	gamma-Chlordane	2.8	U
8001-35-2-----	Toxaphene	280	U
12674-11-2-----	Aroclor-1016	55	U
11104-28-2-----	Aroclor-1221	110	U
11141-16-5-----	Aroclor-1232	55	U
53469-21-9-----	Aroclor-1242	55	U
12672-29-6-----	Aroclor-1248	55	U
11097-69-1-----	Aroclor-1254	55	U
11096-82-5-----	Aroclor-1260	55	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 6

ACSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70654004

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: E4A0850F

% Moisture: 25 decanted: (Y/N) N

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/05/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	2.2	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	2.2	U
76-44-8-----	Heptachlor	2.2	U
309-00-2-----	Aldrin	2.2	U
1024-57-3-----	Heptachlor epoxide	2.2	U
959-98-8-----	Endosulfan I	4.9	P
60-57-1-----	Dieldrin	4.3	U
72-55-9-----	4,4'-DDE	11	
72-20-8-----	Endrin	4.3	U
33213-65-9-----	Endosulfan II	4.3	U
72-54-8-----	4,4'-DDD	6.5	
1031-07-8-----	Endosulfan sulfate	4.3	U
50-29-3-----	4,4'-DDT	19	P
72-43-5-----	Methoxychlor	22	U
53494-70-5-----	Endrin ketone	4.3	U
7421-93-4-----	Endrin aldehyde	4.3	U
5103-71-9-----	alpha-Chlordane	24	P
5103-74-2-----	gamma-Chlordane	32	
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	43	U
11104-28-2-----	Aroclor-1221	87	U
11141-16-5-----	Aroclor-1232	43	U
53469-21-9-----	Aroclor-1242	43	U
12672-29-6-----	Aroclor-1248	43	U
11097-69-1-----	Aroclor-1254	250	P
11096-82-5-----	Aroclor-1260	43	U

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

ACSS1

Lab Name: MITKEM_CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564

Matrix (soil/water): SOIL Lab Sample ID: 70564005

Level (low/med): MED Date Received: 04/13/00

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2830			P
7440-36-0	Antimony	1.7	B	N	P
7440-38-2	Arsenic	9.5			P
7440-39-3	Barium	30.1	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.98	B		P
7440-70-2	Calcium	14000			P
7440-47-3	Chromium	11.4			P
7440-48-4	Cobalt	5.4	B		P
7440-50-8	Copper	156			P
7439-89-6	Iron	9370		*	P
7439-92-1	Lead	78.8		*	P
7439-95-4	Magnesium	7180			P
7439-96-5	Manganese	410			P
7439-97-6	Mercury	0.59		N	CV
7440-02-0	Nickel	8.3			P
7440-09-7	Potassium	284	B		P
7782-49-2	Selenium	0.99	U	*	P
7440-22-4	Silver	1.6	U		P
7440-23-5	Sodium	162	B		P
7440-28-0	Thallium	0.99	U		P
7440-62-2	Vanadium	13.6			P
7440-66-6	Zinc	173			P
56-12-5	Cyanide	0.20	B		C

Color Before: TAN Clarity Before: _____ Texture: FINE

Color After: LT. YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

ACSS2

Lab Name: MITKEM_CORPORATION Contract: _____
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564____
Matrix (soil/water): SOIL Lab Sample ID: 70564007____
Level (low/med): MED Date Received: 04/13/00____
% Solids: 60.0____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6350			P
7440-36-0	Antimony	27.0		N	P
7440-38-2	Arsenic	221			P
7440-39-3	Barium	485			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	35.9			P
7440-70-2	Calcium	61200			P
7440-47-3	Chromium	178			P
7440-48-4	Cobalt	46.2			P
7440-50-8	Copper	636			P
7439-89-6	Iron	54600		*	P
7439-92-1	Lead	4460		*	P
7439-95-4	Magnesium	2750			P
7439-96-5	Manganese	2880			P
7439-97-6	Mercury	0.48		N ⁴⁵ 5/8/00	NR
7440-02-0	Nickel	58.2			P
7440-09-7	Potassium	1890			P
7782-49-2	Selenium	16.5		*	P
7440-22-4	Silver	2.3	U		P
7440-23-5	Sodium	7660			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	58.0			P
7440-66-6	Zinc	4290			P
56-12-5	Cyanide	1.7			C

Color Before: BROWN\BLACK Clarity Before: _____ Texture: CHUNKY
Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

ACSS3

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_____ Case No.: _____ SAS No.: _____ SDG No.: 70564__

Matrix (soil/water): SOIL_____ Lab Sample ID: 70564004_____

Level (low/med): MED_____ Date Received: 04/13/00__

% Solids: 75.0_____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4430			P
7440-36-0	Antimony	2.2	B	N	P
7440-38-2	Arsenic	9.2			P
7440-39-3	Barium	37.4	B		P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	15.4			P
7440-70-2	Calcium	3030			P
7440-47-3	Chromium	13.9			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	51.2			P
7439-89-6	Iron	20500		*	P
7439-92-1	Lead	135		*	P
7439-95-4	Magnesium	1410			P
7439-96-5	Manganese	232			P
7439-97-6	Mercury	0.20		N	CV
7440-02-0	Nickel	14.1			P
7440-09-7	Potassium	366	B		P
7782-49-2	Selenium	1.2		*	P
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	865	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	17.3			P
7440-66-6	Zinc	691			P
56-12-5	Cyanide	0.38	B		C

Color Before: BROWN_____ Clarity Before: _____ Texture: MUDDY__

Color After: LT._YELLOW_____ Clarity After: CLEAR__ Artifacts: _____

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564012

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3248

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 16

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	86	B
67-64-1	Acetone	11	BJ
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (Total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	5	J
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (Total)	12	U

FORM I VOA

00007

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564012

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3248

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 16

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP213

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3207

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 11

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	11	U
67-64-1-----	Acetone	7	JB
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (Total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	5	JB
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (Total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP213

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3207

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 11

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564009

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: V6A3211

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 18

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	7	JB
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	4	JB
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (Total)	1	J

FORM I VOA

00021

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564009

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: V6A3211

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 18

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.11	16	J
2.	UNKNOWN	18.13	160	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. -

ACP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564012

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5188

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	390	U
111-44-4-----	bis(-2-Chloroethyl) Ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	390	U
95-50-1-----	1,2-Dichlorobenzene	390	U
95-48-7-----	2-Methylphenol	390	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5-----	4-Methylphenol	390	U
621-64-7-----	N-Nitroso-di-n-propylamine	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
111-91-1-----	bis(2-Chloroethoxy) methane	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	980	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	980	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U
99-09-2-----	3-Nitroaniline	980	U
83-32-9-----	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564012

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5188

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

51-28-5-----	2,4-Dinitrophenol	980	U
100-02-7-----	4-Nitrophenol	980	U
132-64-9-----	Dibenzofuran	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3-----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6-----	4-Nitroaniline	980	U
534-52-1-----	4,6-Dinitro-2-methylphenol	980	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenyl-phenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	980	U
85-01-8-----	Phenanthrene	390	U
120-12-7-----	Anthracene	390	U
86-74-8-----	Carbazole	390	U
84-74-2-----	Di-n-butylphthalate	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	390	U
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	390	U
56-55-3-----	Benzo(a)anthracene	390	U
218-01-9-----	Chrysene	390	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	69	JB
117-84-0-----	Di-n-octylphthalate	390	U
205-99-2-----	Benzo(b)fluoranthene	390	U
207-08-9-----	Benzo(k)fluoranthene	390	U
50-32-8-----	Benzo(a)pyrene	390	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	390	U
53-70-3-----	Dibenzo(a,h)anthracene	390	U
191-24-2-----	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564012

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5188

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

CONCENTRATION UNITS:

Number TICs found: 13

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.81	17000	ANJB
2.	UNKNOWN	5.46	94	JB
3.	UNKNOWN	5.86	85	JB
4.	UNKNOWN	5.94	1400	AJB
5.	UNKNOWN	6.21	210	JB
6.	UNKNOWN	7.32	120	JB
7. 630-06-8	HEXATRIACONTANE	22.32	84	NJ
8.	UNKNOWN	22.94	110	JB
9.	UNKNOWN	23.46	430	JB
10.	UNKNOWN	23.54	250	JB
11. 630-06-8	HEXATRIACONTANE	24.14	130	NJ
12.	UNKNOWN	24.74	170	J
13.	UNKNOWN	25.44	83	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

ACP213

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564002

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5198

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
108-95-2	Phenol	740 U
111-44-4	bis(-2-Chloroethyl) Ether	740 U
95-57-8	2-Chlorophenol	740 U
541-73-1	1,3-Dichlorobenzene	740 U
106-46-7	1,4-Dichlorobenzene	740 U
95-50-1	1,2-Dichlorobenzene	740 U
95-48-7	2-Methylphenol	740 U
108-60-1	2,2'-oxybis(1-Chloropropane)	740 U
106-44-5	4-Methylphenol	740 U
621-64-7	N-Nitroso-di-n-propylamine	740 U
67-72-1	Hexachloroethane	740 U
98-95-3	Nitrobenzene	740 U
78-59-1	Isophorone	740 U
88-75-5	2-Nitrophenol	740 U
105-67-9	2,4-Dimethylphenol	740 U
120-83-2	2,4-Dichlorophenol	740 U
120-82-1	1,2,4-Trichlorobenzene	740 U
91-20-3	Naphthalene	740 U
106-47-8	4-Chloroaniline	740 U
111-91-1	bis(2-Chloroethoxy) methane	740 U
87-68-3	Hexachlorobutadiene	740 U
59-50-7	4-Chloro-3-methylphenol	740 U
91-57-6	2-Methylnaphthalene	740 U
77-47-4	Hexachlorocyclopentadiene	740 U
88-06-2	2,4,6-Trichlorophenol	740 U
95-95-4	2,4,5-Trichlorophenol	1800 U
91-58-7	2-Chloronaphthalene	740 U
88-74-4	2-Nitroaniline	1800 U
131-11-3	Dimethylphthalate	740 U
208-96-8	Acenaphthylene	740 U
606-20-2	2,6-Dinitrotoluene	740 U
99-09-2	3-Nitroaniline	1800 U
83-32-9	Acenaphthene	740 U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP213

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564

Matrix: (soil/water) SOIL Lab Sample ID: 70564002

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S1B5198

Level: (low/med) LOW Date Received: 04/13/00

% Moisture: 11 decanted: (Y/N) N Date Extracted: 04/18/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	1800	U
100-02-7-----	4-Nitrophenol	1800	U
132-64-9-----	Dibenzofuran	740	U
121-14-2-----	2,4-Dinitrotoluene	740	U
84-66-2-----	Diethylphthalate	740	U
7005-72-3-----	4-Chlorophenyl-phenylether	740	U
86-73-7-----	Fluorene	740	U
100-01-6-----	4-Nitroaniline	1800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	740	U
101-55-3-----	4-Bromophenyl-phenylether	740	U
118-74-1-----	Hexachlorobenzene	740	U
87-86-5-----	Pentachlorophenol	1800	U
85-01-8-----	Phenanthrene	130	J
120-12-7-----	Anthracene	740	U
86-74-8-----	Carbazole	740	U
84-74-2-----	Di-n-butylphthalate	740	U
206-44-0-----	Fluoranthene	240	J
129-00-0-----	Pyrene	300	J
85-68-7-----	Butylbenzylphthalate	740	U
91-94-1-----	3,3'-Dichlorobenzidine	740	U
56-55-3-----	Benzo(a)anthracene	140	J
218-01-9-----	Chrysene	170	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	110	JB
117-84-0-----	Di-n-octylphthalate	740	U
205-99-2-----	Benzo(b)fluoranthene	200	J
207-08-9-----	Benzo(k)fluoranthene	76	J
50-32-8-----	Benzo(a)pyrene	140	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	100	J
53-70-3-----	Dibenzo(a,h)anthracene	740	U
191-24-2-----	Benzo(g,h,i)perylene	110	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP213

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564002

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S1B5198

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.79	17000	ANJB
2.	UNKNOWN	4.89	220	JB
3.	UNKNOWN	5.88	550	JB
4.	UNKNOWN	5.95	1200	JB
5.	UNKNOWN	6.22	200	JB
6.	UNKNOWN	6.68	260	JB
7.	UNKNOWN	7.01	150	JB
8.	UNKNOWN	7.98	160	JB
9.	UNKNOWN	20.30	320	J
10.	UNKNOWN	20.99	490	J
11.	UNKNOWN	22.32	610	J
12. 593-45-3	OCTADECANE	22.95	490	JB
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564009

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5197

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	410	U
111-44-4-----	bis(-2-Chloroethyl) Ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-n-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
111-91-1-----	bis(2-Chloroethoxy)methane	410	U
87-68-3-----	Hexachlorobutadiene	410	U
59-50-7-----	4-Chloro-3-methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	1000	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	1000	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
99-09-2-----	3-Nitroaniline	1000	U
83-32-9-----	Acenaphthene	410	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564009

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5197

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5-----	2,4-Dinitrophenol	1000	U
100-02-7-----	4-Nitrophenol	1000	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	1000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	1000	U
85-01-8-----	Phenanthrene	190	J
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	410	U
206-44-0-----	Fluoranthene	320	J
129-00-0-----	Pyrene	340	J
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	410	U
56-55-3-----	Benzo(a)anthracene	160	J
218-01-9-----	Chrysene	200	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	230	JB
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	240	J
207-08-9-----	Benzo(k)fluoranthene	85	J
50-32-8-----	Benzo(a)pyrene	120	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	140	J
53-70-3-----	Dibenzo(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	130	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564009

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5197

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.82	22000	ANJB
2.	UNKNOWN	4.89	280	JB
3.	UNKNOWN	5.51	190	JB
4.	UNKNOWN	5.87	550	JB
5. 3744-02-3	4-PENTEN-2-ONE, 4-METHYL-	5.95	1700	ANJ
6.	UNKNOWN	6.22	240	JB
7.	UNKNOWN	6.70	84	JB
8.	UNKNOWN	7.02	200	JB
9.	UNKNOWN	7.34	180	JB
10. 6089-09-4	4-PENTYNOIC ACID	7.61	94	JB
11. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	9.00	83	J
12.	UNKNOWN	9.56	280	J
13.	UNKNOWN	17.62	150	J
14. 84-65-1	9,10-ANTHRACENEDIONE	18.04	170	J
15.	UNKNOWN	20.91	1400	J
16.	UNKNOWN	23.47	260	JB
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70654012

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: E4A0856F

% Moisture: 16 decanted: (Y/N) N

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/06/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	2.0	U
319-85-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.0	U
1024-57-3-----	Heptachlor epoxide	2.0	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	3.9	U
72-55-9-----	4,4'-DDE	3.9	U
72-20-8-----	Endrin	3.9	U
33213-65-9-----	Endosulfan II	3.9	U
72-54-8-----	4,4'-DDD	3.9	U
1031-07-8-----	Endosulfan sulfate	3.9	U
50-29-3-----	4,4'-DDT	3.9	U
72-43-5-----	Methoxychlor	20	U
53494-70-5-----	Endrin ketone	3.9	U
7421-93-4-----	Endrin aldehyde	3.9	U
5103-71-9-----	alpha-Chlordane	2.0	U
5103-74-2-----	gamma-Chlordane	2.0	U
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	39	U
11104-28-2-----	Aroclor-1221	79	U
11141-16-5-----	Aroclor-1232	39	U
53469-21-9-----	Aroclor-1242	39	U
12672-29-6-----	Aroclor-1248	39	U
11097-69-1-----	Aroclor-1254	39	U
11096-82-5-----	Aroclor-1260	39	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP213

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70654002

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: E4A0849F

% Moisture: 11 decanted: (Y/N) N

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/05/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.7	U
72-55-9-----	4,4'-DDE	3.7	U
72-20-8-----	Endrin	3.7	U
33213-65-9-----	Endosulfan II	3.7	U
72-54-8-----	4,4'-DDD	3.7	U
1031-07-8-----	Endosulfan sulfate	3.7	U
50-29-3-----	4,4'-DDT	3.7	U
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.7	U
7421-93-4-----	Endrin aldehyde	3.7	U
5103-71-9-----	alpha-Chlordane	1.9	U
5103-74-2-----	gamma-Chlordane	1.9	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	37	U
11104-28-2-----	Aroclor-1221	75	U
11141-16-5-----	Aroclor-1232	37	U
53469-21-9-----	Aroclor-1242	37	U
12672-29-6-----	Aroclor-1248	37	U
11097-69-1-----	Aroclor-1254	37	U
11096-82-5-----	Aroclor-1260	37	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70654009

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: E4A0855F

% Moisture: 18

decanted: (Y/N) N

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/05/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	2.0	U
319-85-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.0	U
1024-57-3-----	Heptachlor epoxide	2.0	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	3.9	U
72-55-9-----	4,4'-DDE	3.9	U
72-20-8-----	Endrin	3.9	U
33213-65-9-----	Endosulfan II	3.9	U
72-54-8-----	4,4'-DDD	3.9	U
1031-07-8-----	Endosulfan sulfate	3.9	U
50-29-3-----	4,4'-DDT	3.9	U
72-43-5-----	Methoxychlor	20	U
53494-70-5-----	Endrin ketone	3.9	U
7421-93-4-----	Endrin aldehyde	3.9	U
5103-71-9-----	alpha-Chlordane	2.0	U
5103-74-2-----	gamma-Chlordane	2.0	U
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	39	U
11104-28-2-----	Aroclor-1221	79	U
11141-16-5-----	Aroclor-1232	39	U
53469-21-9-----	Aroclor-1242	39	U
12672-29-6-----	Aroclor-1248	39	U
11097-69-1-----	Aroclor-1254	39	U
11096-82-5-----	Aroclor-1260	39	U

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

ACP157

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: 70564__

Matrix (soil/water): SOIL_____ Lab Sample ID: 70564012_____

Level (low/med): MED_____ Date Received: 04/13/00__

% Solids: 90.0_____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4500			P
7440-36-0	Antimony	0.46	U	N	P
7440-38-2	Arsenic	1.4	B		P
7440-39-3	Barium	8.5	B		P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	401	B		P
7440-47-3	Chromium	8.7			P
7440-48-4	Cobalt	3.7	B		P
7440-50-8	Copper	6.7			P
7439-89-6	Iron	7950		*	P
7439-92-1	Lead	4.7		*	P
7439-95-4	Magnesium	1010			P
7439-96-5	Manganese	55.4			P
7439-97-6	Mercury	0.046	U	N	CV
7440-02-0	Nickel	5.6	B		P
7440-09-7	Potassium	560	B		P
7782-49-2	Selenium	0.77	U	*	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	23.9	U		P
7440-28-0	Thallium	0.77	U		P
7440-62-2	Vanadium	11.6			P
7440-66-6	Zinc	28.2			P
56-12-5	Cyanide	0.12	B		C

Color Before: TAN_____ Clarity Before: _____ Texture: SAND\MUD

Color After: LT. YELLOW Clarity After: CLEAR_____ Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

ACP213

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: 70564__

Matrix (soil/water): SOIL_____ Lab Sample ID: 70564002_____

Level (low/med): MED_____ Date Received: 04/13/00__

% Solids: 88.0_____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6010			P
7440-36-0	Antimony	1.4	B	N	P
7440-38-2	Arsenic	8.5			P
7440-39-3	Barium	118			P
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	0.59	B		P
7440-70-2	Calcium	2540			P
7440-47-3	Chromium	12.0			P
7440-48-4	Cobalt	4.6	B		P
7440-50-8	Copper	29.4			P
7439-89-6	Iron	9160		*	P
7439-92-1	Lead	190		*	P
7439-95-4	Magnesium	1250			P
7439-96-5	Manganese	260			P
7439-97-6	Mercury	0.16		N	CV
7440-02-0	Nickel	8.4			P
7440-09-7	Potassium	410	B		P
7782-49-2	Selenium	0.89		*	P
7440-22-4	Silver	1.4	U		P
7440-23-5	Sodium	126	B		P
7440-28-0	Thallium	0.87	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	201			P
56-12-5	Cyanide	0.19	B		C

Color Before: BROWN_____ Clarity Before: _____ Texture: FINE__

Color After: LT._YELLOW Clarity After: CLEAR__ Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

ACP446

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: 70564_

Matrix (soil/water): SOIL_____ Lab Sample ID: 70564009_____

Level (low/med): MED_____ Date Received: 04/13/00_

% Solids: 84.0_____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4480			P
7440-36-0	Antimony	1.1	B	N	P
7440-38-2	Arsenic	4.4			P
7440-39-3	Barium	77.3			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.64	B		P
7440-70-2	Calcium	1460			P
7440-47-3	Chromium	11.0			P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	30.8			P
7439-89-6	Iron	8810		*	P
7439-92-1	Lead	585		*	P
7439-95-4	Magnesium	1140			P
7439-96-5	Manganese	199			P
7439-97-6	Mercury	0.27		N	CV
7440-02-0	Nickel	7.1	B		P
7440-09-7	Potassium	528	B		P
7782-49-2	Selenium	2.2		*	P
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	527	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	13.2			P
7440-66-6	Zinc	326			P
56-12-5	Cyanide	0.22	B		C

Color Before: BRWON_____ Clarity Before: _____ Texture: CHUNKY

Color After: LT._YELLOW_____ Clarity After: CLEAR_____ Artifacts: _____

Comments:

Order ID: 040007077

Attn: Kristen Barbar
Mitek Corporation
175 Metro Center Blvd
Warwick, RI 02886-1755
Fax: 401-732-3499
Project: 70570

Customer ID: MITK50
Customer PO:
Received: 05/08/00 2:09 PM
EMSL Order: 040007078
EMSL Project ID:

**EPA Protocol for Screening Soil and Sediment Samples For Asbestos Content Used
by USEPA, Region 1 Laboratory (Rev May 24, 1994)
Modified by EMSL (Sept 1999)**

<u>Client Sample ID</u>	<u>EMSL Sample ID</u>	<u>Location</u>	<u>% Asbestos</u>
70564-08	040007078-1	ACP4 (0-6)	0.05% Chrysotile
70564-09	040007078-2	ACP4 (4-6)	0.17% Chrysotile
70564-11	040007078-3	ACP-1 (0-6)	0.79% Chrysotile
70564-14	040007078-4	GP1 (0-6)	1.55% Chrysotile
70564-15	040007078-5	GP1 (5-7)	1.01% Chrysotile
70564-17	040007078-6	GP-2 (3-4)	1.11% Chrysotile
70564-19	040007078-7	G-SS-1	0.04% Chrysotile

Essie Spencer/Linda Price
Analysts


Stephen Siegel, CIH- Lab Manager
Or other approved signatory

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

ACP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564013

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0118

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	43	
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	9	J
75-34-3-----	1,1-Dichloroethane	23	
540-59-0-----	1,2-Dichloroethene (Total)	740	E
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	3	J
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	8	J
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	280	E
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	1	J
71-43-2-----	Benzene	1	J
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	520	E
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	2	J
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564013

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0118

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN	3.86	31	J
2. 76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	4.15	260	NJ
3.				
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30.				

FORM I VOA-TIC

00010

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP1GWDL

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564

Matrix: (soil/water) WATER Lab Sample ID: 70564013DL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V2D0133A

Level: (low/med) LOW Date Received: 04/13/00

% Moisture: not dec. _____ Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
			Q
74-87-3	-----Chloromethane	100	U
74-83-9	-----Bromomethane	100	U
75-01-4	-----Vinyl Chloride	27	DJ
75-00-3	-----Chloroethane	100	U
75-09-2	-----Methylene Chloride	100	U
67-64-1	-----Acetone	100	U
75-15-0	-----Carbon Disulfide	100	U
75-35-4	-----1,1-Dichloroethene	100	U
75-34-3	-----1,1-Dichloroethane	16	DJ
540-59-0	-----1,2-Dichloroethene (Total)	530	D
67-66-3	-----Chloroform	100	U
107-06-2	-----1,2-Dichloroethane	100	U
78-93-3	-----2-Butanone	100	U
71-55-6	-----1,1,1-Trichloroethane	100	U
56-23-5	-----Carbon Tetrachloride	100	U
75-27-4	-----Bromodichloromethane	100	U
78-87-5	-----1,2-Dichloropropane	100	U
10061-01-5	-----cis-1,3-Dichloropropene	100	U
79-01-6	-----Trichloroethene	170	D
124-48-1	-----Dibromochloromethane	180	D
79-00-5	-----1,1,2-Trichloroethane	100	U
71-43-2	-----Benzene	100	U
10061-02-6	-----trans-1,3-Dichloropropene	100	U
75-25-2	-----Bromoform	100	U
108-10-1	-----4-Methyl-2-Pentanone	100	U
591-78-6	-----2-Hexanone	100	U
127-18-4	-----Tetrachloroethene	300	D
79-34-5	-----1,1,2,2-Tetrachloroethane	100	U
108-88-3	-----Toluene	100	U
108-90-7	-----Chlorobenzene	100	U
100-41-4	-----Ethylbenzene	100	U
100-42-5	-----Styrene	100	U
1330-20-7	-----Xylene (Total)	100	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP1GWDL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564013DL

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0133A

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____
16. _____	_____	_____	_____	_____
17. _____	_____	_____	_____	_____
18. _____	_____	_____	_____	_____
19. _____	_____	_____	_____	_____
20. _____	_____	_____	_____	_____
21. _____	_____	_____	_____	_____
22. _____	_____	_____	_____	_____
23. _____	_____	_____	_____	_____
24. _____	_____	_____	_____	_____
25. _____	_____	_____	_____	_____
26. _____	_____	_____	_____	_____
27. _____	_____	_____	_____	_____
28. _____	_____	_____	_____	_____
29. _____	_____	_____	_____	_____
30. _____	_____	_____	_____	_____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

ACP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564003

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0115

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (Total)	4	J
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	3	J
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	1	J
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564003

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0115

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.98	9	J
2.				
3.				
4.				
5.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

ACP3GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564006

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0116

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (Total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP3GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564006

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0116

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

ACP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564010

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0117

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (Total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

FORM I VOA

00024 ALN
0023

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564010

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0117

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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27.				
28.				
29.				
30.				

FORM I VOA-TIC

00023 ARN
024

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

ACPIGW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564013

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: S1B5180

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethyphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 1

ACP1GW

Lab Name: MITKEM CORPORATION Contract: _____
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564
 Matrix: (soil/water) WATER Lab Sample ID: 70564013
 Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S1B5180
 Level: (low/med) LOW Date Received: 04/13/00
 % Moisture: _____ decanted: (Y/N) _____ Date Extracted: 04/17/00
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 05/01/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5-----	2,4-Dinitrophenol_____	25	U
100-02-7-----	4-Nitrophenol_____	25	U
132-64-9-----	Dibenzofuran_____	10	U
121-14-2-----	2,4-Dinitrotoluene_____	10	U
84-66-2-----	Diethylphthalate_____	10	U
7005-72-3-----	4-Chlorophenyl-phenylether_____	10	U
86-73-7-----	Fluorene_____	10	U
100-01-6-----	4-Nitroaniline_____	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol_____	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)_____	10	U
101-55-3-----	4-Bromophenyl-phenylether_____	10	U
118-74-1-----	Hexachlorobenzene_____	10	U
87-86-5-----	Pentachlorophenol_____	25	U
85-01-8-----	Phenanthrene_____	10	U
120-12-7-----	Anthracene_____	10	U
86-74-8-----	Carbazole_____	10	U
84-74-2-----	Di-n-butylphthalate_____	10	U
206-44-0-----	Fluoranthene_____	10	U
129-00-0-----	Pyrene_____	10	U
85-68-7-----	Butylbenzylphthalate_____	1	J
91-94-1-----	3,3'-Dichlorobenzidine_____	10	U
56-55-3-----	Benzo(a)anthracene_____	10	U
218-01-9-----	Chrysene_____	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate_____	2	J
117-84-0-----	Di-n-octylphthalate_____	10	U
205-99-2-----	Benzo(b)fluoranthene_____	10	U
207-08-9-----	Benzo(k)fluoranthene_____	10	U
50-32-8-----	Benzo(a)pyrene_____	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene_____	10	U
53-70-3-----	Dibenzo(a,h)anthracene_____	10	U
191-24-2-----	Benzo(g,h,i)perylene_____	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564013

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: S1B5180

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 594-04-7	DICHLOROIODOMETHANE	4.66	5	NJ
2.	UNKNOWN	6.05	2	J
3. 3054-92-0	3-PENTANOL, 2,3,4-TRIMETHYL-	7.05	69	J
4.	UNKNOWN	7.39	6	J
5.	UNKNOWN	7.55	4	J
6.	UNKNOWN	9.64	2	J
7.	UNKNOWN	23.56	3	J
8.	UNKNOWN ALKANE	24.74	5	J
9.	UNKNOWN	25.45	22	JB
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FORM I SV-TIC

00048

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

ACP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564003

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5175

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

00052

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564003

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5175

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	25 U
100-02-7-----	4-Nitrophenol	25 U
132-64-9-----	Dibenzofuran	10 U
121-14-2-----	2,4-Dinitrotoluene	10 U
84-66-2-----	Diethylphthalate	10 U
7005-72-3-----	4-Chlorophenyl-phenylether	10 U
86-73-7-----	Fluorene	10 U
100-01-6-----	4-Nitroaniline	25 U
534-52-1-----	4,6-Dinitro-2-methylphenol	25 U
86-30-6-----	N-Nitrosodiphenylamine (1)	10 U
101-55-3-----	4-Bromophenyl-phenylether	10 U
118-74-1-----	Hexachlorobenzene	10 U
87-86-5-----	Pentachlorophenol	25 U
85-01-8-----	Phenanthrene	10 U
120-12-7-----	Anthracene	10 U
86-74-8-----	Carbazole	10 U
84-74-2-----	Di-n-butylphthalate	10 U
206-44-0-----	Fluoranthene	10 U
129-00-0-----	Pyrene	10 U
85-68-7-----	Butylbenzylphthalate	10 U
91-94-1-----	3,3'-Dichlorobenzidine	10 U
56-55-3-----	Benzo (a) anthracene	10 U
218-01-9-----	Chrysene	10 U
117-81-7-----	bis (2-Ethylhexyl) phthalate	10 U
117-84-0-----	Di-n-octylphthalate	10 U
205-99-2-----	Benzo (b) fluoranthene	10 U
207-08-9-----	Benzo (k) fluoranthene	10 U
50-32-8-----	Benzo (a) pyrene	10 U
193-39-5-----	Indeno (1,2,3-cd) pyrene	10 U
53-70-3-----	Dibenzo (a,h) anthracene	10 U
191-24-2-----	Benzo (g,h,i) perylene	10 U

(1) - Cannot be separated from Diphenylamine

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS4

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3255

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 9

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3250

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 8

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	6	BJ
67-64-1-----	Acetone	11	B
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (Total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	1	J
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (Total)	4	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3250

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 8

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.86	43	J
2. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	14.83	19	NJ
3.	UNKNOWN	15.05	16	J
4. 1758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHY	15.11	13	NJ
5. 1120-21-4	UNDECANE	15.21	50	NJ
6. 934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHY	15.45	18	NJ
7. 874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	15.54	21	NJ
8.	UNKNOWN	15.89	40	J
9.	UNKNOWN	15.99	17	J
10.	UNKNOWN	16.13	20	J
11.	UNKNOWN	16.31	11	J
12. 112-40-3	DODECANE	16.40	96	NJ
13.	UNKNOWN	16.56	69	J
14.	UNKNOWN	16.90	14	J
15.	UNKNOWN	17.05	19	J
16.	UNKNOWN	17.10	31	J
17.	UNKNOWN	17.19	42	J
18.	UNKNOWN	17.40	12	J
19. 629-50-5	TRIDECANE	17.47	98	NJ
20.	UNKNOWN	17.61	20	J
21.	UNKNOWN	17.69	23	J
22. 1680-51-9	NAPHTHALENE, 1,2,3,4-TETRAHY	17.85	48	NJ
23.	UNKNOWN	18.20	22	J
24.	UNKNOWN	18.26	25	J
25. 13065-07-1	NAPHTHALENE, 1,2,3,4-TETRAHY	18.38	28	NJ
26. 629-59-4	TETRADECANE	18.46	59	NJ
27.	UNKNOWN	18.67	13	J
28. 112-95-8	EICOSANE	19.10	23	NJ
29. 4175-54-6	NAPHTHALENE, 1,2,3,4-TETRAHY	19.21	28	NJ
30. 629-62-9	PENTADECANE	19.49	34	NJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3254

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 33

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	15	U
74-83-9-----	Bromomethane	15	U
75-01-4-----	Vinyl Chloride	15	U
75-00-3-----	Chloroethane	15	U
75-09-2-----	Methylene Chloride	6	BJ
67-64-1-----	Acetone	34	B
75-15-0-----	Carbon Disulfide	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-34-3-----	1,1-Dichloroethane	15	U
540-59-0-----	1,2-Dichloroethene (Total)	15	U
67-66-3-----	Chloroform	15	U
107-06-2-----	1,2-Dichloroethane	15	U
78-93-3-----	2-Butanone	15	U
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
75-27-4-----	Bromodichloromethane	15	U
78-87-5-----	1,2-Dichloropropane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
79-01-6-----	Trichloroethene	15	U
124-48-1-----	Dibromochloromethane	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
71-43-2-----	Benzene	3	J
10061-02-6-----	trans-1,3-Dichloropropene	15	U
75-25-2-----	Bromoform	15	U
108-10-1-----	4-Methyl-2-Pentanone	15	U
591-78-6-----	2-Hexanone	15	U
127-18-4-----	Tetrachloroethene	15	U
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
108-88-3-----	Toluene	4	J
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	15	U
100-42-5-----	Styrene	15	U
1330-20-7-----	Xylene (Total)	2	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3254

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 33

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.65	26	J
2.	UNKNOWN	14.24	7	J
3.	UNKNOWN	16.40	16	J
4.	UNKNOWN	16.57	9	J
5.	UNKNOWN	17.19	11	J
6. 629-50-5	TRIDECANE	17.47	24	NJ
7.	UNKNOWN	17.58	8	J
8.	UNKNOWN	18.13	10	J
9.	UNKNOWN	18.26	9	J
10.	UNKNOWN	18.46	16	J
11.	UNKNOWN	19.11	15	J
12.	UNKNOWN	19.49	9	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3266

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 33

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

74-87-3-----	Chloromethane	15	U
74-83-9-----	Bromomethane	15	U
75-01-4-----	Vinyl Chloride	15	U
75-00-3-----	Chloroethane	15	U
75-09-2-----	Methylene Chloride	4	JB
67-64-1-----	Acetone	26	B
75-15-0-----	Carbon Disulfide	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-34-3-----	1,1-Dichloroethane	15	U
540-59-0-----	1,2-Dichloroethene (Total)	15	U
67-66-3-----	Chloroform	15	U
107-06-2-----	1,2-Dichloroethane	15	U
78-93-3-----	2-Butanone	15	U
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
75-27-4-----	Bromodichloromethane	15	U
78-87-5-----	1,2-Dichloropropane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
79-01-6-----	Trichloroethene	15	U
124-48-1-----	Dibromochloromethane	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
71-43-2-----	Benzene	15	U
10061-02-6-----	trans-1,3-Dichloropropene	15	U
75-25-2-----	Bromoform	15	U
108-10-1-----	4-Methyl-2-Pentanone	15	U
591-78-6-----	2-Hexanone	15	U
127-18-4-----	Tetrachloroethene	15	U
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
108-88-3-----	Toluene	3	J
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	4	J
100-42-5-----	Styrene	15	U
1330-20-7-----	Xylene (Total)	26	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS2RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3266

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 33

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.65	18	J
2.	UNKNOWN	6.25	13	J
3.	UNKNOWN	12.98	22	J
4. 620-14-4	BENZENE, 1-ETHYL-3-METHYL-	13.79	30	NJ
5. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	13.88	10	NJ
6. 108-67-8	BENZENE, 1,3,5-TRIMETHYL-	14.33	32	NJ
7.	UNKNOWN	14.83	10	J
8.	UNKNOWN	15.05	15	J
9. 874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	15.11	13	NJ
10. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	15.43	9	NJ
11. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	15.55	12	NJ
12.	UNKNOWN	16.11	48	J
13.	UNKNOWN	16.53	11	J
14. 17851-27-3	1-ETHYL-2 BENZENE ISOMER	16.90	11	NJ
15.	UNKNOWN	17.04	9	J
16.	UNKNOWN	17.25	16	J
17.	UNKNOWN	17.40	11	J
18.	UNKNOWN	17.48	8	J
19.	UNKNOWN	18.13	450	J
20.	METHYL NAPHTHALENE ISOMER	18.45	16	J
21.				
22.				
23.				
24.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5387

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 2500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----Phenol	1800	U
111-44-4-----bis(-2-Chloroethyl) Ether	1800	U
95-57-8-----2-Chlorophenol	1800	U
541-73-1-----1,3-Dichlorobenzene	1800	U
106-46-7-----1,4-Dichlorobenzene	1800	U
95-50-1-----1,2-Dichlorobenzene	1800	U
95-48-7-----2-Methylphenol	1800	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5-----4-Methylphenol	1800	U
621-64-7-----N-Nitroso-di-n-propylamine	1800	U
67-72-1-----Hexachloroethane	1800	U
98-95-3-----Nitrobenzene	1800	U
78-59-1-----Isophorone	1800	U
88-75-5-----2-Nitrophenol	1800	U
105-67-9-----2,4-Dimethyphenol	1800	U
120-83-2-----2,4-Dichlorophenol	1800	U
120-82-1-----1,2,4-Trichlorobenzene	1800	U
91-20-3-----Naphthalene	1800	U
106-47-8-----4-Chloroaniline	1800	U
111-91-1-----bis(2-Chloroethoxy) methane	1800	U
87-68-3-----Hexachlorobutadiene	1800	U
59-50-7-----4-Chloro-3-methylphenol	1800	U
91-57-6-----2-Methylnaphthalene	1800	U
77-47-4-----Hexachlorocyclopentadiene	1800	U
88-06-2-----2,4,6-Trichlorophenol	1800	U
95-95-4-----2,4,5-Trichlorophenol	4400	U
91-58-7-----2-Chloronaphthalene	1800	U
88-74-4-----2-Nitroaniline	4400	U
131-11-3-----Dimethylphthalate	1800	U
208-96-8-----Acenaphthylene	1800	U
606-20-2-----2,6-Dinitrotoluene	1800	U
99-09-2-----3-Nitroaniline	4400	U
83-32-9-----Acenaphthene	1800	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5387

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 2500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

51-28-5-----	2,4-Dinitrophenol	4400	U
100-02-7-----	4-Nitrophenol	4400	U
132-64-9-----	Dibenzofuran	1800	U
121-14-2-----	2,4-Dinitrotoluene	1800	U
84-66-2-----	Diethylphthalate	1800	U
7005-72-3-----	4-Chlorophenyl-phenylether	1800	U
86-73-7-----	Fluorene	1800	U
100-01-6-----	4-Nitroaniline	4400	U
534-52-1-----	4,6-Dinitro-2-methylphenol	4400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1800	U
101-55-3-----	4-Bromophenyl-phenylether	1800	U
118-74-1-----	Hexachlorobenzene	1800	U
87-86-5-----	Pentachlorophenol	4400	U
85-01-8-----	Phenanthrene	1800	U
120-12-7-----	Anthracene	1800	U
86-74-8-----	Carbazole	1800	U
84-74-2-----	Di-n-butylphthalate	1800	U
206-44-0-----	Fluoranthene	2800	
129-00-0-----	Pyrene	15000	E
85-68-7-----	Butylbenzylphthalate	1800	U
91-94-1-----	3,3'-Dichlorobenzidine	1800	U
56-55-3-----	Benzo (a) anthracene	2200	
218-01-9-----	Chrysene	2200	
117-81-7-----	bis (2-Ethylhexyl) phthalate	4600	B
117-84-0-----	Di-n-octylphthalate	1800	U
205-99-2-----	Benzo (b) fluoranthene	2200	
207-08-9-----	Benzo (k) fluoranthene	590	J
50-32-8-----	Benzo (a) pyrene	1800	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	920	J
53-70-3-----	Dibenzo (a,h) anthracene	1800	U
191-24-2-----	Benzo (g,h,i) perylene	1100	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5387

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 2500(uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.86	1600	J
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.24	9500	ANJB
3. 1120-21-4	UNDECANE	8.12	2200	NJ
4.	UNKNOWN	8.84	1400	J
5. 17301-23-4	UNDECANE, 2,6-DIMETHYL-	9.58	1500	NJ
6.	UNKNOWN	9.91	1000	J
7.	UNKNOWN	9.97	910	J
8.	UNKNOWN	10.09	1800	J
9.	UNKNOWN ALKANE	10.21	1000	J
10.	UNKNOWN ALKANE	10.30	3800	J
11. 629-50-5	TRIDECANE	10.65	13000	NJ
12. 0-00-0	1,4-DIMETHYL-1,2,3,4-TETRAHY	10.99	4200	NJ
13.	UNKNOWN CYCLOALKANE	11.23	7100	J
14. 1560-96-9	TRIDECANE, 2-METHYL-	11.40	1900	NJ
15.	UNKNOWN ALKANE	11.52	5400	J
16.	UNKNOWN	12.39	10000	J
17.	UNKNOWN ALKANE	12.46	15000	J
18.	UNKNOWN	12.66	4500	J
19. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	13.37	13000	NJ
20.	UNKNOWN ALKANE	13.56	22000	J
21. 544-76-3	HEXADECANE	13.96	96000	NJ
22.	UNKNOWN ALKANE	14.40	43000	J
23.	UNKNOWN	14.55	33000	J
24. 1921-70-6	PENTADECANE, 2,6,10,14-TETRA	15.00	280000	NJ
25. 593-45-3	OCTADECANE	15.92	210000	NJ
26. 629-92-5	NONADECANE	16.79	110000	NJ
27. 112-95-8	EICOSANE	17.61	44000	NJ
28. 0-00-0	2-METHYLOCTADECANE	18.14	16000	NJ
29. 629-94-7	HENEICOSANE	18.39	31000	NJ
30. 638-67-5	TRICOSANE	19.12	22000	NJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS3DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001DL

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5397

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 2500 (uL)

Date Analyzed: 05/11/00

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	3500	U
111-44-4-----	bis(-2-Chloroethyl) Ether	3500	U
95-57-8-----	2-Chlorophenol	3500	U
541-73-1-----	1,3-Dichlorobenzene	3500	U
106-46-7-----	1,4-Dichlorobenzene	3500	U
95-50-1-----	1,2-Dichlorobenzene	3500	U
95-48-7-----	2-Methylphenol	3500	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3500	U
106-44-5-----	4-Methylphenol	3500	U
621-64-7-----	N-Nitroso-di-n-propylamine	3500	U
67-72-1-----	Hexachloroethane	3500	U
98-95-3-----	Nitrobenzene	3500	U
78-59-1-----	Isophorone	3500	U
88-75-5-----	2-Nitrophenol	3500	U
105-67-9-----	2,4-Dimethyphenol	3500	U
120-83-2-----	2,4-Dichlorophenol	3500	U
120-82-1-----	1,2,4-Trichlorobenzene	3500	U
91-20-3-----	Naphthalene	3500	U
106-47-8-----	4-Chloroaniline	3500	U
111-91-1-----	bis(2-Chloroethoxy) methane	3500	U
87-68-3-----	Hexachlorobutadiene	3500	U
59-50-7-----	4-Chloro-3-methylphenol	3500	U
91-57-6-----	2-Methylnaphthalene	3500	U
77-47-4-----	Hexachlorocyclopentadiene	3500	U
88-06-2-----	2,4,6-Trichlorophenol	3500	U
95-95-4-----	2,4,5-Trichlorophenol	8800	U
91-58-7-----	2-Chloronaphthalene	3500	U
88-74-4-----	2-Nitroaniline	8800	U
131-11-3-----	Dimethylphthalate	3500	U
208-96-8-----	Acenaphthylene	3500	U
606-20-2-----	2,6-Dinitrotoluene	3500	U
99-09-2-----	3-Nitroaniline	8800	U
83-32-9-----	Acenaphthene	3500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS3DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001DL

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5397

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 2500 (uL)

Date Analyzed: 05/11/00

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	8800	U
100-02-7-----	4-Nitrophenol	8800	U
132-64-9-----	Dibenzofuran	3500	U
121-14-2-----	2,4-Dinitrotoluene	3500	U
84-66-2-----	Diethylphthalate	3500	U
7005-72-3-----	4-Chlorophenyl-phenylether	3500	U
86-73-7-----	Fluorene	3500	U
100-01-6-----	4-Nitroaniline	8800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	8800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3500	U
101-55-3-----	4-Bromophenyl-phenylether	3500	U
118-74-1-----	Hexachlorobenzene	3500	U
87-86-5-----	Pentachlorophenol	8800	U
85-01-8-----	Phenanthrene	3500	U
120-12-7-----	Anthracene	3500	U
86-74-8-----	Carbazole	3500	U
84-74-2-----	Di-n-butylphthalate	3500	U
206-44-0-----	Fluoranthene	2500	DJ
129-00-0-----	Pyrene	18000	D
85-68-7-----	Butylbenzylphthalate	3500	U
91-94-1-----	3,3'-Dichlorobenzidine	3500	U
56-55-3-----	Benzo (a) anthracene	1700	DJ
218-01-9-----	Chrysene	2300	DJ
117-81-7-----	bis (2-Ethylhexyl) phthalate	3400	DJB
117-84-0-----	Di-n-octylphthalate	3500	U
205-99-2-----	Benzo (b) fluoranthene	2100	DJ
207-08-9-----	Benzo (k) fluoranthene	660	DJ
50-32-8-----	Benzo (a) pyrene	3500	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	1200	DJ
53-70-3-----	Dibenzo (a,h) anthracene	3500	U
191-24-2-----	Benzo (g,h,i) perylene	1100	DJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS3DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001DL

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5397

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 2500 (uL)

Date Analyzed: 05/11/00

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y

pH: 8.0

CONCENTRATION UNITS:

Number TICs found: 30

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.17	8900	NJBD
2. 112-40-3	DODECANE	9.36	5300	JD
3. 17301-23-4	UNDECANE, 2,6-DIMETHYL-	9.51	1900	JD
4.	UNKNOWN	10.02	2800	JD
5. 61141-72-8	DODECANE, 4,6-DIMETHYL-	10.24	5200	JD
6. 629-50-5	TRIDECANE	10.58	13000	NJD
7.	UNKNOWN	10.78	1600	JD
8. 0-00-0	1,4-DIMETHYL-1,2,3,4-TETRAHY	10.92	7200	NJD
9.	UNKNOWN	11.15	3700	JD
10.	UNKNOWN	11.33	2700	JD
11. 31295-56-4	DODECANE, 2,6,11-TRIMETHYL-	11.45	4200	JD
12. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	12.15	8000	JD
13.	UNKNOWN	12.31	9000	JD
14.	UNKNOWN	12.39	17000	JD
15. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	13.29	23000	JD
16. 112-40-3	DODECANE	13.48	76000	JD
17. 544-76-3	HEXADECANE	13.89	160000	JD
18. 55045-11-9	TRIDECANE, 5-PROPYL-	14.33	89000	JD
19.	UNKNOWN	14.48	100000	JD
20. 629-78-7	HEPTADECANE	14.91	260000	JD
21.	UNKNOWN	15.25	100000	JD
22.	UNKNOWN	15.44	130000	JD
23. 593-45-3	OCTADECANE	15.83	450000	JD
24. 629-92-5	NONADECANE	16.71	280000	JD
25. 112-95-8	EICOSANE	17.53	140000	JD
26.	UNKNOWN	18.06	28000	JD
27. 629-94-7	HENEICOSANE	18.30	38000	JD
28. 638-67-5	TRICOSANE	19.74	120000	JD
29. 646-31-1	TETRACOSANE	20.43	240000	JD
30. 7225-64-1	HEPTADECANE, 9-OCTYL-	22.54	22000	JD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS4

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5207

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	360	U
111-44-4-----	bis(-2-Chloroethyl) Ether	360	U
95-57-8-----	2-Chlorophenol	360	U
541-73-1-----	1,3-Dichlorobenzene	360	U
106-46-7-----	1,4-Dichlorobenzene	360	U
95-50-1-----	1,2-Dichlorobenzene	360	U
95-48-7-----	2-Methylphenol	360	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5-----	4-Methylphenol	360	U
621-64-7-----	N-Nitroso-di-n-propylamine	360	U
67-72-1-----	Hexachloroethane	360	U
98-95-3-----	Nitrobenzene	360	U
78-59-1-----	Isophorone	360	U
88-75-5-----	2-Nitrophenol	360	U
105-67-9-----	2,4-Dimethyphenol	360	U
120-83-2-----	2,4-Dichlorophenol	360	U
120-82-1-----	1,2,4-Trichlorobenzene	360	U
91-20-3-----	Naphthalene	180	J
106-47-8-----	4-Chloroaniline	360	U
111-91-1-----	bis(2-Chloroethoxy) methane	360	U
87-68-3-----	Hexachlorobutadiene	360	U
59-50-7-----	4-Chloro-3-methylphenol	360	U
91-57-6-----	2-Methylnaphthalene	100	J
77-47-4-----	Hexachlorocyclopentadiene	360	U
88-06-2-----	2,4,6-Trichlorophenol	360	U
95-95-4-----	2,4,5-Trichlorophenol	890	U
91-58-7-----	2-Chloronaphthalene	360	U
88-74-4-----	2-Nitroaniline	890	U
131-11-3-----	Dimethylphthalate	360	U
208-96-8-----	Acenaphthylene	52	J
606-20-2-----	2,6-Dinitrotoluene	360	U
99-09-2-----	3-Nitroaniline	890	U
83-32-9-----	Acenaphthene	430	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS4

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5207

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	890	U
100-02-7-----	4-Nitrophenol	890	U
132-64-9-----	Dibenzofuran	190	J
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	350	J
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine (1)	110	J
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	7500	E
120-12-7-----	Anthracene	2100	
86-74-8-----	Carbazole	960	
84-74-2-----	Di-n-butylphthalate	110	J
206-44-0-----	Fluoranthene	11000	E
129-00-0-----	Pyrene	18000	E
85-68-7-----	Butylbenzylphthalate	160	J
91-94-1-----	3,3'-Dichlorobenzidine	360	U
56-55-3-----	Benzo(a)anthracene	9600	E
218-01-9-----	Chrysene	9300	E
117-81-7-----	bis(2-Ethylhexyl)phthalate	920	B
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	11000	E
207-08-9-----	Benzo(k)fluoranthene	3800	E
50-32-8-----	Benzo(a)pyrene	6900	E
193-39-5-----	Indeno(1,2,3-cd)pyrene	7000	E
53-70-3-----	Dibenzo(a,h)anthracene	1900	
191-24-2-----	Benzo(g,h,i)perylene	6400	E

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS4

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5207

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.1

CONCENTRATION UNITS:

Number TICs found: 29

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.82	21000	ANJB
2.	UNKNOWN	4.90	710	J
3.	UNKNOWN	5.07	500	J
4.	UNKNOWN	5.13	310	AJ
5.	UNKNOWN	5.51	250	JB
6.	UNKNOWN	5.96	1800	AJB
7. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	6.81	250	NJ
8. 95-36-3	1,2,4-TRIMETHYLBENZENE	7.20	270	J
9. 95-13-6	INDENE	7.96	410	J
10.	UNKNOWN	9.46	160	J
11.	UNKNOWN	14.66	540	J
12. 7320-53-8	DIBENZOFURAN, 4-METHYL-	14.83	190	J
13.	UNKNOWN	15.42	640	J
14.	UNKNOWN	15.90	250	J
15. 486-25-9	9H-FLUOREN-9-ONE	15.99	470	J
16.	UNKNOWN	16.11	400	J
17. 132-65-0	DIBENZOTHIOPHENE	16.17	490	J
18. 85-02-9	BENZO [F] QUINOLINE	16.81	940	J
19. 613-12-7	ANTHRACENE, 2-METHYL-	17.42	820	J
20. 779-02-2	ANTHRACENE, 9-METHYL-	17.47	1200	J
21.	UNKNOWN	17.62	3500	J
22.	UNKNOWN	18.05	3300	J
23. 5737-13-3	CYCLOPENTA (DEF) PHENANTHRENON	18.68	2700	J
24.	UNKNOWN	19.14	2200	J
25. 243-42-5	BENZO [B] NAPHTHO [2,3-D] FURAN	19.42	930	J
26. 243-17-4	11H-BENZO [B] FLUORENE	19.98	7000	J
27. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	21.01	920	J
28. 239-35-0	BENZO [B] NAPHTHO [2,1-D] THIOPH	21.22	3800	J
29. 205-99-2	BENZ [E] ACEPHENANTHRYLENE	24.24	1100	J
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS4DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011DL

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5253

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/04/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	3600	U
111-44-4-----	bis(-2-Chloroethyl) Ether	3600	U
95-57-8-----	2-Chlorophenol	3600	U
541-73-1-----	1,3-Dichlorobenzene	3600	U
106-46-7-----	1,4-Dichlorobenzene	3600	U
95-50-1-----	1,2-Dichlorobenzene	3600	U
95-48-7-----	2-Methylphenol	3600	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3600	U
106-44-5-----	4-Methylphenol	3600	U
621-64-7-----	N-Nitroso-di-n-propylamine	3600	U
67-72-1-----	Hexachloroethane	3600	U
98-95-3-----	Nitrobenzene	3600	U
78-59-1-----	Isophorone	3600	U
88-75-5-----	2-Nitrophenol	3600	U
105-67-9-----	2,4-Dimethyphenol	3600	U
120-83-2-----	2,4-Dichlorophenol	3600	U
120-82-1-----	1,2,4-Trichlorobenzene	3600	U
91-20-3-----	Naphthalene	3600	U
106-47-8-----	4-Chloroaniline	3600	U
111-91-1-----	bis(2-Chloroethoxy) methane	3600	U
87-68-3-----	Hexachlorobutadiene	3600	U
59-50-7-----	4-Chloro-3-methylphenol	3600	U
91-57-6-----	2-Methylnaphthalene	3600	U
77-47-4-----	Hexachlorocyclopentadiene	3600	U
88-06-2-----	2,4,6-Trichlorophenol	3600	U
95-95-4-----	2,4,5-Trichlorophenol	8900	U
91-58-7-----	2-Chloronaphthalene	3600	U
88-74-4-----	2-Nitroaniline	8900	U
131-11-3-----	Dimethylphthalate	3600	U
208-96-8-----	Acenaphthylene	3600	U
606-20-2-----	2,6-Dinitrotoluene	3600	U
99-09-2-----	3-Nitroaniline	8900	U
83-32-9-----	Acenaphthene	560	DJ

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS4DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011DL

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5253

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/04/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.1

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	8900	U
100-02-7-----	4-Nitrophenol	8900	U
132-64-9-----	Dibenzofuran	3600	U
121-14-2-----	2,4-Dinitrotoluene	3600	U
84-66-2-----	Diethylphthalate	3600	U
7005-72-3-----	4-Chlorophenyl-phenylether	3600	U
86-73-7-----	Fluorene	500	DJ
100-01-6-----	4-Nitroaniline	8900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	8900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3600	U
101-55-3-----	4-Bromophenyl-phenylether	3600	U
118-74-1-----	Hexachlorobenzene	3600	U
87-86-5-----	Pentachlorophenol	8900	U
85-01-8-----	Phenanthrene	11000	D
120-12-7-----	Anthracene	2800	DJ
86-74-8-----	Carbazole	1400	DJ
84-74-2-----	Di-n-butylphthalate	3600	U
206-44-0-----	Fluoranthene	20000	D
129-00-0-----	Pyrene	25000	D
85-68-7-----	Butylbenzylphthalate	3600	U
91-94-1-----	3,3'-Dichlorobenzidine	3600	U
56-55-3-----	Benzo (a) anthracene	12000	D
218-01-9-----	Chrysene	11000	D
117-81-7-----	bis(2-Ethylhexyl)phthalate	1200	DJB
117-84-0-----	Di-n-octylphthalate	3600	U
205-99-2-----	Benzo (b) fluoranthene	18000	D
207-08-9-----	Benzo (k) fluoranthene	4300	D
50-32-8-----	Benzo (a) pyrene	8200	D
193-39-5-----	Indeno (1,2,3-cd) pyrene	3400	DJ
53-70-3-----	Dibenzo (a,h) anthracene	1100	DJ
191-24-2-----	Benzo (g,h,i) perylene	2800	DJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS4DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011DL

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5253

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/04/00

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 8.1

CONCENTRATION UNITS:

Number TICs found: 30

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALDOL CONDENSATE	4.23	7300	AJD
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.63	33000	ANJBD
3.	UNKNOWN	5.79	2500	AJBD
4.	UNKNOWN	9.77	1200	JD
5.	UNKNOWN ALKANE	15.26	1200	JD
6. 1730-37-6	9H-FLUORENE, 1-METHYL-	15.49	970	JD
7. 486-25-9	9H-FLUORENE-9-ONE	15.83	870	JD
8. 132-65-0	DIBENZOTHIOPHENE	16.00	1700	JD
9. 230-27-3	BENZO [H] QUINOLINE	16.43	1800	JD
10.	UNKNOWN	16.89	1100	JD
11. 613-12-7	ANTHRACENE, 2-METHYL-	17.24	2000	JD
12. 832-69-9	PHENANTHRENE, 1-METHYL-	17.30	2600	JD
13.	UNKNOWN	17.45	3300	JD
14. 613-12-7	ANTHRACENE, 2-METHYL-	17.51	3800	JD
15.	UNKNOWN	17.88	6000	JD
16. 7469-40-1	NAPHTHALENE, 1,2-DIHYDRO-4-P	18.38	1600	JD
17. 1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	18.43	1100	JD
18. 5737-13-3	CYCLOPENTA (DEF) PHENANTHRENON	18.51	2400	JD
19.	UNKNOWN	18.86	3000	JD
20.	UNKNOWN	18.95	910	JD
21.	UNKNOWN	19.24	990	JD
22. 206-49-5	ACENAPHTHO (1,2-B) PYRIDINE	19.44	1200	NJD
23. 2381-21-7	PYRENE, 1-METHYL-	19.60	1000	NJD
24. 243-17-4	11H-BENZO [B] FLUORENE	19.80	2200	JD
25.	UNKNOWN	19.94	740	JD
26. 2381-21-7	PYRENE, 1-METHYL-	20.01	8000	NJD
27. 82-05-3	7H-BENZ [DE] ANTHRACENE-7-ONE	20.83	1600	NJD
28. 25732-74-5	3,4-DIHYDROCYCLOPENTA (CD) PYR	21.12	1200	JD
29.	UNKNOWN	22.70	58000	JBD
30. 198-55-0	PERYLENE	24.05	6900	JD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS5

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570009

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5202

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	360	U
111-44-4-----	bis(-2-Chloroethyl) Ether	360	U
95-57-8-----	2-Chlorophenol	360	U
541-73-1-----	1,3-Dichlorobenzene	360	U
106-46-7-----	1,4-Dichlorobenzene	360	U
95-50-1-----	1,2-Dichlorobenzene	360	U
95-48-7-----	2-Methylphenol	360	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5-----	4-Methylphenol	360	U
621-64-7-----	N-Nitroso-di-n-propylamine	360	U
67-72-1-----	Hexachloroethane	360	U
98-95-3-----	Nitrobenzene	360	U
78-59-1-----	Isophorone	360	U
88-75-5-----	2-Nitrophenol	360	U
105-67-9-----	2,4-Dimethylphenol	360	U
120-83-2-----	2,4-Dichlorophenol	360	U
120-82-1-----	1,2,4-Trichlorobenzene	360	U
91-20-3-----	Naphthalene	360	U
106-47-8-----	4-Chloroaniline	360	U
111-91-1-----	bis(2-Chloroethoxy)methane	360	U
87-68-3-----	Hexachlorobutadiene	360	U
59-50-7-----	4-Chloro-3-methylphenol	360	U
91-57-6-----	2-Methylnaphthalene	360	U
77-47-4-----	Hexachlorocyclopentadiene	360	U
88-06-2-----	2,4,6-Trichlorophenol	360	U
95-95-4-----	2,4,5-Trichlorophenol	900	U
91-58-7-----	2-Chloronaphthalene	360	U
88-74-4-----	2-Nitroaniline	900	U
131-11-3-----	Dimethylphthalate	360	U
208-96-8-----	Acenaphthylene	360	U
606-20-2-----	2,6-Dinitrotoluene	360	U
99-09-2-----	3-Nitroaniline	900	U
83-32-9-----	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS5

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570009

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5202

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	900	U
100-02-7-----	4-Nitrophenol	900	U
132-64-9-----	Dibenzofuran	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	360	U
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	900	U
85-01-8-----	Phenanthrene	710	
120-12-7-----	Anthracene	64	J
86-74-8-----	Carbazole	78	J
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	1000	
129-00-0-----	Pyrene	1400	
85-68-7-----	Butylbenzylphthalate	44	J
91-94-1-----	3,3'-Dichlorobenzidine	360	U
56-55-3-----	Benzo(a)anthracene	660	
218-01-9-----	Chrysene	890	
117-81-7-----	bis(2-Ethylhexyl)phthalate	170	JB
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	980	
207-08-9-----	Benzo(k)fluoranthene	310	J
50-32-8-----	Benzo(a)pyrene	500	
193-39-5-----	Indeno(1,2,3-cd)pyrene	500	
53-70-3-----	Dibenzo(a,h)anthracene	130	J
191-24-2-----	Benzo(g,h,i)perylene	520	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS5

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570009

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5202

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.8

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

Number TICs found: 28

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.82	18000	ANJB
2.	UNKNOWN	4.90	280	JB
3.	UNKNOWN	5.95	1400	AJB
4.	UNKNOWN	6.68	230	JB
5. 124-18-5	DECANE	7.23	210	NJ
6.	UNKNOWN	8.72	220	J
7. 124-07-2	OCTANOIC ACID	9.51	330	J
8.	UNKNOWN	10.74	610	J
9. 85-44-9	PHTHALIC ANHYDRIDE	11.42	210	J
10. 544-63-8	TETRADECANOIC ACID	15.94	1100	NJ
11.	UNKNOWN	16.00	230	J
12. 1002-84-2	PENTADECANOIC ACID	16.81	340	NJ
13. 832-71-3	PHENANTHRENE, 3-METHYL-	17.41	210	J
14. 2531-84-2	PHENANTHRENE, 2-METHYL-	17.47	240	J
15. 57-10-3	HEXADECANOIC ACID	17.83	24000	J
16. 84-65-1	9,10-ANTHRACENEDIONE	18.05	540	J
17. 506-12-7	HEPTADECANOIC ACID	18.51	450	J
18. 17351-34-7	14-PENTADECENOIC ACID	19.13	1300	J
19. 57-11-4	OCTADECANOIC ACID	19.37	7300	J
20. 80-05-7	PHENOL, 4,4'-(1-METHYLETHYL)	19.48	850	J
21. 57-10-3	HEXADECANOIC ACID	20.76	220	J
22. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	21.00	150	J
23. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	21.42	510	J
24.	UNKNOWN	23.48	770	JB
25. 112-95-8	EICOSANE	25.45	730	J
26.	UNKNOWN	28.50	160	J
27.	UNKNOWN	29.34	270	J
28.	UNKNOWN	30.81	88	J
29.				
30.				

FORM I SV-TIC

00084

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS5RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570009RE

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5248

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	360	U
111-44-4-----	bis(-2-Chloroethyl) Ether	360	U
95-57-8-----	2-Chlorophenol	360	U
541-73-1-----	1,3-Dichlorobenzene	360	U
106-46-7-----	1,4-Dichlorobenzene	360	U
95-50-1-----	1,2-Dichlorobenzene	360	U
95-48-7-----	2-Methylphenol	360	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5-----	4-Methylphenol	360	U
621-64-7-----	N-Nitroso-di-n-propylamine	360	U
67-72-1-----	Hexachloroethane	360	U
98-95-3-----	Nitrobenzene	360	U
78-59-1-----	Isophorone	360	U
88-75-5-----	2-Nitrophenol	360	U
105-67-9-----	2,4-Dimethyphenol	360	U
120-83-2-----	2,4-Dichlorophenol	360	U
120-82-1-----	1,2,4-Trichlorobenzene	360	U
91-20-3-----	Naphthalene	58	J
106-47-8-----	4-Chloroaniline	360	U
111-91-1-----	bis(2-Chloroethoxy) methane	360	U
87-68-3-----	Hexachlorobutadiene	360	U
59-50-7-----	4-Chloro-3-methylphenol	360	U
91-57-6-----	2-Methylnaphthalene	360	U
77-47-4-----	Hexachlorocyclopentadiene	360	U
88-06-2-----	2,4,6-Trichlorophenol	360	U
95-95-4-----	2,4,5-Trichlorophenol	900	U
91-58-7-----	2-Chloronaphthalene	360	U
88-74-4-----	2-Nitroaniline	900	U
131-11-3-----	Dimethylphthalate	360	U
208-96-8-----	Acenaphthylene	42	J
606-20-2-----	2,6-Dinitrotoluene	360	U
99-09-2-----	3-Nitroaniline	900	U
83-32-9-----	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS5RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570009RE

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5248

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	900	U
100-02-7-----	4-Nitrophenol	900	U
132-64-9-----	Dibenzofuran	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	360	U
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	900	U
85-01-8-----	Phenanthrene	720	
120-12-7-----	Anthracene	72	J
86-74-8-----	Carbazole	83	J
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	1000	
129-00-0-----	Pyrene	1400	
85-68-7-----	Butylbenzylphthalate	44	J
91-94-1-----	3,3'-Dichlorobenzidine	360	U
56-55-3-----	Benzo(a)anthracene	660	
218-01-9-----	Chrysene	810	
117-81-7-----	bis(2-Ethylhexyl)phthalate	180	JB
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	1300	
207-08-9-----	Benzo(k)fluoranthene	490	
50-32-8-----	Benzo(a)pyrene	480	
193-39-5-----	Indeno(1,2,3-cd)pyrene	280	J
53-70-3-----	Dibenzo(a,h)anthracene	93	J
191-24-2-----	Benzo(g,h,i)perylene	260	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS5RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570009RE

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: S1B5248

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 30

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATE	4.29	3500	AJ
2.	UNKNOWN	4.35	310	J
3. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.73	16000	ANJB
4.	UNKNOWN	4.78	270	JB
5.	UNKNOWN	5.82	1500	AJB
6.	UNKNOWN	8.12	270	J
7. 124-19-6	NONANAL	8.57	270	J
8.	UNKNOWN	9.42	580	J
9.	UNKNOWN	10.67	720	J
10. 85-44-9	PHTHALIC ANHYDRIDE	11.27	330	J
11.	UNKNOWN	13.03	220	J
12. 143-07-7	DODECANOIC ACID	13.87	200	J
13. 544-63-8	TETRADECANOIC ACID	15.85	2100	J
14. 610-48-0	ANTHRACENE, 1-METHYL-	17.24	220	J
15. 613-12-7	ANTHRACENE, 2-METHYL-	17.31	190	J
16. 57-10-3	HEXADECANOIC ACID	17.86	30000	J
17. 506-12-7	HEPTADECANOIC ACID	18.43	800	J
18. 112-80-1	OLEIC ACID	19.06	3200	J
19. 57-11-4	OCTADECANOIC ACID	19.37	11000	J
20. 238-84-6	11H-BENZO [A] FLUORENE	19.79	280	J
21.	UNKNOWN	20.17	520	J
22.	UNKNOWN	20.35	600	J
23.	UNKNOWN	20.52	700	J
24. 544-63-8	TETRADECANOIC ACID	20.67	1000	J
25. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	20.86	420	J
26. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	21.28	1000	J
27. 544-63-8	TETRADECANOIC ACID	22.00	2700	J
28. 112-95-8	EICOSANE	25.27	4000	J
29.	UNKNOWN	27.45	240	J
30.	UNKNOWN	27.62	900	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5187

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----Phenol	100	J
111-44-4-----bis(-2-Chloroethyl) Ether	490	U
95-57-8-----2-Chlorophenol	490	U
541-73-1-----1,3-Dichlorobenzene	490	U
106-46-7-----1,4-Dichlorobenzene	490	U
95-50-1-----1,2-Dichlorobenzene	490	U
95-48-7-----2-Methylphenol	490	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	490	U
106-44-5-----4-Methylphenol	490	U
621-64-7-----N-Nitroso-di-n-propylamine	490	U
67-72-1-----Hexachloroethane	490	U
98-95-3-----Nitrobenzene	490	U
78-59-1-----Isophorone	490	U
88-75-5-----2-Nitrophenol	490	U
105-67-9-----2,4-Dimethylphenol	490	U
120-83-2-----2,4-Dichlorophenol	490	U
120-82-1-----1,2,4-Trichlorobenzene	490	U
91-20-3-----Naphthalene	1700	
106-47-8-----4-Chloroaniline	490	U
111-91-1-----bis(2-Chloroethoxy)methane	490	U
87-68-3-----Hexachlorobutadiene	490	U
59-50-7-----4-Chloro-3-methylphenol	490	U
91-57-6-----2-Methylnaphthalene	2600	
77-47-4-----Hexachlorocyclopentadiene	490	U
88-06-2-----2,4,6-Trichlorophenol	490	U
95-95-4-----2,4,5-Trichlorophenol	1200	U
91-58-7-----2-Chloronaphthalene	490	U
88-74-4-----2-Nitroaniline	1200	U
131-11-3-----Dimethylphthalate	490	U
208-96-8-----Acenaphthylene	490	U
606-20-2-----2,6-Dinitrotoluene	490	U
99-09-2-----3-Nitroaniline	1200	U
83-32-9-----Acenaphthene	490	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5187

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

51-28-5-----	2,4-Dinitrophenol	1200	U
100-02-7-----	4-Nitrophenol	1200	U
132-64-9-----	Dibenzofuran	490	U
121-14-2-----	2,4-Dinitrotoluene	490	U
84-66-2-----	Diethylphthalate	490	U
7005-72-3-----	4-Chlorophenyl-phenylether	490	U
86-73-7-----	Fluorene	490	U
100-01-6-----	4-Nitroaniline	1200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	490	U
101-55-3-----	4-Bromophenyl-phenylether	490	U
118-74-1-----	Hexachlorobenzene	490	U
87-86-5-----	Pentachlorophenol	1200	U
85-01-8-----	Phenanthrene	62	J
120-12-7-----	Anthracene	490	U
86-74-8-----	Carbazole	490	U
84-74-2-----	Di-n-butylphthalate	490	U
206-44-0-----	Fluoranthene	490	U
129-00-0-----	Pyrene	490	U
85-68-7-----	Butylbenzylphthalate	490	U
91-94-1-----	3,3'-Dichlorobenzidine	490	U
56-55-3-----	Benzo(a)anthracene	490	U
218-01-9-----	Chrysene	490	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	130	JB
117-84-0-----	Di-n-octylphthalate	490	U
205-99-2-----	Benzo(b)fluoranthene	490	U
207-08-9-----	Benzo(k)fluoranthene	490	U
50-32-8-----	Benzo(a)pyrene	490	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	490	U
53-70-3-----	Dibenzo(a,h)anthracene	490	U
191-24-2-----	Benzo(g,h,i)perylene	490	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: S1B5187

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 28

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.83	5500	ANJB
2. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	6.69	2600	NJ
3. 95-36-3	1,2,4-TRIMETHYLBENZENE	6.81	1400	NJ
4. 95-36-3	1,2,4-TRIMETHYLBENZENE	7.60	1000	NJ
5.	UNKNOWN	7.81	1400	J
6. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	8.09	1700	NJ
7. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	8.41	1200	NJ
8. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	8.49	1900	NJ
9. 1120-21-4	UNDECANE	8.65	2100	NJ
10.	UNKNOWN	9.19	1200	J
11. 2039-89-6	BENZENE, 2-ETHENYL-1,4-DIMET	9.40	2100	NJ
12.	UNKNOWN ALKANE	9.50	1200	J
13. 119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHY	9.58	1400	NJ
14.	UNKNOWN	9.91	2000	J
15. 112-40-3	DODECANE	9.97	3100	NJ
16. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	10.69	1300	NJ
17.	UNKNOWN ALKANE	10.84	1600	J
18. 1680-51-9	NAPHTHALENE, 1,2,3,4-TETRAHY	10.91	1400	NJ
19. 629-50-5	TRIDECANE	11.20	3000	NJ
20. 0-00-0	1,4-DIMETHYL-1,2,3,4-TETRAHY	11.57	1700	NJ
21.	UNKNOWN CYCLOALKANE	11.78	1900	J
22. 629-59-4	TETRADECANE	12.35	2400	NJ
23. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	12.78	1800	NJ
24.	UNKNOWN ALKANE	12.99	2300	J
25. 629-62-9	PENTADECANE	13.42	2700	NJ
26. 544-76-3	HEXADECANE	14.43	1200	NJ
27. 1921-70-6	PENTADECANE, 2,6,10,14-TETRA	15.43	2600	NJ
28.	UNKNOWN ALKANE	26.19	1500	J
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010RE

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S1B5386

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33

decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 9.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
108-95-2	Phenol	490 U
111-44-4	bis(-2-Chloroethyl) Ether	490 U
95-57-8	2-Chlorophenol	490 U
541-73-1	1,3-Dichlorobenzene	490 U
106-46-7	1,4-Dichlorobenzene	490 U
95-50-1	1,2-Dichlorobenzene	490 U
95-48-7	2-Methylphenol	490 U
108-60-1	2,2'-oxybis(1-Chloropropane)	490 U
106-44-5	4-Methylphenol	490 U
621-64-7	N-Nitroso-di-n-propylamine	490 U
67-72-1	Hexachloroethane	490 U
98-95-3	Nitrobenzene	490 U
78-59-1	Isophorone	490 U
88-75-5	2-Nitrophenol	490 U
105-67-9	2,4-Dimethylphenol	490 U
120-83-2	2,4-Dichlorophenol	490 U
120-82-1	1,2,4-Trichlorobenzene	490 U
91-20-3	Naphthalene	7200 E
106-47-8	4-Chloroaniline	490 U
111-91-1	bis(2-Chloroethoxy) methane	490 U
87-68-3	Hexachlorobutadiene	490 U
59-50-7	4-Chloro-3-methylphenol	490 U
91-57-6	2-Methylnaphthalene	14000 E
77-47-4	Hexachlorocyclopentadiene	490 U
88-06-2	2,4,6-Trichlorophenol	490 U
95-95-4	2,4,5-Trichlorophenol	1200 U
91-58-7	2-Chloronaphthalene	490 U
88-74-4	2-Nitroaniline	1200 U
131-11-3	Dimethylphthalate	490 U
208-96-8	Acenaphthylene	490 U
606-20-2	2,6-Dinitrotoluene	490 U
99-09-2	3-Nitroaniline	1200 U
83-32-9	Acenaphthene	490 U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010RE

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S1B5386

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500(uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	1200	U
100-02-7-----	4-Nitrophenol	1200	U
132-64-9-----	Dibenzofuran	490	U
121-14-2-----	2,4-Dinitrotoluene	490	U
84-66-2-----	Diethylphthalate	490	U
7005-72-3-----	4-Chlorophenyl-phenylether	490	U
86-73-7-----	Fluorene	490	U
100-01-6-----	4-Nitroaniline	1200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	490	U
101-55-3-----	4-Bromophenyl-phenylether	490	U
118-74-1-----	Hexachlorobenzene	490	U
87-86-5-----	Pentachlorophenol	1200	U
85-01-8-----	Phenanthrene	490	U
120-12-7-----	Anthracene	490	U
86-74-8-----	Carbazole	490	U
84-74-2-----	Di-n-butylphthalate	490	U
206-44-0-----	Fluoranthene	490	U
129-00-0-----	Pyrene	490	U
85-68-7-----	Butylbenzylphthalate	490	U
91-94-1-----	3,3'-Dichlorobenzidine	490	U
56-55-3-----	Benzo(a)anthracene	490	U
218-01-9-----	Chrysene	490	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	200	J
117-84-0-----	Di-n-octylphthalate	490	U
205-99-2-----	Benzo(b)fluoranthene	490	U
207-08-9-----	Benzo(k)fluoranthene	490	U
50-32-8-----	Benzo(a)pyrene	490	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	490	U
53-70-3-----	Dibenzo(a,h)anthracene	490	U
191-24-2-----	Benzo(g,h,i)perylene	490	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS2RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010RE

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S1B5386

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 27

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.28	13000	ANJB
2. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	6.15	12000	NJ
3. 95-36-3	1,2,4-TRIMETHYLBENZENE	6.67	17000	NJ
4. 105-05-5	BENZENE, 1,4-DIETHYL-	7.55	7800	NJ
5. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	7.94	6900	NJ
6. 1120-21-4	UNDECANE	8.12	7900	NJ
7. 874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	8.43	6200	NJ
8. 2039-89-6	BENZENE, 2-ETHENYL-1,4-DIMET	8.71	6800	NJ
9.	UNKNOWN	8.85	7000	J
10.	UNKNOWN	9.02	8300	J
11.	UNKNOWN	9.44	9600	J
12.	UNKNOWN ALKANE	10.36	17000	J
13. 629-50-5	TRIDECANE	10.76	94000	NJ
14.	UNKNOWN ALKANE	11.55	85000	J
15. 629-59-4	TETRADECANE	11.97	240000	NJ
16. 629-62-9	PENTADECANE	13.07	180000	NJ
17. 544-76-3	HEXADECANE	14.08	120000	NJ
18. 629-78-7	HEPTADECANE	15.05	81000	NJ
19. 593-45-3	OCTADECANE	15.93	26000	NJ
20. 629-62-9	PENTADECANE	17.58	12000	NJ
21.	UNKNOWN PAH	17.83	6000	J
22.	UNKNOWN ALKANE	18.10	6900	J
23. 629-94-7	HENEICOSANE	18.35	13000	NJ
24. 629-78-7	HEPTADECANE	19.08	22000	NJ
25. 638-67-5	TRICOSANE	19.79	13000	NJ
26. 629-97-0	DOCOSANE	20.47	6000	NJ
27. 638-67-5	TRICOSANE	22.59	14000	NJ
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2REDL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010REDL

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S1B5392

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 9.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	3900	U
111-44-4-----	bis(-2-Chloroethyl) Ether	3900	U
95-57-8-----	2-Chlorophenol	3900	U
541-73-1-----	1,3-Dichlorobenzene	3900	U
106-46-7-----	1,4-Dichlorobenzene	3900	U
95-50-1-----	1,2-Dichlorobenzene	3900	U
95-48-7-----	2-Methylphenol	3900	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3900	U
106-44-5-----	4-Methylphenol	3900	U
621-64-7-----	N-Nitroso-di-n-propylamine	3900	U
67-72-1-----	Hexachloroethane	3900	U
98-95-3-----	Nitrobenzene	3900	U
78-59-1-----	Isophorone	3900	U
88-75-5-----	2-Nitrophenol	3900	U
105-67-9-----	2,4-Dimethyphenol	3900	U
120-83-2-----	2,4-Dichlorophenol	3900	U
120-82-1-----	1,2,4-Trichlorobenzene	3900	U
91-20-3-----	Naphthalene	7600	D
106-47-8-----	4-Chloroaniline	3900	U
111-91-1-----	bis(2-Chloroethoxy) methane	3900	U
87-68-3-----	Hexachlorobutadiene	3900	U
59-50-7-----	4-Chloro-3-methylphenol	3900	U
91-57-6-----	2-Methylnaphthalene	18000	D
77-47-4-----	Hexachlorocyclopentadiene	3900	U
88-06-2-----	2,4,6-Trichlorophenol	3900	U
95-95-4-----	2,4,5-Trichlorophenol	9800	U
91-58-7-----	2-Chloronaphthalene	3900	U
88-74-4-----	2-Nitroaniline	9800	U
131-11-3-----	Dimethylphthalate	3900	U
208-96-8-----	Acenaphthylene	3900	U
606-20-2-----	2,6-Dinitrotoluene	3900	U
99-09-2-----	3-Nitroaniline	9800	U
83-32-9-----	Acenaphthene	3900	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS2REDL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010REDL

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S1B5392

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 9.5

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
51-28-5-----	2,4-Dinitrophenol	9800	U
100-02-7-----	4-Nitrophenol	9800	U
132-64-9-----	Dibenzofuran	3900	U
121-14-2-----	2,4-Dinitrotoluene	3900	U
84-66-2-----	Diethylphthalate	3900	U
7005-72-3-----	4-Chlorophenyl-phenylether	3900	U
86-73-7-----	Fluorene	3900	U
100-01-6-----	4-Nitroaniline	9800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	9800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	6500	D
101-55-3-----	4-Bromophenyl-phenylether	3900	U
118-74-1-----	Hexachlorobenzene	3900	U
87-86-5-----	Pentachlorophenol	9800	U
85-01-8-----	Phenanthrene	3200	DJ
120-12-7-----	Anthracene	3900	U
86-74-8-----	Carbazole	3900	U
84-74-2-----	Di-n-butylphthalate	3900	U
206-44-0-----	Fluoranthene	3900	U
129-00-0-----	Pyrene	450	DJ
85-68-7-----	Butylbenzylphthalate	3900	U
91-94-1-----	3,3'-Dichlorobenzidine	3900	U
56-55-3-----	Benzo(a)anthracene	3900	U
218-01-9-----	Chrysene	3900	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	3900	U
117-84-0-----	Di-n-octylphthalate	3900	U
205-99-2-----	Benzo(b)fluoranthene	3900	U
207-08-9-----	Benzo(k)fluoranthene	3900	U
50-32-8-----	Benzo(a)pyrene	3900	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	3900	U
53-70-3-----	Dibenzo(a,h)anthracene	3900	U
191-24-2-----	Benzo(g,h,i)perylene	3900	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GSS2REDL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010REDL

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S1B5392

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 33

decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y

pH: 9.5

CONCENTRATION UNITS:

Number TICs found: 30

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.73	22000	NJD
2.	UNKNOWN	10.30	8800	JD
3. 629-50-5	TRIDECANE	10.66	19000	JD
4.	UNKNOWN	11.22	8700	JD
5.	UNKNOWN	11.39	6800	JD
6. 3891-98-3	DODECANE, 2,6,10-TRIMETHYL-	11.52	10000	JD
7. 629-59-4	TETRADECANE	11.82	34000	JD
8. 1127-76-0	NAPHTHALENE, 1-ETHYL-	11.88	7600	JD
9. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	12.16	12000	JD
10. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	12.21	12000	JD
11.	UNKNOWN	12.32	8300	JD
12. 571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	12.39	13000	JD
13.	UNKNOWN	12.46	24000	JD
14.	UNKNOWN	12.66	8100	JD
15. 629-62-9	PENTADECANE	12.91	45000	JD
16. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	13.08	9400	JD
17. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	13.36	10000	JD
18.	UNKNOWN	13.53	22000	JD
19. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	13.65	6600	JD
20.	UNKNOWN	14.03	12000	JD
21. 6418-43-5	HEXADECANE, 3-METHYL-	14.35	6000	JD
22.	UNKNOWN	14.51	2900	JD
23. 629-78-7	HEPTADECANE	14.89	17000	JD
24. 613-33-2	4,4'-DIMETHYLBIPHENYL	15.10	2800	JD
25. 629-59-4	TETRADECANE	15.25	3800	JD
26. 629-92-5	NONADECANE	16.66	7200	JD
27. 593-45-3	OCTADECANE	17.48	5500	JD
28. 629-94-7	HENEICOSANE	18.27	4200	JD
29. 593-45-3	OCTADECANE	18.54	14000	JD
30. 629-97-0	DOCOSANE	19.02	34000	JD

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS5

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570009

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E4A0868F

% Moisture: 10 decanted: (Y/N) N

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/06/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----alpha-BHC	1.9	U
319-85-7-----beta-BHC	1.9	U
319-86-8-----delta-BHC	1.9	U
58-89-9-----gamma-BHC (Lindane)	1.9	U
76-44-8-----Heptachlor	1.9	U
309-00-2-----Aldrin	1.9	U
1024-57-3-----Heptachlor epoxide	1.9	U
959-98-8-----Endosulfan I	1.9	U
60-57-1-----Dieldrin	3.6	U
72-55-9-----4,4'-DDE	9.0	
72-20-8-----Endrin	3.6	U
33213-65-9-----Endosulfan II	9.2	P
72-54-8-----4,4'-DDD	3.6	U
1031-07-8-----Endosulfan sulfate	3.6	U
50-29-3-----4,4'-DDT	57	P
72-43-5-----Methoxychlor	19	U
53494-70-5-----Endrin ketone	7.2	P
7421-93-4-----Endrin aldehyde	3.6	U
5103-71-9-----alpha-Chlordane	6.3	P
5103-74-2-----gamma-Chlordane	15	
8001-35-2-----Toxaphene	190	U
12674-11-2-----Aroclor-1016	36	U
11104-28-2-----Aroclor-1221	74	U
11141-16-5-----Aroclor-1232	36	U
53469-21-9-----Aroclor-1242	36	U
12672-29-6-----Aroclor-1248	36	U
11097-69-1-----Aroclor-1254	150	P
11096-82-5-----Aroclor-1260	36	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70570

Matrix: (soil/water) SOIL Lab Sample ID: 70570011

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E4A0870F

% Moisture: 9 decanted: (Y/N) N Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/06/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	1.8	U
319-85-7-----	beta-BHC	1.8	U
319-86-8-----	delta-BHC	1.8	U
58-89-9-----	gamma-BHC (Lindane)	1.8	U
76-44-8-----	Heptachlor	1.8	U
309-00-2-----	Aldrin	1.8	U
1024-57-3-----	Heptachlor epoxide	1.8	U
959-98-8-----	Endosulfan I	1.8	U
60-57-1-----	Dieldrin	3.6	U
72-55-9-----	4,4'-DDE	25	P
72-20-8-----	Endrin	16	P
33213-65-9-----	Endosulfan II	38	P
72-54-8-----	4,4'-DDD	12	P
1031-07-8-----	Endosulfan sulfate	3.6	U
50-29-3-----	4,4'-DDT	3.6	U
72-43-5-----	Methoxychlor	36	P
53494-70-5-----	Endrin ketone	36	
7421-93-4-----	Endrin aldehyde	3.6	U
5103-71-9-----	alpha-Chlordane	21	P
5103-74-2-----	gamma-Chlordane	48	EP
8001-35-2-----	Toxaphene	180	U
12674-11-2-----	Aroclor-1016	36	U
11104-28-2-----	Aroclor-1221	72	U
11141-16-5-----	Aroclor-1232	36	U
53469-21-9-----	Aroclor-1242	36	U
12672-29-6-----	Aroclor-1248	36	U
11097-69-1-----	Aroclor-1254	1100	
11096-82-5-----	Aroclor-1260	36	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS4DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570011DL

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E4A0946F

% Moisture: 9 decanted: (Y/N) N

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 05/09/00

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.1

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	18	U
319-85-7-----	beta-BHC	18	U
319-86-8-----	delta-BHC	18	U
58-89-9-----	gamma-BHC (Lindane)	18	U
76-44-8-----	Heptachlor	18	U
309-00-2-----	Aldrin	18	U
1024-57-3-----	Heptachlor epoxide	18	U
959-98-8-----	Endosulfan I	18	U
60-57-1-----	Dieldrin	36	U
72-55-9-----	4,4'-DDE	36	U
72-20-8-----	Endrin	36	U
33213-65-9-----	Endosulfan II	40	DP
72-54-8-----	4,4'-DDD	36	U
1031-07-8-----	Endosulfan sulfate	36	U
50-29-3-----	4,4'-DDT	36	U
72-43-5-----	Methoxychlor	180	U
53494-70-5-----	Endrin ketone	36	U
7421-93-4-----	Endrin aldehyde	36	U
5103-71-9-----	alpha-Chlordane	25	DP
5103-74-2-----	gamma-Chlordane	65	DP
8001-35-2-----	Toxaphene	1800	U
12674-11-2-----	Aroclor-1016	360	U
11104-28-2-----	Aroclor-1221	720	U
11141-16-5-----	Aroclor-1232	360	U
53469-21-9-----	Aroclor-1242	360	U
12672-29-6-----	Aroclor-1248	360	U
11097-69-1-----	Aroclor-1254	1300	D
11096-82-5-----	Aroclor-1260	360	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS3

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: E4A0865F

% Moisture: 8 decanted: (Y/N) N

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 05/06/00

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	1.8	U
319-85-7-----	beta-BHC	1.8	U
319-86-8-----	delta-BHC	1.8	U
58-89-9-----	gamma-BHC (Lindane)	2.9	P
76-44-8-----	Heptachlor	15	
309-00-2-----	Aldrin	17	P
1024-57-3-----	Heptachlor epoxide	1.8	U
959-98-8-----	Endosulfan I	1.8	U
60-57-1-----	Dieldrin	33	P
72-55-9-----	4,4'-DDE	8.0	P
72-20-8-----	Endrin	3.5	U
33213-65-9-----	Endosulfan II	130	EP
72-54-8-----	4,4'-DDD	22	P
1031-07-8-----	Endosulfan sulfate	3.5	U
50-29-3-----	4,4'-DDT	20	P
72-43-5-----	Methoxychlor	18	U
53494-70-5-----	Endrin ketone	15	P
7421-93-4-----	Endrin aldehyde	3.5	U
5103-71-9-----	alpha-Chlordane	14	P
5103-74-2-----	gamma-Chlordane	27	P
8001-35-2-----	Toxaphene	180	U
12674-11-2-----	Aroclor-1016	35	U
11104-28-2-----	Aroclor-1221	71	U
11141-16-5-----	Aroclor-1232	35	U
53469-21-9-----	Aroclor-1242	35	U
12672-29-6-----	Aroclor-1248	35	U
11097-69-1-----	Aroclor-1254	430	P
11096-82-5-----	Aroclor-1260	35	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GSS3DL

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570001DL

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: E4A0945F

% Moisture: 8 decanted: (Y/N) N

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/08/00

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.0

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	18	U
319-85-7-----	beta-BHC	18	U
319-86-8-----	delta-BHC	18	U
58-89-9-----	gamma-BHC (Lindane)	18	U
76-44-8-----	Heptachlor	18	U
309-00-2-----	Aldrin	18	U
1024-57-3-----	Heptachlor epoxide	18	U
959-98-8-----	Endosulfan I	18	U
60-57-1-----	Dieldrin	35	U
72-55-9-----	4,4'-DDE	35	U
72-20-8-----	Endrin	35	U
33213-65-9-----	Endosulfan II	170	DP
72-54-8-----	4,4'-DDD	39	D
1031-07-8-----	Endosulfan sulfate	35	U
50-29-3-----	4,4'-DDT	35	U
72-43-5-----	Methoxychlor	180	U
53494-70-5-----	Endrin ketone	35	U
7421-93-4-----	Endrin aldehyde	35	U
5103-71-9-----	alpha-Chlordane	19	DP
5103-74-2-----	gamma-Chlordane	33	DP
8001-35-2-----	Toxaphene	1800	U
12674-11-2-----	Aroclor-1016	350	U
11104-28-2-----	Aroclor-1221	710	U
11141-16-5-----	Aroclor-1232	350	U
53469-21-9-----	Aroclor-1242	350	U
12672-29-6-----	Aroclor-1248	350	U
11097-69-1-----	Aroclor-1254	520	DP
11096-82-5-----	Aroclor-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

GSS2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570010

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E4A0869F

% Moisture: 33 decanted: (Y/N) N

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/06/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 9.5

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	2.5	U
319-85-7-----	beta-BHC	2.5	U
319-86-8-----	delta-BHC	2.5	U
58-89-9-----	gamma-BHC (Lindane)	2.5	U
76-44-8-----	Heptachlor	2.5	U
309-00-2-----	Aldrin	2.5	U
1024-57-3-----	Heptachlor epoxide	2.5	U
959-98-8-----	Endosulfan I	2.5	U
60-57-1-----	Dieldrin	4.9	U
72-55-9-----	4,4'-DDE	4.9	U
72-20-8-----	Endrin	4.9	U
33213-65-9-----	Endosulfan II	4.9	U
72-54-8-----	4,4'-DDD	4.9	U
1031-07-8-----	Endosulfan sulfate	4.9	U
50-29-3-----	4,4'-DDT	4.9	U
72-43-5-----	Methoxychlor	25	U
53494-70-5-----	Endrin ketone	4.9	U
7421-93-4-----	Endrin aldehyde	4.9	U
5103-71-9-----	alpha-Chlordane	2.5	U
5103-74-2-----	gamma-Chlordane	2.5	U
8001-35-2-----	Toxaphene	250	U
12674-11-2-----	Aroclor-1016	49	U
11104-28-2-----	Aroclor-1221	100	U
11141-16-5-----	Aroclor-1232	49	U
53469-21-9-----	Aroclor-1242	49	U
12672-29-6-----	Aroclor-1248	49	U
11097-69-1-----	Aroclor-1254	49	U
11096-82-5-----	Aroclor-1260	49	U

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GSS2

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70570

Matrix (soil/water): SOIL Lab Sample ID: 70570010

Level (low/med): MED Date Received: 04/14/00

% Solids: 61.0

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5910		E	P
7440-36-0	Antimony	16.6	B		P
7440-38-2	Arsenic	3380			P
7440-39-3	Barium	1220			P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	4.6			P
7440-70-2	Calcium	58600		E	P
7440-47-3	Chromium	553			P
7440-48-4	Cobalt	45.2		E	P
7440-50-8	Copper	4310		E	P
7439-89-6	Iron	115000			P
7439-92-1	Lead	1390		E	P
7439-95-4	Magnesium	8070		E	P
7439-96-5	Manganese	1810			P
7439-97-6	Mercury	0.15			CV
7440-02-0	Nickel	107		E	P
7440-09-7	Potassium	5130			P
7782-49-2	Selenium	4.7			P
7440-22-4	Silver	9.6			P
7440-23-5	Sodium	5680		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	37.3			P
7440-66-6	Zinc	2350		E	P
56-12-5	Cyanide	0.56			C

Color Before: BLACK Clarity Before: Texture: MED

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GSS5

Lab Name: MITKEM_CORPORATION _____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570__

Matrix (soil/water): SOIL _____ Lab Sample ID: 70570009 _____

Level (low/med): MED _____ Date Received: 04/14/00 _____

% Solids: 90.0 _____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	226		E	P
7440-36-0	Antimony	15.6			P
7440-38-2	Arsenic	15.1			P
7440-39-3	Barium	63.5			P
7440-41-7	Beryllium	0.059	U		P
7440-43-9	Cadmium	17.1			P
7440-70-2	Calcium	12500		E	P
7440-47-3	Chromium	674			P
7440-48-4	Cobalt	42.1		E	P
7440-50-8	Copper	122		E	P
7439-89-6	Iron	525600 - 2630000			P
7439-92-1	Lead	7590 - 6450		E	P
7439-95-4	Magnesium	204	B	E	P
7439-96-5	Manganese	2600 - 13000			P
7439-97-6	Mercury	0.051	U		CV
7440-02-0	Nickel	98.5		E	P
7440-09-7	Potassium	85.7	B		P
7782-49-2	Selenium	20.8			P
7440-22-4	Silver	1.6	U		P
7440-23-5	Sodium	5400		E	P
7440-28-0	Thallium	0.98	U		P
7440-62-2	Vanadium	0.59	U		P
7440-66-6	Zinc	3250		E	P
56-12-5	Cyanide	0.41			C

Color Before: BROWN/RED Clarity Before: _____ Texture: MED__

Color After: YELLOW__ Clarity After: CLEAR__ Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GSS4

Lab Name: MITKEM_CORPORATION _____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570__

Matrix (soil/water): SOIL _____ Lab Sample ID: 70570011 _____

Level (low/med): MED _____ Date Received: 04/14/00 _____

% Solids: 89.0 _____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1480		E	P
7440-36-0	Antimony	4.9	B		P
7440-38-2	Arsenic	26.2			P
7440-39-3	Barium	83.5			P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	4.1			P
7440-70-2	Calcium	12200		E	P
7440-47-3	Chromium	101			P
7440-48-4	Cobalt	13.4		E	P
7440-50-8	Copper	450		E	P
7439-89-6	Iron	57200			P
7439-92-1	Lead	740		E	P
7439-95-4	Magnesium	4890		E	P
7439-96-5	Manganese	441			P
7439-97-6	Mercury	0.15			CV
7440-02-0	Nickel	82.1		E	P
7440-09-7	Potassium	179	B		P
7782-49-2	Selenium	4.5			P
7440-22-4	Silver	3.3			P
7440-23-5	Sodium	1960		E	P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	14.5			P
7440-66-6	Zinc	1070		E	P
56-12-5	Cyanide	0.28	B		C

Color Before: BRWON _____ Clarity Before: _____ Texture: MED _____

Color After: YELLOW _____ Clarity After: CLEAR _____ Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GSS3

Lab Name: MITKEM_CORPORATION _____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570__

Matrix (soil/water): SOIL _____ Lab Sample ID: 70570001__

Level (low/med): MED _____ Date Received: 04/14/00__

% Solids: 88.0__

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1510		E	P
7440-36-0	Antimony	11.3			P
7440-38-2	Arsenic	94.5			P
7440-39-3	Barium	208			P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	13.2			P
7440-70-2	Calcium	24900		E	P
7440-47-3	Chromium	168			P
7440-48-4	Cobalt	16.8		E	P
7440-50-8	Copper	10000		E	P
7439-89-6	Iron	115000			P
7439-92-1	Lead	2730		E	P
7439-95-4	Magnesium	9990		E	P
7439-96-5	Manganese	351			P
7439-97-6	Mercury	0.19			CV
7440-02-0	Nickel	90.6		E	P
7440-09-7	Potassium	202	B		P
7782-49-2	Selenium	6.5			P
7440-22-4	Silver	4.9			P
7440-23-5	Sodium	5360		E	P
7440-28-0	Thallium	1.3	B		P
7440-62-2	Vanadium	20.9			P
7440-66-6	Zinc	3250		E	P
56-12-5	Cyanide	0.50			C

Color Before: BLACK__ Clarity Before: _____ Texture: FINE__

Color After: YELLOW__ Clarity After: CLEAR__ Artifacts: _____

Comments:

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564015

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: V6A3212

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. 7

Date Analyzed: 04/16/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.13	15	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3251

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 12

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	4	JB
67-64-1	-----Acetone	4	JB
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (Total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (Total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3251

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 12

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____
16. _____	_____	_____	_____	_____
17. _____	_____	_____	_____	_____
18. _____	_____	_____	_____	_____
19. _____	_____	_____	_____	_____
20. _____	_____	_____	_____	_____
21. _____	_____	_____	_____	_____
22. _____	_____	_____	_____	_____
23. _____	_____	_____	_____	_____
24. _____	_____	_____	_____	_____
25. _____	_____	_____	_____	_____
26. _____	_____	_____	_____	_____
27. _____	_____	_____	_____	_____
28. _____	_____	_____	_____	_____
29. _____	_____	_____	_____	_____
30. _____	_____	_____	_____	_____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

GP546

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570008

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3252

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 6

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (mL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
74-87-3	-----Chloromethane	11	U	
74-83-9	-----Bromomethane	11	U	
75-01-4	-----Vinyl Chloride	11	U	
75-00-3	-----Chloroethane	11	U	
75-09-2	-----Methylene Chloride	5	JB	
67-64-1	-----Acetone	6	JB	
75-15-0	-----Carbon Disulfide	11	U	
75-35-4	-----1,1-Dichloroethene	11	U	
75-34-3	-----1,1-Dichloroethane	11	U	
540-59-0	-----1,2-Dichloroethene (Total)	11	U	
67-66-3	-----Chloroform	11	U	
107-06-2	-----1,2-Dichloroethane	11	U	
78-93-3	-----2-Butanone	11	U	
71-55-6	-----1,1,1-Trichloroethane	11	U	
56-23-5	-----Carbon Tetrachloride	11	U	
75-27-4	-----Bromodichloromethane	11	U	
78-87-5	-----1,2-Dichloropropane	11	U	
10061-01-5	-----cis-1,3-Dichloropropene	11	U	
79-01-6	-----Trichloroethene	11	U	
124-48-1	-----Dibromochloromethane	11	U	
79-00-5	-----1,1,2-Trichloroethane	11	U	
71-43-2	-----Benzene	11	U	
10061-02-6	-----trans-1,3-Dichloropropene	11	U	
75-25-2	-----Bromoform	11	U	
108-10-1	-----4-Methyl-2-Pentanone	11	U	
591-78-6	-----2-Hexanone	11	U	
127-18-4	-----Tetrachloroethene	11	U	
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U	
108-88-3	-----Toluene	2	J	
108-90-7	-----Chlorobenzene	11	U	
100-41-4	-----Ethylbenzene	11	U	
100-42-5	-----Styrene	11	U	
1330-20-7	-----Xylene (Total)	2	J	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP546

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570008

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V6A3252

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. 6

Date Analyzed: 04/17/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	14.24	97	J
2.				
3.				
4.				
5.				
6.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. /

GP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564015

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S1B5189

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	360	U
111-44-4-----	bis(-2-Chloroethyl) Ether	360	U
95-57-8-----	2-Chlorophenol	360	U
541-73-1-----	1,3-Dichlorobenzene	360	U
106-46-7-----	1,4-Dichlorobenzene	360	U
95-50-1-----	1,2-Dichlorobenzene	360	U
95-48-7-----	2-Methylphenol	360	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5-----	4-Methylphenol	360	U
621-64-7-----	N-Nitroso-di-n-propylamine	360	U
67-72-1-----	Hexachloroethane	360	U
98-95-3-----	Nitrobenzene	360	U
78-59-1-----	Isophorone	360	U
88-75-5-----	2-Nitrophenol	360	U
105-67-9-----	2,4-Dimethylphenol	360	U
120-83-2-----	2,4-Dichlorophenol	360	U
120-82-1-----	1,2,4-Trichlorobenzene	360	U
91-20-3-----	Naphthalene	360	U
106-47-8-----	4-Chloroaniline	360	U
111-91-1-----	bis(2-Chloroethoxy)methane	360	U
87-68-3-----	Hexachlorobutadiene	360	U
59-50-7-----	4-Chloro-3-methylphenol	360	U
91-57-6-----	2-Methylnaphthalene	360	U
77-47-4-----	Hexachlorocyclopentadiene	360	U
88-06-2-----	2,4,6-Trichlorophenol	360	U
95-95-4-----	2,4,5-Trichlorophenol	890	U
91-58-7-----	2-Chloronaphthalene	360	U
88-74-4-----	2-Nitroaniline	890	U
131-11-3-----	Dimethylphthalate	360	U
208-96-8-----	Acenaphthylene	360	U
606-20-2-----	2,6-Dinitrotoluene	360	U
99-09-2-----	3-Nitroaniline	890	U
83-32-9-----	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564015

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S1B5189

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	890	U
100-02-7-----	4-Nitrophenol	890	U
132-64-9-----	Dibenzofuran	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine (1)	360	U
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
86-74-8-----	Carbazole	360	U
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
85-68-7-----	Butylbenzylphthalate	360	U
91-94-1-----	3,3'-Dichlorobenzidine	360	U
56-55-3-----	Benzo (a) anthracene	360	U
218-01-9-----	Chrysene	360	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	310	JB
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo (b) fluoranthene	360	U
207-08-9-----	Benzo (k) fluoranthene	360	U
50-32-8-----	Benzo (a) pyrene	360	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	360	U
53-70-3-----	Dibenzo (a,h) anthracene	360	U
191-24-2-----	Benzo (g,h,i) perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP157

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) SOIL

Lab Sample ID: 70564015

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S1B5189

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.80	15000	ANJB
2.	UNKNOWN	5.95	1200	AJB
3.	UNKNOWN	6.22	170	JB
4.	UNKNOWN	7.33	97	JB
5.	UNKNOWN	23.10	77	JB
6.	UNKNOWN	23.46	560	JB
7.	UNKNOWN	23.55	110	JB
8.	UNKNOWN	24.14	86	JB
9.	UNKNOWN	24.74	73	J
10.	UNKNOWN	25.05	100	J
11.	UNKNOWN	25.45	290	J
12.	UNKNOWN	27.10	130	J
13.				
14.				
15.				
16.				
17.				
18.				
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30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5201

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(-2-Chloroethyl) Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-di-n-propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethyphenol	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
111-91-1-----	bis(2-Chloroethoxy) methane	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	950	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	950	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	950	U
83-32-9-----	Acenaphthene	50	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5201

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

51-28-5-----	2,4-Dinitrophenol	950	U
100-02-7-----	4-Nitrophenol	950	U
132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	45	J
100-01-6-----	4-Nitroaniline	950	U
534-52-1-----	4,6-Dinitro-2-methylphenol	950	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	950	U
85-01-8-----	Phenanthrene	480	
120-12-7-----	Anthracene	80	J
86-74-8-----	Carbazole	44	J
84-74-2-----	Di-n-butylphthalate	380	U
206-44-0-----	Fluoranthene	510	
129-00-0-----	Pyrene	700	
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo (a) anthracene	260	J
218-01-9-----	Chrysene	270	J
117-81-7-----	bis (2-Ethylhexyl) phthalate	610	B
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo (b) fluoranthene	320	J
207-08-9-----	Benzo (k) fluoranthene	130	J
50-32-8-----	Benzo (a) pyrene	170	J
193-39-5-----	Indeno (1,2,3-cd) pyrene	220	J
53-70-3-----	Dibenzo (a,h) anthracene	380	U
191-24-2-----	Benzo (g,h,i) perylene	220	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5201

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 27

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.82	21000	ANJB
2.	UNKNOWN ALKANE	4.90	480	J
3.	UNKNOWN	5.87	240	JB
4.	UNKNOWN	5.95	1700	AJB
5.	UNKNOWN	6.06	440	JB
6.	UNKNOWN	6.22	210	JB
7.	UNKNOWN	9.56	220	J
8. 629-59-4	TETRADECANE	12.32	240	J
9.	UNKNOWN	12.98	250	J
10. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	14.06	180	J
11. 544-76-3	HEXADECANE	14.42	180	J
12.	UNKNOWN	14.62	180	J
13.	UNKNOWN	14.87	270	J
14. 6975-98-0	DECANE, 2-METHYL-	15.42	670	NJ
15.	UNKNOWN	16.00	290	J
16.	UNKNOWN	16.30	200	J
17.	UNKNOWN	16.78	280	J
18.	UNKNOWN	17.08	160	J
19. 629-92-5	NONADECANE	17.18	180	J
20. 610-48-0	ANTHRACENE, 1-METHYL-	17.47	490	NJ
21. 112-95-8	EICOSANE	18.01	540	NJ
22.	UNKNOWN ALKANE	18.32	630	J
23. 629-92-5	NONADECANE	18.59	250	J
24. 629-94-7	HENEICOSANE	20.55	150	J
25. 646-31-1	TETRACOSANE	21.67	1200	NJ
26. 544-76-3	HEXADECANE	22.54	2400	NJ
27. 593-49-7	HEPTACOSANE	23.15	2500	NJ
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP446RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005RE

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S1B5388

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(-2-Chloroethyl) Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-di-n-propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethyphenol	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
111-91-1-----	bis(2-Chloroethoxy) methane	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	940	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	940	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	940	U
83-32-9-----	Acenaphthene	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP446RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005RE

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S1B5388

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	940	U
100-02-7-----	4-Nitrophenol	940	U
132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	940	U
534-52-1-----	4,6-Dinitro-2-methylphenol	940	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	940	U
85-01-8-----	Phenanthrene	380	U
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-butylphthalate	380	U
206-44-0-----	Fluoranthene	150	J
129-00-0-----	Pyrene	350	J
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo (a) anthracene	130	J
218-01-9-----	Chrysene	120	J
117-81-7-----	bis (2-Ethylhexyl) phthalate	630	
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo (b) fluoranthene	180	J
207-08-9-----	Benzo (k) fluoranthene	62	J
50-32-8-----	Benzo (a) pyrene	100	J
193-39-5-----	Indeno (1,2,3-cd) pyrene	380	U
53-70-3-----	Dibenzo (a,h) anthracene	380	U
191-24-2-----	Benzo (g,h,i) perylene	380	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP446RE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005RE

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S1B5388

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 05/04/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/10/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 30

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.51	670	J
2.	UNKNOWN	3.87	1000	JB
3.	UNKNOWN	3.99	620	JB
4. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.28	5500	NJB
5.	UNKNOWN	5.76	710	JB
6. 629-59-4	TETRADECANE	11.78	570	NJ
7.	UNKNOWN	12.35	270	J
8. 544-76-3	HEXADECANE	12.43	720	NJ
9.	UNKNOWN	12.62	300	J
10. 629-62-9	PENTADECANE	12.85	720	NJ
11.	UNKNOWN	13.38	270	J
12. 629-99-2	PENTACOSANE	13.50	240	NJ
13. 544-76-3	HEXADECANE	13.87	660	NJ
14.	UNKNOWN	13.94	640	J
15.	UNKNOWN	14.32	240	J
16.	UNKNOWN	14.49	150	J
17. 529-05-5	AZULENE, 7-ETHYL-1,4-DIMETHY	14.67	94	NJ
18. 1921-70-6	PENTADECANE, 2,6,10,14-TETRA	14.87	780	NJ
19.	UNKNOWN	16.38	350	J
20.	UNKNOWN	16.52	95	J
21. 629-92-5	NONADECANE	16.62	200	NJ
22.	UNKNOWN	17.09	410	J
23.	UNKNOWN	17.27	280	J
24. 629-62-9	PENTADECANE	17.46	620	NJ
25. 6561-44-0	OCTADECANE, 3-METHYL-	18.03	360	NJ
26. 629-94-7	HENEICOSANE	18.26	520	NJ
27.	UNKNOWN	18.55	340	J
28. 112-95-8	EICOSANE	20.00	400	NJ
29.	UNKNOWN	20.69	630	J
30. 646-31-1	TETRACOSANE	22.59	1400	NJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP546

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570008

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5194

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.9

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	350	U
111-44-4-----	bis(-2-Chloroethyl) Ether	350	U
95-57-8-----	2-Chlorophenol	350	U
541-73-1-----	1,3-Dichlorobenzene	350	U
106-46-7-----	1,4-Dichlorobenzene	350	U
95-50-1-----	1,2-Dichlorobenzene	350	U
95-48-7-----	2-Methylphenol	350	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5-----	4-Methylphenol	350	U
621-64-7-----	N-Nitroso-di-n-propylamine	350	U
67-72-1-----	Hexachloroethane	350	U
98-95-3-----	Nitrobenzene	350	U
78-59-1-----	Isophorone	350	U
88-75-5-----	2-Nitrophenol	350	U
105-67-9-----	2,4-Dimethyphenol	350	U
120-83-2-----	2,4-Dichlorophenol	350	U
120-82-1-----	1,2,4-Trichlorobenzene	350	U
91-20-3-----	Naphthalene	350	U
106-47-8-----	4-Chloroaniline	350	U
111-91-1-----	bis(2-Chloroethoxy) methane	350	U
87-68-3-----	Hexachlorobutadiene	350	U
59-50-7-----	4-Chloro-3-methylphenol	350	U
91-57-6-----	2-Methylnaphthalene	350	U
77-47-4-----	Hexachlorocyclopentadiene	350	U
88-06-2-----	2,4,6-Trichlorophenol	350	U
95-95-4-----	2,4,5-Trichlorophenol	890	U
91-58-7-----	2-Chloronaphthalene	350	U
88-74-4-----	2-Nitroaniline	890	U
131-11-3-----	Dimethylphthalate	350	U
208-96-8-----	Acenaphthylene	350	U
606-20-2-----	2,6-Dinitrotoluene	350	U
99-09-2-----	3-Nitroaniline	890	U
83-32-9-----	Acenaphthene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

GP546

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570008

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5194

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

51-28-5-----	2,4-Dinitrophenol	890	U
100-02-7-----	4-Nitrophenol	890	U
132-64-9-----	Dibenzofuran	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenyl-phenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
86-74-8-----	Carbazole	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	350	U
56-55-3-----	Benzo(a)anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	200	JB
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	350	U
207-08-9-----	Benzo(k)fluoranthene	350	U
50-32-8-----	Benzo(a)pyrene	350	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	U
53-70-3-----	Dibenzo(a,h)anthracene	350	U
191-24-2-----	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP546

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570008

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1B5194

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 04/18/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/02/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 4.9

CONCENTRATION UNITS:

Number TICs found: 16

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	4.81	16000	ANJB
2.	UNKNOWN	4.90	82	J
3.	UNKNOWN	5.47	75	JB
4.	UNKNOWN	5.87	73	JB
5.	UNKNOWN	5.94	1300	AJB
6.	UNKNOWN	6.21	96	JB
7.	UNKNOWN	7.01	91	JB
8.	UNKNOWN	7.33	120	J
9. 112-95-8	EICOSANE	22.32	76	J
10. 630-06-8	HEXATRIACONTANE	22.95	81	J
11.	UNKNOWN	23.47	320	JB
12. 629-92-5	NONADECANE	23.55	97	J
13. 593-45-3	OCTADECANE	24.14	82	J
14.	UNKNOWN	24.75	220	J
15.	UNKNOWN	25.44	330	J
16.	UNKNOWN	27.11	440	J
17.				
18.				
19.				
20.				
21.				
22.				
23.				
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26.				
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28.				
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30.				

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP157

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70564

Matrix: (soil/water) SOIL Lab Sample ID: 70654015

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E4A0857F

% Moisture: 7 decanted: (Y/N) N Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/17/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/06/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6-----	alpha-BHC	1.8	U
319-85-7-----	beta-BHC	1.8	U
319-86-8-----	delta-BHC	1.8	U
58-89-9-----	gamma-BHC (Lindane)	1.8	U
76-44-8-----	Heptachlor	1.8	U
309-00-2-----	Aldrin	1.8	U
1024-57-3-----	Heptachlor epoxide	1.8	U
959-98-8-----	Endosulfan I	1.8	U
60-57-1-----	Dieldrin	3.5	U
72-55-9-----	4,4'-DDE	3.5	U
72-20-8-----	Endrin	3.5	U
33213-65-9-----	Endosulfan II	3.5	U
72-54-8-----	4,4'-DDD	3.5	U
1031-07-8-----	Endosulfan sulfate	3.5	U
50-29-3-----	4,4'-DDT	3.5	U
72-43-5-----	Methoxychlor	18	U
53494-70-5-----	Endrin ketone	3.5	U
7421-93-4-----	Endrin aldehyde	3.5	U
5103-71-9-----	alpha-Chlordane	1.8	U
5103-74-2-----	gamma-Chlordane	1.8	U
8001-35-2-----	Toxaphene	180	U
12674-11-2-----	Aroclor-1016	35	U
11104-28-2-----	Aroclor-1221	72	U
11141-16-5-----	Aroclor-1232	35	U
53469-21-9-----	Aroclor-1242	35	U
12672-29-6-----	Aroclor-1248	35	U
11097-69-1-----	Aroclor-1254	35	U
11096-82-5-----	Aroclor-1260	35	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP446

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570005

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E4A0866F

% Moisture: 12 decanted: (Y/N) N

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 05/06/00

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.8	U
72-55-9-----	4,4'-DDE	6.5	
72-20-8-----	Endrin	3.8	U
33213-65-9-----	Endosulfan II	3.8	U
72-54-8-----	4,4'-DDD	3.8	U
1031-07-8-----	Endosulfan sulfate	3.8	U
50-29-3-----	4,4'-DDT	29	
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.8	U
7421-93-4-----	Endrin aldehyde	3.8	U
5103-71-9-----	alpha-Chlordane	7.9	P
5103-74-2-----	gamma-Chlordane	8.7	P
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	38	U
11104-28-2-----	Aroclor-1221	76	U
11141-16-5-----	Aroclor-1232	38	U
53469-21-9-----	Aroclor-1242	38	U
12672-29-6-----	Aroclor-1248	38	U
11097-69-1-----	Aroclor-1254	38	U
11096-82-5-----	Aroclor-1260	38	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP546

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) SOIL

Lab Sample ID: 70570008

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E4A0867F

% Moisture: 6 decanted: (Y/N) N

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 05/06/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 4.9

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	1.8	U
319-85-7-----	beta-BHC	1.8	U
319-86-8-----	delta-BHC	1.8	U
58-89-9-----	gamma-BHC (Lindane)	1.8	U
76-44-8-----	Heptachlor	1.8	U
309-00-2-----	Aldrin	1.8	U
1024-57-3-----	Heptachlor epoxide	1.8	U
959-98-8-----	Endosulfan I	1.8	U
60-57-1-----	Dieldrin	3.5	U
72-55-9-----	4,4'-DDE	3.5	U
72-20-8-----	Endrin	3.5	U
33213-65-9-----	Endosulfan II	3.5	U
72-54-8-----	4,4'-DDD	3.5	U
1031-07-8-----	Endosulfan sulfate	3.5	U
50-29-3-----	4,4'-DDT	3.5	U
72-43-5-----	Methoxychlor	18	U
53494-70-5-----	Endrin ketone	3.5	U
7421-93-4-----	Endrin aldehyde	3.5	U
5103-71-9-----	alpha-Chlordane	1.8	U
5103-74-2-----	gamma-Chlordane	1.8	U
8001-35-2-----	Toxaphene	180	U
12674-11-2-----	Aroclor-1016	35	U
11104-28-2-----	Aroclor-1221	71	U
11141-16-5-----	Aroclor-1232	35	U
53469-21-9-----	Aroclor-1242	35	U
12672-29-6-----	Aroclor-1248	35	U
11097-69-1-----	Aroclor-1254	35	U
11096-82-5-----	Aroclor-1260	35	U

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP157

Lab Name: MITKEM_CORPORATION_____ Contract: _____
Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: 70564_
Matrix (soil/water): SOIL_____ Lab Sample ID: 70564015_
Level (low/med): MED_____ Date Received: 04/13/00_
% Solids: 95.0_____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3940			P
7440-36-0	Antimony	0.57	B	N	P
7440-38-2	Arsenic	1.6	B		P
7440-39-3	Barium	19.6	B		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.25	B		P
7440-70-2	Calcium	794	B		P
7440-47-3	Chromium	10.6			P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	11.1			P
7439-89-6	Iron	10100		*	P
7439-92-1	Lead	7.3		*	P
7439-95-4	Magnesium	1010			P
7439-96-5	Manganese	177			P
7439-97-6	Mercury	0.044	U	N	CV
7440-02-0	Nickel	9.6			P
7440-09-7	Potassium	577	B		P
7782-49-2	Selenium	0.94	U	*	P
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium	29.1	U		P
7440-28-0	Thallium	0.94	U		P
7440-62-2	Vanadium	11.3			P
7440-66-6	Zinc	20.5			P
56-12-5	Cyanide	0.11	B		C

Color Before: TAN_____ Clarity Before: _____ Texture: FINE_
Color After: LT._YELLOW Clarity After: CLEAR_____ Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP446

Lab Name: MITKEM_CORPORATION _____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570 _____

Matrix (soil/water): SOIL _____ Lab Sample ID: 70570005 _____

Level (low/med): MED _____ Date Received: 04/14/00 _____

% Solids: 87.0 _____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2610		E	P
7440-36-0	Antimony	0.56	B		P
7440-38-2	Arsenic	4.7			P
7440-39-3	Barium	25.2	B		P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.74	B		P
7440-70-2	Calcium	2900		E	P
7440-47-3	Chromium	11.7			P
7440-48-4	Cobalt	2.5	B	E	P
7440-50-8	Copper	23.7		E	P
7439-89-6	Iron	9170			P
7439-92-1	Lead	49.5		E	P
7439-95-4	Magnesium	1650		E	P
7439-96-5	Manganese	66.9			P
7439-97-6	Mercury	0.046	U		CV
7440-02-0	Nickel	6.9		E	P
7440-09-7	Potassium	419	B		P
7782-49-2	Selenium	0.86	U		P
7440-22-4	Silver	1.4	U		P
7440-23-5	Sodium	26.6	U	E	P
7440-28-0	Thallium	0.86	U		P
7440-62-2	Vanadium	8.6			P
7440-66-6	Zinc	98.4		E	P
56-12-5	Cyanide	0.13	B		C

Color Before: BROWN _____ Clarity Before: _____

Texture: FINE/ROCKY

Color After: LT. YELLOW _____ Clarity After: CLEAR _____

Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP546

Lab Name: MITKEM_CORPORATION _____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570 _____

Matrix (soil/water): SOIL _____ Lab Sample ID: 70570008 _____

Level (low/med): MED _____ Date Received: 04/14/00 _____

% Solids: 94.0 _____

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4070		E	P
7440-36-0	Antimony	0.49	U		P
7440-38-2	Arsenic	1.4	B		P
7440-39-3	Barium	16.2	B		P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.19	B		P
7440-70-2	Calcium	555	B	E	P
7440-47-3	Chromium	6.8			P
7440-48-4	Cobalt	3.3	B	E	P
7440-50-8	Copper	6.4		E	P
7439-89-6	Iron	7170			P
7439-92-1	Lead	6.6		E	P
7439-95-4	Magnesium	1170		E	P
7439-96-5	Manganese	83.4			P
7439-97-6	Mercury	0.044	U		CV
7440-02-0	Nickel	5.2	B	E	P
7440-09-7	Potassium	506	B		P
7782-49-2	Selenium	0.82	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	25.4	U	E	P
7440-28-0	Thallium	0.82	U		P
7440-62-2	Vanadium	9.6			P
7440-66-6	Zinc	17.5		E	P
56-12-5	Cyanide	0.070	U		C

Color Before: TAN _____ Clarity Before: _____

Texture: FINE/ROCKY

Color After: COLORLESS Clarity After: CLEAR _____

Artifacts: _____

Comments:

Order ID: 040007077

Attn: Kristen Barbar
Mitkem Corporation
175 Metro Center Blvd
Warwick, RI 02886-1755
Fax: 401-732-3499
Project: 70570

Customer ID: MITK50
Customer PO:
Received: 05/08/00 2:09 PM
EMSL Order: 040007078
EMSL Project ID:

EPA Protocol for Screening Soil and Sediment Samples For Asbestos Content Used
by USEPA, Region 1 Laboratory (Rev May 24, 1994)
Modified by EMSL (Sept 1999)

<u>Client Sample ID</u>	<u>EMSL Sample ID</u>	<u>Location</u>	<u>% Asbestos</u>
70564-08	040007078-1	ACP4 (0-6)	0.05% Chrysotile
70564-09	040007078-2	ACP4 (4-6)	0.17% Chrysotile
70564-11	040007078-3	ACP-1 (0-6)	0.79% Chrysotile
70564-14	040007078-4	GP1 (0-6) ✓	1.55% Chrysotile
70564-15	040007078-5	GP1 (5-7) ✓	1.01% Chrysotile
70564-17	040007078-6	GP-2 (3-4) ✓	1.11% Chrysotile
70564-19	040007078-7	G-SS-1	0.04% Chrysotile

Essie Spencer/Linda Price
Analysts


Stephen Siegel, CIH- Lab Manager
Or other approved signatory

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108

EMSL

Order ID: 040007078

Attn: Kristen Barbar
Mitkem Corporation
175 Metro Center Blvd
Warwick, RI 02886-1755
Fax: 401-732-3499
Project: 70570

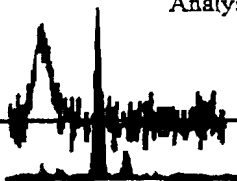
Customer ID: MITK50
Customer PO:
Received: 05/08/00 2:09 PM
EMSL Order: 040007078
EMSL Project ID:

EPA Protocol for Screening Soil and Sediment Samples For Asbestos Content Used
by USEPA, Region 1 Laboratory (Rev May 24, 1994)
Modified by EMSL (Sept 1999)

<u>Client Sample ID</u>	<u>EMSL Sample ID</u>	<u>Location</u>	<u>% Asbestos</u>
70570-04	040007078-1	GP-4 0-6 ✓	3.54% Chrysotile ✓
70570-05	040007078-2	GP-4 4-6 ✓	0.73% Chrysotile ✓

Essie Spencer
Analyst


Stephen Siegel, CIH- Lab Manager
Or other approved signatory



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564016

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0119

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: not dec. _____

Date Analyzed: 04/18/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
			Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (Total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (Total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570003

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0199

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. _____

Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.98	20	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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12.				
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14.				
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25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570006

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0200

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. _____

Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (Total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570006

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V2D0200

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: not dec. _____

Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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17.				
18.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564016

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: S1B5181

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethyphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

GP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564016

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: S1B5181

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564016

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: S1B5181

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.86	2	J
2.				
3.				
4.				
5.				
6.				
7.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564018

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5182

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethyphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564018

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5182

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564018

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5182

Level: (low/med) LOW

Date Received: 04/13/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.98	6	J
2.	UNKNOWN	13.86	4	J
3.	UNKNOWN	15.38	2	J
4. 10544-50-0	SULFUR, MOL. (S8)	18.90	7	NJ
5.	UNKNOWN ALKANE	23.54	3	J
6.	UNKNOWN	24.14	3	J
7.	UNKNOWN	24.57	2	JB
8.	UNKNOWN	24.74	4	JB
9.	UNKNOWN	25.46	3	JB
10.				
11.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP3GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570003

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5183

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethyphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP3GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570003

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5183

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N)____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5-----	2,4-Dinitrophenol_____	25	U
100-02-7-----	4-Nitrophenol_____	25	U
132-64-9-----	Dibenzofuran_____	10	U
121-14-2-----	2,4-Dinitrotoluene_____	10	U
84-66-2-----	Diethylphthalate_____	10	U
7005-72-3-----	4-Chlorophenyl-phenylether____	10	U
86-73-7-----	Fluorene_____	10	U
100-01-6-----	4-Nitroaniline_____	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol____	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)____	10	U
101-55-3-----	4-Bromophenyl-phenylether____	10	U
118-74-1-----	Hexachlorobenzene_____	10	U
87-86-5-----	Pentachlorophenol_____	25	U
85-01-8-----	Phenanthrene_____	10	U
120-12-7-----	Anthracene_____	10	U
86-74-8-----	Carbazole_____	10	U
84-74-2-----	Di-n-butylphthalate_____	10	U
206-44-0-----	Fluoranthene_____	10	U
129-00-0-----	Pyrene_____	10	U
85-68-7-----	Butylbenzylphthalate_____	10	U
91-94-1-----	3,3'-Dichlorobenzidine_____	10	U
56-55-3-----	Benzo(a)anthracene_____	10	U
218-01-9-----	Chrysene_____	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate____	10	U
117-84-0-----	Di-n-octylphthalate_____	10	U
205-99-2-----	Benzo(b)fluoranthene_____	10	U
207-08-9-----	Benzo(k)fluoranthene_____	10	U
50-32-8-----	Benzo(a)pyrene_____	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene_____	10	U
53-70-3-----	Dibenzo(a,h)anthracene_____	10	U
191-24-2-----	Benzo(g,h,i)perylene_____	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP3GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570003

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5183

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.87	5	J
2.	UNKNOWN	16.69	2	J
3. 10544-50-0	SULFUR, MOL. (S8)	18.89	4	NJ
4.	UNKNOWN	24.75	16	JB
5.				
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FORM I SV-TIC

00045

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570006

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5184

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethyphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

GP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570006

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5184

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570006

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5184

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/01/00

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.87	9	J
2.	UNKNOWN	16.68	2	J
3. 10544-50-0	SULFUR, MOL. (S8)	18.92	15	NJ
4.	UNKNOWN	20.70	8	J
5.	UNKNOWN	24.75	3	JB
6.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP5GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570007

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5242

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethyphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ✓

GP5GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570007

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5242

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	1	J
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP5GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570007

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S1B5242

Level: (low/med) LOW

Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 04/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/03/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.65	3	J
2.	UNKNOWN	16.31	3	J
3.	UNKNOWN PHTHALATE	16.71	7	J
4.	UNKNOWN	17.45	24	J
5. 10544-50-0	SULFUR, MOL. (S8)	18.71	78	NJ
6. 544-76-3	HEXADECANE	22.79	6	J
7.	UNKNOWN	23.40	7	J
8.	UNKNOWN	24.57	10	JB
9.	UNKNOWN	25.24	5	JB
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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP1GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564016

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: E4A0564F

% Moisture: _____ decanted: (Y/N) _____

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 04/17/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 04/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP2GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70564

Matrix: (soil/water) WATER

Lab Sample ID: 70564018

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E4A0565F

% Moisture: _____ decanted: (Y/N) _____

Date Received: 04/13/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 04/17/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP3GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570003

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E4A0531F

% Moisture: _____ decanted: (Y/N) _____

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 04/17/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/21/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP4GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570006

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E4A0532F

% Moisture: _____ decanted: (Y/N) _____

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 04/17/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/21/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP5GW

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: 70570

Matrix: (soil/water) WATER

Lab Sample ID: 70570007

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E4A0533F

% Moisture: _____ decanted: (Y/N) _____

Date Received: 04/14/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 04/17/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/21/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP1GW

Lab Name: MITKEM_CORPORATION Contract: _____
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564____
Matrix (soil/water): WATER Lab Sample ID: T70564016____
Level (low/med): MED Date Received: 04/13/00____
% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9110		E	P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	8.0	B		P
7440-39-3	Barium	42.5	B		P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.92	B		P
7440-70-2	Calcium	110000			P
7440-47-3	Chromium	43.0		N	P
7440-48-4	Cobalt	18.8	B		P
7440-50-8	Copper	66.2			P
7439-89-6	Iron	24200			P
7439-92-1	Lead	90.4			P
7439-95-4	Magnesium	42200			P
7439-96-5	Manganese	461		N	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	33.2	B		P
7440-09-7	Potassium	20500			P
7782-49-2	Selenium	8.8			P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	300000			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	24.5	B		P
7440-66-6	Zinc	138			P
56-12-5	Cyanide	2.7	B		C

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP1GW

Lab Name: MITKEM CORPORATION _____ Contract: _____
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564____
Matrix (soil/water): WATER _____ Lab Sample ID: D70564016____
Level (low/med): MED _____ Date Received: 04/13/00____
% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9.8	B	E	P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	5.0	B		P
7440-39-3	Barium	14.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	92500			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	1080			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	40200			P
7439-96-5	Manganese	348			P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium	19500			P
7782-49-2	Selenium	6.6			P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	307000			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	13.6	B		P
56-12-5	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

DISSOLVED_METALS_FOR_G-P-1-GW

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP2GW

Lab Name: MITKEM CORPORATION _____ Contract: _____
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70564
Matrix (soil/water): WATER _____ Lab Sample ID: D70564018
Level (low/med): MED _____ Date Received: 04/13/00
% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.0	B	E	P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	10.0	U		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	89200			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	5380			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	23500			P
7439-96-5	Manganese	935			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	7220			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	25500			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	19.2	B		P
56-12-5	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

DISSOLVED_METALS_FOR_G-P-2-GW

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP2GW

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: 70564__

Matrix (soil/water): WATER_____ Lab Sample ID: T70564018_____

Level (low/med): MED_____ Date Received: 04/13/00__

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28900		E	P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	14.9			P
7440-39-3	Barium	105	B		P
7440-41-7	Beryllium	2.4	B		P
7440-43-9	Cadmium	1.7	B		P
7440-70-2	Calcium	110000			P
7440-47-3	Chromium	168		N	P
7440-48-4	Cobalt	25.1	B		P
7440-50-8	Copper	51.5			P
7439-89-6	Iron	82900			P
7439-92-1	Lead	53.0			P
7439-95-4	Magnesium	36800			P
7439-96-5	Manganese	1820		N	P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	79.5			P
7440-09-7	Potassium	15100			P
7782-49-2	Selenium	9.9			P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	43500			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	119			P
7440-66-6	Zinc	405			P
56-12-5	Cyanide	3.9	B		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP3GW

Lab Name: MITKEM_CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570

Matrix (soil/water): WATER Lab Sample ID: T70570003

Level (low/med): MED Date Received: 04/14/00

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	91000			P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	40.5			P
7440-39-3	Barium	964			P
7440-41-7	Beryllium	7.5			P
7440-43-9	Cadmium	10.1			P
7440-70-2	Calcium	114000			P
7440-47-3	Chromium	346			P
7440-48-4	Cobalt	1370		E	P
7440-50-8	Copper	530			P
7439-89-6	Iron	266000			P
7439-92-1	Lead	159		E	P
7439-95-4	Magnesium	28400		E	P
7439-96-5	Manganese	41700		E	P
7439-97-6	Mercury	0.91			CV
7440-02-0	Nickel	300		E	P
7440-09-7	Potassium	14700			P
7782-49-2	Selenium	21.8			P
7440-22-4	Silver	12.9			P
7440-23-5	Sodium	66600			P
7440-28-0	Thallium	35.8			P
7440-62-2	Vanadium	197		E	P
7440-66-6	Zinc	891		E	P
56-12-5	Cyanide	51.5			C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NYSDEC - ASP
I
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP3GW

Lab Name: MITKEM_CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570

Matrix (soil/water): WATER Lab Sample ID: D70570003

Level (low/med): MED Date Received: 04/14/00

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	54.8	B		P
7440-36-0	Antimony	3.5	B		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	49.1	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.69	B		P
7440-70-2	Calcium	104000			P
7440-47-3	Chromium	12.3			P
7440-48-4	Cobalt	257		E	P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	32.5	B		P
7439-92-1	Lead	4.1		E	P
7439-95-4	Magnesium	16600		E	P
7439-96-5	Manganese	16500		E	P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	34.1	B	E	P
7440-09-7	Potassium	5530			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	66700			P
7440-28-0	Thallium	16.2			P
7440-62-2	Vanadium	3.0	U	E	P
7440-66-6	Zinc	116		E	P
56-12-5	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: DISSOLVED_METALS_FOR_G-P-3-GW

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP4GW

Lab Name: MITKEM CORPORATION _____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570 _____

Matrix (soil/water): WATER _____ Lab Sample ID: T70570006 _____

Level (low/med): MED _____ Date Received: 04/14/00 _____

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3900			P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	86.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	215000			P
7440-47-3	Chromium	24.4			P
7440-48-4	Cobalt	3.0	U	E	P
7440-50-8	Copper	6.4	B		P
7439-89-6	Iron	5250			P
7439-92-1	Lead	5.1		E	P
7439-95-4	Magnesium	49000		E	P
7439-96-5	Manganese	2480		E	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	12.7	B	E	P
7440-09-7	Potassium	15400			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	405000			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	8.2	B	E	P
7440-66-6	Zinc	9.2	B	E	P
56-12-5	Cyanide	2.0	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

NYSDEC - ASP
I
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP4GW

Lab Name: MITKEM_CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____

SDG No.: 70570

Matrix (soil/water): WATER Lab Sample ID: D70570006

Level (low/med): MED Date Received: 04/14/00

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9.8	B		P
7440-36-0	Antimony	4.4	B		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	55.1	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	214000			P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	3.0	U	E	P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	2610			P
7439-92-1	Lead	2.0	U	E	P
7439-95-4	Magnesium	47500		E	P
7439-96-5	Manganese	2520		E	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.0	U	E	P
7440-09-7	Potassium	16100			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	417000			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	3.6	B	E	P
7440-66-6	Zinc	6.0	B	E	P
56-12-5	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: DISSOLVED METALS FOR G-P-4-GW

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP5GW

Lab Name: MITKEM_CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570

Matrix (soil/water): WATER Lab Sample ID: T70570007

Level (low/med): MED Date Received: 04/14/00

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	398000			P
7440-36-0	Antimony	28.1	B		P
7440-38-2	Arsenic	23.8			P
7440-39-3	Barium	2720			P
7440-41-7	Beryllium	29.3			P
7440-43-9	Cadmium	27.2			P
7440-70-2	Calcium	73200			P
7440-47-3	Chromium	731			P
7440-48-4	Cobalt	360		E	P
7440-50-8	Copper	495			P
7439-89-6	Iron	1230000			P
7439-92-1	Lead	391		E	P
7439-95-4	Magnesium	99700		E	P
7439-96-5	Manganese	5350		E	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	649		E	P
7440-09-7	Potassium	83300			P
7782-49-2	Selenium	27.1			P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	125000			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	965		E	P
7440-66-6	Zinc	1700		E	P
56-12-5	Cyanide	2.3	B		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GP5GW

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 70570__

Matrix (soil/water): WATER_ Lab Sample ID: D70570007__

Level (low/med): MED__ Date Received: 04/14/00__

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	B		P
7440-36-0	Antimony	5.0	B		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	62.5	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	35400			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U	E	P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	3360			P
7439-92-1	Lead	2.1	B	E	P
7439-95-4	Magnesium	24800		E	P
7439-96-5	Manganese	577		E	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	4.9	B	E	P
7440-09-7	Potassium	14900			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	137000			P
7440-28-0	Thallium	5.0	U		P
7440-62-2	Vanadium	3.0	U	E	P
7440-66-6	Zinc	10.8	B	E	P
56-12-5	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:
DISSOLVED_METALS_FOR_G-P-5-GW_____

APPENDIX D

DATA VALIDATION FORMS

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

I. Data Deliverable Requirements

A. Legible	Yes
B. Paginated	Yes
C. Arranged in order	Yes
D. Consistent dates	Yes
E. Case Narrative	Yes
F. Chain-of-Custody Record	Yes
G. Sample Data Complete	Yes
H. Standard Data Complete	Yes
I. Raw QC Data Complete	Yes

Comments: SDG 70570

SDG consists of 7 soils and 3 waters plus duplicates and trip blank. Samples were analyzed for TCL, TAL parameters plus CN. The water samples were also run for dissolved metals

Sample G-SS-2 was rerun for voa due to surr and ITSD recoveries. Better chromatogram in initial run use the data from initial run.

Some of the data has library search compounds reported, others do not.

Trip blank clean.

Acetone, methylene chloride and bis-2 ethylhexyl phthalate have been qualified as nondetect in the soil samples in this data package due to blank/lab contamination

Semivolatile portion of G-SS-2 was re-extracted. Re-extract has Naphthalene at 7200, initial 1700 – 2-methylnaphthalene at 14000, initial at 2600 – all other cmpds ok. The re-extract was run at a 1:8 dilution with similar results to the re-extract. – LAB BEING CONTACTED TO DETERMINE BEST SET OF RESULTS

g-ss-3 an effective 1:5 dilution for BNA

G-SS-4 BNA rerun at a dilution due to compounds exceeding instrument calibration range

DATA VALIDATION – ORGANICS

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

II. Holding Times

<u>Sample I.D.</u>	<u>Date Received</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Holding Time Exceeded?</u>
G-SS-3	4/14/00	4/17&4/18	4/17-5/10	NO
TB	4/14/00	4/17&4/18	4/17-5/10	NO
GP-4-0-6	4/14/00	4/17&4/18	4/17-5/10	NO
GP-4-4-6	4/14/00	4/17&4/18	4/17-5/10	NO
GP-4-GW	4/14/00	4/17&4/18	4/17-5/10	NO
GP-5-GW	4/14/00	4/17&4/18	4/17-5/10	NO
GP-5-4-6	4/14/00	4/17&4/18	4/17-5/10	NO
G-SS-5	4/14/00	4/17&4/18	4/17-5/10	NO
G-SS-2	4/14/00	4/17&4/18	4/17-5/10	NO
G-SS-4	4/14/00	4/17&4/18	4/17-5/10	NO
DUPLICATE	4/14/00	4/17&4/18	4/17-5/10	NO
DUPLICATE-S	4/14/00	4/17&4/18	4/17-5/10	NO

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

Fraction: VOA, **SVOA**

SVOA information is in bold

III. Tune Summary

Tune File I.D. Number	Acceptable ?	Comments
1. V2D0080	YES	INITIAL - WATER
2. V2D0190	YES	SAMPLES – WATER
3. V6A2590	YES	INITIAL – SOIL
4. V6A3230	YES	SAMPLES - SOIL
5. V6A3260	YES	SAMPLES - RERUN
6.		
7. S1B5091	YES	INITIAL
8. S1B5171	YES	SAMPLES
9. S1B5190	YES	SAMPLES
10. S1B5231	YES	INITIAL
11. S1B5238	YES	SAMPLES
12. S1B5381	YES	SAMPLES
13. S1B5395	YES	SAMPLES

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

Fraction: VOA, **SVOA**

IV. Initial Calibration Summary (GC/MS)

Date of Calibration: 3/29, 4/17, **4/25**,
5/3

A. Standard Data Files

Standard 1 ID: V6A2595, V2D0085B, <u>S1B5096, S1B5237</u>	Conc: 10 , 20
Standard 2 ID: V6A2594, V2D0085A, <u>S1B5095, S1B5236</u>	Conc: 20, 50
Standard 3 ID: V6A2591, V2D0081, <u>S1B5094, S1B5235</u>	Conc: 50, 80
Standard 4 ID: V6A2593, V2D0083, <u>S1B5093, S1B5234</u>	Conc: 100, 120
Standard 5 ID: V6A2592, V2D0082, <u>S1B5092, S1B5233</u>	Conc: 200, 160

B. 1. All SPCC met Criteria ?

Yes

2. Calculate a SPCC average RRF

Comments: _____

DATA VALIDATION – ORGANICS

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Fraction: VOA, SVOA Date of Calibration: 3/29, 4/17, 4/25, 5/3

IV. Initial Calibration Summary (continued)

2. All CCC met Criteria ?

Yes

Comments: _____

Calculate a CCC % RSD

C. 1. Was the tune for the initial calibration acceptable ?

Yes

2. Was the calibration conducted within 12 hours of the tune

Yes

Comments: _____

D. Overall assessment of the initial calibration:
(list the associated samples)

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

Fraction: VOA, **SVOA**

VI. Continuing Calibration Summary (GC/MS)

Date of Initial Calibration: 4/17, 3/29, **4/25, 5/3**

Date of Continuing Calibration: 4/19, 4/20, 4/17, 4/18, **5/1, 5/1, 5/3, 5/10, 5/11**

File ID: V2D0191,
V2D0221,
V6A3231,
V6A3216A,
S1B5172,
S1B5191,
S1B5239,
S1B5382,
S1B5396

A. 1. All SPCC met criteria ?

Yes

Calculate a SPCC RRF

Comments: _____

2. All CCC met criteria ?

Yes

Calculate a CCC % D

Comments: _____

DATA VALIDATION – ORGANICS

- B. Overall assessment of Continuing Calibration
(list associated samples)

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Fraction: VOA, SVOA

VIII. Internal Standard Area Summary (GC/MS)

Were all internal standard peak areas within the contract limits ?

Yes

No*

If No, please note below

<u>Sample</u>	<u>Internal Standard Outside Limits</u>	<u>Amount Above Contract Requirement</u>	<u>Comments</u>
G-SS-4	All 3 below limits		Sample rerun with similar results
DUPS, gp446, GSS5, GSS4, GSS3	Had some recoveries below limit		Samples rerun with similar results

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

Fraction: VOA,SVOA

IX. Blank Summary

Date/Time of Analysis: _____

File ID: _____

Compound

Concentration

≤ CROL

Comments

VBLK6U & VBLK6V Acetone, MeCl 5
soil blanks ug/kg

Soil sample results have
been qualified as nondetect
for these compounds due
to blank/lab contamination

List the samples associated with this method blank.

DATA VALIDATION – ORGANICS

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Fraction: VOA,SVOA

Protocol allows 1 recovery per fraction of SVOA to be outside QC limits if > 10%

X. Surrogate Recovery Summary

Were all surrogate recoveries within the contract limits ?

Yes

No*

If No, please note below.

<u>Sample</u>	<u>Surrogate Compound Outside Recovery Limits</u>	<u>Amount Above Contract Requirement</u>	<u>Comments</u>
G-SS-2	BFB – 56%, TPH – 4%		Sample rerun, all surrogates within limits
GP-4-4-6	2FP, TBP 23%, 11%		Sample rerun, all surrogates within limits

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Fraction: _____

Site specific QC not provided in this data package

XI. Matrix Spike/Matrix Spike Duplication Summary

Sample ID: _____ Matrix: _____

Did the MS/MSD recovery data meet the contract recommended requirements ?

Yes

No

If No, please note below.

Blank spikes were provided and were within QC limits.

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

I. Holding times

<u>Sample</u>	<u>Date Received</u>	<u>Date Digested</u>	<u>Date Analyzed</u>	<u>Holding Time Exceeded?</u>
G-SS-3	4/14/00		4/17-4/20	NO
TB	4/14/00			
GP-4-0-6	4/14/00			
GP-4-4-6	4/14/00			
GP-4-GW	4/14/00			
GP-5-GW	4/14/00			
GP-5-4-6	4/14/00			
G-SS-5	4/14/00			
G-SS-2	4/14/00			
G-SS-4	4/14/00			
DUPLICATE	4/14/00			
DUPLICATE- S	4/14/00			

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Associated Samples: _____

II. Initial Calibration

1. Were all initial instrument calibrations performed?

Yes

Comments:

2. Were the initial calibration verification standards analyzed at the contract specified frequency?

Yes

Comments:

3. Were the initial calibration results within the control limits listed below?

For tin and mercury: 80-120% of the true value

For all other metals: 90-110% of the true value

Yes

If "No", note analytes _____

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Associated Samples: _____

III. Continuing Calibration

1. Were the continuing calibration verification standards analyzed at the contract specified frequency?

Yes

Comments:

2. Were the continuing calibration results within the control limits listed below?

For tin and mercury: 80-120% of the true value

For all other metals: 90-110% of the true value

Yes

If "No", note analytes _____

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

IV. Blank Summary

A. Method Blanks

1. Was a method blank prepared and analyzed at the contract specified frequency?

Yes

2. Were all the analytes below the CRDL in the method blank?

Yes

Comments:

B. Calibration Blanks

1. Were all initial and continuing calibration blanks analyzed at the contract specified frequency/

Yes

2. Were all the analytes below the CRDL in all the calibration blanks?

Yes

Comments:

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Site specific QC not provided in this data package

V. Duplicate Analysis

1. Was a duplicate prepared and analyzed at the contract specified frequency?

Yes

Comments:

2. Were control limits for the relative percent differences (RPD) met for each analyte?

Yes

Comments:

For sample values >5 times the CRDL, the RPD control limit is $\pm 20\%$.

For sample values >5 times the CRDL, the RPD control limit is $\pm \text{CRDL}$.

If sample results were outside of the control limits, all data associated with that duplicate sample should have been flagged with a "***".

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

Site specific QC not provided in this data package

VI. Matrix Spike Analysis

1. Was a matrix spike prepared and analyzed at the contract specified frequency?

Yes

Comments:

2. Were the matrix spike recoveries within the contract specified control limits (75-125%)?

Yes

If "No", note analytes _____

Data should have been flagged with "N" for analytes out of control limits. If the sample concentration exceeds the spike concentration by a factor of four or more, no flag is required.

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 5/23/00

VII. ICP Interference Check Sample Summary

1. Was the ICP serial dilution analyzed at the contract specified frequency?

Yes

Comments:

2. Were the serial dilution differences within the contract specified limits of $\pm 10\%$?

Yes

Comments:

3. Was the ICP CRDL check standard analyzed at the contract specified frequency for the analytes required?

Yes

Comments:

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

VII. ICP Interference Check Sample Summary (continued):

4. Was the ICP interference check sample analyzed at the contract specified frequency:

Yes

Comments:

5. Were the ICP interference check sample results within the control limit of $\pm$ w-20% of the mean value?

Yes

If "No", not analytes _____

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 5/23/00

VIII. Laboratory Control Sample Analysis

1. Was a laboratory control sample analyzed at the contract required frequency?

Yes

Comments:

2. Were the percent recoveries within the control limits of 80-120% (except for Ag and Sb) for each analyte?

Yes

Comments:

For soil 55.2% for NA, 78.5% Al, Sb 62.4% all water recoveries were ok

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 6/1/00

I. Data Deliverable Requirements

A. Legible	Yes
B. Paginated	Yes
C. Arranged in order	Yes
D. Consistent dates	Yes
E. Case Narrative	Yes
F. Chain-of-Custody Record	Yes
G. Sample Data Complete	Yes
H. Standard Data Complete	Yes
I. Raw QC Data Complete	Yes

Comments: SDG 70564

SDG consists of 7 soils and 6 waters plus duplicates and trip blank. Samples were analyzed for TCL, TAL parameters plus CN. The water samples were also run for dissolved metals. Five additional soil samples were collected for asbestos analysis

Sample AC-SS-2 was rerun for voa due to low ITSD recoveries. Reanalysis yeilded similar results use the data from initial run.

Acetone, methylene chloride and bis-2 ethylhexyl phthalate have been qualified as nondetect in the soil samples in this data package due to blank/lab contamination

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 6/1/00

II. Holding Times

<u>Sample I.D.</u>	<u>Date Received</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Holding Time Exceeded?</u>
TB	4/13/00	4/17&4/18	4/17-5/10	NO
AC-P-2 1-3	4/13/00	4/17&4/18	4/17-5/10	NO
AC-P-2-GW	4/13/00	4/17&4/18	4/17-5/10	NO
AC-SS-3	4/13/00	4/17&4/18	4/17-5/10	NO
AC-SS-1	4/13/00	4/17&4/18	4/17-5/10	NO
AC-P-3-GW	4/13/00	4/17&4/18	4/17-5/10	NO
AC-SS-2	4/13/00	4/17&4/18	4/17-5/10	NO
AC-P-4 4-6	4/13/00	4/17&4/18	4/17-5/10	NO
AC-P-4-GW	4/13/00	4/17&4/18	4/17-5/10	NO
AC-P-1 5-7	4/13/00	4/17&4/18	4/17-5/10	NO
AC-P-1 GW	4/13/00	4/17&4/18	4/17-5/10	NO
GP-1 5-7	4/13/00	4/17&4/18	4/17-5/10	NO
GP-1-GW	4/13/00	4/17&4/18	4/17-5/10	NO
GP-2-GW	4/13/00	4/17&4/18	4/17-5/10	NO

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: VOA, **SVOA**
SVOA information is in bold

III. Tune Summary

Tune File I.D. Number	Acceptable ?	Comments
1. V2D0080	YES	INITIAL - WATER
2. V2D0110	YES	SAMPLES – WATER
3. V2D0130	YES	SAMPLES - WATER
4. V6A2590	YES	INITIAL – SOIL
5. V6A3200	YES	SAMPLES - SOIL
6. V6A3230	YES	SAMPLES
7. V6A3260	YES	SAMPLES
8. V6A3290	YES	SAMPLE- RERUN
9. S1B5091	YES	INITIAL
10. S1B5171	YES	SAMPLES
11. S1B5190	YES	SAMPLES
12. S1B5231	YES	INITIAL
13. S1B5238	YES	SAMPLES
14. S1B5381	YES	SAMPLES

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: VOA, **SVOA**

IV. Initial Calibration Summary (GC/MS)

Date of Calibration: 3/29, 4/17, **4/25**,
5/3

A. Standard Data Files

Standard 1 ID: <u>V6A2595, V2D0085B, S1B5096, S1B5237</u>	Conc: <u>10 , 20</u>
Standard 2 ID: <u>V6A2594, V2D0085A, S1B5095, S1B5236</u>	Conc: <u>20, 50</u>
Standard 3 ID: <u>V6A2591, V2D0081, S1B5094, S1B5235</u>	Conc: <u>50, 80</u>
Standard 4 ID: <u>V6A2593, V2D0083, S1B5093, S1B5234</u>	Conc: <u>100, 120</u>
Standard 5 ID: <u>V6A2592, V2D0082, S1B5092, S1B5233</u>	Conc: <u>200, 160</u>

B. 1. All SPCC met Criteria ?

Yes

2. Calculate a SPCC average RRF

Comments: _____

DATA VALIDATION – ORGANICS

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: VOA, **SVOA** Date of Calibration: 3/29, 4/17, **4/25**, 5/3

IV. Initial Calibration Summary (continued)

2. All CCC met Criteria ?

Yes

Comments: _____

Calculate a CCC % RSD

C. 1. Was the tune for the initial calibration acceptable ?

Yes

2. Was the calibration conducted within 12 hours of the tune

Yes

Comments: _____

D. Overall assessment of the initial calibration:
(list the associated samples)

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: VOA, **SVOA**

VI. Continuing Calibration Summary (GC/MS)

Date of Initial Calibration: 4/17, 3/29, **4/25, 5/3**

Date of Continuing Calibration: 4/18, 4/18, 4/20, 4/16, 4/17, 4/18, 4/19, **5/1, 5/1, 5/3, 5/10,**

File ID: V2D0111,
V2D0131,
V2D0221,
V6A3201,
V6A3231,
V2A3261A,
V6A3191
S1B5172,
S1B5191,
S1B5239,
S1B5382,

A. 1. All SPCC met criteria ?

Yes

Calculate a SPCC RRF

Comments: _____

2. All CCC met criteria ?

Yes

Calculate a CCC % D

Comments: _____

DATA VALIDATION – ORGANICS

B. Overall assessment of Continuing Calibration
(list associated samples)

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: VOA, SVOA

VIII. Internal Standard Area Summary (GC/MS)

Were all internal standard peak areas within the contract limits ?

Yes No*

If No, please note below

<u>Sample</u>	<u>Internal Standard Outside Limits</u>	<u>Amount Above Contract Requirement</u>	<u>Comments</u>
ACSS-2	CBZ below limits		Sample rerun with similar results
ACSS-2, ACSS-1, ACSS-3	Had some recoveries below limit		Samples rerun with similar results. ACSS-3 was run as the MS/MSD with similar results

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: VOA, SVOA

IX. Blank Summary

Date/Time of Analysis: _____ File ID: _____

<u>Compound</u>	<u>Concentration</u>	<u>≤ CROL</u>	<u>Comments</u>
VBLK6U & VBLK6V soil blanks	Acetone, MeCl 5 ug/kg		Soil sample results have been qualified as nondetect for these compounds due to blank/lab contamination

List the samples associated with this method blank.

DATA VALIDATION – ORGANICS

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: VOA, SVOA, pest/pcb

Protocol allows 1 recovery per fraction of SVOA to be outside QC limits if > 10%

X. Surrogate Recovery Summary

Were all surrogate recoveries within the contract limits ?

Yes - voa

No* - svoa

If No, please note below.

<u>Sample</u>	<u>Surrogate Compound Outside Recovery Limits</u>	<u>Amount Above Contract Requirement</u>	<u>Comments</u>
ACP4GW	NBZ-34, FBP-42, TPH-32, 2CP-33		Sample rerun, similar results

DATA VALIDATION – ORGANICS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Fraction: Voa, svoa, pest/pcb

XI. Matrix Spike/Matrix Spike Duplication Summary

Sample ID: AC-P-2-GW, AC-SS-3 Matrix: Water, soil

Did the MS/MSD recovery data meet the contract recommended requirements ?

Yes - water

No - soil

If No, please note below.

Blank spikes were provided and were within QC limits.

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

I. Holding times

<u>Sample</u>	<u>Date Received</u>	<u>Date Digested</u>	<u>Date Analyzed</u>	<u>Holding Time Exceeded?</u>
TB	4/13/00		4/15-4/20	NO
AC-P-2 1-3	4/13/00			
AC-P-2-GW	4/13/00			
AC-SS-3	4/13/00			
AC-SS-1	4/13/00			
AC-P-3-GW	4/13/00			
AC-SS-2	4/13/00			
AC-P-4 4-6	4/13/00			
AC-P-4-GW	4/13/00			
AC-P-1 5-7	4/13/00			
AC-P-1 GW	4/13/00			
GP-1 5-7	4/13/00			
GP-1-GW	4/13/00			
GP-2-GW	4/13/00			

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Associated Samples: _____

II. Initial Calibration

1. Were all initial instrument calibrations performed?

Yes

Comments:

2. Were the initial calibration verification standards analyzed at the contract specified frequency?

Yes

Comments:

3. Were the initial calibration results within the control limits listed below?

For tin and mercury: 80-120% of the true value

For all other metals: 90-110% of the true value

Yes

If "No", note analytes _____

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Associated Samples: _____

III. Continuing Calibration

1. Were the continuing calibration verification standards analyzed at the contract specified frequency?

Yes

Comments:

2. Were the continuing calibration results within the control limits listed below?

For tin and mercury: 80-120% of the true value

For all other metals: 90-110% of the true value

Yes

If "No", note analytes _____

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

IV. Blank Summary

A. Method Blanks

1. Was a method blank prepared and analyzed at the contract specified frequency?

Yes

2. Were all the analytes below the CRDL in the method blank?

Yes

Comments:

B. Calibration Blanks

1. Were all initial and continuing calibration blanks analyzed at the contract specified frequency/

Yes

2. Were all the analytes below the CRDL in all the calibration blanks?

Yes

Comments:

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Water – AC-P-2-GW SOIL - AC-SS-3

V. Duplicate Analysis

1. Was a duplicate prepared and analyzed at the contract specified frequency?

Yes – Water total & No- soil
dissolved

Comments:

Iron 64.1, lead 20.6, selenium 200

2. Were control limits for the relative percent differences (RPD) met for each analyte?

Yes

Comments:

For sample values >5 times the CRDL, the RPD control limit is $\pm 20\%$.

For sample values >5 times the CRDL, the RPD control limit is $\pm \text{CRDL}$.

If sample results were outside of the control limits, all data associated with that duplicate sample should have been flagged with a “*”.

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

Spike run on sample **ACP2-GW, AC-SS-3**

VI. Matrix Spike Analysis

1. Was a matrix spike prepared and analyzed at the contract specified frequency?

Yes

Comments:

2. Were the matrix spike recoveries within the contract specified control limits (75-125%)?

No – total

Yes- dissolved metals

If "No", note analytes Cr 131.1, MN 166 soil HG - 134

Post digest run for those elements listed above with recoveries within limits

Data should have been flagged with "N" for analytes out of control limits. If the sample concentration exceeds the spike concentration by a factor of four or more, no flag is required.

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 6/1/00

VII. ICP Interference Check Sample Summary

1. Was the ICP serial dilution analyzed at the contract specified frequency?

Yes

Comments:

2. Were the serial dilution differences within the contract specified limits of $\pm 10\%$?

Yes

Comments:

3. Was the ICP CRDL check standard analyzed at the contract specified frequency for the analytes required?

Yes

Comments:

DATA VALIDATION – METALS

Site Name: Glen Cove - Angler's Club Laboratory Name: Mitkem

Reviewer: R. Petrella Date of Review: 6/1/00

VII. ICP Interference Check Sample Summary (continued):

4. Was the ICP interference check sample analyzed at the contract specified frequency:

Yes

Comments:

5. ~~Y~~ Were the ICP interference check sample results within the control limit of $\pm 20\%$ of the mean value?

Yes

If "No", not analytes _____

DATA VALIDATION - METALS

Site Name: Glen Cove - Angler's Club

Laboratory Name: Mitkem

Reviewer: R. Petrella

Date of Review: 6/1/00

VIII. Laboratory Control Sample Analysis

1. Was a laboratory control sample analyzed at the contract required frequency?

Yes

Comments:

2. Were the percent recoveries within the control limits of 80-120% (except for Ag and Sb) for each analyte?

Yes

Comments:

For soil 55.2% for NA, 78.5% Al, Sb 62.4% all water recoveries were ok