FINAL
PHOSTER SYSTEM SOIL SAMPLING REPORT
(March 2007 Sampling Event)

Multi Site G
Operation, Maintenance & Monitoring

SMS Instruments Site
Deer Park, Suffolk County, NY
Site 1-52-026

Work Assignment No.
D004445-14.1

Prepared for:

SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

June 2007

Prepared by:

Earth Tech Northeast, Inc.
300 Broadacres Drive
Bloomfield, New Jersey

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

The SMS Instruments site was evaluated in 2003 as part of the Pump and Treat Optimization initiative from US Environmental Protection Agency (USEPA) headquarters which provided recommendations to enhance remedial and cost effectiveness. In July 2003, GeoTrans, Inc. (GeoTrans), on behalf of the USEPA, conducted a site visit to perform the optimization evaluation of the active Groundwater Pump and Treat system. The results of the evaluation were included in a Remediation System Evaluation (RSE) report (GeoTrans, December, 2003). The RSE report recommended developing an exit strategy and provided three potential approaches for consideration.

Site activities from 2004 to 2005 have been performed based on the recommendations provided by the RSE report. In 2005, the Site was transferred from USEPA to the New York State Department of Environmental Conservation (NYSDEC). This semiannual sampling report summarizes the SMS Instruments Site remediation activities that occurred since the transfer.

1.1 BACKGROUND INFORMATION AND SITE CHRONOLOGY

The SMS Instruments Superfund site is located at 120 Marcus Boulevard in Deer Park, Suffolk County, New York (Figure 1). The site was listed on the National Priority List (NPL) in 1986. The Site consists of a 34,000 square foot building located on a 1.5-acre lot that is surrounded by other light industrial facilities. A recharge basin is located adjacent to the Site to the east. Facility operations occurred between 1967 and 1990 and primarily involved overhauling of military aircraft components. These activities consisted of cleaning, painting, degreasing, refurbishing, metal machining, and testing components. Other historic uses, under different ownership, included the manufacturing of wooden kitchen utensils. The building is currently unoccupied. Site contamination was first discovered in 1980 when the Suffolk County Department of Health Services sampled a leaching pool on the south side of the facility. USEPA completed a remedial investigation/feasibility study (RI/FS) in 1989, and investigative and remedial activities have included pumping out the leaching pond and backfilling it, removal of an underground storage tank (which was used to store jet fuel), and operation of a soil vapor extraction system (SVE). The SVE system was operated from 1992 to 1994, near the former leaching pool and the former UST areas to remediate soils. Wastewater was historically discharged into a leaching pool at the site, which, subsequently contaminated soils and groundwater beneath the site. In addition, the leaking UST also contaminated soils and groundwater beneath the site. A Groundwater Pump and Treat (GW P&T) system, which includes an air stripper to treat contaminated groundwater, was constructed and began operation in 1994.

Soil sampling conducted after the operation of the SVE system reflected that the soil remedy reduced contamination and was effective in reducing potential exposure to contaminated soil vapor. The groundwater contamination has decreased substantially since activation of the GW P&T system. However, after several years of operation, the influent concentrations had decreased substantially, the contaminant removal cost per pound had increased dramatically, and the system was no longer seen as accelerating site cleanup. Furthermore, the system was failing to achieve the ultimate groundwater cleanup goals (e.g., the maximum contaminant levels [MCLs]). Therefore, In July 2003, GeoTrans, on behalf of the USEPA, conducted a site visit to perform an evaluation of the active Groundwater Pump and Treat system. The results of the evaluation were included in a Remediation System Evaluation (RSE) (GeoTrans, 2003). The RSE report recommended developing an exit strategy, and provided three potential approaches for consideration. One of the three recommended approaches, the most aggressive approach, was to conduct a pilot study on an alternative technology and determine if that alternative technology, or another approach, should replace the P&T system. The RSE report indicated various

alternative technologies are available for reducing mass of volatile organic compounds (VOCs), including air sparging, bioaugmentation, and chemical oxidation. The USEPA considered this approach the most viable of the three recommended approaches in the RSE report. The intent of aggressively addressing the remaining soil contamination was to reduce contaminant concentrations in the soil and reduce the potential for future contamination of the groundwater, thereby reducing both the cost and time required to remediate the site.

Following USEPA's selection of this recommendation from the RSE report, in May of 2004, the USEPA Remedial Action Branch sent a request for field support at the SMS Instruments Site. The request involved two phases: additional field characterization of a former UST area through use of a Geoprobe down to the water table, and a second phase to assess and implement additional remedial technologies to address remaining source areas, such as air sparging with SVE and/or bioremedial-enhancing injections. In an effort to field characterize the former UST area and obtain data needed for the selection of a pilot alternative approach, 25 soil borings were advanced and installation of SVE and air sparge wells were performed in August 2004 by ERT and the Response Engineering and Analytical Contract (REAC) contractor (Lockheed Martin Technology Services [Lockheed Martin]).

Based on an evaluation of the data generated by ERT/REAC, the USEPA Remedial Project Manager (RPM) and the USEPA Removal On-Scene Coordinator (OSC) concluded the installation of a PHOSter™ bioremediation system would be the most appropriate and cost effective technology for the time frame of operation. In April of 2005, under the Emergency and Rapid Response Services (ERRS) contract, Earth Tech Northeast, Inc. (Earth Tech) procured a PHOSter™ system and the system was later installed and activated on site in May 2005. Further details of the PHOSter™ system are included in Section 2.1 of this report.

The USEPA operated the groundwater pump and treat system at the Site until July 15, 2005 when the Site was turned over to NYSDEC. Based on sampling conducted by CDM for the USEPA in June 2005 and effluent samples collected by Earth Tech in August 2005, Earth Tech determined that the GW P&T system was no longer removing significant quantities of contaminants, and VOC concentrations in the influent were below detection limits (at 5 ppb). In a letter to NYSDEC dated October 6, 2005, Earth Tech recommended that the groundwater treatment system be de-activated. NYSDEC concurred with this recommendation in a letter dated October 21, 2005.

1.1.1 USEPA/REAC Soil Boring Advancement and SVE/Air Sparge Well Installation Activities (August 2004)

In July 2004, EPA-ERT/REAC provided the necessary field support to characterize the remaining source area and preliminary cost projections to implement sparging/bioremediation operations. A Geoprobe was used to advance 25 soil borings to collect 46 subsurface soil samples which were analyzed with a field GC for benzene, toluene, ethylbenzene, and xylenes (BTEX); and three samples were also analyzed for VOCs. The highest BTEX/VOC concentrations were detected in samples collected in the vicinity of the drywell and groundwater extraction well EXW-3. These soil samples were collected within the smear zone [between 24 and 28 feet below ground surface (ft bgs)]. The highest concentrations of BTEX were found in the drywell sample collected at 24 ft bgs with a total concentration of 170,580 micrograms per kilogram (µg/kg). The highest VOC results were obtained from the drywell location at 24 feet bgs with a total VOC concentration of 408,100 µg/kg. Vadose zone and in the groundwater table sample data indicated the contamination was contained within the smear zone. Complete details of the soil boring

event are included in the Site Investigation Report (Technical Memorandum, REAC / Lockheed Martin, August, 2005).

Following a review of these results, it was determined that bioremedial enhancement required further evaluation beyond the USEPA's Remedial Action Branch's required timeframe for transfer of the site to the NYSDEC. Therefore, in November 2004, USEPA's Removal Action Branch along with ERT/REAC were able to provide continual field support to install the necessary piping for the bioremediation system. However, it was determined that purchasing or rental of the bioremediation system was beyond the scope of their existing contract. Therefore, in May 2005, Earth Tech, EPA Region II ERRS contractor, procured and installed a PHOSter™ bioremediation system at the Site. Further details of the bioremediation system are included in Section 2.3 of this report.

The system performance was evaluated in June 2006 with a soil sampling program designed to collect subsurface soil samples for chemical testing and methanotrophs. The results of this evaluation were presented in the Final PHOSter™ System Soil Sampling Report (June 2006 Sampling Event) (Earth Tech, October 2006). The report concluded that the system was removing VOCs from the soil column; however, pockets of contamination still remained. The report recommended that the system continue to operate for another six months at which time the performance would again be evaluated.

1.1.2 USEPA/Earth Tech Groundwater Pump And Treat System Evaluation Sampling (August 31, 2005)

In an effort to evaluate the current status of the GW P&T system, on August 31, 2005, three groundwater samples (including one field duplicate) were shipped to Mitkem Corporation for VOC analysis by USEPA Method 624, along with three air samples (also including one field duplicate), which were shipped to Con-Test Analytical Laboratory for total organic analysis.

The groundwater samples were collected after a minimum of five gallons was purged from the sample ports located within the treatment system. Samples were collected from the influent (INFLUENT) and effluent (EFFLUENT, as well as duplicate sample EFFLUENT-A) of the treatment system for volatile organics analysis.

The air samples were collected using Summa canisters for a period of two minutes per sample. Samples were collected from post air stripper (POST AIR STRIPPER, along with a field duplicate POST AIR STRIPPER-A) and post carbon (POST CARBON) of the treatment system for total organics analysis. Further details of the August 31, 2005 sampling activities are detailed in a Sampling Trip report dated August 31, 2005.

Results of the GW P&T system evaluation sampling performed on August 31, 2005 indicated no contamination was being treated by the Groundwater Pump and Treat system, and contaminants were not detected (at a detection limit of 5 ppb) in the influent. Therefore, on October 6, 2005 Earth Tech recommended the shut-down of the SMS groundwater pump and treatment plant and in a letter dated October 21, 2005 the NYSDEC approved the temporary shutdown of the groundwater treatment plant. The NYSDEC letter also indicated that groundwater sampling will continue to determine if any significant rebound occurs. If no rebound is observed after a reasonable period of time, the treatment system will be permanently shut down and dismantled.

2.0 PHOSter™ SYSTEM

2.1 TECHNOLOGY DESCRIPTION

The Enhanced In-Situ Bioremediation Process is a biostimulation technology developed by the US Department of Energy (DOE) at the Westinghouse Savannah River Plant site in Aiken, S.C. DOE refers to their phosphate injection technology as PHOSter™ and has licensed the process to Earth Tech. Earth Tech is utilizing the process to deliver a gaseous phase mixture of air, nutrients, and methane to contaminated soils at the SMS site. These enhancements are delivered to groundwater via injection wells to stimulate and accelerate the growth of existing microbial populations, especially methanotrophs. This type of aerobic bacteria has the ability to metabolize methane and produce enzymes capable of degrading chlorinated solvents and their degradation products to non-hazardous constituents. The primary components of Earth Tech's treatment system consist of injection wells, air injection equipment, groundwater monitoring wells, and soil vapor monitoring points. Figure 2 shows a plan view of the treatment area, the injection wells, and monitoring points. The injection wells are designed to deliver air, gaseous-phase nutrients, and methane to groundwater and the vadose zone in the underlying soils.

The SMS system consists of two compressors that are capable of delivering 10 to 20 pounds per square inch (psi) and approximately 10 to 200 standard cubic feet per hour (scfh) to a pressure rated steel tank. Air from the main line is diverted to the injection wells. The monitoring wells and soil vapor monitoring points were installed as part of a proposed air sparging and vacuum extraction system that was never completed instead PHOSter™ injection was selected for implementation. The soil vapor monitoring points can be designed to release or capture vapors that may build up in the overburden.

The SMS injection system consists of air, nutrient, and methane injection equipment (all housed in a mobile trailer). A compressor serves as the air source, and includes a condensate tank ("trap") with a drain, an air line, coalescing filters and pressure regulators and valves. Methane and nitrous oxide provide the source of carbon and nitrogen, respectively. Both are provided in standard gas cylinders and are piped into the main air line using regulators and flow meters. Triethyl phosphate (TEP), the phosphorus source, is stored as a liquid in a pressure-rated steel tank. Air from the main line is diverted through the tank to volatilize the TEP for subsurface delivery. The air, nitrous oxide, and TEP are injected continuously while the methane is injected on a pulsed schedule. The methane is closely monitored just prior to injecting into subsurface wells to ensure that the injection concentration does not exceed 4% by volume, thus avoiding the methane lower explosive limit (LEL) of 5%.

2.2 TECHNOLOGY SELECTION RATIONALE

The PHOSter™ technology was chosen for this site for a number of reasons. Contaminant concentrations in the groundwater are at very low asymptotic levels and it was felt that the pump and treat system was no longer capable of removing a sufficient mass of contamination to justify operation. A system of groundwater and vadose zone wells were already in place that would be suitable for economically installing this technology. Soil and groundwater sampling results indicated existing biological activity was slowly degrading the contaminants. The site geology and hydrogeology was also ideal for this technology. The PHOSter™ technology has demonstrated ability to stimulate bacterial activity, promote the destruction of contaminants and act as a polishing technology for removal low levels of contamination often encountered in the final stages of site remediation.

2.3 EVALUATION OF PHOSter™ SAMPLING RESULTS

Air samples are tested from on-site monitoring wells two times per month by Earth Tech staff scientists. The air is monitored for methane and CO2 in percent with a CES-LANDTEC GEMTM 500 portable gas analyzer. A MultiRAE meter is used to analyze for CO, O_2, and H_2S. A MultiRAE PID is used to monitor for VOCs.

The data indicate that organic vapors in the monitoring wells have in general been decreasing steadily since the installation of the PHOSter™ system. Methane concentrations have been somewhat variable but that is attributed to the fact that methane is being added in pulse doses to stimulate biological activity in the soil. The presence of methane in variable concentrations depending upon the timing of sampling events was expected and is desirable as an indication of the proper function of the system. Other parameters, such as O_2 and CO_2, indicate that biological activity has increased. The O_2 levels have decreased, indicating increased aerobic biological activity that requires oxygen, and the CO_2 levels have increased, also indicating biological activity has been stimulated.

2.4 PHOSter™ SYSTEM EFFECTIVENESS EVALUATION

On June 28 and 29, 2006, Earth Tech advanced six soil borings and collected subsurface soil samples for analysis of VOCs, semivolatile organic compounds (SVOCs), pospholipid fatty acids (PLFA) and methanotrophs. The results were presented in the Final PHOSter™ System Soil Sampling Report dated October 2006. The results indicated that contaminant concentrations were decreasing; however, soil samples collected near the former dry well had contaminant concentrations exceeding applicable cleanup criteria. Based on the analytical results, Earth Tech recommended that the system continue to operate for an additional six months, at which time another round of soil samples would be collected and evaluated.

Amendment 14.1 for this work assignment was issued by NYSDEC in February 2007.

3.0 FIELD ACTIVITIES

As a follow up to the June 2006 sampling effort, three boring locations were chosen to focus this round of sampling on those areas exhibiting persistent VOCs in order to evaluate the current conditions regarding the residual VOCs. Boring locations DW, SB-12 and SB-16 were chosen based on the June 2006 sampling results. Two borings were offset from each of these three locations. Targeted sampling intervals were similar to those from the June 2006 sampling event. A total of six soil borings were advanced over a two day period to collect soil samples from varying depths for laboratory analyses. On the first day (March 22, 2007), samples from four soil borings (SB-12, SB-12B, BS-16 and SB-16B), were shipped to Mitkem Corporation and Microbial Insights, Inc. for analysis of VOCs, phospholipid fatty acid (PLFA) and Methanotrophs, respectively. Extra volume was taken from SB-16 (22.3 to 23.5 ft) for matrix spike/matrix spike duplicate (MS/MSD) analysis and one field duplicate sample SB-16B (22.5 to 23.5 ft bgs). The soil samples were collected from depths ranging from sixteen to thirty-one feet.

On the second day (March 23, 2007), samples from two borings (DW and DWB), were shipped to Mitkem Corporation and Microbial Insights, Inc. for analysis of VOCs, PLFA and Methanotrophs. Boring logs are in Appendix A.

3.1 SAMPLE NUMBERS AND COLLECTION POINTS

Figure 2 is a site map of SMS Instruments which shows the locations of the PHOSter™ system soil sampling locations. Table 1 shows the VOCs results of the soil samples collected during the March 2007 sampling effort. The Form 1s from the Mitkem Laboratory data package are included in Appendix B. Table 2 lists the results of the methanotrophs population samples. The Microbial Insights laboratory data package is included in Appendix C. Every effort was made to collect soil samples from the same intervals as were collected during the June 2006 sampling effort. Samples were usually collected at the capillary fringe/ water table (16 feet below ground surface [ft bgs]), the targeted zone containing elevated residual VOCs (20-24 ft bgs), and at the bottom of the soil core boring (30 ft bgs) below the targeted treatment zone.

3.2 DATA INTERPRETATION AND EVALUATION

At the SMS site, gaseous phase bioremediation amendments are being injected in site groundwater to biodegrade the remaining VOCs in the saturated zone following the application of multiple remediation technologies including years of pump and treat system operation. The pump and treat system operation was suspended in 2005 based on a number reasons including the lack of VOC concentrations in the extracted groundwater and fouling/treatment issues detailed in previous correspondence. The VOC concentrations in groundwater, following pump and treat suspension, continues to indicate that VOC concentrations have not rebounded and remain below action levels. The groundwater seepage velocity was estimated to be on the order of 0.27 feet per day in the Remediation System Evaluation Report dated December 2003. The groundwater data, coupled with the soil data discussed in the following paragraphs, are consistent with the continued suspension of the pump and treat operation and decommissioning of the existing ineffective pump and treat system.

3.2.1 Bioremediation Process Description

The gaseous phase bioremediation amendments will stimulate bacterial populations capable of direct aerobic and aerobic cometabolic bioremediation. The advantage of the aerobic cometabolic

bioremediation is that at low VOC concentrations (as at this site) there may not be an adequate carbon source available to support bacterial growth for direct aerobic biodegradation. With the addition of an alternative carbon source (methane), the microbial population (methanotrophs) can multiply and produce an enzyme (soluble methane mono-oxygenase [sMMO]) that fortuitously degrades a number of VOCs to non-toxic end products. Furthermore, these methanotrophs typically adhere to soil grain surfaces and would be ideally located for the degradation of the remaining residual adsorbed contaminants.

Biosparging is very similar to air sparging, with the primary difference being that biosparging includes the addition of gaseous phase nutrients and cosubstrates to stimulate bioremediation. Air sparging can be an efficient groundwater cleanup technology for the removal of elevated dissolved phase contamination through volatilization during the initial phases of groundwater cleanup. For this site, the transfer of the adsorbed contaminants to the dissolved phase appears to be a slow process based on the low VOC concentrations in groundwater. Therefore, the most effective cleanup technology at this stage in the site cleanup would be bioremediation. Several types of data are used to evaluate biodegradation with the two primary data results being the microbial population and contaminant concentration which are discussed in the following sections.

3.2.2 Microbial Data Results

Six soil samples were collected from varying depths and locations within the water-bearing zone and analyzed for the abundance of methanotrophs. Methanotrophs are a group of bacteria that are considered ubiquitous in the environment (Hanson and Hanson, 1996), but are often a minor group within the natural subsurface bacterial populations. Table 1 presents the methanotrophs data for the soil samples: total methanotrophs; Type I methanotrophs; and Type II methanotrophs. The type I methanotrophs appear to be best adapted to grow at low methane concentrations. The growth of some type II methanotrophs is favored when methane levels are high, when combined nitrogen and oxygen levels are low, and when copper is substantially depleted in the growth media. The conditions in groundwater appear to favor the growth of the type II methanotrophs and the synthesis of sMMO that is essential for the rapid degradation of trichloroethene (TCE) and some other low molecular-weight halogenated hydrocarbons." (Hanson and Hanson, 1996) However, type I methanotrophs can also produce sMMO. The expression of the sMMO enzyme is the important mechanism of methanotrophs. The enzyme fortuitously breaks down a number of VOCs including the targeted compounds at this site.

As expected, methanotrophs were detected in all six soil samples. An abundant methanotroph population (10^{10} cells per gram) was reported for soil samples collected at the targeted shallower depths (18-25 ft bgs). This methanotroph population size is consistent with a successfully stimulated subsurface in the range that is conducive for VOC degradation. This coincides with the targeted amendment injection that was implemented after the June 2006 results were evaluated. After the June 2006 results were evaluated, Earth Tech turned off several injection points and directed the injection to focus on the three remaining hot spots, DW, SB-12 and SB-16. These microbial results indicate the successful stimulation of the methanotrophs in these targeted areas as indicated on Table 2 which shows both the June 2006 and March 2007 methanotrophs data. Due to buoyancy of the gaseous phase amendments, the amendments flow up through the saturated zone from the deeper injection locations into the targeted capillary and shallow groundwater zones.

3.2.3 VOC Data Results

The laboratory results from the September 2006 groundwater sampling event (Earth Tech, December 2006) had indicated that the low VOC concentrations detected in groundwater above the cleanup goals

prior to initiation of the enhanced bioremediation system had subsequently been reduced to below detection in many cases and at others below the cleanup goals. Therefore soil sampling and analyses was performed to ascertain the current status of VOCs adsorbed to soil in the saturated zone.

Eighteen soil samples were collected and analyzed for VOCs from locations and depths at which elevated concentrations of benzene, toluene, ethylbenzene and total xylenes (BTEX) concentrations had been reported during the June 2006 soil sampling.

Table 3 presents a summary of the detected VOCs results for the March 2007 soil sampling event along with the NYSDEC Recommended Soil Cleanup Objectives RSCOs). These results are also summarized on Figure 3. The majority of the VOCs that were detected were reported to be below the NYSDEC RSCOs. The total xylene and total VOC concentrations exceed their NYSDEC RSCO of 1,200 µg/kg and 10,000 µg/kg, respectively, in two of the soil samples. Concentrations of total xylenes for these two soil samples were 1,200 µg/kg in sample B12B (23.5-24.5 ft bgs) and 23,000 µg/kg in DWB (24-25 ft bgs). Total VOCs concentrations for these two samples were 114,360 µg/kg and 179,340 µg/kg, respectively. Both of these samples were collected from the soil borings in the area of the former drywell (Figure 3) and were collected from depths ranging between 23-25 ft bgs (smear zone). Figure 4 shows an isopleth map of the total VOCs concentrations of the March 2007 samples from the 23.5 to 24.5 depth interval.

Table 4 presents a comparison of the VOCs results for the June 2006 soil samples and the soil samples collected in March 2007. These data suggest a significant reduction in the targeted VOCs concentrations in the soil at these three locations: DW, SB-12 and SB-16. The data also indicate that residual soil contamination is in very small, isolated pockets as shown at boring location DW. For example, the original DW location from June 2006 indicated a total VOC concentration of 140,241 µg/kg in the 19-20 ft bgs sample interval. The two off-set borings (DW and DWB) drilled a few feet away in March 2007 had total VOC concentrations of 18 µg/kg and zero in the same depth interval. At boring location DW in the 24-25 ft bgs interval, the total VOC concentration in the June 2006 sample was 94,300 µg/kg while the total VOC concentration in the two March 2007 off-set borings (DW and DWB) had total VOC concentrations of zero and 179,340 µg/kg in the same depth interval.

3.3 COMPARISON OF THE JUNE 2006 AND MARCH 2007 DATA

Table 4 presents a summary of the VOCs data from the June 2006 soil data. The data are also summarized on Figure 5. An isopleth map of the Total VOCs concentrations is shown on Figure 6. When the 2006 data is compared with the 2007 data as shown on Figures 4 (2007) and 6 (2006), it is evident that the total VOCs concentrations are decreasing over time. The area of high VOCs concentration around boring SMS-12 has decreased significantly as the concentrations at SMS-12 are now below the RSCO of 10,000 µg/kg and the area of contamination is now centered at SMS-12B. Similarly, the area of exceedance noted in 2006 at SMS-16 has now decreased to below the RSCO. The extent of the contamination at the drywell, boring DW has also decreased from 2006 to 2007. The total VOC concentration at boring DW is now below the RSCO.

4.0 RECOMMENDATIONS

Based on the soil and groundwater results discussed above, Earth Tech recommends that gaseous phase bioremediation amendment injection be continued with system modifications to focus on the limited areas (former dry well and soil boring SMS-SB-12 locations) that were reported above the cleanup objectives for soil. The new bioremediation amendment injection configuration would be operated for an additional six month period followed by resampling and analysis of the soil in these final remaining areas.

The next semi-annual groundwater monitoring and sampling event is scheduled for August 2007.

TABLE 1
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, MARCH 2007
SUMMARY OF METHANOTROPHS DATA

Boring Location	SB-12	SB-12B	SB-16	SB-16B	DW	DWB
Sample ID	SMS12235245	SMS12B235245	SMSSB16225235	SMSSB16B225235	SMSDW2425	SMSDWB2425
Sample Date	3/22/07	3/22/07	3/22/07	3/22/07	3/23/07	3/23/07
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)	23.5 - 24.5	23.5 - 24.5	22.5 - 23.5	18-19	24 - 25	24 - 25
Units	cells/gram	cells/gram	cells/gram	cells/gram	cells/gram	cells/gram
Methanotrophs (total)	2.65E + 10	1.56E + 10	4.67E + 10	9.16E + 10	7.57E + 10	3.41E + 10
Type I MOB	7.55E + 08	8.91E + 08	1.17E + 10	6.20E + 09	5.95E + 09	3.31E + 09
Type II MOB	2.58E + 10	1.47E + 10	4.55E + 10	5.84E + 10	6.94E + 10	3.08E + 10

TABLE 2
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING
SUMMARY OF METHANOTROPHS DATA (2006 and 2007)

Boring Location	SMS-SB12	SMS-SB12	SMS-SB16	SMS-DW	SMS-DW	SMS-SB10	SMS-SB15	SMS-SB21
Sample ID	SMS-SB12-16-17	SMS-SB12-29-30	SMS-SB16-19-20	SMS-DW-19-20	SMS-DW-30-31	SMS-SB10-18-19	SMS-SB15-27-28	SMS-SB21-22-23
Sample Depth	16 - 17	29 - 30	19 - 20	19 - 20	30 - 31	18 - 19	27 - 28	22 - 23
Sample Date	6/28/06	6/28/06	6/29/06	6/28/06	June 2006	6/28/06	6/29/06	6/28/06
Methanotrophs (total)	3.2 E + 07	7.37 E + 06	5.07 E + 06	2.9 E + 08	8.49 E + 05	3.77 E + 08	7.27 E + 04	2.31 E + 08
Type I MOB	1.56 E + 07	7.45 E + 05	1.46 E + 05	7.28 E + 07	2.52 E + 05	2.07 E + 08	1.27 E + 04	1.26 E + 08
Type II MOB	1.65 E + 07	6.62 E + 06	4.92 E + 06	2.17 E + 08	5.97 E + 05	1.7 E + 08	6 E + 04	1.05 E + 08

Boring Location	SB-12	SB-12B	SB-16	SB-16B	DW	DWB
Sample ID	SMS12235245	SMS12B235245	SMSSB16225235	SMSSB16B225235	SMSDW2425	SMSDWB2425
Sample Depth	23.5 - 24.5	23.5 - 24.5	22.5 - 23.5	18 - 19	24 - 25	24 - 25
Sample Date	3/22/07	3/22/07	3/22/07	3/22/07	3/23/07	3/23/07
Methanotrophs (total)	2.65E + 10	1.56E + 10	4.67E + 10	9.16E + 10	7.57E + 10	3.41E + 10
Type I MOB	7.55E + 08	8.91E + 08	1.17E + 10	6.20E + 09	5.95E + 09	3.31E + 09
Type II MOB	2.58E + 10	1.47E + 10	4.55E + 10	5.84E + 10	6.97E + 10	3.08E + 10

TABLE 3
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, MARCH 2007
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Sample Location		B12	B12	B12	B12B	B12B
Sample ID		B121920	B12235245	B122930	B12B1920	B12B235245
Laboratory ID	NYSDEC	F0378-01A	F0378-02A	F0378-03A	F0378-04A	F0378-05A
Sample Date	RSCO	3/22/07	3/22/07	3/22/07	3/22/07	3/22/07
Matrix		Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)		19-20	23.5-24.5	29-30	19-20	23.5-24.5
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	200	ND	ND	ND	ND	ND
Ethylbenzene	5,500	ND	ND	ND	ND	ND
Xylenes (total)	1,200	ND	ND	ND	ND	***1,200***
Isopropylbenzene	*	ND	ND	ND	ND	2,300 D
n-Propylbenzene	*	ND	ND	ND	ND	4,600 D
1,3,5-Trimethylbenzene	*	ND	260	ND	ND	32,000 D
1,2,4-Trimethylbenzene	*	ND	ND	ND	ND	51,000 D
sec-Butylbenzene	*	ND	ND	ND	ND	3,400 D
4-Isopropyltoluene	*	ND	84	ND	ND	4,700 D
1,4-Dichlorobenzene	8,500	ND	ND	ND	ND	ND
n-Butylbenzene	*	ND	ND	ND	ND	15,000 D
Naphthalene	*	ND	ND	ND	ND	160
Total VOCs	<10,000	0	344	0	0	***114,360***
Total VOC TICs		28,400	11,180	ND	ND	37,700

Notes:
* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)
1 - SB16C is a duplicate of SB16B225235
BOLD - exceeds the Recommended Soil Cleanup Objective (RSCO)
J - Estimated value
E - Result exceeds the calibration range, estimated value
D - Diluted sample
Data validation has NOT been performed on this data

TABLE 3
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, MARCH 2007
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Sample Location		B12B	B16	B16	B16	B16B
Sample ID		B12B2930	B161920	B16235245	B162930	B16B1920
Laboratory ID	NYSDEC	F0378-06A	F0378-11A	F0378-12A	F0378-13A	F0378-07A
Sample Date	RSCO	3/22/07	3/22/07	3/22/07	3/22/07	3/22/07
Matrix		Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)		29-30	19-20	23.5-24.5	29-30	19-20
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	200	ND	ND	47	ND	ND
Ethylbenzene	5,500	ND	ND	ND	ND	ND
Xylenes (total)	1,200	ND	ND	ND	ND	ND
Isopropylbenzene	*	ND	ND	ND	ND	ND
n-Propylbenzene	*	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*	ND	70	120	ND	ND
1,2,4-Trimethylbenzene	*	ND	51 J	55	ND	ND
sec-Butylbenzene	*	ND	ND	ND	ND	ND
4-Isopropyltoluene	*	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	ND	ND	ND	ND	ND
n-Butylbenzene	*	ND	ND	ND	ND	ND
Naphthalene	*	ND	ND	ND	ND	ND
Total VOCs	<10,000	0	121	222	0	0
Total VOC TICs		ND	42,000	33,300	ND	8,120

Notes:
* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)
1 - SB16C is a duplicate of SB16B225235
BOLD - exceeds the Recommended Soil Cleanup Objective (RSCO)
J - Estimated value
E - Result exceeds the calibration range, estimated value
D - Diluted sample
Data validation has NOT been performed on this data

TABLE 3
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, MARCH 2007
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Sample Location		B16B	B16C	B16CRE	B16B	DW
Sample ID		B16B225235	B16C[1]	B16CRE	B16B2930	DW-1920
Laboratory ID	NYSDEC	F0378-08A	F0378-10A	F0378-10ARE	F0378-09A	F0378-15A
Sample Date	RSCO	3/22/07	3/22/07	3/22/07	3/22/07	3/23/07
Matrix		Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)		22.5-23.5			29-30	19-20
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	200	ND	38	ND	ND	ND
Ethylbenzene	5,500	ND	ND	ND	ND	ND
Xylenes (total)	1,200	50 J	ND	ND	ND	ND
Isopropylbenzene	*	ND	ND	ND	ND	ND
n-Propylbenzene	*	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*	480	150	100	ND	ND
1,2,4-Trimethylbenzene	*	300	ND	ND	ND	ND
sec-Butylbenzene	*	ND	ND	ND	ND	ND
4-Isopropyltoluene	*	120	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	ND	ND	ND	ND	ND
n-Butylbenzene	*	ND	ND	ND	ND	ND
Naphthalene	*	ND	ND	ND	ND	18 J
Total VOCs	<10,000	950	188	100	0	18
Total VOC TICs		104,500	21,400	52,900	ND	2,270

Notes:

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)

1 - SB16C is a duplicate of SB16B225235

BOLD - exceeds the Recommended Soil Cleanup Objective (RSCO)

J - Estimated value

E - Result exceeds the calibration range, estimated value

D - Diluted sample

Data validation has NOT been performed on this data

TABLE 3
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, MARCH 2007
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Sample Location		DW	DW	DWB	DWB	DWB
Sample ID		DW-2425	DW-2930	DWB-1920	DWB-2425	DWB-2930
Laboratory ID	NYSDEC	F0378-16A	F0378-17A	F0378-18A	F0378-19A	F0378-20A
Sample Date	RSCO	3/23/07	3/23/07	3/23/07	3/23/07	3/23/07
Matrix		Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)		24-25	29-30	19-20	24-25	29-30
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	200	ND	ND	ND	ND	ND
Ethylbenzene	5,500	ND	ND	ND	3,100 D	ND
Xylenes (total)	1,200	ND	ND	ND	***23,000*** D	ND
Isopropylbenzene	*	ND	ND	ND	5,200 D	ND
n-Propylbenzene	*	ND	ND	ND	10,000 D	ND
1,3,5-Trimethylbenzene	*	ND	ND	ND	41,000 D	ND
1,2,4-Trimethylbenzene	*	ND	2 J	ND	73,000 D	ND
sec-Butylbenzene	*	ND	ND	ND	ND	ND
4-Isopropyltoluene	*	ND	ND	ND	4,700 D	ND
1,4-Dichlorobenzene	8,500	ND	ND	ND	1,400	ND
n-Butylbenzene	*	ND	ND	ND	17,000 D	ND
Naphthalene	*	ND	ND	ND	940	ND
Total VOCs	<10,000	0	2	0	***179,340***	0
Total VOC TICs		474	159	1,179	9,660	51

Notes:
* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)
1 - SB16C is a duplicate of SB16B225235
BOLD - exceeds the Recommended Soil Cleanup Objective (RSCO)
J - Estimated value
E - Result exceeds the calibration range, estimated value
D - Diluted sample
Data validation has NOT been performed on this data

TABLE 4
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING
COMPARISON OF JUNE 2006 AND MARCH 2007 VOCs DATA, DETECTIONS ONLY

Sample Location		B12	B12B	SB-12	B12	B12B	SB-12	B12	B12B
Sample ID		B121920	B12B1920	SMS-SB-12-23.5-24.	B12235245	B12B235245	SMS-SB-12-29-30	B122930	B12B2930
Laboratory ID	NYSDEC	F0378-01A	F0378-04A		F0378-02A	F0378-05A		F0378-03A	F0378-06A
Sample Date	RSCO	3/22/07	3/22/07	6/28/06	3/22/07	3/22/07	6/28/06	3/22/07	3/22/07
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)		19-20	19-20	23.5-24.5	23.5-24.5	23.5-24.5	29-30	29-30	29-30
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	200	ND	ND	**3,500** E	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	3 J	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5,500	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	1,200	ND	ND	**3,800 D**	ND	**1,200**	ND	ND	ND
Isopropylbenzene	*	ND	ND	ND	ND	2,300 D	ND	ND	ND
n-Propylbenzene	*	ND	ND	7,000 D	ND	4,600 D	3 J	ND	ND
1,3,5-Trimethylbenzene	*	ND	ND	50,000 D	260	32,000 D	44	ND	ND
tert-Butylbenzene		ND	ND	1,800 DJ	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*	ND	ND	55,000 D	ND	51,000 D	72	ND	ND
sec-Butylbenzene	*	ND	ND	4,400 D	ND	3,400 D	ND	ND	ND
4-Isopropyltoluene	*	ND	ND	360 E	84	4,700 D	40	ND	ND
1,3-Dichlorobenzene		ND	ND	210	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	ND	ND	320 E	ND	ND	ND	ND	ND
n-Butylbenzene	*	ND	ND	18,000 D	ND	15,000 D	240	ND	ND
1,2 Dichlorobenzene		ND	ND	98	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	2 J	ND	ND	ND	ND	ND
Naphthalene	*	ND	ND	3 J	ND	160	4 J	ND	ND
1,2,3-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	<10,000	0	0	**144,493**	344	**114,360**	406	0	0
Total VOC TICs		28,400	ND		11,180	37,700		ND	ND

Notes:

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)

BOLD - exceeds the Recommended Soil Cleanup Objective (RSCO)

J - Estimated value

E - Result exceeds the calibration range, estimated value

D - Diluted sample

Data validation has NOT been performed on this data

TABLE 4
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING
COMPARISON OF JUNE 2006 AND MARCH 2007 VOCs DATA, DETECTIONS ONLY

Sample Location		SB-16	B16	B16B	SB-16	B16	B16B	SB-16	B16	B16B
Sample ID		SMS-SB-16-19-20	B161920	B16B1920	SMS-SB-16-22.5-23.	B16235245	B16B225235	SMS-SB-16-29-30	B162930	B16B2930
Laboratory ID	NYSDEC		F0378-11A	F0378-07A		F0378-12A	F0378-08A		F0378-13A	F0378-09A
Sample Date	RSCO	6/29/06	3/22/07	3/22/07	6/29/06	3/22/07	3/22/07	6/29/06	3/22/07	3/22/07
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)		19-20	19-20	19-20	22.5-23.5	23.5-24.5	22.5-23.5	29-30	29-30	29-30
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	200	ND	ND	ND	**960**	47	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5,500	ND	ND	ND	2,100 E	ND	ND	ND	ND	ND
Xylenes (total)	1,200	ND	ND	ND	**13,000 D**	ND	50 J	ND	ND	ND
Isopropylbenzene	*	ND	ND	ND	1,400 DJ	ND	ND	ND	ND	ND
n-Propylbenzene	*	ND	ND	ND	1,200 E	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*	ND	70	ND	24,000 D	120	480	ND	ND	ND
tert-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*	ND	51 J	ND	32,000 D	55	300	ND	ND	ND
sec-Butylbenzene	*	ND	ND	ND	1,000	ND	ND	ND	ND	ND
4-Isopropyltoluene	*	ND	ND	ND	ND	ND	120	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	ND	ND	ND	1,800 E	ND	ND	ND	ND	ND
n-Butylbenzene	*	ND	ND	ND	1,700 E	ND	ND	ND	ND	ND
1,2 Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*	ND	ND	ND	130	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	<10,000	0	121	0	**79,290**	222	950	**0**	0	0
Total VOC TICs			42,000	8,120		33,300	104,500		ND	ND

Notes:

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)

BOLD - exceeds the Recommended Soil Cleanup Objective (RSCO)

J - Estimated value

E - Result exceeds the calibration range, estimated value

D - Diluted sample

Data validation has NOT been performed on this data

TABLE 4
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING
COMPARISON OF JUNE 2006 AND MARCH 2007 VOCs DATA, DETECTIONS ONLY

Sample Location		DW	DW	DWB	DW	DW	DWB	DW	DW	DWB
Sample ID		SMS-DW-9-20	DW-1920	DWB-1920	SMS-DW-24-25	DW-2425	DWB-2425	SMS-DW-30-31	DW-2930	DWB-2930
Laboratory ID	NYSDEC		F0378-15A	F0378-18A		F0378-16A	F0378-19A		F0378-17A	F0378-20A
Sample Date	RSCO	6/28/06	3/23/07	3/23/07	6/28/06	3/23/07	3/23/07	6/28/06	3/23/07	3/23/07
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (ft bgs)		19-20	19-20	19-20	24-25	24-25	24-25	30-31	29-30	29-30
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	200	66	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		18 J	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		37	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5,500	400	ND	ND	3,700	ND	3,100 D	ND	ND	ND
Xylenes (total)	1,200	**20,000 D**	ND	ND	**33,000**	ND	**23,000** D	ND	ND	ND
Isopropylbenzene	*	210	ND	ND	1,900	ND	5,200 D	ND	ND	ND
n-Propylbenzene	*	280	ND	ND	2,400	ND	10,000 D	ND	ND	ND
1,3,5-Trimethylbenzene	*	34,000 D	ND	ND	17,000	ND	41,000 D	ND	ND	ND
tert-Butylbenzene		ND	ND	ND	600 J	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*	22,000 D	ND	ND	30,000	ND	73,000 D	ND	2 J	ND
sec-Butylbenzene	*	300	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*	1,000	ND	ND	ND	ND	4,700 D	ND	ND	ND
1,3-Dichlorobenzene		**8,700 D**	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	**41,000 D**	ND	ND	**3,900**	ND	1,400	ND	ND	ND
n-Butylbenzene	*	ND	ND	ND	ND	ND	17,000 D	ND	ND	ND
1,2 Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		**10,000 D**	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*	1,900 D	18 J	ND	1,800	ND	940	ND	ND	ND
1,2,3-Trichlorobenzene		330	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	<10,000	**140,241**	18	0	**94,300**	0	**179,340**	0	2	0
Total VOC TICs			2,270	1,179		474	9,660		159	51

Notes:

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)

BOLD - exceeds the Recommended Soil Cleanup Objective (RSCO)

J - Estimated value

E - Result exceeds the calibration range, estimated value

D - Diluted sample

Data validation has NOT been performed on this data

TABLE 5
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, JUNE 2006
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Volatile Organic Compound Analytes:	**NYSDEC RSCO (ppb)**	**Sample ID:** SMS-DW 19-20		**Sample ID:** DRYWELL1		**Sample ID:** SMS-DW 21.5-22.5		**Sample ID:** SMS-DW 24-25		**Sample ID:** SMS-DW 30-31	
Acetone	200	66		64		70		ND		ND	
Chloroform	300	18	J	ND		ND		ND		ND	
Trichloroethene	700	ND		ND		2	J	ND		ND	
Toluene	1500	ND		ND		8		ND		ND	
Chlorobenzene	1700	37		200		ND		ND		ND	
Ethylbenzene	5500	400		ND		130		3,700		ND	
Xylenes (total)	1200	**20,000**	**D**	**4,500**	**D**	**3,400**	**D**	**33,000**		ND	
Isopropylbenzene	*	210		ND		130		1900		ND	
n-Propylbenzene	*	280		1200		93		2400		ND	
2-Chlorotoluene	*	ND		ND		72		ND		ND	
1,3,5-Trimethylbenzene	*	34,000	D	16,000	D	9,700	D	17,000		ND	
tert-Butylbenzene	*	ND		ND		ND		600	J	ND	
1,2,4-Trimethylbenzene	*	22,000	D	9,600	D	7,800	D	30,000		ND	
sec-Butylbenzene	*	300		780		100		ND		ND	
4-Isopropyltoluene	*	1,000		1,000		170		ND		ND	
1,3-Dichlorobenzene	1600	**8,700**	**D**	1,200		140		ND		ND	
1,4-Dichlorobenzene	8500	**41,000**	**D**	**11,000**	**D**	4,600	D	**3,900**		ND	
n-Butylbenzene	*	ND		ND		ND		ND		ND	
1,2 Dichlorobenzene	7900	ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	3400	**10,000**	**D**	210		ND		ND		ND	
Naphthalene	*	1,900	D	810		69		1,800		ND	
1,2,3-Trichlorobenzene	*	330		50		ND		ND		ND	
Total VOCs	**<10000**	**140,241**		**46,614**		**26,484**		**94,300**		0	
BTEX		**20,400**		**4,500**		**3,538**		**36,700**		0	

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)
[1] DRYWELL is a duplicate sample of SMS-DW-19-20

Notes:

All results reported in micrograms per kilograms ug/kg)
Bold indicates the result was above the NYSDEC RSCO
J: Analyte detected but less than the method detection limit, value is estimated
E: Result exceeds the calibration range
D: Dilution run
For samples containing 'DW': This sample was taken from the Dry Well and the numbers represent the depth, in feet, at which the sample was collected.
Data validation has NOT been performed on this data.

TABLE 5
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, JUNE 2006
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Volatile Organic Compound Analytes:	**NYSDEC RSCO (ppb)**	**Sample ID:** SMS-SB-10 18-19	**Sample ID:** SMS-SB-10 24-25	**Sample ID:** SMS-SB-10 28.5-29.5	**Sample ID:** SMS-SB-12 16-17	**Sample ID:** SMS-SB-12 23.5-24.5	**Sample ID:** SMS-SB-12 29-30
Acetone	200	**320** E[1]	**230**	ND	ND	**3500** **E[1]**	ND
Chloroform	300	ND	ND	2 J	ND	ND	3 J
Trichloroethene	700	4 J	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	4 J	ND	ND	ND	ND
Xylenes (total)	1200	ND	150	ND	ND	**3,800** **D**	ND
Isopropylbenzene	*	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*	ND	ND	ND	ND	7,000 D	3 J
2-Chlorotoluene	*	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*	2,500 D	750 D	4 J	ND	50,000 D	44
tert-Butylbenzene	*	180	72	ND	ND	1,800 DJ	ND
1,2,4-Trimethylbenzene	*	51	420 D	3 J	ND	55,000 D	72
sec-Butylbenzene	*	72	ND	ND	ND	4,400 D	ND
4-Isopropyltoluene	*	93	450 E	ND	ND	360 **E[1]**	40
1,3-Dichlorobenzene	1600	270 E[1]	ND	ND	ND	210	ND
1,4-Dichlorobenzene	8500	330 DJ	ND	ND	ND	320 **E[1]**	ND
n-Butylbenzene	*	140	620 D	ND	ND	18,000 D	240
1,2 Dichlorobenzene	7900	ND	ND	ND	ND	98	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	2 J	ND
Naphthalene	*	ND	4 J	ND	ND	3 J	4 J
1,2,3-Trichlorobenzene	*	ND	ND	ND	ND	ND	ND
Total VOCs	**<10000**	**3,960**	**2,700**	**9**	0	**144,493**	**406**
BTEX		**0**	**154**	**0**	0	**3,800**	**0**

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)

[1] This result exceeded the detection limit. A diluted sample was analyzed and reported as not-detected

Notes:

All results reported in micrograms per kilograms ug/kg)

Bold indicates the result was above the NYSDEC RSCO

J: Analyte detected but less than the method detection limit, value is estimated

E: Result exceeds the calibration range

D: Dilution run

For samples containing 'SB': The first number represents the particular soil boring while the second and third numbers represent the depth, in feet, at which the the sample was collected.

Data validation has NOT been performed on this data.

TABLE 5
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, JUNE 2006
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Volatile Organic Compound Analytes:	**NYSDEC RSCO (ppb)**	**Sample ID:** SMS-SB-15 16.5-17.5	**Sample ID:** SMS-SB-15 22-23	**Sample ID:** SMS-SB-15 27-28	**Sample ID:** SMS-SB-16 16.5-17.5	**Sample ID:** SMS-SB-16 22.5-23.5	**Sample ID:** SMS-SB-16 29-30
Acetone	200	ND	ND	ND	ND	**960**	ND
Chloroform	300	ND	ND	ND	2 J	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	2,100 E[1]	ND
Xylenes (total)	1200	ND	ND	ND	ND	**13,000 D**	ND
Isopropylbenzene	*	ND	ND	ND	ND	1,400 DJ	ND
n-Propylbenzene	*	ND	ND	ND	ND	1,200 E[1]	ND
2-Chlorotoluene	*	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*	ND	ND	ND	4 J	24,000 D	ND
tert-Butylbenzene	*	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*	ND	ND	ND	6	32,000 D	ND
sec-Butylbenzene	*	ND	ND	ND	ND	1,000	ND
4-Isopropyltoluene	*	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8500	ND	ND	ND	ND	1,800 E[1]	ND
n-Butylbenzene	*	ND	ND	ND	7	1,700 E[1]	ND
1,2 Dichlorobenzene	7900	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	ND	ND	ND	ND	ND	ND
Naphthalene	*	4 J	3 J	ND	ND	130	ND
1,2,3-Trichlorobenzene	*	ND	ND	ND	ND	ND	ND
Total VOCs	**<10000**	**4**	**3**	**0**	**19**	**79,290**	**0**
BTEX		**0**	**0**	**0**	**0**	**15,100**	**0**

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)

[1] This result exceeded the detection limit. A diluted sample was analyzed and reported as not-detected

Notes:

All results reported in micrograms per kilograms ug/kg)

Bold indicates the result was above the NYSDEC RSCO

J: Analyte detected but the result is less than the method detection limit; value is estimated

E: Result exceeds detection limit

D: Dilution run

For samples containing "SB": The first number represents the particular soil boring while the second and third numbers represent the depth, in feet, at which the sample was collected

Data validation has NOT been performed on this data.

TABLE 5
MULTI SITE G - SMS INSTRUMENTS (SITE # 1-52-026)
PHOSTER SYSTEM SOIL SAMPLING, JUNE 2006
SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL, DETECTIONS ONLY

Volatile Organic Compound Analytes:	**NYSDEC RSCO (ppb)**	**Sample ID:** SMS-SB-21 19-20		**Sample ID:** SMS-SB-21 22-23		**Sample ID:** SMS-SB-22[A]		**Sample ID:** SMS-SB-21 29-30
Acetone	200	ND		110		30		ND
Chloroform	300	2	J	ND		ND		ND
Trichloroethene	700	ND		ND		ND		ND
Toluene	1500	ND		6		ND		ND
Chlorobenzene	1700	ND		ND		4	J	ND
Ethylbenzene	5500	ND		ND		ND		ND
Xylenes (total)	1200	3	J	ND		ND		ND
Isopropylbenzene	*	ND		ND		ND		ND
n-Propylbenzene	*	ND		140		ND		ND
2-Chlorotoluene	*	ND		ND		ND		ND
1,3,5-Trimethylbenzene	*	ND		300	DJ	180		ND
tert-Butylbenzene	*	ND		ND		ND		ND
1,2,4-Trimethylbenzene	*	ND		170	DJ	230		ND
sec-Butylbenzene	*	ND		190		ND		ND
4-Isopropyltoluene	*	ND		360	E[1]	61		ND
1,3-Dichlorobenzene	1600	ND		ND		ND		ND
1,4-Dichlorobenzene	8500	3	J	ND		ND		ND
n-Butylbenzene	*	ND		490	D	ND		ND
1,2 Dichlorobenzene	7900	ND		ND		ND		ND
1,2,4-Trichlorobenzene	3400	ND		ND		ND		ND
Naphthalene	*	ND		ND		ND		ND
1,2,3-Trichlorobenzene	*	ND		ND		ND		ND
Total VOCs	**<10000**	**8**		**1,766**		**505**		**0**
BTEX		**3**		**6**		**0**		**0**

* No official NYSDEC Recommended Soil Cleanup Objective (RSCO)

[A] SMS-SB-22 is a duplicate sample of SMS-SB-21-22-23

[1] This result exceeded the detection limit. A diluted sample was analyzed and reported as not-detected

Notes:

All results reported in micrograms per kilograms ug/kg)

Bold indicates the result was above the NYSDEC RSCO

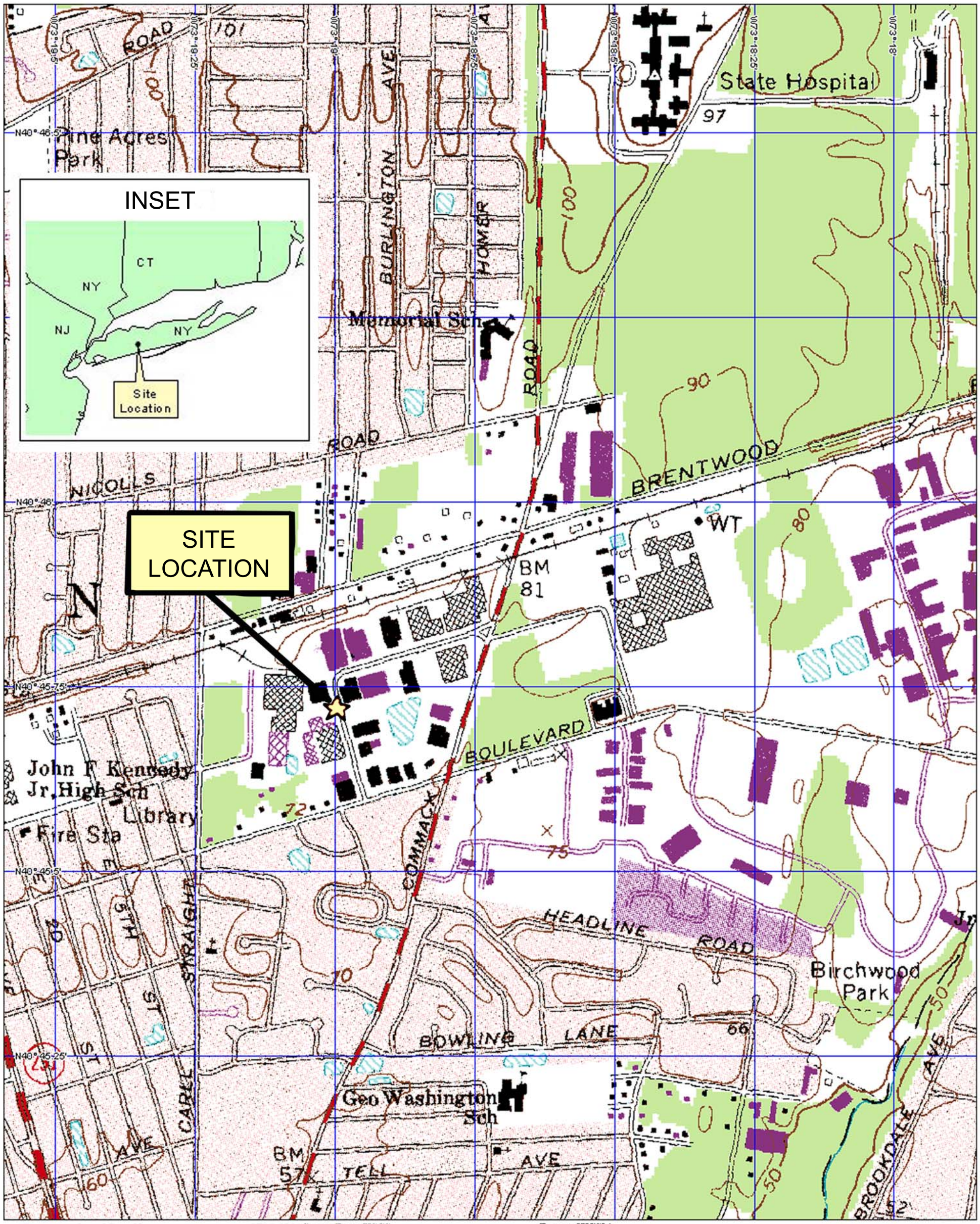
J: Analyte detected but less than the method detection limit, value is estimated

E: Result exceeds the calibration range

D: Dilution run

For samples containing "SB": The first number represents the particular soil boring while the second and third numbers represent the depth, in feet, at which the sample was collected

Data validation has NOT been performed on this data.



Scale 1:12,800

350 FT

N

SOURCE:
Delorme 3-D TopoQuads
Greenlawn, NY
New York
7.5 Minute Series, 1979

Figure 1 - Site Location

SMS INSTRUMENTS
SITE #1-52-026
MULTI SITE G
120 MARCUS BLVD
DEERPARK, NY

EARTH TECH

N

SMS-23

SMS-13

SMS-22

SMS-17

SMS-12

SMS-15

SMS-12B

SMS-10

SMS-24

SMS-19

SMS-16

SMS-18

SMS-16B

SMS-7

SMS-21

SMS-20

SMS-10

8 In-Pipe

SMS-1

SMS-6

DWB

EW-3

MW-6S

SMS-2

SMS-9

DW

MW-6D

SMS-5

SMS-3

SMS-4

SMS-14

SMS-11

20 0 20 40 Feet

Legend

○ Previous Borings

SMS-16 ● New Soil Borings

● Exiting Wells

Figure 2
SOIL BORING LOCATIONS
SMS INSTRUMENTS
DEER PARK, NY

N

DEPTH	TVOCS	BTEX
19-20	ND	ND
23.5-24.5	114,360	ND
29-30	ND	ND

DEPTH	TVOCS	BTEX
19-20	ND	ND
23.5-24.5	344	ND
29-30	ND	ND

DEPTH	TVOCS	BTEX
19-20	121	ND
23.5-24.5	222	ND
29-30	ND	ND

DEPTH	TVOCS	BTEX
19-20	ND	ND
23.5-24.5	950	ND
29-30	ND	ND

DEPTH	TVOCS	BTEX
19-20	ND	ND
23.5-24.5	179,340	26,100
29-30	ND	ND

DEPTH	TVOCS	BTEX
19-20	18	ND
23.5-24.5	0	ND
29-30	2	ND

SMS-23
SMS-13
SMS-22
SMS-12
SMS-12B
SMS-15
SMS-17
SMS-10
SMS-24
SMS-19
SMS-16
SMS-16B
SMS-18
SMS-7
SMS-21
SMS-20
SMS-8
8 In-Pipe
SMS-1
SMS-6
DWB
EW-3
MW-6S
SMS-2
SMS-9
DW
MW-6D
SMS-5
SMS-3
SMS-4
SMS-14
SMS-11

20 0 20 40 Feet

Legend

○ Previous Borings

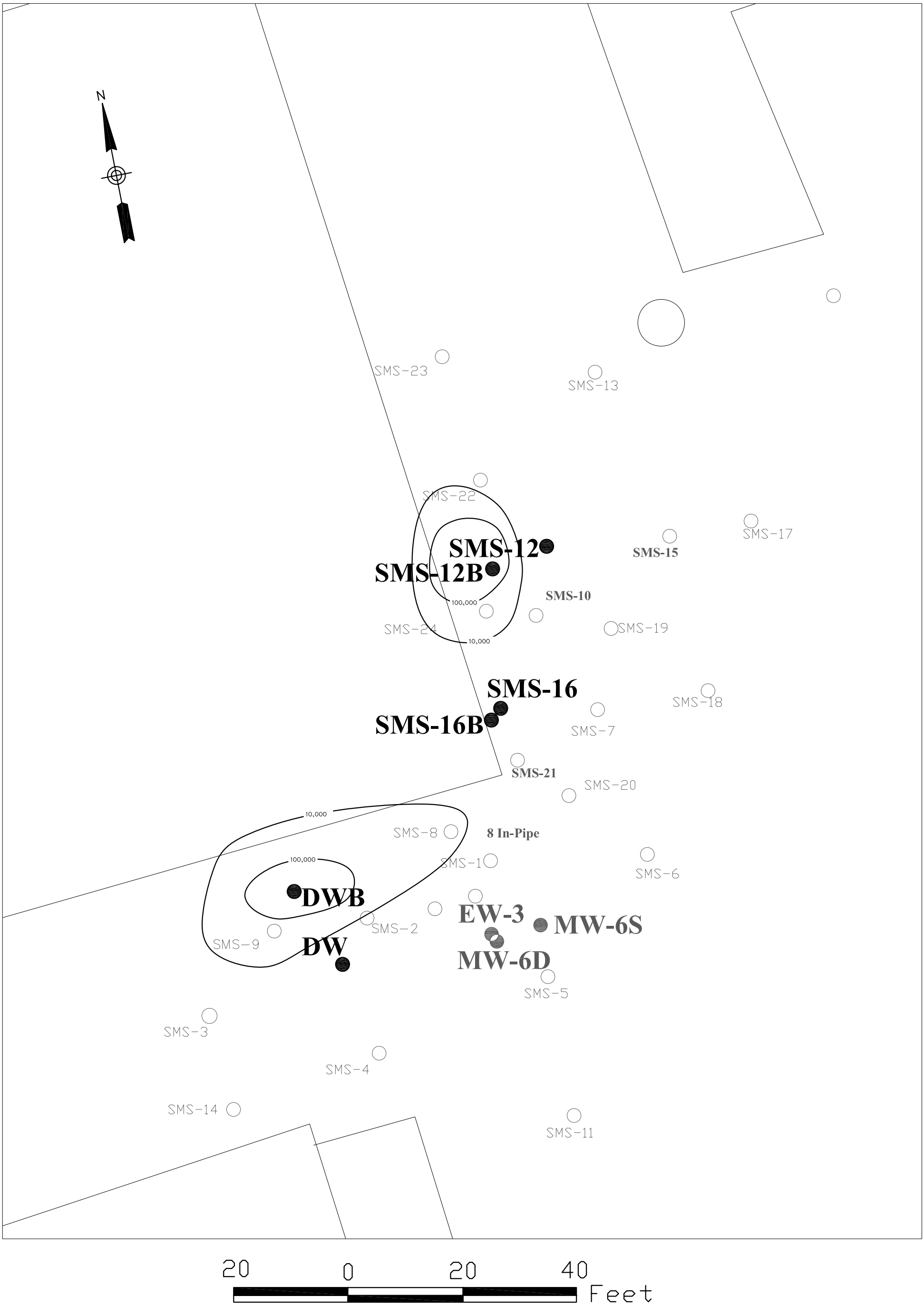
SMS-16 ● New Soil Borings

● Exiting Wells

FIGURE 3

SUMMARY OF TOTAL VOCs AND TOTAL BTEX IN SOIL

MARCH 2007
SMS INSTRUMENTS
DEER PARK, NY



Legend

○ Previous Borings

SMS-16 ● New Soil Borings

● Exiting Wells

10,000
Concentration Isopleth in mg/kg Total VOCs RSCO is 10,000 mg/kg

FIGURE 4

TOTAL VOCs ISOPLETH MAP
23.5-24.5 FT INTERVAL

MARCH 2007
SMS INSTRUMENTS
DEER PARK, NY

N

DEPTH	TVOCS	BTEX
16-17	ND	ND
23.5-24.5	144,493	3,800
29-30	406	ND

DEPTH	TVOCS	BTEX
16.5-17.5	4	ND
22-23	3	ND
27-28	ND	ND

DEPTH	TVOCS	BTEX
18-19	3,960	ND
24-25	2,700	154
28.5-29.5	9	ND

DEPTH	TVOCS	BTEX
16.5-17.5	19	ND
22.5-23.5	79,290	15,100
29-30	ND	ND

DEPTH	TVOCS	BTEX
19-20	8	3
22-23	1766	6
29-30	ND	ND

DEPTH	TVOCS	BTEX
19-20	140,241	20,400
23.5-24.5	26,484	3,538
29-30	94,300	36,700
32-31	ND	ND

SMS-23
SMS-13
SMS-22
SMS-17
SMS-15
SMS-12
SMS-12B
SMS-10
SMS-24
SMS-19
SMS-16
SMS-16B
SMS-18
SMS-7
SMS-21
SMS-20
SMS-8
8 In-Pipe
SMS-1
SMS-6
DWB
EW-3
MW-6S
SMS-2
SMS-9
DW
MW-6D
SMS-5
SMS-3
SMS-4
SMS-14
SMS-11

20 0 20 40 Feet

Legend

○ Previous Borings

SMS-16 ● New Soil Borings

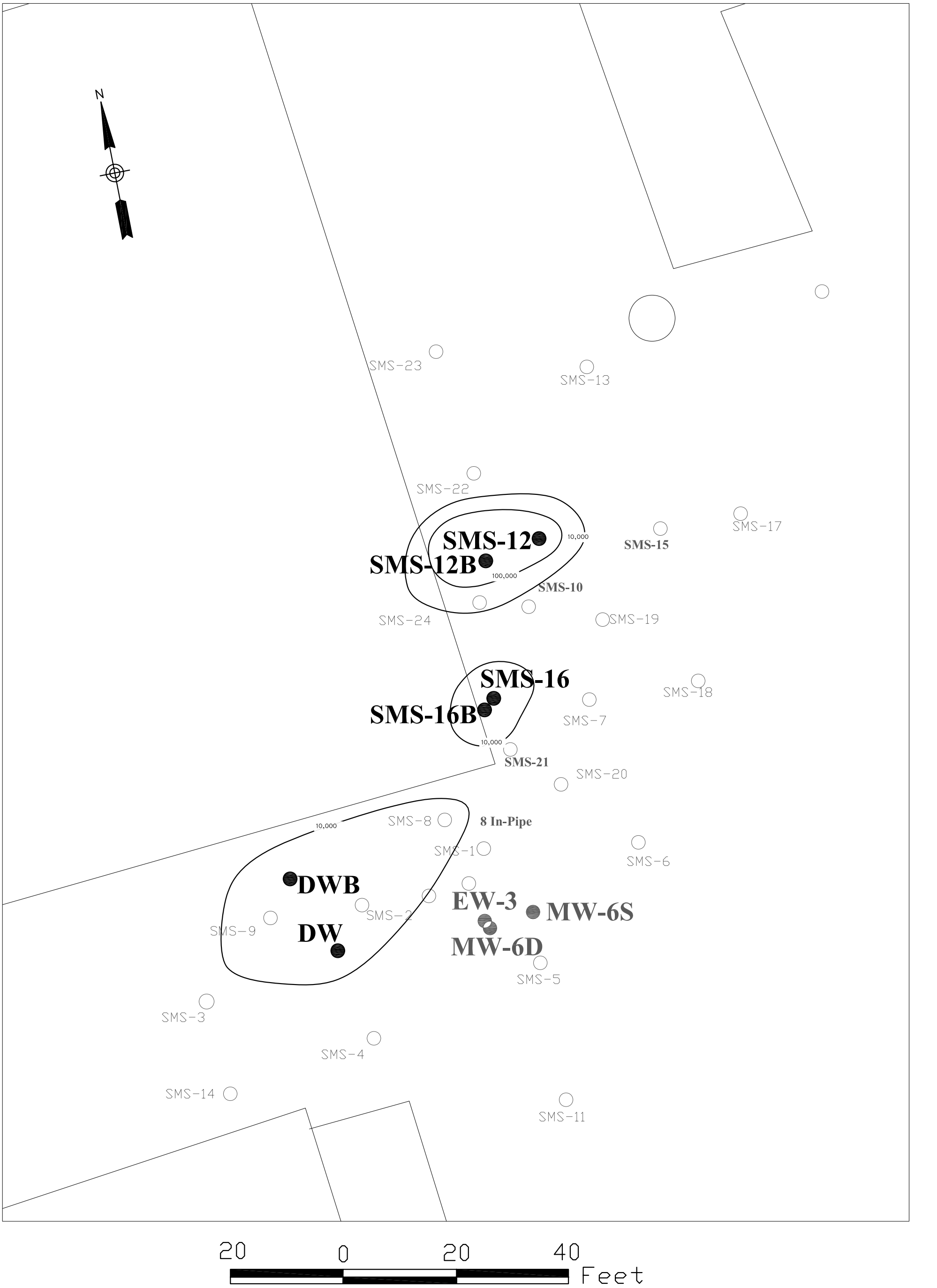
● Exiting Wells

FIGURE 5

SUMMARY TOTAL VOC AND TOTAL BTEX IN SOIL, JUNE 2006

SMS INSTRUMENTS

DEER PARK, NY



Legend

○ Previous Borings

SMS-16 ● New Soil Borings

● Exiting Wells

10,000
Concentration Isopleth in mg/kg Total VOCs RSCO is 10,000 mg/kg

FIGURE 6

TOTAL VOCs ISOPLETH MAP
22-25 FT INTERVAL

JUNE 2007
SMS INSTRUMENTS
DEER PARK, NY

Appendix A

Soil Boring Logs
March 2007 Soil Boring Event

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: DW

PROJECT: SMS Instruments				PAGE 1 OF 3	
PROJECT No.: 95900		CONTRACTOR:	Land, Air, Water Env Ser Inc	DATE:	3/23/2007
LOCATION: Deer Park, NY		DRILLERS NAME:	Eric Bedell	ET REP.:	KDS
WATER LEVELS		DESIGNATION OF DRILL RIG:	Geoprobe 7720 DT		
DATE / TIME / DEPTH		SIZE AND TYPE OF EQUIPMENT:			
		REFERENCE ELEVATION:	DEPTH OF BOREHOLE:		
		THICKNESS OF OVERBURDEN:	DISPOSITION OF BOREHOLE:		
LABORATORY ANALYSES:					

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1				Hand augered to 5 ft
			0	Asphalt, coarse gravel with coarse brown sand
2			0	
3			0	
4			0	
5			0	
6				
7		0		
8				
9				
			0	Coarse light tan sand with angular gravel
10			0	
11				
12		0		
13				
				Medium and coarse sand with black mottles and some rounded gravel
14			0	Moist at 14.7 ft
			0	

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: DW

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
14				
15				
16		0		
17			5	Coarse light tan sand
18			2	Large rounded gravel with light tan sand
19	DW		1	
	19-20		2	Dark grey coarse sand
20	1145		365	
		0	394	Dark grey coarse sand with some rounded gravel
21			408	
			498	
22			397	
			538	Light grey coarse sand with some rounded gravel
23				
			520	Fine rounded gravel with light tan coarse sand
24	DW		517	
	24-25		96	
25	1155		94	
				Coarse tan sand with some rounded gravel
26			5	
27			8	
28			2	

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: DW

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
28				
29	DW 29-30 1206		2	Coarse reddish brown gravel with coarse sand
30				
31				
42				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: DW B

PROJECT: SMS Instruments				PAGE 1 OF 3	
PROJECT No.: 95900		CONTRACTOR:	Land, Air, Water Env Ser Inc	DATE:	3/23/2007
LOCATION: Deer Park, NY		DRILLERS NAME:	Eric Bedell	ET REP.:	KDS
WATER LEVELS		DESIGNATION OF DRILL RIG:	Geoprobe 7720 DT		
DATE	TIME	DEPTH	SIZE AND TYPE OF EQUIPMENT:		
			REFERENCE ELEVATION:	DEPTH OF BOREHOLE:	
			THICKNESS OF OVERBURDEN:	DISPOSITION OF BOREHOLE:	

LABORATORY ANALYSES:

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
			0	Hand augered to 5 ft. Asphalt with angular gravel
			33	
1			19	Dark brown coarse sand
			33	1 inch clay layer at 15 inches
2			7	Light brown medium sand with rounded gravel
			0	
3			0	Light tan coarse sand with rounded gravel
4			0	
5				
6				
		0		
7				
			0	Coarse pale tan sand with rounded gravel
8			0	
			0	
9			0	Grey coarse sand with reddish rounded gravel
			0	
10				
		0		
11				Coarse tan sand with angular gravel
		0		
12			0	Light rounded gravel with some coarse sand
			0	
13			0	Coarse tan sand with rounded gravel
			0	
14			0	

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: DW B

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
14				
15				
16		0		
17			0	Light tan coarse sand with rounded gravel
			0	
18			0	
19	DWB		19	Light grey moist coarse sand with rounded gravel
	19-20		37	Saturated rounded gravel with coarse sand
20	1010		56	
		0		
21			50	Saturated dark grey coarse sand with gravel
			444	
22			325	Gravel with coarse sand grey
			494	
23				Light grey coarse sand with gravel
24	DWB			
	24-25		124	
25	1017			
			0	Light grey coarse sand with rounded gravel
26			0	
			1	
27				Coarse tan sand with rounded gravel
			0	
28				

EarthTech

A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: DW B

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
28				
29	DWB 29-30 1036			Coarse tan sand with large rounded gravel
30				
31				
42				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-12

PROJECT: SMS Instruments				PAGE 1 OF 3
PROJECT No.: 95900	CONTRACTOR:	Land, Air, Water Env Ser Inc	DATE:	03/22/07
LOCATION: Deer Park, NY	DRILLERS NAME:	Eric Bedell	ET REP.:	KDS

WATER LEVELS				
DATE	TIME	DEPTH	DESIGNATION OF DRILL RIG:	Geoprobe 7720 DT
			SIZE AND TYPE OF EQUIPMENT:	
			REFERENCE ELEVATION:	DEPTH OF BOREHOLE:
			THICKNESS OF OVERBURDEN:	DISPOSITION OF BOREHOLE:

LABORATORY ANALYSES:

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
			0	Asphalt angular large gravel, coarse medium brown sand
1			0	Angular gravel and dark brown coarse sand
2			0	Medium and coarse tan sand
3			0	Medium and coarse brown sand
4			0	Medium brown sand and rounded gravel
5		0		
6			0	Medium, coarse tan sand with rounded gravel
7				
8				
9			0	
			0	
10				
11		0		
12				Pale tan/white medium and fine sand with medium rounded gravel
13			0	
14				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-12

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
14			0	
15		0		
16				
17			0	Pale tan coarse sand with rounded gravel with reddish mottles
18			1 0	
19	SB-12		13	Saturated grey coarse sand with mixed gravel
20	19-20		38	
21		0	54	
22				Sheen on water with strong odor
23	SB-12		133	Medium coarse grey sand with gravel, saturated
24	23.5 - 24.5		155	Large grey gravel with coarse sand
25			12	Saturated mixed sand with large gravel, light tan
26				
27				
28				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-12

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
28			7	
29	SB-12 29-30 1048			
30				End of boring
31				
42				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

EarthTech

A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-12 B

PROJECT: SMS Instruments				PAGE 1 OF 3
PROJECT No.: 95900	CONTRACTOR:	Land, Air, Water Env Ser Inc	DATE:	3/22/2007
LOCATION: Deer Park, NY	DRILLERS NAME:	Eric Bedell	ET REP.:	KDS
WATER LEVELS	DESIGNATION OF DRILL RIG:	Geoprobe 7720 DT		
DATE / TIME / DEPTH	SIZE AND TYPE OF EQUIPMENT:			
	REFERENCE ELEVATION:	DEPTH OF BOREHOLE:		
	THICKNESS OF OVERBURDEN:	DISPOSITION OF BOREHOLE:		
LABORATORY ANALYSES:				

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
				Hand augered to 5 Feet
1		5.0	0	Asphalt, large gravel with coarse dark brown sand
2				
3				
4				
5			0	Medium and coarse tan sand with large rounded gravel
6				
7			7	
8			6	
9			3	
10			0	Mottled coarse sand with light tan and grey gravel
11			0	
12			0	
			0	Light tan coarse sand with rounded gravel
13			0	
14			5	

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-12 B

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
14			5	Coarse pale tan sand with rounded gravel and reddish/mottling
15				
16		0		
17				Coarse tan gravel with coarse sand
18				
19				
	SB-12B 19-20			Gravel with coarse tan sand, saturated
20				
21		0	366	
22				Coarse grey clay with rounded gravel, high odor
			354	
23				
	SB-12B 23.5 - 24.5 1226		365	
24				
25			0	Saturated coarse tan sand with gravel
26				
27				
28				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-12 B

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
28				
29	SB-12B 29-30 1229			
30				End of boring
31				
42				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-16

PROJECT: SMS Instruments				PAGE 1 OF 3
PROJECT No.: 95900	CONTRACTOR:	Land, Air, Water Env Ser Inc	DATE:	3/22/2007
LOCATION: Deer Park, NY	DRILLERS NAME:	Eric Bedell	ET REP.:	KDS

WATER LEVELS					
DATE	TIME	DEPTH	DESIGNATION OF DRILL RIG:	Geoprobe 7720 DT	
			SIZE AND TYPE OF EQUIPMENT:		
			REFERENCE ELEVATION:	DEPTH OF BOREHOLE:	30
			THICKNESS OF OVERBURDEN:	DISPOSITION OF BOREHOLE:	

LABORATORY ANALYSES:

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
				Hand augered to 5 ft
1			0	Asphalt, gravel and dark brown coarse sand
2				
3				
4				
5		0	0	Coarse tan sand with angular gravel
6				
7			7	
8			6	Reddish brown coarse sand with large angular gravel
9			3	Pale grey coarse sand with angular gravel
10				
11				
12			9	Coarse pale tan sand with large rounded gravel
13			0 0 0 0	
14				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-16

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
14			0	
			0	
15			0	
		0		Coarse tan sand, mottled layers of red coarse sand
16				
17				
18				
19	SB-16 19-20 1536			Coarse pale grey sand with large rounded gravel
20			240	Saturated grey coarse sand with rounded gravel
21			255	
			250	
22			260	
23	SB-16 22.5 - 23.5 1555		276	MS/MSD
24			260	
25			270	
		11.0	0	Coarse tan sand with small angular gravel
26			7	
			11	
27			6	
			6	
28			2	

EarthTech

A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-16

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
28				Large rounded gravel with some coarse tan sand
29	SB-16 29-30 1600			
30				
31				
42				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-16 B

PROJECT: SMS Instruments				PAGE 1 OF 3
PROJECT No.: 95900	CONTRACTOR:	Land, Air, Water Env Ser Inc	DATE:	3/22/2007
LOCATION: Deer Park, NY	DRILLERS NAME:	Eric Bedell	ET REP.:	KDS

WATER LEVELS					
DATE	TIME	DEPTH	DESIGNATION OF DRILL RIG:	Geoprobe 7720 DT	
			SIZE AND TYPE OF EQUIPMENT:		
			REFERENCE ELEVATION:	DEPTH OF BOREHOLE:	30
			THICKNESS OF OVERBURDEN:	DISPOSITION OF BOREHOLE:	

LABORATORY ANALYSES:

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1				Hand augered to 5 ft
			0	Asphalt, angular gravel with dark brown medium and coarse sand
2				
3				
4				
5		0	0	Coarse reddish tan sand with some rounded gravel
6			0	
7			0	
8			0	
9			0	Rounded gravel with coarse tan sand
			0	
10			0	
11		0		
12			0	Angular coarse gravel with coarse tan sand
			0	
13			0	
			0	
14			0	Bands of red with tan coarse sand and gravel
			0	

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-16 B

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
14			0	
			0	
15			0	
		0		
16			12	Coarse tan sand with angular gravel
			12	
17			7	
			14	Mottled reddish and tan coarse sand and gravel
18			22	
	SB-16B		26	Greyish tan sand with large gravel, saturated
19	19-20		298	
	1409			
20		0		
21			600	Coarse black sand, saturated
			550	
22	SB-16C		575	Coarse dark grey sand to 25 ft
	1425		523	
23			450	
			385	
24			375	SB-16 C is duplicate of SB-16 B, 22.5 - 23.5 ft
25			25	Coarse rounded gravel tan with some coarse tan gravel
26			8	
27			17	Coarse tan gravel to 28 ft
28			7	

EarthTech
A tyco International Ltd. Company

DIRECT PUSH BORING LOG

Boring No.: SB-16 B

PROJECT: SMS Instruments

PROJECT No.: 95900

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
28			14	Coarse tan saturated sand with some rounded gravel
29	SB-16B 29-30 1440		10	
30				
31				
42				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

Appendix B

Laboratory Data Package (Form 1s)
March 2007 Sampling Event

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

April 18, 2007

Earth Tech Northeast, Inc.
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Allen Burton

RE: Client Project: SMS Instruments
Lab Work Order #: F0378

Dear Mr. Burton:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Agnes R. Ng
CLP Project Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

* Data Summary Pack *

Mitkem Corporation

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : SMS Instruments, 152026 **SDG :** F0378

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
B121920	F0378-01	SW8260B_LOW_S				
B12235245	F0378-02	SW8260B_LOW_S				
B122930	F0378-03	SW8260B_LOW_S				
B12B1920	F0378-04	SW8260B_LOW_S				
B12B235245	F0378-05	SW8260B_LOW_S				
B12B235245	F0378-05	SW8260B_MED_S				
B12B2930	F0378-06	SW8260B_LOW_S				
B16B1920	F0378-07	SW8260B_LOW_S				
B16B225235	F0378-08	SW8260B_LOW_S				
B16B2930	F0378-09	SW8260B_LOW_S				
B16C	F0378-10	SW8260B_LOW_S				
B161920	F0378-11	SW8260B_LOW_S				
B16235245	F0378-12	SW8260B_LOW_S				
B162930	F0378-13	SW8260B_LOW_S				
FB	F0378-14	SW8260B_W				
DW-1920	F0378-15	SW8260B_LOW_S				
DW-2425	F0378-16	SW8260B_LOW_S				
DW-2930	F0378-17	SW8260B_LOW_S				
DWB-1920	F0378-18	SW8260B_LOW_S				
DWB-2425	F0378-19	SW8260B_LOW_S				
DWB-2425	F0378-19	SW8260B_MED_S				
DWB-2930	F0378-20	SW8260B_LOW_S				
TB	F0378-21	SW8260B_W				

Mitkem Corporation

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : SMS Instruments, 152026 **SDG :** F0378

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260B_LOW_S					
F0378-01A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-02A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-03A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-04A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-05A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-06A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-07A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-08A	SL	3/22/2007	3/24/2007	NA	4/6/2007
F0378-08AMS	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-08AMSD	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-09A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-10A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-10ARE	SL	3/22/2007	3/24/2007	NA	4/6/2007
F0378-11A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-12A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-13A	SL	3/22/2007	3/24/2007	NA	4/5/2007
F0378-15A	SL	3/23/2007	3/24/2007	NA	4/6/2007
F0378-16A	SL	3/23/2007	3/24/2007	NA	4/6/2007
F0378-17A	SL	3/23/2007	3/24/2007	NA	4/6/2007
F0378-18A	SL	3/23/2007	3/24/2007	NA	4/6/2007
F0378-19A	SL	3/23/2007	3/24/2007	NA	4/6/2007
F0378-20A	SL	3/23/2007	3/24/2007	NA	4/6/2007
SW8260B_MED_S					
F0378-05A	SL	3/22/2007	3/24/2007	4/6/2007	4/6/2007
F0378-19A	SL	3/23/2007	3/24/2007	4/10/2007	4/11/2007
SW8260B_W					
F0378-14A	AQ	3/22/2007	3/24/2007	NA	4/2/2007
F0378-21A	AQ	3/23/2007	3/24/2007	NA	4/5/2007

Mitkem Corporation

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : SMS Instruments, 152026 **SDG :** F0378

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260B_LOW_S					
F0378-01A	SL	SW8260B_LOW_S	NA	LOW	5
F0378-02A	SL	SW8260B_LOW_S	NA	LOW	5
F0378-03A	SL	SW8260B_LOW_S	NA	LOW	1
F0378-04A	SL	SW8260B_LOW_S	NA	LOW	1
F0378-05A	SL	SW8260B_LOW_S	NA	LOW	5
F0378-06A	SL	SW8260B_LOW_S	NA	LOW	1
F0378-07A	SL	SW8260B_LOW_S	NA	LOW	10
F0378-08A	SL	SW8260B_LOW_S	NA	LOW	10
F0378-08AMS	SL	SW8260B_LOW_S	NA	LOW	1
F0378-08AMSD	SL	SW8260B_LOW_S	NA	LOW	1
F0378-09A	SL	SW8260B_LOW_S	NA	LOW	1
F0378-10A	SL	SW8260B_LOW_S	NA	LOW	2
F0378-10ARE	SL	SW8260B_LOW_S	NA	LOW	5
F0378-11A	SL	SW8260B_LOW_S	NA	LOW	10
F0378-12A	SL	SW8260B_LOW_S	NA	LOW	5
F0378-13A	SL	SW8260B_LOW_S	NA	LOW	1
F0378-15A	SL	SW8260B_LOW_S	NA	LOW	5
F0378-16A	SL	SW8260B_LOW_S	NA	LOW	2
F0378-17A	SL	SW8260B_LOW_S	NA	LOW	1
F0378-18A	SL	SW8260B_LOW_S	NA	LOW	1
F0378-19A	SL	SW8260B_LOW_S	NA	LOW	10
F0378-20A	SL	SW8260B_LOW_S	NA	LOW	1
SW8260B_MED_S					
F0378-05A	SL	SW8260B_MED_S	Methanol	MED	4
F0378-19A	SL	SW8260B_MED_S	Methanol	MED	10
SW8260B_W					
F0378-14A	AQ	SW8260B_W	NA	LOW	1
F0378-21A	AQ	SW8260B_W	NA	LOW	1

Analytical Data Package for Earth Tech Northeast, Inc.

Client Project: SMS Instruments

SDG# MF0378

Mitkem Work Order ID: F0378

April 18, 2007

Prepared For:

Earth Tech Northeast, Inc.
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Allen Burton

Prepared By:

Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Earth Tech Northeast, Inc.'s SMS Instruments project. Under this deliverable, analysis results are presented for two aqueous and nineteen soil samples that were received on March 24, 2007. Analyses were performed per specifications in the project's contract and the chain of custody forms, following discussions with the client. Following the narrative is the Mitkem Work Order for cross-referencing sample client ID with laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (2000 update) and reported per NYSDEC ASP requirement for Category B deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of high recovery of toluene-d8 and/or bromofluorobenzene in the following samples: B121920, B12235245, B12B235245, B16C, B16235245, B161920, DWB-2425 and B16B225235 and its associated matrix spike and matrix spike duplicate. Matrix interference confirmed on surrogate recovery for sample B16C as the sample was re-analyzed with similar findings. Matrix interference confirmed surrogate recovery for sample B16B225235 as the sample and its associated matrix spike and matrix spike duplicate have similar findings. Samples B12B235245 and DWB-2425 were re-analyzed at dilution with surrogate recoveries within the QC limits.

Lab control sample: spike recoveries were within the QC limits with the exception of high recovery of trichlorofluoromethane and 2,2-dichloropropane in V6DLCS, high recovery of 4-methyl-2-pentanone in V1ELCS, high recovery of trichlorofluoromethane in V5ZLCS and high recovery of trichlorofluoromethane and hexachlorobutadiene in V5BLCS.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on sample B16B225235. Spike recoveries were within the QC limits with the exception of several analytes in both the matrix spike and matrix spike duplicate. Replicate RPDs were within the QC limits. Please note that the high recoveries are due to matrix interferences.

Sample analysis: internal standard area counts were within QC criteria with the exception of samples B16B225235MS and B16B225235MSD. Due to the high concentration of target analytes, the following samples were analyzed using a smaller sample size than the normal 5g of sample: B121920 (1.1g), B12235245 (1.0g), B12B235245 (1.0g), B161920 (0.6g), B16235245 (1.1g), B16B1920 (0.5g), B16B225235 (0.5g), B16C (2.7g), B16CRE (1.0g), DW-1920 (1.0g) and DW-2425 (2.5g) and DWB-2425 (0.6g). This is equivalent to 5x dilution for those samples in which about 1g of sample was used and 10x dilution for those samples were about 0.5g of sample was used. Sample DWB-2425 was analyzed using 0.6g of sample due to the high concentration of non-target hydrocarbons. This is equivalent to 2x dilution. To ensure that all target analytes were detemined within the instrument calibration range, the following samples were re-analyzed by the medium-level approach: B12B225235 and DWB-2425. In addition to the medium-level analysis, sample B12B225235 was further analyzed at 4x dilution and sample DWB-2425 was further analyzed at 10x dilution. Sample B16B225235 was analyzed one day outside of hold time. The initial analysis was performed within hold time, but the sample was not spiked with surrogates or internal standards. No other unusual observation was made for the analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
04/18/07

*Mitkem and Client Sample ID Summary Report**

Mitkem Workorder: F0378

Client Name: Earth Tech Northeast, I

Mitkem Sample ID	*Reported Client Sample ID*	*Full Client Sample ID*
F0378-01A	B121920	SB-12 19-20
F0378-02A	B12235245	SB-12 23.5-24.5
F0378-03A	B122930	SB-12 29-30
F0378-04A	B12B1920	SB-12B 19-20
F0378-05A	B12B235245	SB-12B 23.5-24.5
F0378-06A	B12B2930	SB-12B 29-30
F0378-07A	B16B1920	SB-16B 19-20
F0378-08A	B16B225235	SB-16B 22.5-23.5
F0378-09A	B16B2930	SB-16B 29-30
F0378-10A	B16C	SB-16C
F0378-11A	B161920	SB-16 19-20
F0378-12A	B16235245	SB-16 23.5-24.5
F0378-13A	B162930	SB-16 29-30
F0378-14A	FB	FIELD BLANK
F0378-15A	DW-1920	DW-19-20
F0378-16A	DW-2425	DW-24-25
F0378-17A	DW-2930	DW-29-30
F0378-18A	DWB-1920	DWB-19-20
F0378-19A	DWB-2425	DWB-24-25
F0378-20A	DWB-2930	DWB-29-30
F0378-21A	TB	TRIP BLANK

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Mitkem Corporation

29/Mar/07 11:25

WorkOrder: F0378

Client ID: EARTH_NJ
Project: SMS Instruments, 152026
Location:
Comments: N/A

Case:
SDG:
PO: D003821-41

Report Level: ASP-B
EDD: CLF
HC Due: 04/16/07
Fax Due: 04/09/07

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
F0378-01A	B121920	03/22/2007 10:05	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-02A	B12235245	03/22/2007 10:38	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-03A	B122930	03/22/2007 10:48	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-04A	B12B1920	03/22/2007 11:55	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-05A	B12B235245	03/22/2007 12:26	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-06A	B12B2930	03/22/2007 12:29	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-07A	B16B1920	03/22/2007 14:09	03/24/2007	Soil	PMoist		☐	☐	☐	VOA

Client Rep: Agnes R Ng

Mitkem Corporation

29/Mar/07 11:25

WorkOrder: F0378

Client ID: EARTH_NJ
Project: SMS Instruments, 152026
Location:
Comments: N/A

Case:
SDG:
PO: D003821-41

Report Level: ASP-B
EDD: CLF
HC Due: 04/16/07
Fax Due: 04/09/07

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL Storage
F0378-07A	B16B1920	03/22/2007 14:09	03/24/2007	Soil	SW8260B_LOW_S		☐	☐	☐ VOA
F0378-08A	B16B225235	03/22/2007 14:25	03/24/2007	Soil	PMoist		☐	☐	☐ VOA
					SW8260B_LOW_S		☐	☑	☐ VOA
F0378-09A	B16B2930	03/22/2007 14:40	03/24/2007	Soil	PMoist		☐	☐	☐ VOA
					SW8260B_LOW_S		☐	☐	☐ VOA
F0378-10A	B16C	03/22/2007 0:00	03/24/2007	Soil	PMoist		☐	☐	☐ VOA
					SW8260B_LOW_S		☐	☐	☐ VOA
F0378-11A	B161920	03/22/2007 15:36	03/24/2007	Soil	PMoist		☐	☐	☐ VOA
					SW8260B_LOW_S		☐	☐	☐ VOA
F0378-12A	B16235245	03/22/2007 15:55	03/24/2007	Soil	PMoist		☐	☐	☐ VOA
					SW8260B_LOW_S		☐	☐	☐ VOA
F0378-13A	B162930	03/22/2007 16:00	03/24/2007	Soil	PMoist		☐	☐	☐ VOA
					SW8260B_LOW_S		☐	☐	☐ VOA

Client Rep: Agnes R Ng

SSL

Client ID: EARTH_NJ
Project: SMS Instruments, 152026
Location:
Comments: N/A

Case:
SDG:
PO: D003821-41

Report Level: ASP-B
EDD: CLF
HC Due: 04/16/07
Fax Due: 04/09/07

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
F0378-14A	FB	03/22/2007 11:20	03/24/2007	Aqueous	SW8260B_W		☐	☐	☐	VOA
F0378-15A	DW-1920	03/23/2007 11:45	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-16A	DW-2425	03/23/2007 11:53	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-17A	DW-2930	03/23/2007 12:06	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-18A	DWB-1920	03/23/2007 10:10	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-19A	DWB-2425	03/23/2007 10:17	03/24/2007	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
F0378-20A	DWB-2930	03/23/2007 10:36	03/24/2007	Soil	PMoist		☐	☐	☐	VOA

Client Rep: Agnes R Ng

Mitkem Corporation

29/Mar/07 11:25

WorkOrder: F0378

Client ID: EARTH_NJ
Project: SMS Instruments, 152026
Location:
Comments: N/A

Case:
SDG:
PO: D003821-41

Report Level: ASP-B
EDD: CLF
HC Due: 04/16/07
Fax Due: 04/09/07

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
F0378-20A	DWB-2930	03/23/2007 10:36	03/24/2007	Soil	SW8260B_LOW_S		☐	☐	☐	VOA
F0378-21A	TB	03/23/2007 11:20	03/24/2007	Aqueous	SW8260B_W		☐	☐	☐	VOA

6999

Client Rep: Agnes R Ng

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B121920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-01A

Sample wt/vol: 1.1 (g/mL) G Lab File ID: V5H6491

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 14 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	26	U
74-87-3	Chloromethane	26	U
75-01-4	Vinyl Chloride	26	U
74-83-9	Bromomethane	26	U
75-00-3	Chloroethane	26	U
75-69-4	Trichlorofluoromethane	26	U
75-35-4	1,1-Dichloroethene	26	U
67-64-1	Acetone	26	U
74-88-4	Iodomethane	26	U
75-15-0	Carbon Disulfide	26	U
75-09-2	Methylene Chloride	26	U
156-60-5	trans-1,2-Dichloroethene	26	U
1634-04-4	Methyl tert-butyl ether	26	U
75-34-3	1,1-Dichloroethane	26	U
108-05-4	Vinyl acetate	26	U
78-93-3	2-Butanone	26	U
156-59-2	cis-1,2-Dichloroethene	26	U
590-20-7	2,2-Dichloropropane	26	U
74-97-5	Bromochloromethane	26	U
67-66-3	Chloroform	26	U
71-55-6	1,1,1-Trichloroethane	26	U
563-58-6	1,1-Dichloropropene	26	U
56-23-5	Carbon Tetrachloride	26	U
107-06-2	1,2-Dichloroethane	26	U
71-43-2	Benzene	26	U
79-01-6	Trichloroethene	26	U
78-87-5	1,2-Dichloropropane	26	U
74-95-3	Dibromomethane	26	U
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
108-10-1	4-Methyl-2-pentanone	26	U
108-88-3	Toluene	26	U
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B121920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-01A

Sample wt/vol: 1.1 (g/mL) G Lab File ID: V5H6491

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 14 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	26	U
127-18-4	Tetrachloroethene	26	U
591-78-6	2-Hexanone	26	U
124-48-1	Dibromochloromethane	26	U
106-93-4	1,2-Dibromoethane	26	U
108-90-7	Chlorobenzene	26	U
630-20-6	1,1,1,2-Tetrachloroethane	26	U
100-41-4	Ethylbenzene	26	U
----------	m,p-Xylene	26	U
95-47-6	o-Xylene	26	U
1330-20-7	Xylene (Total)	26	U
100-42-5	Styrene	26	U
75-25-2	Bromoform	26	U
98-82-8	Isopropylbenzene	26	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U
108-86-1	Bromobenzene	26	U
96-18-4	1,2,3-Trichloropropane	26	U
103-65-1	n-Propylbenzene	26	U
95-49-8	2-Chlorotoluene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U
106-43-4	4-Chlorotoluene	26	U
98-06-6	tert-Butylbenzene	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
135-98-8	sec-Butylbenzene	26	U
99-87-6	4-Isopropyltoluene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
104-51-8	n-Butylbenzene	26	U
95-50-1	1,2-Dichlorobenzene	26	U
96-12-8	1,2-Dibromo-3-chloropropane	26	U
120-82-1	1,2,4-Trichlorobenzene	26	U
87-68-3	Hexachlorobutadiene	26	U
91-20-3	Naphthalene	26	U
87-61-6	1,2,3-Trichlorobenzene	26	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B121920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-01A

Sample wt/vol: 1.1 (g/mL) G Lab File ID: V5H6491

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 14 Date Analyzed: 04/05/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	10.52	2400	J
2.		UNKNOWN	11.05	1800	J
3.		UNKNOWN	11.44	3400	J
4.	81983-71-3	CYCLOHEXANE, 1,1-DIMETHYL-2-	12.07	2500	NJ
5.		UNKNOWN	12.56	4400	J
6.		UNKNOWN	12.74	3000	J
7.		UNKNOWN	13.10	2600	J
8.	2958-75-0	1-METHYLDECAHYDRONAPHTHALENE	13.36	2300	NJ
9.		UNKNOWN	13.85	2100	J
10.	17301-23-4	UNDECANE, 2,6-DIMETHYL-	14.01	3900	NJ
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.

B12235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-02A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6492

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	30	U
74-88-4	Iodomethane	30	U
75-15-0	Carbon Disulfide	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-34-3	1,1-Dichloroethane	30	U
108-05-4	Vinyl acetate	30	U
78-93-3	2-Butanone	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
590-20-7	2,2-Dichloropropane	30	U
74-97-5	Bromochloromethane	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
563-58-6	1,1-Dichloropropene	30	U
56-23-5	Carbon Tetrachloride	30	U
107-06-2	1,2-Dichloroethane	30	U
71-43-2	Benzene	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
74-95-3	Dibromomethane	30	U
75-27-4	Bromodichloromethane	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
108-10-1	4-Methyl-2-pentanone	30	U
108-88-3	Toluene	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B12235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-02A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6492

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	30	U
127-18-4	Tetrachloroethene	30	U
591-78-6	2-Hexanone	30	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
108-90-7	Chlorobenzene	30	U
630-20-6	1,1,1,2-Tetrachloroethane	30	U
100-41-4	Ethylbenzene	30	U
----------	m,p-Xylene	30	U
95-47-6	o-Xylene	30	U
1330-20-7	Xylene (Total)	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
108-86-1	Bromobenzene	30	U
96-18-4	1,2,3-Trichloropropane	30	U
103-65-1	n-Propylbenzene	30	U
95-49-8	2-Chlorotoluene	30	U
108-67-8	1,3,5-Trimethylbenzene	260	
106-43-4	4-Chlorotoluene	30	U
98-06-6	tert-Butylbenzene	30	U
95-63-6	1,2,4-Trimethylbenzene	30	U
135-98-8	sec-Butylbenzene	30	U
99-87-6	4-Isopropyltoluene	84	
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
104-51-8	n-Butylbenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U
87-68-3	Hexachlorobutadiene	30	U
91-20-3	Naphthalene	30	U
87-61-6	1,2,3-Trichlorobenzene	30	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B12235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-02A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6492

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	2051-30-1	OCTANE, 2,6-DIMETHYL-	10.03	2600	NJ
2.		UNKNOWN	10.19	2400	J
3.		UNKNOWN	10.38	2700	J
4.	4291-79-6	CYCLOHEXANE, 1-METHYL-2-PROP	10.98	340	NJ
5.		UNKNOWN	12.72	390	J
6.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.08	450	NJ
7.		UNKNOWN	13.24	730	J
8.		UNKNOWN	13.85	440	J
9.	6044-71-9	DODECANE, 6-METHYL-	14.01	780	NJ
10.	54676-39-0	CYCLOHEXANE, 2-BUTYL-1,1,3-T	14.50	350	NJ
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.

B122930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-03A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: V1I3752

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
108-05-4	Vinyl acetate	6	U
78-93-3	2-Butanone	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B122930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-03A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: V1I3752

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
----------	m,p-Xylene	6	U
95-47-6	o-Xylene	6	U
1330-20-7	Xylene (Total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B122930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-03A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: V1I3752

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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.

B12B1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-04A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3754

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B12B1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-04A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3754

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B12B1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-04A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3754

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/05/07

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.

B12B235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-05A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6493

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	30	U
74-88-4	Iodomethane	30	U
75-15-0	Carbon Disulfide	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-34-3	1,1-Dichloroethane	30	U
108-05-4	Vinyl acetate	30	U
78-93-3	2-Butanone	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
590-20-7	2,2-Dichloropropane	30	U
74-97-5	Bromochloromethane	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
563-58-6	1,1-Dichloropropene	30	U
56-23-5	Carbon Tetrachloride	30	U
107-06-2	1,2-Dichloroethane	30	U
71-43-2	Benzene	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
74-95-3	Dibromomethane	30	U
75-27-4	Bromodichloromethane	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
108-10-1	4-Methyl-2-pentanone	30	U
108-88-3	Toluene	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B12B235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-05A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6493

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	30	U
127-18-4	Tetrachloroethene	30	U
591-78-6	2-Hexanone	30	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
108-90-7	Chlorobenzene	30	U
630-20-6	1,1,1,2-Tetrachloroethane	30	U
100-41-4	Ethylbenzene	30	U
----------	m,p-Xylene	1200	
95-47-6	o-Xylene	30	U
1330-20-7	Xylene (Total)	1200	
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	1600	E
79-34-5	1,1,2,2-Tetrachloroethane	30	U
108-86-1	Bromobenzene	30	U
96-18-4	1,2,3-Trichloropropane	30	U
103-65-1	n-Propylbenzene	2000	E
95-49-8	2-Chlorotoluene	30	U
108-67-8	1,3,5-Trimethylbenzene	20000	E
106-43-4	4-Chlorotoluene	30	U
98-06-6	tert-Butylbenzene	30	U
95-63-6	1,2,4-Trimethylbenzene	15000	E
135-98-8	sec-Butylbenzene	1400	E
99-87-6	4-Isopropyltoluene	3400	E
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
104-51-8	n-Butylbenzene	3400	E
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U
87-68-3	Hexachlorobutadiene	30	U
91-20-3	Naphthalene	160	
87-61-6	1,2,3-Trichlorobenzene	30	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B12B235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-05A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6493

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	592-27-8	HEPTANE, 2-METHYL-	7.16	2400	NJ
2.		UNKNOWN	8.92	2600	J
3.		UNKNOWN	9.05	3100	J
4.	19489-10-2	CIS-1-ETHYL-3-METHYL-CYCLOHE	9.52	6400	NJ
5.		UNKNOWN	9.87	4700	J
6.		UNKNOWN	10.10	2400	J
7.		UNKNOWN	10.22	4800	J
8.		UNKNOWN	10.52	5600	J
9.		UNKNOWN	10.67	2000	J
10.	620-14-4	BENZENE, 1-ETHYL-3-METHYL-	10.94	3700	NJ
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.

B12B235245DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-05ADL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6F1611

Level: (low/med) MED Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1400	U
74-87-3	Chloromethane	1400	U
75-01-4	Vinyl Chloride	1400	U
74-83-9	Bromomethane	1400	U
75-00-3	Chloroethane	1400	U
75-69-4	Trichlorofluoromethane	1400	U
75-35-4	1,1-Dichloroethene	1400	U
67-64-1	Acetone	1400	U
74-88-4	Iodomethane	1400	U
75-15-0	Carbon Disulfide	1400	U
75-09-2	Methylene Chloride	1400	U
156-60-5	trans-1,2-Dichloroethene	1400	U
1634-04-4	Methyl tert-butyl ether	1400	U
75-34-3	1,1-Dichloroethane	1400	U
108-05-4	Vinyl acetate	1400	U
78-93-3	2-Butanone	1400	U
156-59-2	cis-1,2-Dichloroethene	1400	U
590-20-7	2,2-Dichloropropane	1400	U
74-97-5	Bromochloromethane	1400	U
67-66-3	Chloroform	1400	U
71-55-6	1,1,1-Trichloroethane	1400	U
563-58-6	1,1-Dichloropropene	1400	U
56-23-5	Carbon Tetrachloride	1400	U
107-06-2	1,2-Dichloroethane	1400	U
71-43-2	Benzene	1400	U
79-01-6	Trichloroethene	1400	U
78-87-5	1,2-Dichloropropane	1400	U
74-95-3	Dibromomethane	1400	U
75-27-4	Bromodichloromethane	1400	U
10061-01-5	cis-1,3-Dichloropropene	1400	U
108-10-1	4-Methyl-2-pentanone	1400	U
108-88-3	Toluene	1400	U
10061-02-6	trans-1,3-Dichloropropene	1400	U
79-00-5	1,1,2-Trichloroethane	1400	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B12B235245DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-05ADL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6F1611

Level: (low/med) MED Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	1400	U
127-18-4	Tetrachloroethene	1400	U
591-78-6	2-Hexanone	1400	U
124-48-1	Dibromochloromethane	1400	U
106-93-4	1,2-Dibromoethane	1400	U
108-90-7	Chlorobenzene	1400	U
630-20-6	1,1,1,2-Tetrachloroethane	1400	U
100-41-4	Ethylbenzene	1400	U
----------	m,p-Xylene	910	DJ
95-47-6	o-Xylene	1400	U
1330-20-7	Xylene (Total)	910	DJ
100-42-5	Styrene	1400	U
75-25-2	Bromoform	1400	U
98-82-8	Isopropylbenzene	2300	D
79-34-5	1,1,2,2-Tetrachloroethane	1400	U
108-86-1	Bromobenzene	1400	U
96-18-4	1,2,3-Trichloropropane	1400	U
103-65-1	n-Propylbenzene	4600	D
95-49-8	2-Chlorotoluene	1400	U
108-67-8	1,3,5-Trimethylbenzene	32000	D
106-43-4	4-Chlorotoluene	1400	U
98-06-6	tert-Butylbenzene	1200	DJ
95-63-6	1,2,4-Trimethylbenzene	51000	D
135-98-8	sec-Butylbenzene	3400	D
99-87-6	4-Isopropyltoluene	4700	D
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
104-51-8	n-Butylbenzene	15000	D
95-50-1	1,2-Dichlorobenzene	1400	U
96-12-8	1,2-Dibromo-3-chloropropane	1400	U
120-82-1	1,2,4-Trichlorobenzene	1400	U
87-68-3	Hexachlorobutadiene	1400	U
91-20-3	Naphthalene	2500	D
87-61-6	1,2,3-Trichlorobenzene	1400	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B12B235245DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-05ADL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6F1611

Level: (low/med) MED Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1678-91-7	CYCLOHEXANE, ETHYL-	9.64	29000	NJD
2.		UNKNOWN	10.02	56000	JD
3.		UNKNOWN	10.19	35000	JD
4.	6236-88-0	CYCLOHEXANE, 1-ETHYL-4-METHY	10.70	36000	NJD
5.	6236-88-0	CYCLOHEXANE, 1-ETHYL-4-METHY	11.09	30000	NJD
6.	2051-30-1	OCTANE, 2,6-DIMETHYL-	11.34	29000	NJD
7.	696-29-7	CYCLOHEXANE, (1-METHYLETHYL)	11.48	72000	NJD
8.		UNKNOWN	11.70	29000	JD
9.	535-77-3	BENZENE, 1-METHYL-3-(1-METHY	13.62	35000	NJD
10.	824-90-8	1-PHENYL-1-BUTENE	15.03	19000	NJD
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.

B12B2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-06A

Sample wt/vol: 5.4 (g/mL) G Lab File ID: V1I3755

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 14 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B12B2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-06A

Sample wt/vol: 5.4 (g/mL) G Lab File ID: V1I3755

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 14 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B12B2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-06A

Sample wt/vol: 5.4 (g/mL) G Lab File ID: V1I3755

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 14 Date Analyzed: 04/05/07

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.

B161920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-11A

Sample wt/vol: 0.6 (g/mL) G Lab File ID: V5H6504

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 19 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	51	U
74-87-3	Chloromethane	51	U
75-01-4	Vinyl Chloride	51	U
74-83-9	Bromomethane	51	U
75-00-3	Chloroethane	51	U
75-69-4	Trichlorofluoromethane	51	U
75-35-4	1,1-Dichloroethene	51	U
67-64-1	Acetone	51	U
74-88-4	Iodomethane	51	U
75-15-0	Carbon Disulfide	51	U
75-09-2	Methylene Chloride	51	U
156-60-5	trans-1,2-Dichloroethene	51	U
1634-04-4	Methyl tert-butyl ether	51	U
75-34-3	1,1-Dichloroethane	51	U
108-05-4	Vinyl acetate	51	U
78-93-3	2-Butanone	51	U
156-59-2	cis-1,2-Dichloroethene	51	U
590-20-7	2,2-Dichloropropane	51	U
74-97-5	Bromochloromethane	51	U
67-66-3	Chloroform	51	U
71-55-6	1,1,1-Trichloroethane	26	J
563-58-6	1,1-Dichloropropene	51	U
56-23-5	Carbon Tetrachloride	51	U
107-06-2	1,2-Dichloroethane	51	U
71-43-2	Benzene	51	U
79-01-6	Trichloroethene	51	U
78-87-5	1,2-Dichloropropane	51	U
74-95-3	Dibromomethane	51	U
75-27-4	Bromodichloromethane	51	U
10061-01-5	cis-1,3-Dichloropropene	51	U
108-10-1	4-Methyl-2-pentanone	51	U
108-88-3	Toluene	51	U
10061-02-6	trans-1,3-Dichloropropene	51	U
79-00-5	1,1,2-Trichloroethane	51	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B161920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-11A

Sample wt/vol: 0.6 (g/mL) G Lab File ID: V5H6504

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 19 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	51	U
127-18-4	Tetrachloroethene	51	U
591-78-6	2-Hexanone	51	U
124-48-1	Dibromochloromethane	51	U
106-93-4	1,2-Dibromoethane	51	U
108-90-7	Chlorobenzene	51	U
630-20-6	1,1,1,2-Tetrachloroethane	51	U
100-41-4	Ethylbenzene	51	U
----------	m,p-Xylene	51	U
95-47-6	o-Xylene	51	U
1330-20-7	Xylene (Total)	51	U
100-42-5	Styrene	51	U
75-25-2	Bromoform	51	U
98-82-8	Isopropylbenzene	51	U
79-34-5	1,1,2,2-Tetrachloroethane	51	U
108-86-1	Bromobenzene	51	U
96-18-4	1,2,3-Trichloropropane	51	U
103-65-1	n-Propylbenzene	51	U
95-49-8	2-Chlorotoluene	51	U
108-67-8	1,3,5-Trimethylbenzene	70	
106-43-4	4-Chlorotoluene	51	U
98-06-6	tert-Butylbenzene	51	U
95-63-6	1,2,4-Trimethylbenzene	51	J
135-98-8	sec-Butylbenzene	51	U
99-87-6	4-Isopropyltoluene	51	U
541-73-1	1,3-Dichlorobenzene	51	U
106-46-7	1,4-Dichlorobenzene	51	U
104-51-8	n-Butylbenzene	51	U
95-50-1	1,2-Dichlorobenzene	51	U
96-12-8	1,2-Dibromo-3-chloropropane	51	U
120-82-1	1,2,4-Trichlorobenzene	51	U
87-68-3	Hexachlorobutadiene	51	U
91-20-3	Naphthalene	51	U
87-61-6	1,2,3-Trichlorobenzene	51	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B161920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-11A

Sample wt/vol: 0.6 (g/mL) G Lab File ID: V5H6504

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 19 Date Analyzed: 04/05/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	10.19	3100	J
2.		UNKNOWN	10.38	3300	J
3.		UNKNOWN	11.66	2600	J
4.		UNKNOWN	12.54	3400	J
5.		UNKNOWN	12.73	4600	J
6.		UNKNOWN	12.89	2800	J
7.	89-82-7	PULEGONE	13.09	5000	NJ
8.		UNKNOWN	13.46	3900	J
9.		UNKNOWN	13.85	4000	J
10.	17301-23-4	UNDECANE, 2,6-DIMETHYL-	14.01	9300	NJ
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.

B16235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-12A

Sample wt/vol: 1.1 (g/mL) G Lab File ID: V5H6496

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	27	U
74-87-3	Chloromethane	27	U
75-01-4	Vinyl Chloride	27	U
74-83-9	Bromomethane	27	U
75-00-3	Chloroethane	27	U
75-69-4	Trichlorofluoromethane	27	U
75-35-4	1,1-Dichloroethene	27	U
67-64-1	Acetone	47	
74-88-4	Iodomethane	27	U
75-15-0	Carbon Disulfide	27	U
75-09-2	Methylene Chloride	27	U
156-60-5	trans-1,2-Dichloroethene	27	U
1634-04-4	Methyl tert-butyl ether	27	U
75-34-3	1,1-Dichloroethane	27	U
108-05-4	Vinyl acetate	27	U
78-93-3	2-Butanone	27	U
156-59-2	cis-1,2-Dichloroethene	27	U
590-20-7	2,2-Dichloropropane	27	U
74-97-5	Bromochloromethane	27	U
67-66-3	Chloroform	27	U
71-55-6	1,1,1-Trichloroethane	27	U
563-58-6	1,1-Dichloropropene	27	U
56-23-5	Carbon Tetrachloride	27	U
107-06-2	1,2-Dichloroethane	27	U
71-43-2	Benzene	27	U
79-01-6	Trichloroethene	27	U
78-87-5	1,2-Dichloropropane	27	U
74-95-3	Dibromomethane	27	U
75-27-4	Bromodichloromethane	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
108-10-1	4-Methyl-2-pentanone	27	U
108-88-3	Toluene	27	U
10061-02-6	trans-1,3-Dichloropropene	27	U
79-00-5	1,1,2-Trichloroethane	27	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-12A

Sample wt/vol: 1.1 (g/mL) G Lab File ID: V5H6496

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	27	U
127-18-4	Tetrachloroethene	27	U
591-78-6	2-Hexanone	27	U
124-48-1	Dibromochloromethane	27	U
106-93-4	1,2-Dibromoethane	27	U
108-90-7	Chlorobenzene	27	U
630-20-6	1,1,1,2-Tetrachloroethane	27	U
100-41-4	Ethylbenzene	27	U
----------	m,p-Xylene	27	U
95-47-6	o-Xylene	27	U
1330-20-7	Xylene (Total)	27	U
100-42-5	Styrene	27	U
75-25-2	Bromoform	27	U
98-82-8	Isopropylbenzene	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
108-86-1	Bromobenzene	27	U
96-18-4	1,2,3-Trichloropropane	27	U
103-65-1	n-Propylbenzene	27	U
95-49-8	2-Chlorotoluene	27	U
108-67-8	1,3,5-Trimethylbenzene	120	
106-43-4	4-Chlorotoluene	27	U
98-06-6	tert-Butylbenzene	27	U
95-63-6	1,2,4-Trimethylbenzene	55	
135-98-8	sec-Butylbenzene	27	U
99-87-6	4-Isopropyltoluene	27	U
541-73-1	1,3-Dichlorobenzene	27	U
106-46-7	1,4-Dichlorobenzene	27	U
104-51-8	n-Butylbenzene	27	U
95-50-1	1,2-Dichlorobenzene	27	U
96-12-8	1,2-Dibromo-3-chloropropane	27	U
120-82-1	1,2,4-Trichlorobenzene	27	U
87-68-3	Hexachlorobutadiene	27	U
91-20-3	Naphthalene	27	U
87-61-6	1,2,3-Trichlorobenzene	27	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B16235245

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-12A

Sample wt/vol: 1.1 (g/mL) G Lab File ID: V5H6496

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	2051-30-1	OCTANE, 2,6-DIMETHYL-	10.03	2000	NJ
2.		UNKNOWN	10.38	2300	J
3.		UNKNOWN	12.55	2600	J
4.		UNKNOWN	12.74	4100	J
5.	17312-54-8	DECANE, 3,7-DIMETHYL-	12.89	2600	NJ
6.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.10	3000	NJ
7.		UNKNOWN	13.35	3200	J
8.		UNKNOWN	13.46	3400	J
9.		UNKNOWN	13.85	3500	J
10.	17301-23-4	UNDECANE, 2,6-DIMETHYL-	14.01	6600	NJ
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.

B162930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-13A

Sample wt/vol: 5.5 (g/mL) G Lab File ID: V1I3756

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B162930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-13A

Sample wt/vol: 5.5 (g/mL) G Lab File ID: V1I3756

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B162930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-13A

Sample wt/vol: 5.5 (g/mL) G Lab File ID: V1I3756

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/05/07

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.

B16B1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-07A

Sample wt/vol: 0.5 (g/mL) G Lab File ID: V5H6503

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 13 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	57	U
74-87-3	Chloromethane	57	U
75-01-4	Vinyl Chloride	57	U
74-83-9	Bromomethane	57	U
75-00-3	Chloroethane	57	U
75-69-4	Trichlorofluoromethane	57	U
75-35-4	1,1-Dichloroethene	57	U
67-64-1	Acetone	57	U
74-88-4	Iodomethane	57	U
75-15-0	Carbon Disulfide	57	U
75-09-2	Methylene Chloride	57	U
156-60-5	trans-1,2-Dichloroethene	57	U
1634-04-4	Methyl tert-butyl ether	57	U
75-34-3	1,1-Dichloroethane	57	U
108-05-4	Vinyl acetate	57	U
78-93-3	2-Butanone	57	U
156-59-2	cis-1,2-Dichloroethene	57	U
590-20-7	2,2-Dichloropropane	57	U
74-97-5	Bromochloromethane	57	U
67-66-3	Chloroform	57	U
71-55-6	1,1,1-Trichloroethane	57	U
563-58-6	1,1-Dichloropropene	57	U
56-23-5	Carbon Tetrachloride	57	U
107-06-2	1,2-Dichloroethane	57	U
71-43-2	Benzene	57	U
79-01-6	Trichloroethene	57	U
78-87-5	1,2-Dichloropropane	57	U
74-95-3	Dibromomethane	57	U
75-27-4	Bromodichloromethane	57	U
10061-01-5	cis-1,3-Dichloropropene	57	U
108-10-1	4-Methyl-2-pentanone	57	U
108-88-3	Toluene	57	U
10061-02-6	trans-1,3-Dichloropropene	57	U
79-00-5	1,1,2-Trichloroethane	57	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16B1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-07A

Sample wt/vol: 0.5 (g/mL) G Lab File ID: V5H6503

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 13 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	57	U
127-18-4	Tetrachloroethene	57	U
591-78-6	2-Hexanone	57	U
124-48-1	Dibromochloromethane	57	U
106-93-4	1,2-Dibromoethane	57	U
108-90-7	Chlorobenzene	57	U
630-20-6	1,1,1,2-Tetrachloroethane	57	U
100-41-4	Ethylbenzene	57	U
----------	m,p-Xylene	57	U
95-47-6	o-Xylene	57	U
1330-20-7	Xylene (Total)	57	U
100-42-5	Styrene	57	U
75-25-2	Bromoform	57	U
98-82-8	Isopropylbenzene	57	U
79-34-5	1,1,2,2-Tetrachloroethane	57	U
108-86-1	Bromobenzene	57	U
96-18-4	1,2,3-Trichloropropane	57	U
103-65-1	n-Propylbenzene	57	U
95-49-8	2-Chlorotoluene	57	U
108-67-8	1,3,5-Trimethylbenzene	57	U
106-43-4	4-Chlorotoluene	57	U
98-06-6	tert-Butylbenzene	57	U
95-63-6	1,2,4-Trimethylbenzene	57	U
135-98-8	sec-Butylbenzene	57	U
99-87-6	4-Isopropyltoluene	57	U
541-73-1	1,3-Dichlorobenzene	57	U
106-46-7	1,4-Dichlorobenzene	57	U
104-51-8	n-Butylbenzene	57	U
95-50-1	1,2-Dichlorobenzene	57	U
96-12-8	1,2-Dibromo-3-chloropropane	57	U
120-82-1	1,2,4-Trichlorobenzene	57	U
87-68-3	Hexachlorobutadiene	57	U
91-20-3	Naphthalene	57	U
87-61-6	1,2,3-Trichlorobenzene	57	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B16B1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-07A

Sample wt/vol: 0.5 (g/mL) G Lab File ID: V5H6503

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 13 Date Analyzed: 04/05/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.08	680	NJ
2.		UNKNOWN	13.24	970	J
3.		UNKNOWN	13.44	510	J
4.		UNKNOWN	13.84	630	J
5.	17301-23-4	UNDECANE, 2,6-DIMETHYL-	14.00	1000	NJ
6.		UNKNOWN	14.50	770	J
7.		UNKNOWN	14.56	560	J
8.		UNKNOWN	14.75	1400	J
9.		UNKNOWN	15.30	600	J
10.	3891-98-3	DODECANE, 2,6,10-TRIMETHYL-	15.98	1000	NJ
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B16B225235

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-08A

Sample wt/vol: 0.5 (g/mL) G Lab File ID: V5H6539

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	60	U
74-87-3	Chloromethane	60	U
75-01-4	Vinyl Chloride	60	U
74-83-9	Bromomethane	60	U
75-00-3	Chloroethane	60	U
75-69-4	Trichlorofluoromethane	60	U
75-35-4	1,1-Dichloroethene	60	U
67-64-1	Acetone	60	U
74-88-4	Iodomethane	60	U
75-15-0	Carbon Disulfide	60	U
75-09-2	Methylene Chloride	60	U
156-60-5	trans-1,2-Dichloroethene	60	U
1634-04-4	Methyl tert-butyl ether	60	U
75-34-3	1,1-Dichloroethane	60	U
108-05-4	Vinyl acetate	60	U
78-93-3	2-Butanone	60	U
156-59-2	cis-1,2-Dichloroethene	60	U
590-20-7	2,2-Dichloropropane	60	U
74-97-5	Bromochloromethane	60	U
67-66-3	Chloroform	60	U
71-55-6	1,1,1-Trichloroethane	60	U
563-58-6	1,1-Dichloropropene	60	U
56-23-5	Carbon Tetrachloride	60	U
107-06-2	1,2-Dichloroethane	60	U
71-43-2	Benzene	60	U
79-01-6	Trichloroethene	60	U
78-87-5	1,2-Dichloropropane	60	U
74-95-3	Dibromomethane	60	U
75-27-4	Bromodichloromethane	60	U
10061-01-5	cis-1,3-Dichloropropene	60	U
108-10-1	4-Methyl-2-pentanone	60	U
108-88-3	Toluene	60	U
10061-02-6	trans-1,3-Dichloropropene	60	U
79-00-5	1,1,2-Trichloroethane	60	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16B225235

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-08A

Sample wt/vol: 0.5 (g/mL) G Lab File ID: V5H6539

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	60	U
127-18-4	Tetrachloroethene	60	U
591-78-6	2-Hexanone	60	U
124-48-1	Dibromochloromethane	60	U
106-93-4	1,2-Dibromoethane	60	U
108-90-7	Chlorobenzene	60	U
630-20-6	1,1,1,2-Tetrachloroethane	60	U
100-41-4	Ethylbenzene	60	U
----------	m,p-Xylene	50	J
95-47-6	o-Xylene	60	U
1330-20-7	Xylene (Total)	50	J
100-42-5	Styrene	60	U
75-25-2	Bromoform	60	U
98-82-8	Isopropylbenzene	60	U
79-34-5	1,1,2,2-Tetrachloroethane	60	U
108-86-1	Bromobenzene	60	U
96-18-4	1,2,3-Trichloropropane	60	U
103-65-1	n-Propylbenzene	60	U
95-49-8	2-Chlorotoluene	60	U
108-67-8	1,3,5-Trimethylbenzene	480	
106-43-4	4-Chlorotoluene	60	U
98-06-6	tert-Butylbenzene	60	U
95-63-6	1,2,4-Trimethylbenzene	300	
135-98-8	sec-Butylbenzene	60	U
99-87-6	4-Isopropyltoluene	120	
541-73-1	1,3-Dichlorobenzene	60	U
106-46-7	1,4-Dichlorobenzene	60	U
104-51-8	n-Butylbenzene	60	U
95-50-1	1,2-Dichlorobenzene	60	U
96-12-8	1,2-Dibromo-3-chloropropane	60	U
120-82-1	1,2,4-Trichlorobenzene	60	U
87-68-3	Hexachlorobutadiene	60	U
91-20-3	Naphthalene	60	U
87-61-6	1,2,3-Trichlorobenzene	60	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B16B225235

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-08A

Sample wt/vol: 0.5 (g/mL) G Lab File ID: V5H6539

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 11

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.87	9200	J
2.	2051-30-1	OCTANE, 2,6-DIMETHYL-	10.03	9200	NJ
3.		UNKNOWN	10.21	12000	J
4.		UNKNOWN	10.39	11000	J
5.		UNKNOWN	11.05	7400	J
6.		UNKNOWN	11.27	7600	J
7.	13151-34-3	DECANE, 3-METHYL-	12.09	9200	NJ
8.		UNKNOWN	12.55	7600	J
9.		UNKNOWN	12.74	12000	J
10.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.10	12000	NJ
11.		UNKNOWN	13.85	7300	J
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.

B16B225235MS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-08AMS

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6499

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	250	
74-87-3	Chloromethane	200	
75-01-4	Vinyl Chloride	220	
74-83-9	Bromomethane	260	
75-00-3	Chloroethane	230	
75-69-4	Trichlorofluoromethane	260	
75-35-4	1,1-Dichloroethene	290	
67-64-1	Acetone	240	
74-88-4	Iodomethane	280	
75-15-0	Carbon Disulfide	230	
75-09-2	Methylene Chloride	270	
156-60-5	trans-1,2-Dichloroethene	290	
1634-04-4	Methyl tert-butyl ether	150	
75-34-3	1,1-Dichloroethane	310	
108-05-4	Vinyl acetate	160	
78-93-3	2-Butanone	280	
156-59-2	cis-1,2-Dichloroethene	320	
590-20-7	2,2-Dichloropropane	180	
74-97-5	Bromochloromethane	370	
67-66-3	Chloroform	360	
71-55-6	1,1,1-Trichloroethane	230	
563-58-6	1,1-Dichloropropene	280	
56-23-5	Carbon Tetrachloride	230	
107-06-2	1,2-Dichloroethane	420	
71-43-2	Benzene	310	
79-01-6	Trichloroethene	320	
78-87-5	1,2-Dichloropropane	410	
74-95-3	Dibromomethane	340	
75-27-4	Bromodichloromethane	630	
10061-01-5	cis-1,3-Dichloropropene	290	
108-10-1	4-Methyl-2-pentanone	55000	E
108-88-3	Toluene	310	
10061-02-6	trans-1,3-Dichloropropene	340	
79-00-5	1,1,2-Trichloroethane	23000	E

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16B225235MS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-08AMS

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6499

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	330	
127-18-4	Tetrachloroethene	310	
591-78-6	2-Hexanone	38000	E
124-48-1	Dibromochloromethane	410	
106-93-4	1,2-Dibromoethane	310	
108-90-7	Chlorobenzene	300	
630-20-6	1,1,1,2-Tetrachloroethane	310	
100-41-4	Ethylbenzene	300	
----------	m,p-Xylene	690	
95-47-6	o-Xylene	240	
1330-20-7	Xylene (Total)	940	
100-42-5	Styrene	240	
75-25-2	Bromoform	290	
98-82-8	Isopropylbenzene	270	
79-34-5	1,1,2,2-Tetrachloroethane	290	
108-86-1	Bromobenzene	200	
96-18-4	1,2,3-Trichloropropane	160	
103-65-1	n-Propylbenzene	160	
95-49-8	2-Chlorotoluene	130	
108-67-8	1,3,5-Trimethylbenzene	730	
106-43-4	4-Chlorotoluene	360	
98-06-6	tert-Butylbenzene	240	
95-63-6	1,2,4-Trimethylbenzene	310	
135-98-8	sec-Butylbenzene	170	
99-87-6	4-Isopropyltoluene	330	
541-73-1	1,3-Dichlorobenzene	340	
106-46-7	1,4-Dichlorobenzene	320	
104-51-8	n-Butylbenzene	770	
95-50-1	1,2-Dichlorobenzene	130	
96-12-8	1,2-Dibromo-3-chloropropane	210	
120-82-1	1,2,4-Trichlorobenzene	95	
87-68-3	Hexachlorobutadiene	33	
91-20-3	Naphthalene	100	
87-61-6	1,2,3-Trichlorobenzene	64	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16B225235MSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-08AMSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6500

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	260	
74-87-3	Chloromethane	200	
75-01-4	Vinyl Chloride	220	
74-83-9	Bromomethane	260	
75-00-3	Chloroethane	240	
75-69-4	Trichlorofluoromethane	280	
75-35-4	1,1-Dichloroethene	290	
67-64-1	Acetone	360	
74-88-4	Iodomethane	290	
75-15-0	Carbon Disulfide	230	
75-09-2	Methylene Chloride	280	
156-60-5	trans-1,2-Dichloroethene	300	
1634-04-4	Methyl tert-butyl ether	230	
75-34-3	1,1-Dichloroethane	330	
108-05-4	Vinyl acetate	170	
78-93-3	2-Butanone	320	
156-59-2	cis-1,2-Dichloroethene	330	
590-20-7	2,2-Dichloropropane	210	
74-97-5	Bromochloromethane	370	
67-66-3	Chloroform	370	
71-55-6	1,1,1-Trichloroethane	260	
563-58-6	1,1-Dichloropropene	300	
56-23-5	Carbon Tetrachloride	260	
107-06-2	1,2-Dichloroethane	450	
71-43-2	Benzene	330	
79-01-6	Trichloroethene	340	
78-87-5	1,2-Dichloropropane	420	
74-95-3	Dibromomethane	360	
75-27-4	Bromodichloromethane	570	
10061-01-5	cis-1,3-Dichloropropene	300	
108-10-1	4-Methyl-2-pentanone	50000	E
108-88-3	Toluene	330	
10061-02-6	trans-1,3-Dichloropropene	370	
79-00-5	1,1,2-Trichloroethane	21000	E

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16B225235MSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-08AMSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6500

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 16 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	330	
127-18-4	Tetrachloroethene	310	
591-78-6	2-Hexanone	78000	E
124-48-1	Dibromochloromethane	400	
106-93-4	1,2-Dibromoethane	310	
108-90-7	Chlorobenzene	300	
630-20-6	1,1,1,2-Tetrachloroethane	320	
100-41-4	Ethylbenzene	300	
----------	m,p-Xylene	670	
95-47-6	o-Xylene	230	
1330-20-7	Xylene (Total)	900	
100-42-5	Styrene	250	
75-25-2	Bromoform	290	
98-82-8	Isopropylbenzene	290	
79-34-5	1,1,2,2-Tetrachloroethane	190	
108-86-1	Bromobenzene	190	
96-18-4	1,2,3-Trichloropropane	160	
103-65-1	n-Propylbenzene	160	
95-49-8	2-Chlorotoluene	130	
108-67-8	1,3,5-Trimethylbenzene	670	
106-43-4	4-Chlorotoluene	330	
98-06-6	tert-Butylbenzene	220	
95-63-6	1,2,4-Trimethylbenzene	350	
135-98-8	sec-Butylbenzene	150	
99-87-6	4-Isopropyltoluene	310	
541-73-1	1,3-Dichlorobenzene	350	
106-46-7	1,4-Dichlorobenzene	330	
104-51-8	n-Butylbenzene	660	
95-50-1	1,2-Dichlorobenzene	130	
96-12-8	1,2-Dibromo-3-chloropropane	210	
120-82-1	1,2,4-Trichlorobenzene	91	
87-68-3	Hexachlorobutadiene	27	J
91-20-3	Naphthalene	83	
87-61-6	1,2,3-Trichlorobenzene	57	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B16B2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-09A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: V1I3757

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
108-05-4	Vinyl acetate	6	U
78-93-3	2-Butanone	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16B2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-09A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: V1I3757

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
----------	m,p-Xylene	6	U
95-47-6	o-Xylene	6	U
1330-20-7	Xylene (Total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B16B2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-09A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: V1I3757

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/05/07

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.

B16C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-10A

Sample wt/vol: 2.7 (g/mL) G Lab File ID: V5H6495

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	38	
74-88-4	Iodomethane	11	U
75-15-0	Carbon Disulfide	11	U
75-09-2	Methylene Chloride	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
108-05-4	Vinyl acetate	11	U
78-93-3	2-Butanone	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
590-20-7	2,2-Dichloropropane	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
563-58-6	1,1-Dichloropropene	11	U
56-23-5	Carbon Tetrachloride	11	U
107-06-2	1,2-Dichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
74-95-3	Dibromomethane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-10A

Sample wt/vol: 2.7 (g/mL) G Lab File ID: V5H6495

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
----------	m,p-Xylene	11	U
95-47-6	o-Xylene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-86-1	Bromobenzene	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
95-49-8	2-Chlorotoluene	11	U
108-67-8	1,3,5-Trimethylbenzene	150	
106-43-4	4-Chlorotoluene	11	U
98-06-6	tert-Butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-Butylbenzene	11	U
99-87-6	4-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
87-68-3	Hexachlorobutadiene	11	U
91-20-3	Naphthalene	11	U
87-61-6	1,2,3-Trichlorobenzene	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B16C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-10A

Sample wt/vol: 2.7 (g/mL) G Lab File ID: V5H6495

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/05/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	9.03	1600	J
2.		UNKNOWN	9.89	1800	J
3.	2051-30-1	OCTANE, 2,6-DIMETHYL-	10.05	1600	NJ
4.		UNKNOWN	10.20	3200	J
5.		UNKNOWN	10.52	2700	J
6.		UNKNOWN	11.42	2300	J
7.		UNKNOWN	11.76	3000	J
8.		UNKNOWN	11.96	1500	J
9.	13151-34-3	DECANE, 3-METHYL-	12.11	1600	NJ
10.		UNKNOWN	12.74	2100	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B16CRE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-10ARE

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6538

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	29	U
74-87-3	Chloromethane	29	U
75-01-4	Vinyl Chloride	29	U
74-83-9	Bromomethane	29	U
75-00-3	Chloroethane	29	U
75-69-4	Trichlorofluoromethane	29	U
75-35-4	1,1-Dichloroethene	29	U
67-64-1	Acetone	29	U
74-88-4	Iodomethane	29	U
75-15-0	Carbon Disulfide	29	U
75-09-2	Methylene Chloride	29	U
156-60-5	trans-1,2-Dichloroethene	29	U
1634-04-4	Methyl tert-butyl ether	29	U
75-34-3	1,1-Dichloroethane	29	U
108-05-4	Vinyl acetate	29	U
78-93-3	2-Butanone	29	U
156-59-2	cis-1,2-Dichloroethene	29	U
590-20-7	2,2-Dichloropropane	29	U
74-97-5	Bromochloromethane	29	U
67-66-3	Chloroform	29	U
71-55-6	1,1,1-Trichloroethane	29	U
563-58-6	1,1-Dichloropropene	29	U
56-23-5	Carbon Tetrachloride	29	U
107-06-2	1,2-Dichloroethane	29	U
71-43-2	Benzene	29	U
79-01-6	Trichloroethene	29	U
78-87-5	1,2-Dichloropropane	29	U
74-95-3	Dibromomethane	29	U
75-27-4	Bromodichloromethane	29	U
10061-01-5	cis-1,3-Dichloropropene	29	U
108-10-1	4-Methyl-2-pentanone	29	U
108-88-3	Toluene	29	U
10061-02-6	trans-1,3-Dichloropropene	29	U
79-00-5	1,1,2-Trichloroethane	29	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B16CRE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-10ARE

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6538

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	29	U
127-18-4	Tetrachloroethene	29	U
591-78-6	2-Hexanone	29	U
124-48-1	Dibromochloromethane	29	U
106-93-4	1,2-Dibromoethane	29	U
108-90-7	Chlorobenzene	29	U
630-20-6	1,1,1,2-Tetrachloroethane	29	U
100-41-4	Ethylbenzene	29	U
----------	m,p-Xylene	29	U
95-47-6	o-Xylene	29	U
1330-20-7	Xylene (Total)	29	U
100-42-5	Styrene	29	U
75-25-2	Bromoform	29	U
98-82-8	Isopropylbenzene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U
108-86-1	Bromobenzene	29	U
96-18-4	1,2,3-Trichloropropane	29	U
103-65-1	n-Propylbenzene	29	U
95-49-8	2-Chlorotoluene	29	U
108-67-8	1,3,5-Trimethylbenzene	100	
106-43-4	4-Chlorotoluene	29	U
98-06-6	tert-Butylbenzene	29	U
95-63-6	1,2,4-Trimethylbenzene	29	U
135-98-8	sec-Butylbenzene	29	U
99-87-6	4-Isopropyltoluene	29	U
541-73-1	1,3-Dichlorobenzene	29	U
106-46-7	1,4-Dichlorobenzene	29	U
104-51-8	n-Butylbenzene	29	U
95-50-1	1,2-Dichlorobenzene	29	U
96-12-8	1,2-Dibromo-3-chloropropane	29	U
120-82-1	1,2,4-Trichlorobenzene	29	U
87-68-3	Hexachlorobutadiene	29	U
91-20-3	Naphthalene	29	U
87-61-6	1,2,3-Trichlorobenzene	29	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B16CRE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-10ARE

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6538

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	10.51	3800	J
2.	13151-34-3	DECANE, 3-METHYL-	12.09	4000	NJ
3.		UNKNOWN	12.68	4000	J
4.		UNKNOWN	12.74	6900	J
5.	17312-54-8	DECANE, 3,7-DIMETHYL-	12.89	4000	NJ
6.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.10	5000	NJ
7.		UNKNOWN	13.35	5200	J
8.	1002-43-3	UNDECANE, 3-METHYL-	13.46	4900	NJ
9.		UNKNOWN	13.85	5800	J
10.	17301-23-4	UNDECANE, 2,6-DIMETHYL-	14.01	9300	NJ
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.

DW-1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-15A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6534

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 18 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	30	U
74-88-4	Iodomethane	30	U
75-15-0	Carbon Disulfide	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-34-3	1,1-Dichloroethane	30	U
108-05-4	Vinyl acetate	30	U
78-93-3	2-Butanone	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
590-20-7	2,2-Dichloropropane	30	U
74-97-5	Bromochloromethane	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
563-58-6	1,1-Dichloropropene	30	U
56-23-5	Carbon Tetrachloride	30	U
107-06-2	1,2-Dichloroethane	30	U
71-43-2	Benzene	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
74-95-3	Dibromomethane	30	U
75-27-4	Bromodichloromethane	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
108-10-1	4-Methyl-2-pentanone	30	U
108-88-3	Toluene	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DW-1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-15A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6534

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 18 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	30	U
127-18-4	Tetrachloroethene	30	U
591-78-6	2-Hexanone	30	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
108-90-7	Chlorobenzene	30	U
630-20-6	1,1,1,2-Tetrachloroethane	30	U
100-41-4	Ethylbenzene	30	U
----------	m,p-Xylene	30	U
95-47-6	o-Xylene	30	U
1330-20-7	Xylene (Total)	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
108-86-1	Bromobenzene	30	U
96-18-4	1,2,3-Trichloropropane	30	U
103-65-1	n-Propylbenzene	30	U
95-49-8	2-Chlorotoluene	30	U
108-67-8	1,3,5-Trimethylbenzene	30	U
106-43-4	4-Chlorotoluene	30	U
98-06-6	tert-Butylbenzene	30	U
95-63-6	1,2,4-Trimethylbenzene	30	U
135-98-8	sec-Butylbenzene	30	U
99-87-6	4-Isopropyltoluene	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
104-51-8	n-Butylbenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U
87-68-3	Hexachlorobutadiene	30	U
91-20-3	Naphthalene	18	J
87-61-6	1,2,3-Trichlorobenzene	30	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DW-1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-15A

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V5H6534

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 18 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.09	180	NJ
2.		UNKNOWN	13.24	170	J
3.		UNKNOWN	13.34	170	J
4.		UNKNOWN	13.46	170	J
5.		UNKNOWN	14.00	270	J
6.	54676-39-0	CYCLOHEXANE, 2-BUTYL-1,1,3-T	14.49	180	NJ
7.		UNKNOWN	14.75	400	J
8.		UNKNOWN	14.98	260	J
9.		UNKNOWN	15.66	250	J
10.	17302-32-8	NONANE, 3,7-DIMETHYL-	15.98	220	NJ
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.

DW-2425

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-16A

Sample wt/vol: 2.5 (g/mL) G Lab File ID: V5H6535

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
67-64-1	Acetone	12	U
74-88-4	Iodomethane	12	U
75-15-0	Carbon Disulfide	12	U
75-09-2	Methylene Chloride	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
108-05-4	Vinyl acetate	12	U
78-93-3	2-Butanone	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
590-20-7	2,2-Dichloropropane	12	U
74-97-5	Bromochloromethane	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
563-58-6	1,1-Dichloropropene	12	U
56-23-5	Carbon Tetrachloride	12	U
107-06-2	1,2-Dichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	U
78-87-5	1,2-Dichloropropane	12	U
74-95-3	Dibromomethane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DW-2425

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-16A

Sample wt/vol: 2.5 (g/mL) G Lab File ID: V5H6535

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
100-41-4	Ethylbenzene	12	U
----------	m,p-Xylene	12	U
95-47-6	o-Xylene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-86-1	Bromobenzene	12	U
96-18-4	1,2,3-Trichloropropane	12	U
103-65-1	n-Propylbenzene	12	U
95-49-8	2-Chlorotoluene	12	U
108-67-8	1,3,5-Trimethylbenzene	12	U
106-43-4	4-Chlorotoluene	12	U
98-06-6	tert-Butylbenzene	12	U
95-63-6	1,2,4-Trimethylbenzene	12	U
135-98-8	sec-Butylbenzene	12	U
99-87-6	4-Isopropyltoluene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
104-51-8	n-Butylbenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	12	U
91-20-3	Naphthalene	12	U
87-61-6	1,2,3-Trichlorobenzene	12	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DW-2425

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-16A

Sample wt/vol: 2.5 (g/mL) G Lab File ID: V5H6535

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.15	23	J
2.	589-53-7	HEPTANE, 4-METHYL-	7.18	27	NJ
3.	2213-23-2	HEPTANE, 2,4-DIMETHYL-	8.17	33	NJ
4.		UNKNOWN	8.40	86	J
5.		UNKNOWN	8.78	31	J
6.		UNKNOWN	8.88	140	J
7.	2216-33-3	OCTANE, 3-METHYL-	9.00	54	NJ
8.		UNKNOWN	10.19	24	J
9.		UNKNOWN	14.00	27	J
10.		UNKNOWN	14.74	29	J
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.

DW-2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-17A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: V1I3782

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 18 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
108-05-4	Vinyl acetate	6	U
78-93-3	2-Butanone	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DW-2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-17A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: V1I3782

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 18 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
----------	m,p-Xylene	6	U
95-47-6	o-Xylene	6	U
1330-20-7	Xylene (Total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	2	J
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DW-2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-17A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: V1I3782

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 18 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 9

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124-18-5	DECANE	12.50	13	NJ
2.	1120-21-4	UNDECANE	13.87	10	NJ
3.	112-95-8	EICOSANE	16.12	10	NJ
4.		UNKNOWN	16.90	13	J
5.	629-59-4	TETRADECANE	17.11	40	NJ
6.		UNKNOWN	17.62	8	J
7.	544-76-3	HEXADECANE	17.79	29	NJ
8.		UNKNOWN	17.89	7	J
9.	629-62-9	PENTADECANE	18.20	29	NJ
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.

DWB-1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-18A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3783

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
108-05-4	Vinyl acetate	6	U
78-93-3	2-Butanone	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DWB-1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-18A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3783

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
----------	m,p-Xylene	6	U
95-47-6	o-Xylene	6	U
1330-20-7	Xylene (Total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DWB-1920

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-18A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3783

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 17 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	2216-33-3	OCTANE, 3-METHYL-	9.65	130	NJ
2.	1839-63-0	CYCLOHEXANE, 1,3,5-TRIMETHYL	9.72	120	NJ
3.	3073-66-3	CYCLOHEXANE, 1,1,3-TRIMETHYL	9.89	110	NJ
4.		UNKNOWN	10.18	250	J
5.	2216-33-3	OCTANE, 3-METHYL-	10.36	110	NJ
6.	2051-30-1	OCTANE, 2,6-DIMETHYL-	11.48	87	NJ
7.		UNKNOWN	11.65	140	J
8.		UNKNOWN	14.09	60	J
9.	26730-14-3	TRIDECANE, 7-METHYL-	15.86	110	NJ
10.	3891-98-3	DODECANE, 2,6,10-TRIMETHYL-	16.90	62	NJ
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.

DWB-2425

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-19A

Sample wt/vol: 0.6 (g/mL) G Lab File ID: V5H6536

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	46	U
74-87-3	Chloromethane	46	U
75-01-4	Vinyl Chloride	46	U
74-83-9	Bromomethane	46	U
75-00-3	Chloroethane	46	U
75-69-4	Trichlorofluoromethane	46	U
75-35-4	1,1-Dichloroethene	46	U
67-64-1	Acetone	46	U
74-88-4	Iodomethane	46	U
75-15-0	Carbon Disulfide	46	U
75-09-2	Methylene Chloride	46	U
156-60-5	trans-1,2-Dichloroethene	46	U
1634-04-4	Methyl tert-butyl ether	46	U
75-34-3	1,1-Dichloroethane	46	U
108-05-4	Vinyl acetate	46	U
78-93-3	2-Butanone	46	U
156-59-2	cis-1,2-Dichloroethene	46	U
590-20-7	2,2-Dichloropropane	46	U
74-97-5	Bromochloromethane	46	U
67-66-3	Chloroform	46	U
71-55-6	1,1,1-Trichloroethane	46	U
563-58-6	1,1-Dichloropropene	46	U
56-23-5	Carbon Tetrachloride	46	U
107-06-2	1,2-Dichloroethane	46	U
71-43-2	Benzene	46	U
79-01-6	Trichloroethene	46	U
78-87-5	1,2-Dichloropropane	46	U
74-95-3	Dibromomethane	46	U
75-27-4	Bromodichloromethane	46	U
10061-01-5	cis-1,3-Dichloropropene	46	U
108-10-1	4-Methyl-2-pentanone	46	U
108-88-3	Toluene	46	U
10061-02-6	trans-1,3-Dichloropropene	46	U
79-00-5	1,1,2-Trichloroethane	46	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DWB-2425

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-19A

Sample wt/vol: 0.6 (g/mL) G Lab File ID: V5H6536

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	46	U
127-18-4	Tetrachloroethene	46	U
591-78-6	2-Hexanone	46	U
124-48-1	Dibromochloromethane	46	U
106-93-4	1,2-Dibromoethane	46	U
108-90-7	Chlorobenzene	46	U
630-20-6	1,1,1,2-Tetrachloroethane	46	U
100-41-4	Ethylbenzene	2000	E
----------	m,p-Xylene	13000	E
95-47-6	o-Xylene	46	U
1330-20-7	Xylene (Total)	13000	E
100-42-5	Styrene	46	U
75-25-2	Bromoform	46	U
98-82-8	Isopropylbenzene	3900	E
79-34-5	1,1,2,2-Tetrachloroethane	46	U
108-86-1	Bromobenzene	46	U
96-18-4	1,2,3-Trichloropropane	46	U
103-65-1	n-Propylbenzene	6000	E
95-49-8	2-Chlorotoluene	46	U
108-67-8	1,3,5-Trimethylbenzene	18000	E
106-43-4	4-Chlorotoluene	46	U
98-06-6	tert-Butylbenzene	46	U
95-63-6	1,2,4-Trimethylbenzene	26000	E
135-98-8	sec-Butylbenzene	2200	E
99-87-6	4-Isopropyltoluene	4200	E
541-73-1	1,3-Dichlorobenzene	46	U
106-46-7	1,4-Dichlorobenzene	1400	
104-51-8	n-Butylbenzene	6400	E
95-50-1	1,2-Dichlorobenzene	46	U
96-12-8	1,2-Dibromo-3-chloropropane	46	U
120-82-1	1,2,4-Trichlorobenzene	46	U
87-68-3	Hexachlorobutadiene	46	U
91-20-3	Naphthalene	940	
87-61-6	1,2,3-Trichlorobenzene	46	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DWB-2425

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-19A

Sample wt/vol: 0.6 (g/mL) G Lab File ID: V5H6536

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	592-27-8	HEPTANE, 2-METHYL-	7.17	1400	NJ
2.	111-65-9	OCTANE	7.80	1600	NJ
3.		UNKNOWN	9.05	1100	J
4.		UNKNOWN	9.48	980	J
5.		UNKNOWN	9.90	990	J
6.		UNKNOWN	10.20	650	J
7.		UNKNOWN	10.52	880	J
8.	620-14-4	BENZENE, 1-ETHYL-3-METHYL-	10.93	970	NJ
9.		UNKNOWN	11.78	540	J
10.		UNKNOWN	12.70	550	J
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.

DWB-2425DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-19ADL

Sample wt/vol: 5.1 (g/mL) G Lab File ID: V6F1731

Level: (low/med) MED Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/11/07

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

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	3000	U
74-87-3	Chloromethane	3000	U
75-01-4	Vinyl Chloride	3000	U
74-83-9	Bromomethane	3000	U
75-00-3	Chloroethane	3000	U
75-69-4	Trichlorofluoromethane	3000	U
75-35-4	1,1-Dichloroethene	3000	U
67-64-1	Acetone	3000	U
74-88-4	Iodomethane	3000	U
75-15-0	Carbon Disulfide	3000	U
75-09-2	Methylene Chloride	3000	U
156-60-5	trans-1,2-Dichloroethene	3000	U
1634-04-4	Methyl tert-butyl ether	3000	U
75-34-3	1,1-Dichloroethane	3000	U
108-05-4	Vinyl acetate	3000	U
78-93-3	2-Butanone	3000	U
156-59-2	cis-1,2-Dichloroethene	3000	U
590-20-7	2,2-Dichloropropane	3000	U
74-97-5	Bromochloromethane	3000	U
67-66-3	Chloroform	3000	U
71-55-6	1,1,1-Trichloroethane	3000	U
563-58-6	1,1-Dichloropropene	3000	U
56-23-5	Carbon Tetrachloride	3000	U
107-06-2	1,2-Dichloroethane	3000	U
71-43-2	Benzene	3000	U
79-01-6	Trichloroethene	3000	U
78-87-5	1,2-Dichloropropane	3000	U
74-95-3	Dibromomethane	3000	U
75-27-4	Bromodichloromethane	3000	U
10061-01-5	cis-1,3-Dichloropropene	3000	U
108-10-1	4-Methyl-2-pentanone	3000	U
108-88-3	Toluene	3000	U
10061-02-6	trans-1,3-Dichloropropene	3000	U
79-00-5	1,1,2-Trichloroethane	3000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DWB-2425DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-19ADL

Sample wt/vol: 5.1 (g/mL) G Lab File ID: V6F1731

Level: (low/med) MED Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/11/07

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

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	3000	U
127-18-4	Tetrachloroethene	3000	U
591-78-6	2-Hexanone	3000	U
124-48-1	Dibromochloromethane	3000	U
106-93-4	1,2-Dibromoethane	3000	U
108-90-7	Chlorobenzene	3000	U
630-20-6	1,1,1,2-Tetrachloroethane	3000	U
100-41-4	Ethylbenzene	3100	D
----------	m,p-Xylene	23000	D
95-47-6	o-Xylene	3000	U
1330-20-7	Xylene (Total)	23000	D
100-42-5	Styrene	3000	U
75-25-2	Bromoform	3000	U
98-82-8	Isopropylbenzene	5200	D
79-34-5	1,1,2,2-Tetrachloroethane	3000	U
108-86-1	Bromobenzene	3000	U
96-18-4	1,2,3-Trichloropropane	3000	U
103-65-1	n-Propylbenzene	10000	D
95-49-8	2-Chlorotoluene	3000	U
108-67-8	1,3,5-Trimethylbenzene	41000	D
106-43-4	4-Chlorotoluene	3000	U
98-06-6	tert-Butylbenzene	1400	DJ
95-63-6	1,2,4-Trimethylbenzene	73000	D
135-98-8	sec-Butylbenzene	3000	U
99-87-6	4-Isopropyltoluene	4700	D
541-73-1	1,3-Dichlorobenzene	3000	U
106-46-7	1,4-Dichlorobenzene	2600	DJ
104-51-8	n-Butylbenzene	17000	D
95-50-1	1,2-Dichlorobenzene	3000	U
96-12-8	1,2-Dibromo-3-chloropropane	3000	U
120-82-1	1,2,4-Trichlorobenzene	3000	U
87-68-3	Hexachlorobutadiene	3000	U
91-20-3	Naphthalene	3300	D
87-61-6	1,2,3-Trichlorobenzene	3000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DWB-2425DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-19ADL

Sample wt/vol: 5.1 (g/mL) G Lab File ID: V6F1731

Level: (low/med) MED Date Received: 03/24/07

% Moisture: not dec. 10 Date Analyzed: 04/11/07

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

Soil Extract Volume: 5 (mL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.99	54000	JD
2.	589-81-1	HEPTANE, 3-METHYL-	8.18	72000	NJD
3.	111-65-9	OCTANE	8.71	160000	NJD
4.	1072-05-5	HEPTANE, 2,6-DIMETHYL-	9.31	52000	NJD
5.	1678-91-7	CYCLOHEXANE, ETHYL-	9.64	74000	NJD
6.	3074-71-3	HEPTANE, 2,3-DIMETHYL-	9.92	49000	NJD
7.	2216-33-3	OCTANE, 3-METHYL-	10.19	85000	NJD
8.		UNKNOWN	10.69	86000	JD
9.	696-29-7	CYCLOHEXANE, (1-METHYLETHYL)	11.48	79000	NJD
10.	934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHY	13.62	40000	NJD
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.

DWB-2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-20A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3784

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
108-05-4	Vinyl acetate	6	U
78-93-3	2-Butanone	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DWB-2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-20A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3784

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
----------	m,p-Xylene	6	U
95-47-6	o-Xylene	6	U
1330-20-7	Xylene (Total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DWB-2930

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: F0378-20A

Sample wt/vol: 5.3 (g/mL) G Lab File ID: V1I3784

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. 15 Date Analyzed: 04/06/07

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	17.62	7	J
2.		UNKNOWN	17.79	44	J
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.

FB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: F0378-14A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1411

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. _____ Date Analyzed: 04/02/07

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
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: F0378-14A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1411

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. _____ Date Analyzed: 04/02/07

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
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: F0378-14A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1411

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. _____ Date Analyzed: 04/02/07

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.					
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.

TB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: F0378-21A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1557

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	1	J
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: F0378-21A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1557

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: F0378-21A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1557

Level: (low/med) LOW Date Received: 03/24/07

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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.					
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.

V1DLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29227

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1I3743

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	34	
74-87-3	Chloromethane	45	
75-01-4	Vinyl Chloride	52	
74-83-9	Bromomethane	45	
75-00-3	Chloroethane	46	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	49	
67-64-1	Acetone	66	
74-88-4	Iodomethane	50	
75-15-0	Carbon Disulfide	49	
75-09-2	Methylene Chloride	48	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	58	
75-34-3	1,1-Dichloroethane	50	
108-05-4	Vinyl acetate	59	
78-93-3	2-Butanone	65	
156-59-2	cis-1,2-Dichloroethene	48	
590-20-7	2,2-Dichloropropane	50	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	48	
71-55-6	1,1,1-Trichloroethane	45	
563-58-6	1,1-Dichloropropene	48	
56-23-5	Carbon Tetrachloride	44	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	52	
74-95-3	Dibromomethane	52	
75-27-4	Bromodichloromethane	48	
10061-01-5	cis-1,3-Dichloropropene	52	
108-10-1	4-Methyl-2-pentanone	73	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	55	
79-00-5	1,1,2-Trichloroethane	53	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V1DLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29227

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1I3743

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	54	
127-18-4	Tetrachloroethene	40	
591-78-6	2-Hexanone	65	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	45	
630-20-6	1,1,1,2-Tetrachloroethane	46	
100-41-4	Ethylbenzene	43	
----------	m,p-Xylene	90	
95-47-6	o-Xylene	46	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	43	
79-34-5	1,1,2,2-Tetrachloroethane	53	
108-86-1	Bromobenzene	44	
96-18-4	1,2,3-Trichloropropane	62	
103-65-1	n-Propylbenzene	40	
95-49-8	2-Chlorotoluene	42	
108-67-8	1,3,5-Trimethylbenzene	42	
106-43-4	4-Chlorotoluene	42	
98-06-6	tert-Butylbenzene	42	
95-63-6	1,2,4-Trimethylbenzene	41	
135-98-8	sec-Butylbenzene	40	
99-87-6	4-Isopropyltoluene	40	
541-73-1	1,3-Dichlorobenzene	42	
106-46-7	1,4-Dichlorobenzene	42	
104-51-8	n-Butylbenzene	40	
95-50-1	1,2-Dichlorobenzene	44	
96-12-8	1,2-Dibromo-3-chloropropane	60	
120-82-1	1,2,4-Trichlorobenzene	44	
87-68-3	Hexachlorobutadiene	41	
91-20-3	Naphthalene	52	
87-61-6	1,2,3-Trichlorobenzene	44	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V1ELCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29252

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1I3773

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	32	
74-87-3	Chloromethane	42	
75-01-4	Vinyl Chloride	50	
74-83-9	Bromomethane	43	
75-00-3	Chloroethane	46	
75-69-4	Trichlorofluoromethane	45	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	65	
74-88-4	Iodomethane	50	
75-15-0	Carbon Disulfide	48	
75-09-2	Methylene Chloride	48	
156-60-5	trans-1,2-Dichloroethene	47	
1634-04-4	Methyl tert-butyl ether	58	
75-34-3	1,1-Dichloroethane	51	
108-05-4	Vinyl acetate	59	
78-93-3	2-Butanone	60	
156-59-2	cis-1,2-Dichloroethene	47	
590-20-7	2,2-Dichloropropane	51	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	47	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	49	
56-23-5	Carbon Tetrachloride	47	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	54	
74-95-3	Dibromomethane	51	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	71	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	55	
79-00-5	1,1,2-Trichloroethane	52	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V1ELCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29252

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1I3773

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	53	
127-18-4	Tetrachloroethene	44	
591-78-6	2-Hexanone	64	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	46	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	47	
----------	m,p-Xylene	96	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	55	
98-82-8	Isopropylbenzene	49	
79-34-5	1,1,2,2-Tetrachloroethane	52	
108-86-1	Bromobenzene	48	
96-18-4	1,2,3-Trichloropropane	62	
103-65-1	n-Propylbenzene	47	
95-49-8	2-Chlorotoluene	47	
108-67-8	1,3,5-Trimethylbenzene	48	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	48	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	50	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	58	
120-82-1	1,2,4-Trichlorobenzene	51	
87-68-3	Hexachlorobutadiene	50	
91-20-3	Naphthalene	56	
87-61-6	1,2,3-Trichlorobenzene	51	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V5ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29222

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5H6483

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	55	
74-87-3	Chloromethane	51	
75-01-4	Vinyl Chloride	53	
74-83-9	Bromomethane	58	
75-00-3	Chloroethane	57	
75-69-4	Trichlorofluoromethane	66	
75-35-4	1,1-Dichloroethene	58	
67-64-1	Acetone	45	
74-88-4	Iodomethane	57	
75-15-0	Carbon Disulfide	55	
75-09-2	Methylene Chloride	50	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	50	
75-34-3	1,1-Dichloroethane	51	
108-05-4	Vinyl acetate	49	
78-93-3	2-Butanone	44	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	57	
74-97-5	Bromochloromethane	49	
67-66-3	Chloroform	55	
71-55-6	1,1,1-Trichloroethane	57	
563-58-6	1,1-Dichloropropene	51	
56-23-5	Carbon Tetrachloride	57	
107-06-2	1,2-Dichloroethane	56	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	49	
75-27-4	Bromodichloromethane	54	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	44	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	49	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V5ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29222

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5H6483

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	49	
127-18-4	Tetrachloroethene	54	
591-78-6	2-Hexanone	44	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	48	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	51	
----------	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	50	
75-25-2	Bromoform	50	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	45	
108-86-1	Bromobenzene	52	
96-18-4	1,2,3-Trichloropropane	47	
103-65-1	n-Propylbenzene	53	
95-49-8	2-Chlorotoluene	50	
108-67-8	1,3,5-Trimethylbenzene	53	
106-43-4	4-Chlorotoluene	51	
98-06-6	tert-Butylbenzene	56	
95-63-6	1,2,4-Trimethylbenzene	52	
135-98-8	sec-Butylbenzene	52	
99-87-6	4-Isopropyltoluene	53	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	49	
104-51-8	n-Butylbenzene	52	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	44	
120-82-1	1,2,4-Trichlorobenzene	49	
87-68-3	Hexachlorobutadiene	52	
91-20-3	Naphthalene	40	
87-61-6	1,2,3-Trichlorobenzene	46	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V5BLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29256

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5H6533

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/06/07

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
75-71-8	Dichlorodifluoromethane	55	
74-87-3	Chloromethane	48	
75-01-4	Vinyl Chloride	52	
74-83-9	Bromomethane	54	
75-00-3	Chloroethane	53	
75-69-4	Trichlorofluoromethane	64	
75-35-4	1,1-Dichloroethene	56	
67-64-1	Acetone	41	
74-88-4	Iodomethane	56	
75-15-0	Carbon Disulfide	52	
75-09-2	Methylene Chloride	50	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl tert-butyl ether	50	
75-34-3	1,1-Dichloroethane	52	
108-05-4	Vinyl acetate	50	
78-93-3	2-Butanone	49	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	55	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	55	
71-55-6	1,1,1-Trichloroethane	58	
563-58-6	1,1-Dichloropropene	54	
56-23-5	Carbon Tetrachloride	59	
107-06-2	1,2-Dichloroethane	58	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	55	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	53	
75-27-4	Bromodichloromethane	55	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	53	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	52	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V5BLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29256

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5H6533

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/06/07

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
142-28-9	1,3-Dichloropropane	48	
127-18-4	Tetrachloroethene	56	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	51	
100-41-4	Ethylbenzene	51	
----------	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	51	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	51	
96-18-4	1,2,3-Trichloropropane	52	
103-65-1	n-Propylbenzene	52	
95-49-8	2-Chlorotoluene	51	
108-67-8	1,3,5-Trimethylbenzene	52	
106-43-4	4-Chlorotoluene	52	
98-06-6	tert-Butylbenzene	52	
95-63-6	1,2,4-Trimethylbenzene	53	
135-98-8	sec-Butylbenzene	53	
99-87-6	4-Isopropyltoluene	53	
541-73-1	1,3-Dichlorobenzene	50	
106-46-7	1,4-Dichlorobenzene	51	
104-51-8	n-Butylbenzene	52	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	53	
87-68-3	Hexachlorobutadiene	58	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	52	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6DLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: LCS-29156

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1393

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/02/07

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
75-71-8	Dichlorodifluoromethane	39	
74-87-3	Chloromethane	42	
75-01-4	Vinyl Chloride	46	
74-83-9	Bromomethane	54	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	70	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	45	
74-88-4	Iodomethane	54	
75-15-0	Carbon Disulfide	48	
75-09-2	Methylene Chloride	56	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl tert-butyl ether	50	
75-34-3	1,1-Dichloroethane	53	
108-05-4	Vinyl acetate	49	
78-93-3	2-Butanone	44	
156-59-2	cis-1,2-Dichloroethene	52	
590-20-7	2,2-Dichloropropane	70	
74-97-5	Bromochloromethane	55	
67-66-3	Chloroform	58	
71-55-6	1,1,1-Trichloroethane	56	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon Tetrachloride	57	
107-06-2	1,2-Dichloroethane	60	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	56	
75-27-4	Bromodichloromethane	57	
10061-01-5	cis-1,3-Dichloropropene	54	
108-10-1	4-Methyl-2-pentanone	42	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	53	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6DLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: LCS-29156

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1393

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/02/07

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
142-28-9	1,3-Dichloropropane	52	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	39	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	52	
630-20-6	1,1,1,2-Tetrachloroethane	55	
100-41-4	Ethylbenzene	52	
----------	m,p-Xylene	100	
95-47-6	o-Xylene	52	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	50	
75-25-2	Bromoform	50	
98-82-8	Isopropylbenzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-86-1	Bromobenzene	51	
96-18-4	1,2,3-Trichloropropane	48	
103-65-1	n-Propylbenzene	49	
95-49-8	2-Chlorotoluene	51	
108-67-8	1,3,5-Trimethylbenzene	52	
106-43-4	4-Chlorotoluene	50	
98-06-6	tert-Butylbenzene	51	
95-63-6	1,2,4-Trimethylbenzene	53	
135-98-8	sec-Butylbenzene	52	
99-87-6	4-Isopropyltoluene	52	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	50	
104-51-8	n-Butylbenzene	52	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	44	
120-82-1	1,2,4-Trichlorobenzene	44	
87-68-3	Hexachlorobutadiene	50	
91-20-3	Naphthalene	37	
87-61-6	1,2,3-Trichlorobenzene	40	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6LLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: LCS-29237

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1544

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
75-71-8	Dichlorodifluoromethane	50	
74-87-3	Chloromethane	45	
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	47	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	51	
67-64-1	Acetone	43	
74-88-4	Iodomethane	50	
75-15-0	Carbon Disulfide	50	
75-09-2	Methylene Chloride	50	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	53	
75-34-3	1,1-Dichloroethane	48	
108-05-4	Vinyl acetate	52	
78-93-3	2-Butanone	58	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	49	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	50	
563-58-6	1,1-Dichloropropene	51	
56-23-5	Carbon Tetrachloride	49	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	49	
74-95-3	Dibromomethane	52	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	59	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	53	
79-00-5	1,1,2-Trichloroethane	53	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6LLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) WATER Lab Sample ID: LCS-29237

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6F1544

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/07

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
142-28-9	1,3-Dichloropropane	51	
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	56	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	50	
----------	m,p-Xylene	100	
95-47-6	o-Xylene	51	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	53	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	53	
108-86-1	Bromobenzene	51	
96-18-4	1,2,3-Trichloropropane	55	
103-65-1	n-Propylbenzene	50	
95-49-8	2-Chlorotoluene	50	
108-67-8	1,3,5-Trimethylbenzene	53	
106-43-4	4-Chlorotoluene	51	
98-06-6	tert-Butylbenzene	52	
95-63-6	1,2,4-Trimethylbenzene	52	
135-98-8	sec-Butylbenzene	53	
99-87-6	4-Isopropyltoluene	53	
541-73-1	1,3-Dichlorobenzene	50	
106-46-7	1,4-Dichlorobenzene	50	
104-51-8	n-Butylbenzene	55	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	54	
120-82-1	1,2,4-Trichlorobenzene	53	
87-68-3	Hexachlorobutadiene	49	
91-20-3	Naphthalene	58	
87-61-6	1,2,3-Trichlorobenzene	54	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6NLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29260

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6F1609

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2400	
74-87-3	Chloromethane	2200	
75-01-4	Vinyl Chloride	2400	
74-83-9	Bromomethane	2600	
75-00-3	Chloroethane	2400	
75-69-4	Trichlorofluoromethane	2900	
75-35-4	1,1-Dichloroethene	2600	
67-64-1	Acetone	2400	
74-88-4	Iodomethane	2600	
75-15-0	Carbon Disulfide	2600	
75-09-2	Methylene Chloride	2600	
156-60-5	trans-1,2-Dichloroethene	2600	
1634-04-4	Methyl tert-butyl ether	2700	
75-34-3	1,1-Dichloroethane	2500	
108-05-4	Vinyl acetate	2500	
78-93-3	2-Butanone	2800	
156-59-2	cis-1,2-Dichloroethene	2600	
590-20-7	2,2-Dichloropropane	2300	
74-97-5	Bromochloromethane	2600	
67-66-3	Chloroform	2700	
71-55-6	1,1,1-Trichloroethane	2700	
563-58-6	1,1-Dichloropropene	2500	
56-23-5	Carbon Tetrachloride	2700	
107-06-2	1,2-Dichloroethane	2800	
71-43-2	Benzene	2600	
79-01-6	Trichloroethene	2500	
78-87-5	1,2-Dichloropropane	2600	
74-95-3	Dibromomethane	2700	
75-27-4	Bromodichloromethane	2700	
10061-01-5	cis-1,3-Dichloropropene	2400	
108-10-1	4-Methyl-2-pentanone	2600	
108-88-3	Toluene	2600	
10061-02-6	trans-1,3-Dichloropropene	2600	
79-00-5	1,1,2-Trichloroethane	2700	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6NLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29260

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6F1609

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/06/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	2600	
127-18-4	Tetrachloroethene	2600	
591-78-6	2-Hexanone	2400	
124-48-1	Dibromochloromethane	2600	
106-93-4	1,2-Dibromoethane	2600	
108-90-7	Chlorobenzene	2600	
630-20-6	1,1,1,2-Tetrachloroethane	2600	
100-41-4	Ethylbenzene	2700	
----------	m,p-Xylene	5400	
95-47-6	o-Xylene	2700	
1330-20-7	Xylene (Total)	8100	
100-42-5	Styrene	2700	
75-25-2	Bromoform	2700	
98-82-8	Isopropylbenzene	2800	
79-34-5	1,1,2,2-Tetrachloroethane	2700	
108-86-1	Bromobenzene	2600	
96-18-4	1,2,3-Trichloropropane	3200	
103-65-1	n-Propylbenzene	2600	
95-49-8	2-Chlorotoluene	2600	
108-67-8	1,3,5-Trimethylbenzene	2800	
106-43-4	4-Chlorotoluene	2600	
98-06-6	tert-Butylbenzene	2600	
95-63-6	1,2,4-Trimethylbenzene	2800	
135-98-8	sec-Butylbenzene	2800	
99-87-6	4-Isopropyltoluene	2700	
541-73-1	1,3-Dichlorobenzene	2600	
106-46-7	1,4-Dichlorobenzene	2600	
104-51-8	n-Butylbenzene	2800	
95-50-1	1,2-Dichlorobenzene	2700	
96-12-8	1,2-Dibromo-3-chloropropane	2600	
120-82-1	1,2,4-Trichlorobenzene	2600	
87-68-3	Hexachlorobutadiene	2400	
91-20-3	Naphthalene	2900	
87-61-6	1,2,3-Trichlorobenzene	2700	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6TLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29303

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6F1729

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/11/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5 (mL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1800	
74-87-3	Chloromethane	2200	
75-01-4	Vinyl Chloride	2300	
74-83-9	Bromomethane	2400	
75-00-3	Chloroethane	2400	
75-69-4	Trichlorofluoromethane	2400	
75-35-4	1,1-Dichloroethene	2400	
67-64-1	Acetone	2500	
74-88-4	Iodomethane	2400	
75-15-0	Carbon Disulfide	2500	
75-09-2	Methylene Chloride	2700	
156-60-5	trans-1,2-Dichloroethene	2700	
1634-04-4	Methyl tert-butyl ether	2400	
75-34-3	1,1-Dichloroethane	2600	
108-05-4	Vinyl acetate	2600	
78-93-3	2-Butanone	2700	
156-59-2	cis-1,2-Dichloroethene	2700	
590-20-7	2,2-Dichloropropane	1900	
74-97-5	Bromochloromethane	2800	
67-66-3	Chloroform	2600	
71-55-6	1,1,1-Trichloroethane	2500	
563-58-6	1,1-Dichloropropene	2700	
56-23-5	Carbon Tetrachloride	2400	
107-06-2	1,2-Dichloroethane	2600	
71-43-2	Benzene	2900	
79-01-6	Trichloroethene	2600	
78-87-5	1,2-Dichloropropane	2900	
74-95-3	Dibromomethane	2800	
75-27-4	Bromodichloromethane	2600	
10061-01-5	cis-1,3-Dichloropropene	2400	
108-10-1	4-Methyl-2-pentanone	2600	
108-88-3	Toluene	2800	
10061-02-6	trans-1,3-Dichloropropene	2400	
79-00-5	1,1,2-Trichloroethane	2800	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6TLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MF0378

Matrix: (soil/water) SOIL Lab Sample ID: LCS-29303

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6F1729

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/11/07

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5 (mL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	2800	
127-18-4	Tetrachloroethene	2700	
591-78-6	2-Hexanone	2200	
124-48-1	Dibromochloromethane	2500	
106-93-4	1,2-Dibromoethane	2600	
108-90-7	Chlorobenzene	2800	
630-20-6	1,1,1,2-Tetrachloroethane	2600	
100-41-4	Ethylbenzene	2700	
----------	m,p-Xylene	5500	
95-47-6	o-Xylene	2800	
1330-20-7	Xylene (Total)	8300	
100-42-5	Styrene	2800	
75-25-2	Bromoform	2600	
98-82-8	Isopropylbenzene	2700	
79-34-5	1,1,2,2-Tetrachloroethane	2800	
108-86-1	Bromobenzene	2700	
96-18-4	1,2,3-Trichloropropane	3300	
103-65-1	n-Propylbenzene	2800	
95-49-8	2-Chlorotoluene	2800	
108-67-8	1,3,5-Trimethylbenzene	2700	
106-43-4	4-Chlorotoluene	2800	
98-06-6	tert-Butylbenzene	2600	
95-63-6	1,2,4-Trimethylbenzene	2800	
135-98-8	sec-Butylbenzene	2800	
99-87-6	4-Isopropyltoluene	2800	
541-73-1	1,3-Dichlorobenzene	2700	
106-46-7	1,4-Dichlorobenzene	2600	
104-51-8	n-Butylbenzene	2700	
95-50-1	1,2-Dichlorobenzene	2700	
96-12-8	1,2-Dibromo-3-chloropropane	2300	
120-82-1	1,2,4-Trichlorobenzene	2300	
87-68-3	Hexachlorobutadiene	2200	
91-20-3	Naphthalene	2300	
87-61-6	1,2,3-Trichlorobenzene	2300	

Appendix C

Microbial Insights Data Package
March 2007 Sampling Event

microbialinsights

2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

Phospholipid Fatty Acid Analysis

Interpretation Guidelines

Phospholipids fatty acids (PLFA) are a main component of the membrane (essentially the "skin") of microbes and provide a powerful tool for assessing microbial responses to changes in their environment. This type of analysis provides direct information for assessing and monitoring sites where bioremediation processes, including natural attenuation, are of interest. Analysis of the types and amount of PLFA provides a broad based understanding of the entire microbial community with information obtained in three key areas viable biomass, community structure and metabolic activity.

What is the detection limit for PLFA?

Our limit of detection for PLFA analysis is ~50 picomoles of total PLFA and our limit of quantification is ~150 picomoles of total PLFA. Samples which contain PLFA amounts at or below 50 pmol cannot be used to determine biomass, likewise samples with PLFA content below ~150 pmol are generally considered to contain too few fatty acids to discuss community composition.

How should I interpret the PLFA results?

Interpreting the results obtained from PLFA analysis can be somewhat difficult, so this document was designed to provide a technical guideline. For convenience, this guideline has been divided into the three key areas.

Viable Biomass

PLFA analysis is one of the most reliable and accurate methods available for the determination of viable microbial biomass. Phospholipids break down rapidly upon cell death (21, 23), so biomass calculations based on PLFA content do not contain 'fossil' lipids of dead cells.

How is biomass measured?

Viable biomass is determined from the total amount of PLFA detected in a given sample. Since, phospholipids are an essential part of intact cell membranes they provide an accurate measure of viable cells.

How is biomass calculated?

Biomass levels are reported as cells per gram, mL or bead, and are calculated using a conversion factor of 20,000 cells/pmole of PLFA. This conversation factor is based upon cells grown in laboratory media, and varies somewhat with the type of organism and environmental conditions.

What does the concentration of biomass mean?

The overall abundance of microbes within a given sample is often used as an indicator of the potential for bioremediation to occur, but understanding the levels of biomass within each sample can be cumbersome. The following are benchmarks that can be used to understand whether the biomass levels are low, moderate or high.

Low	Moderate	High
10^3 to 10^4 cells	10^5 to 10^6 cells	10^7 to 10^8 cells

How do I know if a change in biomass is significant?

One of the primary functions of using PLFA analysis at contaminated sites is to evaluate how a community responds following a given treatment, but how does one know if the changes observed between two events are significant? As a general rule, biomass levels which increase or decrease by at least an order of magnitude are considered to be significant. However, changes in biomass levels of less than an order of magnitude may still show a trend. It is important to remember that many factors can affect microbial growth, so factors other than the treatment could be influencing the changes observed between sampling events. Some of the factors to consider are: temperature, moisture, pH, etc. The following illustration depicts three types of changes that occurred over time and the conclusions that could be drawn.

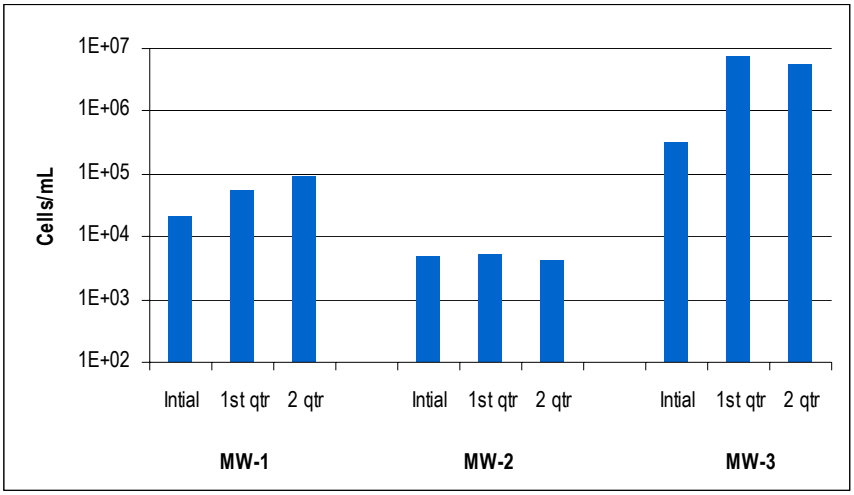


Figure 1. Biomass content is presented as a cell equivalent based on the total amount of phospholipid fatty acids (PLFA) extracted from a given sample. Total biomass is calculated based upon PLFA attributed to bacterial and eukaryotic biomass (associated with higher organisms).

Conclusions from graph above:

- MW-1 showed a trend of biomass levels increasing steadily over time, although cell concentrations were ~10^4 cells/mL at each sampling event.
- MW-2 showed no notable trends or significant changes in biomass concentrations.
- MW-3 showed a significant increase in biomass levels between the initial and 1st quarter sampling events (from ~10^5 to ~10^6 cells/mL).

Community Structure:

The PLFA in a sample can be separated into particular types, and the resulting PLFA "profile" reflects the proportions of the categories of organisms present in the sample. Because groups of bacteria differ in their metabolic capabilities, determining which bacterial groups are present and their relative distributions within the community can provide information on what metabolic processes are occurring at that location. This in turn can also provide information on the subsurface conditions (i.e oxidation/reduction status, etc.). Table 1 describes the six major structural groups used and their potential relevance to site specific projects.

Table 1. Description of PLFA structural groups.

PLFA Structural Group	General classification	Potential Relevance to Bioremediation Studies
Monoenoic (Monos)	Abundant in Proteobacteria (Gram negative bacteria), typically fast growing, utilize many carbon sources, and adapt quickly to a variety of environments.	Proteobacteria is one of the largest groups of bacteria and represents a wide variety of both aerobes and anaerobes. The majority of Hydrocarbon utilizing bacteria fall within the Proteobacteria
Terminally Branched Saturated (TerBrSats)	Characteristic of Firmicutes (Low G+C Gram-positive bacteria), and also found in Bacteriodes, and some Gram-negative bacteria (especially anaerobes).	Firmicutes are indicative of presence of anaerobic fermenting bacteria (mainly *Clostridia/Bacteriodes*-like), which produce the H_2 necessary for reductive dechlorination
Branched Monoenoic (BrMonos)	Found in the cell membranes of micro-aerophiles and anaerobes, such as sulfate- or iron-reducing bacteria	In contaminated environments high proportions are often associated with anaerobic sulfate and iron reducing bacteria
Mid-Chain Branched Saturated (MidBrSats)	Common in sulfate reducing bacteria and also Actinobacteria (High G+C Gram-positive bacteria).	In contaminated environments high proportions are often associated with anaerobic sulfate and iron reducing bacteria
Normal Saturated (Nsats)	Found in all organisms.	High proportions often indicate less diverse populations.
Polyenoic	Found in eukaryotes such as fungi, protozoa, algae, higher plants, and animals.	Eukaryotic scavengers will often rise up and prey on contaminant utilizing bacteria

Following are answers to some of the common questions about community composition and some detailed descriptions of some typical shifts which can be observed between sampling events.

How is the community structure data presented?

Community structure data is presented as percentage (%) of the total amount of PLFA. In order to relate the complex mixture of PLFA to the organisms present, the ratio of a specifc PLFA group is determined (detailed in Table 1 above), and this corresponds to the proportion of the related bacterial classification within the overall community structure. Because normal saturated PLFA are found in both prokaryotes (bacteria) and eukaryotes (fungi, protozoa, diatoms etc), their distribution provides little insight into the types of microbes that are present at a sampling location. However, high proportions of normal saturates are often associated with less diverse microbial populations.

How can community structure data be used to manage my site?

It is important to understand that microbial communities are often a mixture of different types of bacteria (e.g. aerobes, sulfate reducers, methanogens, etc) with the abundance of each group behaving like a seesaw, i.e. as the population of one group increases, another is likely decreasing, mostly due to competition for available resources. The PLFA profile of a sample provides a "fingerprint" of the microbial community, showing relative proportions of the specific bacterial types at the time of sampling. This is a great tool for detecting shifts within the community over time and also to evaluate similarities/differences between sampling locations. It is important to note that PLFA analysis of community structure is analyzing the microbes directly, not just secondary breakdown products. So this provides evidence of how the entire microbial community is responding to the treatment.

How do I recognize community shifts and what they mean?

Shifts in the community structure are indications of changing conditions and their effect on the microbial community, and, by extension on the metabolic processes occurring at the sampling location. Some of the more commonly seen shifts within the community are illustrated and discussed below:

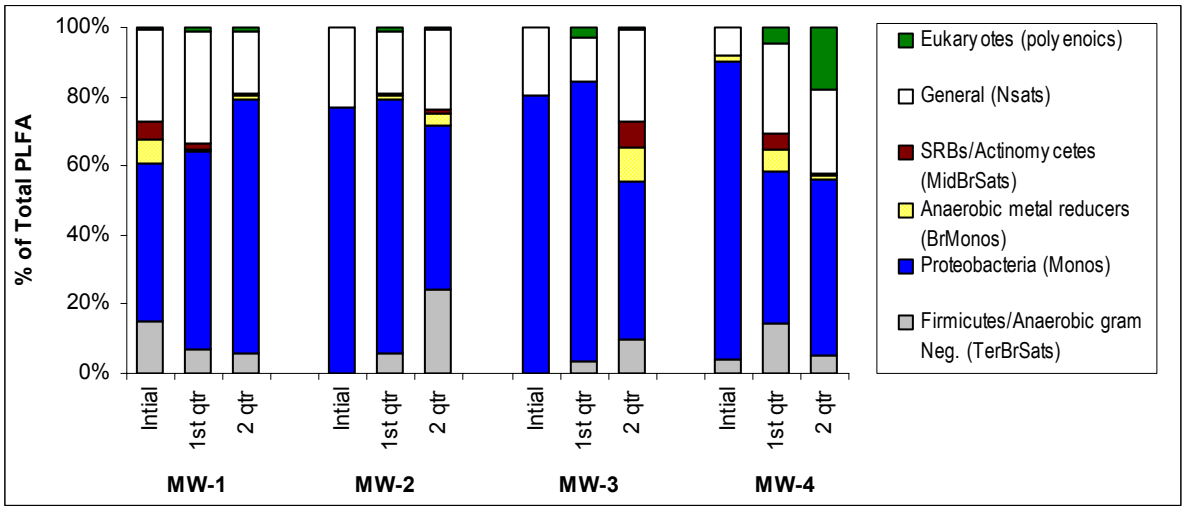


Figure 2. Relative percentages of total PLFA structural groups in the samples analyzed. Structural groups are assigned according to PLFA chemical structure, which is related to fatty acid biosynthesis. See Table 1 for detailed descriptions of structural groups.

- **Increased Proteobacteria**

Proportions of Proteobacteria are of interest because it is one of the largest groups of bacteria and represents a wide variety of both aerobe and anaerobes. The majority of hydrocarbons (including benzene and naphthalene) are metabolized by some member of Proteobacteria, mainly due to their ability to grow opportunistically, quickly taking advantage of available food (i.e. hydrocarbons), and adapting quickly to changes in the environment. The detection of increased proportions of Proteobacteria coupled with increased biomass suggests that the Proteobacteria are consuming something. In situations where it is important to determine the extent to which the Proteobacteria are utilizing anaerobic or aerobic pathways, it is possible to measure relative proportions of specific biomarkers that are associated with anaerobic or aerobic pathways thus separating the Proteobacteria into different groups, based on pathways used. Sample MW-1 from Figure 2 depicts a shift in community structure where the proportion of Proteobacteria has increased over time.

- **Increased Firmicutes/Anaerobic Gram negative bacteria**

Increased proportions of Firmicutes/Anaerobic Gram negative bacteria generally indicate that conditions are becoming more reductive (i.e. more anaerobic). Proportions of Firmicutes are of particular interest in sites contaminated with chlorinated hydrocarbons because Firmicutes include anaerobic fermenting bacteria (mainly *Clostridia/Bacteriodes*-like), which produce the H_2 necessary for reductive dechlorination.

Enhanced bioremediation of chlorinated solvents often employs the injection of fermentable substrates which, when utilized by fermenting bacteria, results in the release of H_2. Engineered shifts in the microbial community can be shown by observing increased proportions Firmicutes following an injection of fermentable substrate. Through long-term monitoring of the community structure it is possible to know when re-injection may be necessary or desirable. Sample MW-2 from Figure 2 depicts a shift in community structure where the proportion of Firmicutes has increased over time.

- **Increased anaerobic metal reducing bacteria (BrMonos) and SRB/Actinomycetes (MidBrSats)**

An increase in the proportions of metal and sulfate reducing bacterial groups, especially when combined with shifts in the other bacterial groups, can provide information helpful to monitoring bioremediation. Generally, an increase in metal and sulfate reducers points to more reduced (anaerobic) conditions at the sampled location. This is especially true if there is an increase in Firmicutes at the same time. Large increases in either metal and sulfate reducers, particularly if accompanied by a decrease in Firmicutes, may suggest that conditions are becoming increasingly reduced. In this situation the metal and sulfate reducers may be out-competing dechlorinators for available H_2, thereby limiting the potential for reductive dechlorination at that location. Sample MW-3 from Figure 2 depicts a shift in community structure where the proportion of metal reducing bacteria has increased over time.

- **Increased Eukaryotes**

Eukaryotes include organisms such as fungi, protozoa, and diatoms. At a contaminated location, an increase in eukaryotes, particularly if seen with a decrease in the contaminant utilizing bacteria, suggests that eukaryotic scavengers are preying upon what had been an abundance of bacteria which were consuming the contaminant. Sample MW-4 from Figure 2 depicts a shift in community structure where the proportion of eukaryotes has increased over time.

Physiological status of Proteobacteria

The membrane of a microbe adapts to the changing conditions of its environment, and these changes are reflected in the PLFA. Toxic compounds or environmental conditions may disrupt the membrane and some bacteria respond by making *trans* fatty acids instead of the usual *cis* fatty acids (7) in order to strengthen the cell membrane, making it less permeable. Many Proteobacteria respond to lack of available substrate or to highly toxic conditions by making cyclopropyl (7) or mid-chain branched fatty acids (20) which point to less energy expenditure and a slowed growth rate. The physiological status ratios for Decreased Permeability (trans/cis ratio) and for Slowed Growth (cy/cis ratio) are based on dividing the amount of the fatty acid induced by environmental conditions by the amount of its biosynthetic precursor.

What does slowed growth or decreased permeability mean?

Ratios for slowed growth and for decreased permeability of the cell membrane provide information on the "health" of the Gram negative community, that is, how this population is responding to the conditions present in the environment. It should be noted that one must be cautious when interpreting these measures from only one sampling event. The most effective way to use the physiological status indicators is in long term monitoring and comparing how these ratios increase/decrease over time.

A marked increase in either of these ratios suggests a change in environment which is less favorable to the Gram negative Proteobacteria population. The ratio for slowed growth is a relative measure, and does not directly correspond to log or stationary phases of growth, but is useful as a comparison of growth rates among sampling locations and also over time. An increase in this ratio (i.e. slower growth rate) suggests a change in conditions which is not as supportive of rapid, "healthy" growth of the Gram negative population, often due to reduced available substrate (food). A larger ratio for decreased permeability suggests that the environment has become more toxic to the Gram negative population, requiring energy expenditure to produce *trans* fatty acids in order to make the membrane more rigid.

References

1. Amann, R. I., W. Ludwig, and K.-H. Schleifer. 1995. Phylogenetic identification and in situ detection of individual microbial cells without cultivation. Microbiological Reviews 59:143-169.
2. Cottrell, MT and David L. Kirchman. Appl Environ Microbiol. 2000 April; 66 (4): 16921697.
3. Gillis, M., V. Tran Van, R. Bardin, M. Goor, P. Hebbar, A. Willems, P. Segers, K. Kerstens, T. Heulin, and M. P. Fernadez. 1995. Polyphasic taxonomy in the genus Burkholderia leading to an amended description of the genus and proposition of Burkholderia vietnamiensis sp. nov. for N2-fixing isolates from rice in Vietnam. Int. J. Syst. Bacteriol. 45:274-289.
4. Dowling, N. J. E., F. Widdel, and D. C. White. 1986. Phospholipid ester-linked fatty acid biomarkers of acetate-oxidizing sulfate reducers and other sulfide forming bacteria. Journal of General Microbiology 132:1815-1825.
5. Edlund, A., P. D. Nichols, R. Roffey, and D. C. White. 1985. Extractable and lipopolysaccharide fatty acid and hydroxy acid profiles from Desulfovibrio species. Journal of Lipid Research 26:982-988.
6. Guckert, J. B., C. P. Antworth, P. D. Nichols, and D. C. White. 1985. Phospholipid ester-linked fatty acid profiles as reproducible assays for changes in prokaryotic community structure of estuarine sediments. FEMS Microbiol. Ecol. 31:147-158.
7. Guckert, J. B., M. A. Hood, and D. C. White. 1986. Phospholipid ester-linked fatty acid profile changes during nutrient deprivation of Vibrio cholerae: increases in the trans/cis ratio and proportions of cyclopropyl fatty acids. Appl. Environ. Microbiol. 52:794–801.
8. Hedrick, D.B., A Peacock, J.R. Stephen, S.J. Macnaughton, Julia Brüggemann, and David C. White. 2000. Measuring soil microbial community diversity using polar lipid fatty acid and denatured gradient gel electrophoresis data. J. Microbiol. Methods, 41, 235-248.
9. ITRC Internet Training on Natural Attenuation of Chlorinated Solvents in Groundwater: Principles and Practices, Apr 00.
10. Löffler, F. E., Q. Sun, et al. (2000). "16S rRNA gene-based detection of tetrachloroethene-dechlorinating Desulfuromonas and Dehalococcoides species." Appl Environ Microbiol 66(4): 1369-1374.
11. Maymo-Gatell X, Chien Y, Gossett JM, Zinder SH. 1997. Isolation of a bacterium that reductively dechlorinates tetrachloroethene to ethene. Science 276(5318):1568-71.
12. Muyzer, G., E. C. De Waal, and A. G. Uitterlinden. 1993. Profiling of complex microbial populations by denaturing gradient gel electrophoresis analysis of polymerase chain reaction-amplified genes coding for 16S rRNA. Applied and Environmental Microbiology 59:695-700.
13. Ribosomal Database Project (http://rdp.cme.msu.edu. National Center for Biotechnology Information. (http://www.ncbi.nlm.nih.gov/)
14. Overman, J., "Family Chlorobiaceae," in M. Dworkin et al., eds., The Prokaryotes: An Evolving Electronic Resource for the Microbiological Community, 3rd edition, release 3.7, November 2, 2001, Springer-Verlag, New York, www.prokaryotes.com.
15. Ringelberg, D. B., G. T. Townsend, K. A. DeWeerd, J. M. Sulita, and D. C. White. 1994. Detection of the anaerobic dechlorinating microorganism Desulfomonile tiedjei in environmental matrices by its signature lipopolysaccharide branch-long-chain hydroxy fatty acids. FEMS Microbiol. Ecol. 14:9-18.
16. Schlötelburg, C. 2001. Mikrobielle Diversität und Dynamik einer 1,2-Dichlorpropan dechlorierenden Mischkultur (Microbial Diversity and Dynamics in a 1,2-Dichloropropane Dechlorinating Mixed Culture). Dissertation, Humbolt University, Berlin, Germany. In German: http://edoc.hu-berlin.de/dissertationen/schloetelburg-cord-2001-12-07/PDF/Schloetelburg.pdf
17. Sharp, R., D. Cossar, and R. Williams. 1995. Physiology and metabolism of Thermus. Biotechnol. Handb. 9:67-91.
18. Stephen, J. R., Y.-J. Chang, Y. D. Gan, A. Peacock, S. Pfiffner, M. Barcelona, D. C. White, and S. J. Macnaughton. 1999. Microbial characterization of a JP-4 fuel-contaminated site using a combined lipid biomarker/polymerase chain reaction-denaturing gradient gel electrophoresis (PCR-DGGE) based approach. Environmental Microbiology 1:231-241.
19. Tighe, S.W., de Lajudie, P., Dipietro, K., Lindström, K., Nick, G. & Jarvis, B.D.W. (2000). Analysis of cellular fatty acids and phenotypic relationships of Agrobacterium, Bradyrhizobium, Mesorhizobium, Rhizobium and Sinorhizobium species using the Sherlock Microbial Identification System. Int J Syst Evol Microbiol 50, 787-801.
20. Tsitko, I.V. Gennadi M. Zaitsev, Anatoli G. Lobanok, and Mirja S. Salkinoja-Salonen. 1999. Applied and Environmental Microbiology 65(2) 853-855.
21. White, D. C., W. M. Davis, J. S. Nickels, J. D. King, and R. J. Bobbie. 1979. Determination of the sedimentary microbial biomass by extractable lipid phosphate. Oecologia 40:51-62.
22. White, D. C., H. C. Pinkart, and D. B. Ringelberg. 1997. Biomass measurements: Biochemical approaches, p. 91-101. In C. J. Hurst, G. R. Knudsen, M. J. McInerney, L. D. Stetzenbach, and M. V. Walter (ed.), Manual of Environmental Microbiology. ASM Press, Washington.
23. White, D. C., and D. B. Ringelberg. 1995. Utility of signature lipid biomarker analysis in determining in situ viable biomass, community structure, and nutritional / physiological status of the deep subsurface microbiota. In P. S. Amy and D. L. Halderman (ed.), The microbiology of the terrestrial subsurface. CRC Press, Boca Raton.
24. White, D. C., J. O. Stair, and D. B. Ringelberg. 1996. Quantitative comparisons of in situ microbial biodiversity by signature biomarker analysis. Journal of Industrial Microbiology 17:185-196.
25. Vandamme P, Pot B, Gillis M, de Vos P, Kersters K, Swings J. Polyphasic taxonomy, a consensus approach to bacterial systematics. Microbiol Rev 1996 Jun;60(2):407-38.

2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

DNA Analysis Report

Client: Kevin Seise
Earth Tech, Inc.
300 Broadacres Drive
Bloomfield, NJ 07003

Phone: (973) 338-6680

Fax: (973) 338-1052

MI Identifier: 047EC **Date Rec:** 03/26/2007 **Report Date:** 04/23/2007

Client Project #: 95900 **Client Project Name:** SMS

Purchase Order #:

Analysis Requested: CENSUS, PLFA

Comments:

All samples within this data package were analyzed under U.S. EPA Good Laboratory Practice Standards: Toxic Substances Control Act (40 CFR part 790). All samples were processed according to standard operating procedures. Test results submitted in this data package meet the quality assurance requirements established by Microbial Insights, Inc.

Reported By: Anita Biernacki

Reviewed By: Dora M Ogles

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel: (865) 573-8188; Fax: (865) 573-8133

Q Potential (DNA)

Client: **Earth Tech, Inc.**
Project: SMS

MI Project Number: **047EC**
Date Received: 03/26/2007

Sample Information

Client Sample ID:		**SB1223.5.24.5**	**SB12B23.5.24.5**	**SB1622.5.23.5**	**SB16B22.5.23.5**	**DW 24-25**
Sample Date:		03/22/2007	03/22/2007	03/22/2007	03/22/2007	03/23/2007
Units:		cells/g	cells/g	cells/g	cells/g	cells/g

Functional Genes

Soluble Methane Monooxygenase	sMMO	**1.58E+08**	**2.35E+07**	**1.16E+08**	**8.29E+08**	**2.93E+08**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Notes:
1 Bio-Dechlor Census technology was developed by Dr. Loeffler and colleagues at Georgia Institute of Technology and was licensed for use through Regenesis.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel: (865) 573-8188; Fax: (865) 573-8133

Q Potential (DNA)

Client: **Earth Tech, Inc.**
Project: SMS

MI Project Number: **047EC**
Date Received: 03/26/2007

Sample Information

Client Sample ID:	**DWB 24-25**
Sample Date:	03/23/2007
Units:	cells/g

Functional Genes

Soluble Methane Monooxygenase	sMMO	**8.07E+07**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Notes:
1 Bio-Dechlor Census technology was developed by Dr. Loeffler and colleagues at Georgia Institute of Technology and was licensed for use through Regenesis.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel: (865) 573-8188; Fax: (865) 573-8133

PLFA

Client: **Earth Tech, Inc.**
Project: SMS

MI Project Number: **047EC**
Date Received: 03/26/2007

Sample Information

Sample Name:	**SB1223.5.24.5**	**SB12B23.5.24.5**	**SB1622.5.23.5**	**SB16B22.5.23.5**	**DW 24-25**
Sample Date:	03/22/2007	03/22/2007	03/22/2007	03/22/2007	03/23/2007
Sample Matrix:	Soil	Soil	Soil	Soil	Soil
Biomass					
Total Biomass (cells/g)	**9.92E+07**	**4.05E+07**	**1.26E+08**	**1.35E+08**	**1.12E+08**
Community Structure (% total PLFA)					
Firmicutes (TerBrSats)	**13.30**	**12.99**	**13.94**	**11.97**	**8.90**
Proteobacteria (Monos)	**57.83**	**55.70**	**58.90**	**60.27**	**69.43**
Anaerobic metal reducers (BrMonos)	**1.41**	**0.90**	**1.44**	**1.22**	**1.32**
SRB/Actinomycetes (MidBrSats)	**2.64**	**4.27**	**2.48**	**2.48**	**1.63**
General (Nsats)	**23.90**	**25.44**	**22.58**	**23.51**	**17.89**
Eukaryotes (polyenoics)	**0.92**	**0.71**	**0.65**	**0.56**	**0.86**
Physiological Status (Proteobacteria only)					
Slowed Growth	**0.90**	**0.63**	**0.90**	**0.67**	**0.52**
Decreased Permeability	**0.21**	**0.28**	**0.17**	**0.09**	**0.13**

Legend:
NA = Not Analyzed NS = Not Sampled

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel: (865) 573-8188; Fax: (865) 573-8133

PLFA

Client: **Earth Tech, Inc.**
Project: SMS

MI Project Number: **047EC**
Date Received: 03/26/2007

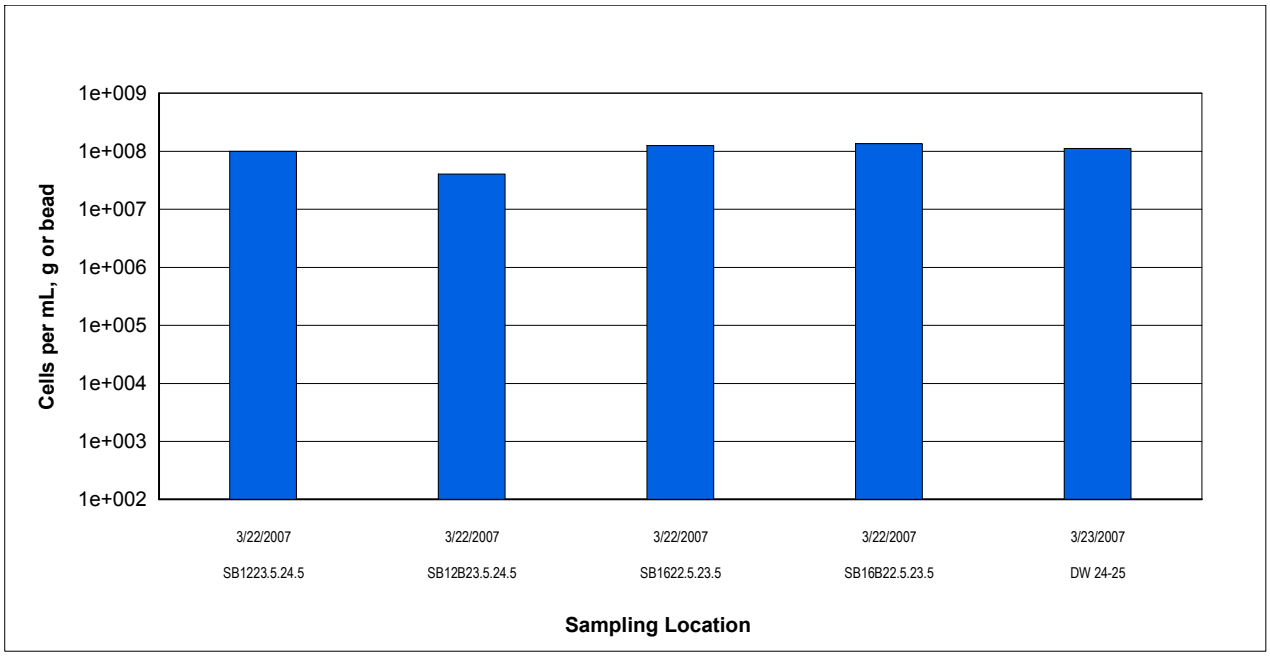


Figure 1. Biomass content is presented as a cell equivalent based on the total amount of phospholipid fatty acids (PLFA) extracted from a given sample. Total biomass is calculated based upon PLFA attributed to bacterial and eukaryotic biomass (associated with higher organisms).

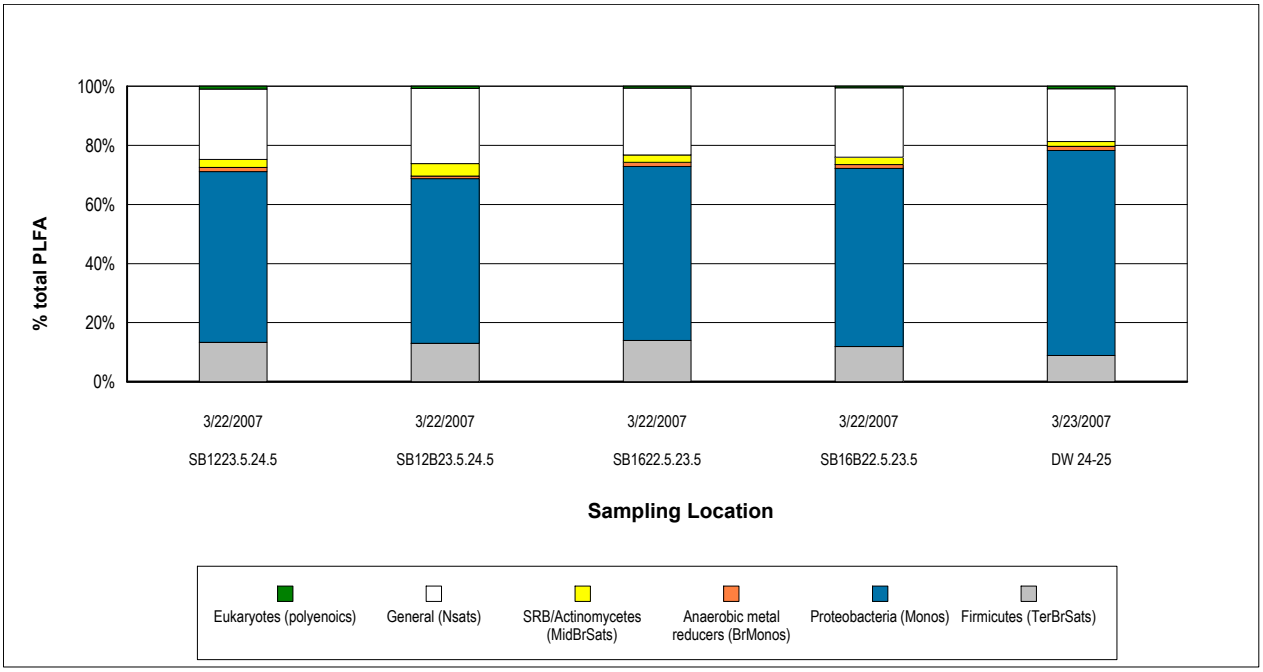


Figure 2. Relative percentages of total PLFA structural groups in the samples analyzed. Structural groups are assigned according to PLFA chemical structure, which is related to fatty acid biosynthesis.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel: (865) 573-8188; Fax: (865) 573-8133

PLFA

Client: **Earth Tech, Inc.**
Project: SMS

MI Project Number: **047EC**
Date Received: 03/26/2007

Sample Information

Sample Name:	**DWB 24-25**
Sample Date:	03/23/2007
Sample Matrix:	Soil

Biomass

Total Biomass (cells/g)	**1.33E+08**

Community Structure (% total PLFA)

Firmicutes (TerBrSats)	**15.10**
Proteobacteria (Monos)	**59.17**
Anaerobic metal reducers (BrMonos)	**1.14**
SRB/Actinomycetes (MidBrSats)	**2.92**
General (Nsats)	**20.87**
Eukaryotes (polyenoics)	**0.79**

Physiological Status (Proteobacteria only)

Slowed Growth	**0.58**
Decreased Permeability	**0.15**

Legend:
NA = Not Analyzed NS = Not Sampled

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel: (865) 573-8188; Fax: (865) 573-8133

PLFA

Client: **Earth Tech, Inc.**
Project: SMS

MI Project Number: **047EC**
Date Received: 03/26/2007

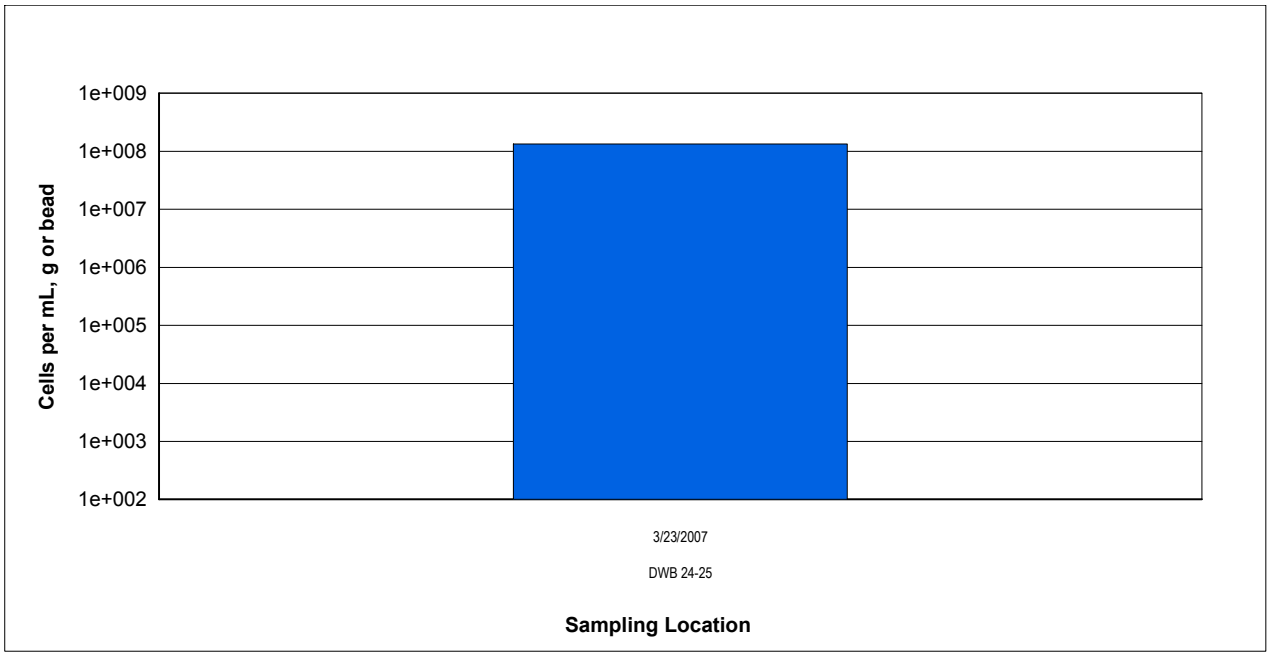


Figure 1. Biomass content is presented as a cell equivalent based on the total amount of phospholipid fatty acids (PLFA) extracted from a given sample. Total biomass is calculated based upon PLFA attributed to bacterial and eukaryotic biomass (associated with higher organisms).

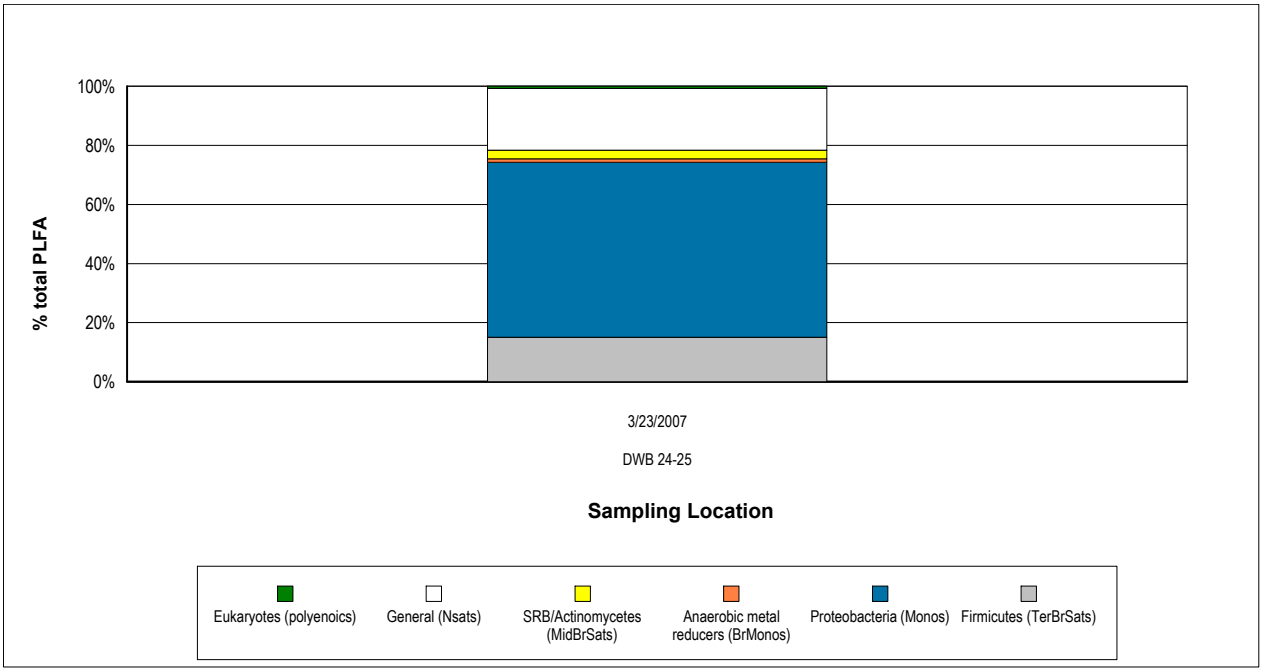


Figure 2. Relative percentages of total PLFA structural groups in the samples analyzed. Structural groups are assigned according to PLFA chemical structure, which is related to fatty acid biosynthesis.

microbialinsights

2340 Stock Creek Blvd
Rockford, TN 37853-3044
phone (865) 573-8188
fax: (865) 573-8133
email: info@microbe.com
www.microbe.com

REPORT TO:

Reports will be provided to the contact(s) listed below. Parties other than the contact(s) listed below will require prior approval.

Name: KEVIN SEISE
Company: EARTH TECH
Address: 300 BROAD ACRES DR
BLOOMFIELD, NJ 07003

email: KEVIN.SEISE@EARTHTECH.COM
Phone: (973) 338-6680
Fax: (973) 338-1052

Project Manager: PAUL KARETH
Project Name: SIMS
Project No.: 95900

INVOICE TO:

For invoices **paid by a third party** it is imperative that contact information & corresponding reference No. be provided.

Name:
Company:
Address:

email:
Phone: ( )
Fax: ( )

Purchase Order No.
Subcontract No.

Please Check One:

☐ More samples to follow
☒ No Additional Samples

Report Type: ☒ Standard (default) ☐ Comprehensive (15% surcharge) ☐ Historical (30% surcharge)

Please contact us prior to submitting samples regarding questions about the analyses you are requesting at (865) 573-8188 (8:00 am to 4:00 pm M-F). After these hours please call (865) 300-8053.

Sample Information | **Q-Targets:** Prior to selecting targets mark either Q-Potential for DNA or Q-Expression for RNA

MI ID (Laboratory Use Only)	Sample Name	Date Sampled	Time Sampled	Matrix	PLFA	VFA	MEE	[illegible]	[illegible]	Q-Potential (DNA)	Q-Expression (RNA)*	qDHC (Dehalococcoides)	qTCE R-Dase	qBAV1 VC R-Dase	qDHB (Dehalobacter)	qDSM (Desulfuromonas)	qDSB (Desulfitobacterium)	qEBAC (Total)	qDSR (SRBs only)	qSRB/IRB	qMGN (methanogens)	qMOB (methanotrophs)	qDNT (Denitrifying)	qAOB (ammonia oxidizing)	qPM1 (MTBE aerobic)
047EC 1	SB12 23.5-24.5	3/22/07	1038	SOIL	X																	X			
2	SB12B 23.5-24.5	↓	1226		X																	X			
3	SB16 22.5-23.5		1555		X																	X			
4	SB16B 22.5-23.5		1425		X																	X			
5	DW 24-25	3/23/07	1153		X																	X			
6	DWB 24-25	3/23/07	1017		X																	X			

Relinquished by: KEVIN SEISE Date: 3/23/07 Received by: Tiffany Morgan Date 3/26/07

RLJ.

Sample(s) Received:

COC sent: (Y) N

Temp.: 7 °C

No. of damaged/missin

Sample Ana

CUL (DNA) (PLFA) V

Set #: 047EC Signe

In order for analysis to be completed correctly, it is vital that chain of custody is filled out correctly & that all relative information is provided. Failure to provide sufficient and/or correct information regarding reporting, invoicing or analysis requested may result in delays for which MI will not be liable. *** additional cost and sample preservation are associated with RNA samples.**