

Study

SUPPLEMENTAL PHASE II REMEDIAL INVESTIGATION

**Pole-Lite Industries, Inc.
Champlain, New York**

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Project: 1282-01-1

**Volume II
Appendix**

**MALCOLM
PIRNIE**

ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

1.0 INTRODUCTION

In accordance with Malcolm Pirnie, Inc.'s corporate policies, this Health and Safety Plan (HASP) was prepared to describe the specific safety requirements for site investigation and remediation activities at the Pole-Lite Industries, Inc. facility in Champlain, Clinton County, New York. The HASP presents information and procedures for employees involved with field activities at this site, including the assignment of responsibilities, personnel protection requirements, work practices and emergency response procedures. The available historical information and potential health hazards associated with chemicals detected on-site form the basis for this document. Environmental monitoring will be performed as necessary during field activities to assess the appropriateness of the prescribed levels of protection and procedures. The resulting information will assist in refinement of the HASP to address specific conditions encountered and present corrective procedures.

This HASP is one source of information on site conditions to be used by subcontractors, who are responsible for performing their work in a safe and environmentally acceptable manner.

All Malcolm Pirnie personnel involved with the Pole-Lite Industries, Inc., site will be required to familiarize themselves with and abide by this HASP. Compliance with this Plan is mandatory for all Malcolm Pirnie site workers. Enforcement and adherence to the HASP will help prevent the loss of life, injury or health hazards to the field investigators and the public. The Malcolm Pirnie Project Manager, the Health and Safety Manager and the Site Health and Safety Officer identified below will determine and enforce compliance. A copy of this HASP will be available from the Site Health and Safety Officer or his/her designee during site activities.

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This HASP addresses the requirements outlined in the following documents:

- o Standard Operating Safety Guides, USEPA Emergency Response Team; November 1984;
- o Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities; NIOSH, OSHA, USCG, USEPA; October 1985; and
- o OSHA Health and Safety regulations contained in 29 CFR 1910 and 1926.

Activities included in the expanded Phase II investigation include soil boring and sampling, monitoring well installation, water level measurements, site survey, soils removal, and construction of and operation of ground water recovery and treatment system.

2.0 CONTAMINANT CHARACTERISTICS AND TOXICOLOGY

The following compounds have been identified at the site. The investigation will determine the extent of impacts on ground water and soil. This section of the HASP has been prepared as a planning document for the site investigation.

2.1 Hazardous Substances on Site

Since 1973, the site has been used to manufacture tapered aluminum light poles. The manufacturing process basically consists of spinning a straight aluminum stock on a lathe-type machine to taper the stock. In the machining process, a heavy weight machine oil is spread on the stock as a lubricant. Once the stock has been tapered, a cleaning solvent (mineral spirits) is used to wash the oil from the finished pole.

In other portions of the manufacturing process, such as welding of bases and arms to poles, another type of cleaning solvent was used. The solvent used for this process was 1,1,1 trichloroethane. The trichloroethane was applied to the area to be welded with sponges, then spoiled into 5-gallon pails. The used trichloroethane was stored in 55-gallon drums along with the used lubricating oil and mineral spirits. From 1973 to 1984, the majority of the used solvents and oils were taken off the site by employees and local farmers, and incinerated, the balance was stored on-site. Occasional spillage of this stored material is suspected.

Acetone (2-Propanone)

Acetone is a colorless liquid, with a fragrant, mint-like odor at about 20 ppm. An industrial solvent, acetone has not been reported to cause injurious effects, other than skin irritation due to its defatting action, and headache from prolonged inhalation. At 500 ppm it can cause skin and eye irritation. Acetone's toxicity is very low via the dermal route.

Acetone presents a dangerous fire and explosion hazard when exposed to heat or flame. It also reacts vigorously with oxidizers.

Chloroform (Trichloromethane)

Chloroform is a halogenated aliphatic hydrocarbon, with a sweetish odor. It is a colorless, heavy liquid which is slightly soluble in water. Chloroform is non-flammable and in the past was widely used as a medical anesthesia. Chloroform is categorized as a B-2 probable carcinogen through both oral and inhalation routes of exposure.

In the vapor and liquid states, chloroform is an irritant to the eyes and skin. The lower detectable limit for smell is in the 200 - 300 ppm range. The symptoms from exposure to high concentrations are narcosis and anesthesia. Health risks from over exposure are liver, kidney and heart damage. Prolonged exposure leads to paralysis, cardiac failure and death.

Chloroethane (Ethyl Chloride)

Chloroethane is a halogenated hydrocarbon, is a colorless liquid having a pleasant, ether-like odor. It is only slightly soluble in water and floats. Chloroethane is a highly flammable substance and can boil on water. It is incompatible with chemically active metals such as sodium, potassium, calcium and powdered aluminum. Toxic and corrosive fumes are produced upon reaction with steam or water. Phosgene gas is formed as a combustion product.

Chloroethane is an irritant of the skin, eyes and mucus membranes. Routes of exposure may be skin or eye contact, inhalation and ingestion. Vapors cause slight irritations to the eyes and respiratory system. It may result in reddening of the skin if spilled on clothing. Exposure to chloroethane vapors cause drunkenness, anesthesia, abdominal cramps, cardiac arrhythmia, liver and kidney damage.

1,1-Dichloroethane (Ethylidene Chloride)

1,1-Dichloroethane is used as a cleansing agent, a degreaser, a solvent for plastics, rubber, oils and fats, as a grain fumigant, and as an intermediate chemical in organic syntheses. It is slightly soluble in water and sinks. It is combustible and reacts with strong oxidizers such as nitrates, permanganates, and strong caustics (e.g., sodium hydroxide or potassium hydroxide). When heated, 1,1-dichloroethane may form highly toxic phosgene or vinyl chloride fumes.

Short term exposure through inhalation may cause nasal irritation, salivation, sneezing, coughing, drowsiness, numbness in arms and legs, and unconsciousness. Contact may produce skin and eye irritation. Ingestion may cause nausea and vomiting. Long term exposure experiments have produced liver, kidney, and lung damage and birth defects in laboratory animals. It is unknown whether or not it does so in humans.

1,2-Dichloroethane (Ethylene Chloride)

1,2-Dichloroethane, commonly known as ethylene dichloride (EDC), is a chlorinated hydrocarbon used primarily as a component of leaded fuel and as an

intermediate in the production of several chlorinated hydrocarbons. EDC is slightly soluble in water, and therefore leaching through the soil into the groundwater is an expected route of dispersal.

The USEPA classifies EDC as Group B2, probable carcinogen via both oral and inhalation routes of exposure. EDC has been shown to be carcinogenic in mice and rats following oral exposure, producing a variety of tumors. It is mutagenic when tested using bacterial test systems. Human exposure by inhalation has been shown to cause headaches, dizziness, nausea, vomiting, abdominal pain, irritation of mucous membranes, and liver and kidney dysfunction. Dermatitis may be produced by skin contact.

1,1-Dichloroethene (1,1-Dichloroethylene)

1,1-Dichloroethene (vinylidene chloride) is an intermediate in the production of vinylidene polymer plastics such as Saran and Velon. 1,1-Dichloroethane is insoluble in water and sparingly soluble in organic solvents. Volatilization appears to be the primary transport process and its subsequent photooxidation in the atmosphere by reaction with hydroxyl radicals is apparently the predominant fate process.

The USEPA classifies 1,1-dichloroethene as a Group C, possible human carcinogen, via both oral and inhalation routes of exposure. In one study, this compound was shown to cause kidney tumors in male mice and leukemia in female mice exposed by inhalation but the study was inconclusive. It is regulated in drinking water on the basis of toxicity. 1,1-dichloroethene was mutagenic in several bacterial assays. The compound does not appear to be teratogenic but did cause embryotoxicity and fetotoxicity when administered to rats and rabbits by inhalation. Chronic exposure to low oral doses caused liver changes in rats. Acute exposure to high doses causes central nervous system depression, but neurotoxicity has not been associated with low-level chronic exposure.

Methyl Ethyl Ketone (MEK, 2 - Butanone)

Methyl ethyl ketone is used as a solvent in the surface coating industry, in the manufacture of smokeless powder, and in colorless synthetic resins. Based on its relatively high water solubility and low octanol/water partition coefficient, MEK is expected to have a high soil mobility. Two other processes that may account for the significant loss from soil are volatilization and biodegradation.

MEK has not been tested for carcinogenicity and has produced only equivocal evidence of mutagenicity in a few bacterial assays.

Toluene (Methyl Benzene)

Toluene is an organic liquid derived from coal tar. It is used in the manufacture of many organic compounds and as a solvent for paints, lacquers, and resins. It is also used in the extraction of various principle components from plants and as a gasoline additive. Volatilization is the major route of removal of toluene from aquatic environments. Precipitation or dry deposition can deposit toluene and its oxidation product into aquatic and terrestrial systems. In subsurface soil, toluene may undergo variable degrees of biodegradation depending on the nature of the soil, but a certain portion of the undegraded toluene may percolate through soil into groundwater.

There is no conclusive evidence that toluene is carcinogenic or mutagenic in animals or humans. Oral exposure of toluene at low doses produced a significant increase in embryonic lethality in mice; however, other research indicated that it is not teratogenic. Acute exposure to toluene may cause narcotic effects (impairment of coordination and reaction time), loss of appetite, headache, nausea and eye irritation. Generally, acute poisoning due to exposure to high concentrations are rare, and individuals recover easily when removed from the exposure.

1,1,1-Trichloroethane (Methyl Chloroform)

1,1,1-Trichloroethane is a volatile chlorinated hydrocarbon. It has been used as an industrial solvent and in consumer products as spot removers. 1,1,1-Trichloroethane can be transported in the groundwater, but the speed of transport depends on the composition of the soil.

Studies have indicated that 1,1,1-Trichloroethane increased the incidence of combined hepaticocellular carcinomas and adenomas in female mice when administered by gavage. There is evidence that 1,1,1-Trichloroethane is mutagenic in Salmonella and causes transformation in cultured rat embryo cells. These data suggest that the chemical may be carcinogenic, however the USEPA classified this compound as a non-carcinogen via oral and inhalation routes.

Other toxic effects of 1,1,1-Trichloroethane are seen only at concentrations well above those likely to be in an open environment. the most notable toxic effects in humans and animals are central nervous system

depression. including anesthesia at very high concentrations and impairment of coordination, equilibrium, and judgement at lower concentrations; cardiovascular effects; and adverse effects on the lungs, liver and kidneys. Irritation of the skin and mucous membranes have also been reported.

Xylene (Dimethyl Benzene - 3 Configurations: ortho, meta and para)

Xylene is an aromatic colorless liquid. It is used as a solvent and in the manufacturing of polyester fibers. It is also used as a cleaning agent in microscopic techniques. Xylenes have three isomers (ortho, meta and para) that exhibit similar chemical properties.

Volatilization and subsequent photooxidation in the atmosphere are probably important and fate processes for xylene in the upper layers of soil and in aquatic environments. Xylene binds to sediments in water and to organics in soil and undergoes microbial degradation. Biodegradation is probably the important fate process in both soils and the aquatic environment. Xylenes are unlikely to leach into ground water in high concentrations because of their low water solubility and rapid biodegradation. Xylene is not mutagenic or teratogenic, but has caused fetotoxicity in rats and mice. Acute exposure to high levels of xylene can effect the central nervous system and irritate the mucous membranes.

A summary of chemical characteristics and occupational hazards of the above mentioned contaminants is provided in Table 1.

2.2 Summary of Projected Risks

Due to the presence of contaminants in the soil and groundwater at the Pole-Lite site, the potential exists that during field activities, workers could be exposed to hazardous substances. Hazards and health risks related to project work are associated with the presence of the contaminants described in the previous section. They may be found in ground- water as well as soil on the site. In addition, the use of heavy equipment on-site for excavation and monitoring well installations also presents the potential for physical injury to workers. Further, heat stress for workers wearing protective equipment and clothing may be a possibility.

Although no work at a site containing chemical contamination can be considered completely risk-free, logical and reasonable precautions can be implemented to provide an adequate level of protection for workers. Any

contaminants which may be encountered on site could be toxic if ingested or absorbed in sufficient quantity. The integration of medical evaluations, worker training relative to chemical hazards, safe work practices, proper personal protection, environmental monitoring, work zones and site control, appropriate decontamination procedures, and contingency planning into the project approach minimizes the chances for unnecessary exposures and physical injuries, thereby protecting the health and welfare of on site workers.

3.0 RESPONSIBILITIES OF SAFETY PERSONNEL

The following roles have been identified for the project personnel:

Project Manager - The Project Manager has full responsibility for implementing and executing an effective program of employee protection and accident prevention. The Project Manager may delegate authority to expedite and facilitate any application of the program.

Health and Safety Manager - The Health and Safety Manager serves as the administrator of the corporation's health and safety program. This person is responsible for ensuring that Malcolm Pirnie field personnel are properly trained, have obtained medical clearance to wear respiratory protection, and have been respirator fit tested. Training includes the selection, use and maintenance of personal protective equipment.

The Health and Safety Manager will also serve as scientific advisor for the duration of the project, providing guidance on data interpretation and the determination of appropriate levels of worker protection.

Site Health and Safety Officer - The Site Health and Safety Officer is knowledgeable in safety and worker protection techniques as they relate to the project. Responsibilities include ensuring the day to day compliance of work to this HASP, balanced by the Officer's ability to make needed changes or additions to the plan. This individual or a designee will provide technical assistance to project management on problems relating to industrial hygiene and work site safety.

Regular health and safety briefings will be conducted by the Site Health and Safety Officer. Personal protective equipment, inclement weather, heat stress or the interpretation of newly available environmental monitoring data are examples of topics which might be covered during these briefings. The frequency of safety briefings will be based upon the potential hazards specific to the designated work tasks.

The Site Health and Safety Officer will also be responsible for monitoring the personal exposures of workers to chemical toxicants contained in air, soil or water. This will consist of performing workplace air sampling such as organic vapor monitoring, as well as the interpretation and documentation of all generated data. As data are received and evaluated, the Site

Health and Safety Officer will adapt this HASP to fit the current worker protection needs at the site. Employees will be informed of the air sampling results.

The Site Health and Safety Officer is responsible for the development and set up of emergency procedures and personal decontamination procedures. He shall complete a daily diary of activities with health and safety relevance.

At any time unsafe work conditions are determined, the Site Health and Safety Officer is authorized to stop work. Resolution of all on site health and safety problems will be coordinated through the Project Manager with assistance from the Health and Safety Manager.

4.0 MEDICAL SURVEILLANCE

Medical surveillance is as integral a part of a health and safety program as safety equipment, protective clothing, respiratory protection and training programs. The establishment and use of a medical surveillance program in conjunction with personal monitoring is essential to assess and monitor workers' health and fitness both prior to field activities and during the course of work.

Medical monitoring, including initial employment, annual and employment termination examinations is provided to Malcolm Pirnie employees whose work may result in potential chemical exposure or present unusual physical demands. Medical evaluations, performed by an occupational physician designated by Malcolm Pirnie, are conducted according to the Malcolm Pirnie Medical Monitoring Program and include an evaluation of the workers' ability to use respiratory protective equipment (as per 29 CFR 1910).

The purposes of the medical evaluation are to: (1) determine fitness for duty on hazardous waste sites and (2) establish baseline medical data for future reference.

Supplemental examinations may be performed whenever there is an actual or suspected excessive exposure to chemical contaminants, upon experience of exposure symptoms, or following injuries or temperature stresses.

5.0 EMPLOYEE TRAINING PROGRAM

Malcolm Pirnie field personnel are provided with orientation and refresher training consistent with the requirements of 29 CFR 1910.

Prior to any site activities, field personnel, including subcontractor personnel, will participate in a site-specific health and safety orientation program. At a minimum, the training will cover:

- Site evaluation;
- Special chemical and physical hazards and potential health effects;
- Work zone designations;
- Personnel protective equipment use, maintenance, fit and limitations;
- Decontamination procedures;
- Contingency planning;
- Emergency and routine communications;
- First aid (recognition of conditions requiring emergency or medical care and simple steps to take until help arrives).

The orientation training will serve to:

- Ensure that regard for the health and safety of fellow employees, the public and the environment is maximized;
- Increase the ability of employees to react responsibly and to handle emergency situations in a safe manner under normal conditions and when physiological and psychological stresses occur; and
- Educate employees on the potential hazards at the sites, adverse effects of chemical and physical hazards and the importance of safety and industrial hygiene practices.

6.0 SAFE WORK PRACTICES

The understanding of basic, precautionary concepts regarding personal health and safety is essential for workers assigned to sites where chemical contamination is known or suspected to be present, and deserves emphasis here:

- Eating, drinking, chewing gum or tobacco, smoking, or any practice which increases the probability of hand-to-mouth transfer of contaminated material is strictly prohibited inside the exclusion and contamination reduction zones;
- The hands and face must be thoroughly washed upon leaving the work area and prior to engaging in any activity indicated above. Each individual must shower as soon as possible after the removal of protective clothing and equipment following the completion of the daily field activities;
- Any required respiratory protective equipment and clothing must be worn by personnel as outlined in this Plan. Excessive facial hair (i.e., beards, long mustaches or sideburns), which interferes with the satisfactory respirator-to-face seal is prohibited;
- When it is necessary for a visitor to observe the field work, that person will be allowed on the site only if they are equipped with appropriate personal protective equipment and are familiar with potential hazards, safety practices, decontamination procedures and site communications.
- Contact with surfaces/materials either suspected or known to be contaminated will be avoided to minimize the potential for contaminant transfer to personnel, cross-contamination and need for decontamination;
- Medicine and alcohol can exacerbate the effects of exposure to toxic chemicals. Due to possible contraindications, use of prescribed drugs should be reviewed with the Malcolm Pirnie occupational physician. Alcoholic beverage and illegal drug intake are strictly forbidden during site work activities;
- All personnel shall be familiar with standard operating safety procedures and additional instructions contained in this Health and Safety Plan;
- On-site personnel shall use the "buddy" system. No one may work alone, i.e., out of earshot or visual contact with other workers;
- Ignition of flammable liquids within or through improvised heating devices (e.g. barrels) is forbidden.

- Personnel and equipment in the contaminated area shall be minimized, consistent with effective site operations;
- All employees have the obligation to correct or report unsafe work conditions; and
- Use of contact lenses on-site should be avoided. Contact lenses are prohibited when wearing full-face respiratory protection; spectacle kits for insertion into full-face respirators will be used as required.

7.0 PERSONAL PROTECTIVE EQUIPMENT

7.1 Protection Levels

Personnel will wear protective equipment when work activities involve known or suspected atmospheric contamination; when vapors, gases, or particulates may be generated; or when direct contact with dermally active substances may occur. Contractors and subcontractors are responsible for providing their personnel with personal protection equipment appropriate for the onsite activities being performed. Respirators can protect the lungs, the gastrointestinal tract and the eyes against air toxicants. Chemical resistant clothing can protect the skin from contact with skin-destructive and skin-absorbable chemicals. Good personal hygiene and appropriate work practices can limit or prevent the ingestion of materials.

Equipment designed to protect the body against contact with known or anticipated chemical hazards is generally divided into four categories according to the degree of protection afforded:

- Level A: Should be selected when the highest level of respiratory, skin and eye protection is needed;
- Level B: Should be selected when the highest level of respiratory protection is needed, but a lesser level of skin protection is required; Level B protection is the minimum level recommended on initial site entries until the hazards have been further defined by on-site studies;
- Level C: Should be selected when the types of airborne substances are known, the concentrations have been measured and the criteria for using air-purifying respirators are met; and
- Level D: Should not be worn on any site with respiratory or skin hazards. This is primarily a work uniform providing minimal protection.

In situations where the types of chemicals, concentrations, and possibilities of contact are not known, the appropriate level of protection must be selected based on professional experience and judgement until the hazards may be further characterized. The individual components of clothing and equipment must be assembled into a full protective ensemble to protect the worker from site-specific hazards, while at the same time minimizing hazards and drawbacks of the personal protective gear itself. Ensemble components

which may be used at this site, based on the widely used USEPA levels of protection, are detailed below.

7.1.1 Level B Protection Ensemble

Recommended

- Pressure-demand, full-facepiece self-contained breathing apparatus (MSHA/NIOSH approved) or pressure-demand supplied-air respirator with escape SCBA;
- Chemical-resistant clothing (overalls and long-sleeved jacket; hooded one- or two-piece chemical splash suit; disposable chemical-resistant one piece suit);
- Inner and outer chemical resistant gloves;
- Chemical-resistant safety boots/shoes; and
- Hard hat.

Optional

- Coveralls;
- Disposable boot covers;
- Face shield; and
- Long cotton underwear.

Level B protection is required when the types and atmospheric concentrations of toxic substances have been identified and require the highest level of respiratory protection, but a lower level of skin and eye protection. Meeting any one of the following criteria warrants the use of Level B protection. These would be atmospheres:

- with concentrations Immediately Dangerous to Life and Health (IDLH);
- exceeding limits of protection afforded by a full-face air-purifying respiration mask;
- containing substances for which air-purifying canisters/cartridges do not exist or have low removal efficiency;
- containing substances requiring air-supplied equipment, but substances and/or concentrations, that do not represent a serious skin hazard;
- containing less than 19.5% oxygen by volume; or

- with evidence of incompletely identified vapors or gases as indicated by direct reading organic vapor detection instruments, but with vapors and gases which are not suspected of containing high levels of chemicals harmful to skin or capable of being absorbed through the intact skin.

Level B equipment provides a high level of protection to the respiratory tract, but a somewhat lower level of protection to skin than that provided by Level A protective clothing, which includes a fully encapsulated suit. The chemical-resistant clothing recommended for Level B protection is available in a wide variety of styles, materials, construction detail and permeability. These factors all affect the degree of protection afforded. Level B skin protection is selected by:

- Comparing the concentrations of identified substances in the air with skin toxicity data; and
- Assessing the effect of the substance (at its measured air concentrations or splash potential) on the small area of the head and neck unprotected by chemical-resistant clothing.

The level of protection selected is based primarily on:

- Types and measured concentrations of the chemical substances in the ambient atmosphere and their associated toxicities; and
- Potential or measured exposure to substances in air, splashes of liquids or other indirect contact with material due to the task being performed.

7.1.2 Level C Protection Ensemble

Recommended

- Full-facepiece, air-purifying respirator equipped with MSHA and NIOSH approved organic vapor/acid gas/dust/mist combination cartridges or as designated by the Health and Safety Manager;
- Chemical-resistant clothing (overalls and long-sleeved jacket, hooded, one- or two-piece chemical splash suit or disposable chemical-resistant one-piece suit);
- Inner and outer chemical-resistant gloves;
- Chemical-resistant safety boots/shoes; and
- Hardhat.

Optional

- Coveralls;
- Disposal boot covers;
- Face shield;
- Escape mask; and
- Safety boots/shoes;
- Safety glasses or chemical splash goggles; and
- Hardhat.

Optional

- Inner and outer chemical-resistant gloves;
- Escape mask; and
- Face shield;
Escape mask; and
- Long cotton underwear.

Level C protection is distinguished from Level B by equipment used to protect the respiratory system, assuming the same type of chemical-resistant clothing is used. The main selection criterion for level C is that conditions permit wearing air-purifying devices.

The device must be an air purifying respirator (MSHA/NIOSH approved) equipped with filter cartridges. Cartridges must be able to remove the sub-stances encountered. Respiratory protection shall be used only with proper fitting, training and approval of a qualified individual. In addition, an air-purifying respirator can used only if:

- Oxygen content of the atmosphere is at least 19.5% by volume;
- Substances are identified and concentrations measured;
- Substances have adequate warning properties;
- Individual passes a qualitative fit-test for the mask; and
- Appropriate cartridge/canister is used, and its service limit concentration is not exceeded.

Since many of these conditions are often not satisfied when investigations sites containing hazardous wastes, use of air-purifying respirators are typically limited to situations where total organic vapor concentration in the breathing zone of the worker are determined to be less than 5 ppm or where the hazard is respirable dust.

An air monitoring program is part of all response operations when atmospheric contamination is known or suspected. It is particularly important that the air be monitored thoroughly when personnel are wearing air-purifying respirators. Continual surveillance using direct-reading instruments is needed to detect any changes in air quality necessitating a higher level of respiratory protection.

7.1.3 Level D Protection Ensemble

Recommended

- Coveralls;

The use of Level D protection is sufficient when the following criteria are met:

- No hazardous air pollutants have been measured; and
- Work functions preclude splashes, immersion or the potential for unexpected inhalation of any chemicals.

Level D protection is primarily a work uniform. It can be worn in areas where only boots can be contaminated, or where there are no inhalable toxic substances.

7.2 Recommended Levels of Protection

Based upon current information regarding the contaminants present at the Pole-Lite Industries, Inc. site and the various tasks included in the site investigation, the recommended levels of protection for Malcolm Pirnie, Inc. personnel are outlined in Table 2

Until otherwise indicated by the on-site air monitoring devices, Level D respiratory protection will be employed during on-site excavation, drilling and sampling activities. The level of respiratory protection will be based on the monitoring results and the action levels cited in this HASP. The levels for any of the activities may be modified based on the results of the activities as they progress. If monitoring results should indicate that Level B protection is necessary, work will be stopped and discussions held on further action.

At a minimum, respirator cartridges (when required) will be replaced daily, when damaged on duty, when breakthrough is indicated or when it is difficult to breathe.

During the soil excavation Malcolm Pirnie, Inc. personnel will be responsible for oversight, soil sampling and soil monitoring by head space analysis. During the monitoring well program, Malcolm Pirnie, Inc. personnel will be responsible for oversight, well logging, water level measurements and groundwater sampling.

8.0 ENVIRONMENTAL MONITORING

8.1 General Approach

Whenever feasible, the level of protection established for workers will be based upon qualitative and quantitative determinations of the chemical agents present in the work environment. Respiratory protection may be modified (upgraded or downgraded) based upon the field monitoring data according to the level of persistent readings as described in Section 8.2.

Contaminated materials are most likely to be encountered in known waste spillage areas. The monitoring program will indicate the potential for the volatilization of contaminants when the soil is physically disturbed by drilling, sampling or excavation equipment. The necessary level of respiratory protection will be based upon these sampling results.

A photoionization detector for measuring volatile organic compounds will be utilized as appropriate during the field activities. This photoionizer will be equipped with an 11.7 eV lamp capable of photoionizing the site specific contaminants. Monitoring instruments will be protected from surface contamination (with plastic bags) during use to allow for easy decontamination. Additional monitoring instruments may be added if the situations or conditions change. Readings with the photoionization detector, will be recorded and documented. All instruments will be maintained and calibrated before use and during the field activities as per the manufacturer specifications.

Prior to surface penetration during soil removal activities, background measurements for all detectors will be established and recorded with all support equipment engines turned off to eliminate the interfering effect of exhaust. All field measurements will be obtained and documented on the appropriate forms by the Site Health and Safety Officer. All values generated will be immediately interpreted as a means of checking and ensuring the effectiveness of the existing level of protection.

Upon surface penetration, initial characterization of the disturbed soil will be obtained using the photoionization detector. Observed values will then be recorded and maintained as part of the permanent field record. Breathing zone values will also be periodically determined with the photoionization detector, the frequency of which will be dependent primarily upon values generated by the disturbed soil and the proximity of the worker's

breathing zones to the source of contamination. Appropriate action will immediately be taken if contaminant values encountered are in excess of established action levels appropriate for the prescribed level of protection. These action levels are described in Section 8.2.

Sampling and monitoring of the soils will be performed outside the excavation whenever possible. Entry into the excavation for sampling purposes will proceed with extreme caution. Since many of the compounds are denser than air, monitoring in the breathing zone and at the bottom of the excavation will be performed.

8.2 Monitoring Action Levels

Action levels associated with persistent readings obtained with the photoionization detector (for organic vapors), in the breathing zone of the workers are as follows:

- Level B - Total atmospheric concentrations of unidentified vapors or gases ranging from 5 to 50 ppm (vapors not suspected of containing high levels of chemicals toxic to the skin).
- Level C - Total atmospheric concentrations persisting in the breathing zone of unidentified organic vapors ranging from 0 to 5 ppm above background.
- Level D - Total organic vapor readings do not persistently exceed background levels.

9.0 HEAT STRESS MONITORING

Measures should be taken to minimize heat stress to workers. The Site Health and Safety Officer will be cognizant of the signs and symptoms of heat stress and will be responsible for monitoring worker exposure and working conditions. The signs and symptoms of heat stress are as follows:

- Heat rash may result from continuous exposure to heat or humid air.
- Heat cramps are caused by heavy sweating with inadequate electrolyte replacement. Signs and symptoms include:
 - muscle spasms; and
 - pain in the hands, feet and abdomen.
- Heat exhaustion occurs from increased stress on various body organs including inadequate blood circulation due to cardiovascular insufficiency or dehydration. Signs and symptoms include:
 - pale, cool, moist skin;
 - heavy sweating;
 - dizziness;
 - nausea; and
 - fainting.
- Heat stroke is the most serious form of heat stress. Temperature regulation fails and the body temperature rises to critical levels. Immediate action must be taken to cool the body before serious injury and death occur. Competent medical help must be obtained. Signs and symptoms are:
 - red, hot, usually dry skin;
 - lack of or reduced perspiration;
 - nausea;
 - dizziness and confusion;
 - strong, rapid pulse; and
 - coma.

10.0 WORK ZONES AND SITE CONTROL

Work zones around the areas designated for excavation, drilling or sampling will be established and communicated to all employees by the Site Health and Safety Officer. The zones include:

- Exclusion Zone ("Hot Zone") - the area where contamination may be present. All personnel entering the Exclusion Zone must wear the prescribed level of personal protective equipment. The hot-line would be initially defined as an area 25 feet in radius originating at the proposed excavation or sampling point;
- Support Zone - outermost part of the site which is considered non-contaminated or "clean". This area should be located upwind from the Hot Zones with regard to prevailing winds. Support equipment is located in this zone, and personnel may wear normal work clothes within this zone. Any potentially contaminated clothing, equipment and samples must remain in the Contamination Reduction Zone until decontaminated;
- Contamination Reduction Zone - the transition zone between the Exclusion and Support Zones. The zone where decontamination of personnel and equipment takes place.

Once designated, the Exclusion Zone will be conspicuously identified through the use of ropes or colored tape. The decontamination of personnel and equipment will be performed as described before the Support Zone is entered. Access of non-essential personnel to the Exclusion and Contamination Reduction Zones will be strictly controlled. Only personnel who are essential to the completion of the task will be allowed access to these areas and only if they are wearing the prescribed level of protection. Entrance of non-Malcolm Pirnie personnel or subcontractor personnel must be approved by the Site Health and Safety Officer.

A log containing the names of personnel, site entry and exit times and their level of protection will be maintained by the Site Health and Safety Officer.

11.0 DECONTAMINATION PROCEDURES

11.1 Personal Decontamination

The degree of decontamination required is a function of both the particular task and the physical environment within which it takes place. The following decontamination procedure, although somewhat specific to the tasks described herein, will remain flexible, thereby allowing the decontamination crew to respond appropriately to the changing environmental and sampling conditions which may arise at sampling sites.

Upon leaving the exclusion zone for lunch or at the end of the day, personnel will be required to remove all contaminated protective clothing/equipment. Upon completion of field activities, the work crew will proceed towards the Contamination Reduction Zone. Field equipment (i.e., shovels, tools, etc.) will remain in the Exclusion Zone. Boot covers and outer gloves will be washed with a soap and water solution, rinsed with fresh water, and removed within the Contamination Reduction Zone. A bristle brush will be used to remove contamination; a pump sprayer can be utilized for rinsing.

Respirator cartridges and other personal protective equipment can be replaced or removed in the zone following the necessary decontamination.

Following the removal of all personal protective equipment, workers will enter the Support Zone. Personal protective equipment (i.e., suits, inner gloves, respirator cartridges, etc.) will be drummed for disposal. Wash and rinse waters will also be drummed for disposal.

11.2 Decontamination for Medical Emergencies

In the event of a minor, non-life threatening injury, personnel should follow the decontamination procedures as defined, and then administer first-aid.

In the event of a major injury or other serious medical concern, immediate first-aid may be administered in lieu of further decontamination efforts.

11.3 Decontamination of Field Equipment

Decontamination efforts will be conducted in the Contamination Reduction Zone. Soap and water and mechanical cleaning with a brush will be used to

remove all obvious contamination from the tools. The tools will then be rinsed with water.

It is expected that all tools will be constructed of non-porous, non-absorbent materials (i.e., metal) which will aid in the decontamination effort. Any tool or part of a tool which is made of porous, absorbent material (i.e., wood) will be drummed for disposal.

All decontamination wash and rinse waters will be contained and drummed for disposal.

The decontamination of heavy equipment will be undertaken when site activities in a particular work zone have been completed. A high temperature, high pressure spray device will be used to wash the potentially contaminated areas of the equipment. This will continue until there are no visible signs of contamination. All decontamination waters will be collected and drummed for disposal.

12.0 FIRE PREVENTION AND PROTECTION

12.1 Equipment and Requirements

- Fire extinguishers are to be provided by the subcontractor;
- Fire extinguishers are to be inspected, serviced, and maintained in accordance with the manufacturer's instructions. At a minimum, all extinguishers are to be checked monthly and weighed semi-annually, and recharged if necessary; and
- Immediately after each use, fire extinguishers are to be either recharged or replaced.

12.2 Flammable and Combustible Substances

- All storage, handling or use of flammable and combustible substances will be under the supervision of qualified persons.

13.0 EMERGENCY INFORMATION

The closest emergency medical treatment can be obtained at Champlain Valley Physicians Hospital located in Plattsburg, New York. Directions to Champlain Valley Physicians Hospital are as follows:

Left out of site onto Route 11. Go 1/4 mile and take a right to Route 87 South. Go 18 miles to Plattsburg exit #38. Follow blue hospital signs to hospital facility. See Map Figure #1.

13.1 Personnel Exposure

- Skin contact: If appropriate, based on chemical-specific information, use copious amounts of soap and water. Wash/rinse affected area for at least 15 minutes. Decontaminate and provide medical attention. Eyewash stations will be provided on site. If necessary, transport to Champlain Valley Physicians Hospital.
- Inhalation: Move to fresh air and, if necessary, transport to Champlain Valley Physicians Hospital
- Ingestion: Decontaminate and transport to Champlain Valley Physicians Hospital.

13.2 Personal Injury

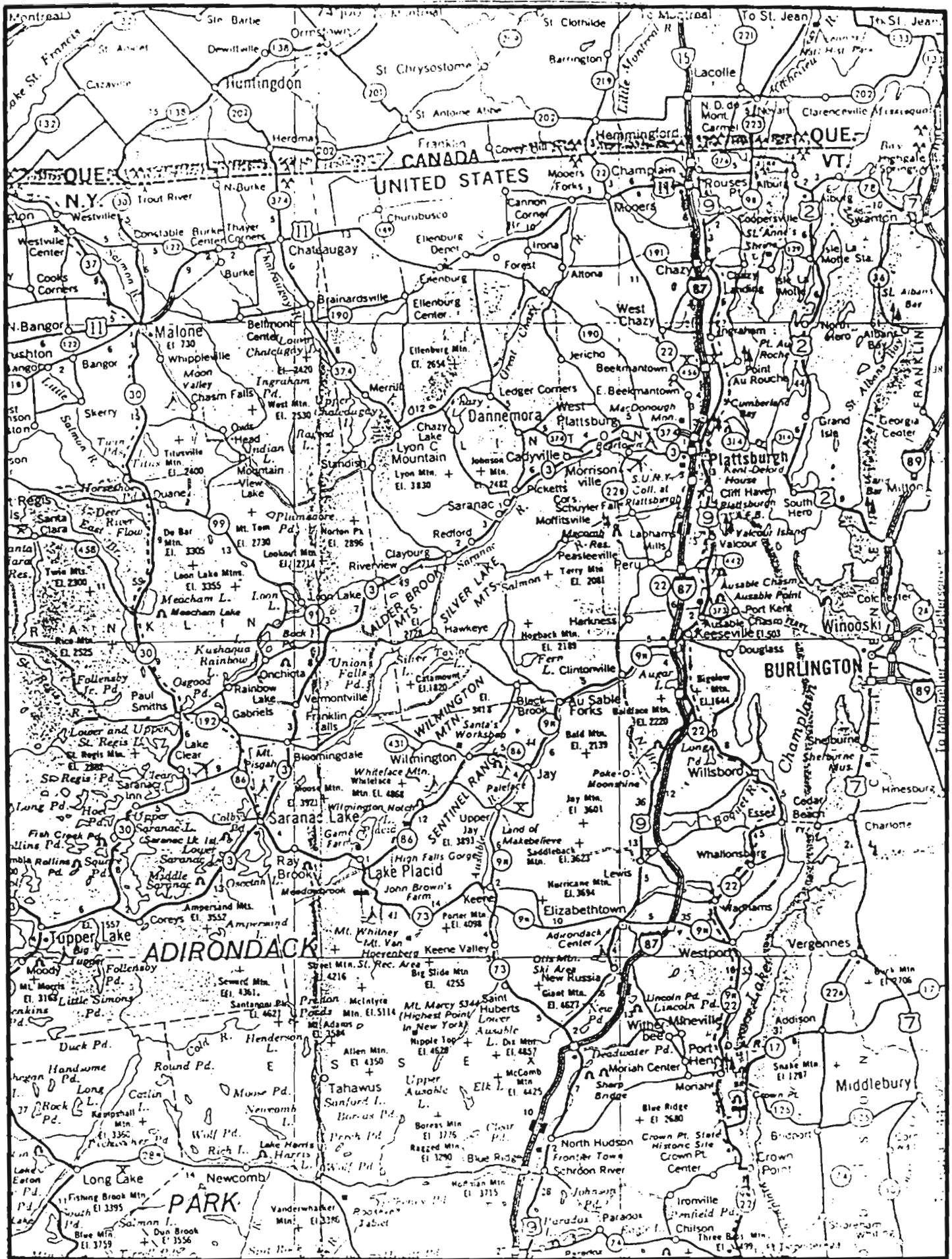
Emergency first aid will be applied on-site as deemed necessary. Several individuals trained in first aid should be on-site during all work activities. Decontaminate and transport the individual to Champlain Valley Physicians Hospital if needed. The Site Health and Safety Officer will supply available chemical-specific information to appropriate medical personnel as requested.

First aid kits will conform to Red Cross and other applicable good health standards, and shall consist of a weatherproof container with individually sealed packages for each type of item. First aid kits will be fully equipped before being sent out on each job and will be checked weekly by the Site Health and Safety Officer to ensure that the expended items are replaced.

13.3 Adverse Weather Conditions

In the event of adverse weather conditions, the Site Health and Safety Officer will determine if work can continue without sacrificing the health and safety of Malcolm Pirnie and subcontractor personnel. Some of the items to be considered prior to determining if work should continue are:

- Operation of field instruments;
- Potential for heat stress;



**MALCOLM
PIRNIE**

EMERGENCY ROUTE TO
CHAMPLAIN VALLEY PHYSIANS HOSPITAL

MALCOLM PIRNIE, INC.

FIGURE I
OCT 1988

- Inclement weather - related working conditions;
- Limited visibility; and
- Potential for electrical or dust storms.

13.4 Emergency Telephone Numbers

Malcolm Pirnie Project Manager:

G. David Knowles (518) 869-7257

Malcolm Pirnie Health and Safety Manager:

Richard J. Califano (914) 694-2100

Malcolm Pirnie Site Health and Safety Office:

Anthony D. Murtaugh (518) 869-7257

Malcolm Pirnie Corporate Medical Consultant:

Dr. Joseph A. Cimino (914) 993-4254

Malcolm Pirnie Regional Medical Consultant:

Riverfront Medical (518) 452-1654

Champlain Valley Physicians
Hospital

(518) 561-2000

Fire

(518) 911

Ambulance

(518) 911

Police

(518) 298-5200

13.5 Records and Reporting

It shall be the responsibility of the Project Manager to establish and ensure adequate records of all:

- Occupational injuries and illnesses;
- Accident investigations;
- Reports to insurance carrier or state compensation agencies;
- Third party injury or damage claims.

A sample Incident Report is presented in Figure 2. Reports of this nature shall be prepared by the Site Health and Safety Officer and submitted to the Project Manager and Health and Safety Manager in the event of any injury or exposure to any on site personnel.

14.0 ACKNOWLEDGEMENTS

1) Site Health and Safety Plan - Reviewed by:

Date

Site Health & Safety Officer
Project Leader
Health & Safety Manager
Project Manager

2) Employee Acknowledgement:

I acknowledge that I have reviewed the information on this Health and Safety Plan and understand the potential hazards which may confront me during field activities while involved at the Pole-Lite Industries, Inc. site.

Employee

Employer

Date

14.0 ACKNOWLEDGEMENTS

- 1) Site Health and Safety Plan - Reviewed by:

	<u>Date</u>
<u>Anthony Muntech</u> Site Health & Safety Officer	<u>10/10/88</u>
<u>Richard J. Gallano</u> Project Leader	<u>10-4-88</u>
<u>David J. Rubeles</u> Health & Safety Manager	<u>10/10/88</u>
	<u>10/10/88</u>

- 2) Employee Acknowledgement:

I acknowledge that I have reviewed the information on this Health and Safety Plan and understand the potential hazards which may confront me during field activities while involved at the Pole-Lite Industries, Inc. site.

<u>Employee</u>	<u>Employer</u>	<u>Date</u>

TABLE 2
RECOMMENDED LEVELS OF PROTECTION *

	<u>Respiratory</u>	<u>Clothing</u>	<u>Gloves</u>	<u>Boots</u>	<u>Other</u>
Split Spoon Soil Sampling	D/C	C/T	N/L	L/S	Safety Glasses and Hardhat
Ground Water Sampling	D/C	C/T	N/L	L/S	Safety Glasses
Decontamination	D	C/T	N/L	L/S	Safety Glasses
Monitoring Well Installation	D/C	C/T	N/L	L/S	Safety Glasses and Hardhat
Soil Sampling in Excavation	C/D	C/T	N/L	L/S	Safety Glasses and Hardhat
Water Level Measurement	D/C	C/T	N/L	L/S	

Level of protection based on air monitoring in the breathing zone.
The level of protection may be upgraded if indicated
by air monitoring.

C = Coveralls
L = Latex
N = Nitrile
S = Safety Boots
T = Tyvek

FIGURE 2

MALCOLM PIRNIE, INC.

INCIDENT REPORT

Project _____ Site Health & Safety Officer _____

Site Location _____ Project Mgr. _____

Incident Summary _____

Date and Time of Incident _____

Exposed Individuals _____

Exposed to _____

Actions Taken:

First Aid Administered

Doctor Examination

Other _____

Submitted by _____

Date _____

APPENDIX B

SOIL BORING LOGS

PROJECT NAME :POLE-LITE
 DATE :6/22/88
 CONTRACTOR :CATCH ENVIRONMENTAL
 DRILL. METHOD:HOLLOW STEM AUGER

BORING NUMBER:MW-1
 PROJECT NO. :1282-01-1
 LOCATION :CHAMPLAIN, N.Y.
 INSPECTOR :A.MURTAUGH
 SAMP. METHOD :SPLIT SPOON

SURFACE ELEV.:

DATUM :GROUND LEVEL

SAMPLE		SOIL DESCRIPTION			STR.	HEAD SPACE	
No.	Value	Depth (ft.)	Density, color, SOIL, admixtures moisture, other, CONTAMINATION			P.I.	READING
1	10	0-2	Poor recovery, lt tan f.snd & slt ang gvl,dry			.1	P.P.M.
2	53	4-6	Frm,lt brn f.snd w/ pbls & gvl slt,ltl cl dry-moist			.2	P.P.M.
3	34	8-10	Frm,lt brn-tan f.snd & slt matrix w/ c.snd,pbls,gvl,dry,p.srt			3.0	P.P.
4	27	12-14	Stf,lt brn-tan,f.snd & slt w/ c.snd sm.pbls,ang gvl,some lg.gvl moist			0.0	P.P
5	14	16-18	Sft-frm,med gry f.snd,slt,cl,some c.snd & pbls,few lg.ang gvl moist-wet			.2	P.P
6	15	18-20	Sft-frm,med gry f.snd,slt & cl lg ang gvl,few pbls,moist-wet			0.0	P.P

PROJECT NAME :POLE-LITE
DATE :6/22/88
CONTRACTOR :CATCH ENVIRONMENTAL
DRILL. METHOD:HOLLOW STEM AUGER

BORING NUMBER:BU-1
PROJECT NO. :1382-01-1
LOCATION :CHAMPLAIN, N.Y.
INSPECTOR :ALBERTAUGH
SAMP. METHOD :SPLIT SPOON

SURFACE ELEV.:

DATUM :GROUND LEVEL

SAMPLE		SOIL DESCRIPTION			STR.	HEAD SPACE	
No.	Value	Depth (ft.)	Density, color, SOIL, admixtures moisture, other, CONTAMINATION			P.I.	READING
1	10	0-2	Frm,rd brn f.snd,slt,pbls & some gvl dry				0. P.P.M.
2	14	4-6	Frm,lt brn f.snd,slt,pbls,dry				.1 P.P.M.
3	6	8-10	Frm,lt-brn-tan f.snd & slt,pbls w/ some lg gvl moist				.4 P.P.M.
4	12	12-14	Same as above, higher clay content				.2 P.P.M.
5	4	16-18	Sft,lt.gry slt,cl & f.snd,pbls gvl,moist-wet, @ 18 stf gry slty cl & pbis				.1 P.P.M.

PROJECT NAME :POLE-LITE
DATE :6/23/88
CONTRACTOR :CATCH ENVIRONMENTAL
DRILL. METHOD:HOLLOW STEM AUGER

BORING NUMBER:MH-3
PROJECT NO. :1282-01-1
LOCATION :CHAMPLAIN, N.Y.
INSPECTOR :A.MURTAUGH
SAMP. METHOD :SPLIT SPOON

SURFACE ELEV.: DATUM :GROUND LEVEL

SAMPLE		SOIL DESCRIPTION		STR.	HEAD SPACE P.I. READING
No.	N- Value	Depth (ft.)	Density, color, SOIL, admixtures moisture, other, CONTAMINATION		
1	11	0-2	Lse,lt.tan f.snd & slt w/c.snd few pbis & gvl dry		.2 P.P.M.
2	20	4-6	Med,lt.brn-rd tan f.snd & slt w/ pbis,few sm pieces gvl,slightly moist		1.5 P.P.M
3	20	8-10	Same as above lt.brn/tan f.snd & slt matrix w/c.snd,pbis,few pieces gvl,moist		1. P.P.M.
4	18	12-14	Same as above,brn-tan,tight,stf w/lg gvl,moist-wet		.5 P.P.M.
5	24	15-17	Frm,med gry f.snd,orc snd,pbis & lg gvl moist		.5 P.P.M.

PROJECT NAME :POLE-LITE
DATE :6/23/88
CONTRACTOR :CATCH ENVIRONMENTAL
DRILL METHOD:HOLLOW STEM AUGER

BORING NUMBER:56-4
PROJECT NO. :1282-01-1
LOCATION :CHAMPLAIN, N.Y.
INSPECTOR :A. MURTAUGH
SAMP. METHOD :SPLIT SPOON

SURFACE ELEV.:

DATUM :GROUND LEVEL

SAMPLE		SOIL DESCRIPTION		STR.	HEAD SPACE P.I. READING
No.	N- Value	Depth (ft.)	Density, color, SOIL, admixtures moisture, other, CONTAMINATION		
1	1	0-2	Sft,tan silt,f.snd & cl,pbls wet from rainfall		7. P.P.M.
2	33	2-4	Med,brn-tan silt,f.snd,pbls,gvl moist		4. P.P.M.
3	30	4-6	Same as above		5.P.P.M.
4	23	6-8	Frm,brn-tan tight silt,f.snd,pbls tr cl,lg gvl-lg boulders moist		1.5 P.P.M
5	28	9-11	Stf-hd,tan-lt.brn silt,f.snd matrix w/pbls,gvl,lg boulders,dry-moist		1. P.P.M.
6	58	11-13	Stf-hd,silt & f.snd matrix w/pbls gvl,moist		2.5 P.P.M
7	125	13-15	Tan & gry broken & powdered rock gvl,dry		40. P.P.M
8	55	15-17	Stf,tight,gry silt & f.snd dry-slighty moist		2. P.P.M.

PROJECT NAME :POLE-LITE
 DATE :6/24/88
 CONTRACTOR :CATCH ENVIRONMENTAL
 DRILL. METHOD:HOLLOW STEM AUGER

BORING NUMBER:PM-70
 PROJECT NO. :1262-01-1
 LOCATION :CHAMPLAIN, N.Y.
 INSPECTOR :A.MURTAUGH
 SAMP. METHOD :SPLIT SPOON

SURFACE ELEV.: DATUM :GROUND LEVEL

SAMPLE		SOIL DESCRIPTION		STR.	HEAD SPACE P.I. READING
N- No.	Depth Value (ft.)	Density, color, SOIL, admixtures moisture, other, CONTAMINATION			
1	1	0-2	Poor recovery, 0-1' silt & sand, @ 1.2' frm, dns gry clay, rd silt & sand seam @ 2', dry, lg gvl inhibits sampling		
2	6	2-4	Stf brn-gry clay, ltl silt, few pbls dry		150. P.P.
3	5	4-6	No recovery		
4	18	6-8	Frm, brn & tan tight silt, f. sand ltl gry f. sand & silt moist		150. P.P.
5		8-10	No recovery		
6		10-12	Frm, gry f. sand & silt, ltl cl moist		150. P.P.
7		12-14	Poor recovery, gry sand, silt, ltl cl		
8		14-16	Frm, gry silt, f. sand, lg ang gvl moist		60. P.P.M

PROJECT NAME :FOLE-LITE
DATE :12/13/88
CONTRACTOR :DATOR
DRILL METHOD:HOLLOW STEM AUGER

SORING NUMBER:44-3
PROJECT NO. :1052-03-3
LOCATION :UPHAMPLAIN,N.Y.
INSPECTOR :ALBERTAUGH
SAMP. METHOD :SPLIT SPOON

SURFACE ELEV.:100.07

DATUM :GROUND LEVEL

SAMPLE		SOIL DESCRIPTION			HEAD SPACE
No.	Value (ft.)	Depth	Density, color, SOIL, admixtures moisture, other, CONTAMINATION	SYR.	P.I. READINGS
		1-3'	ld,brn,sn,slt,gvl,cobbles,dry very hard augering		
1	7	4.5- 6	Stf-hd,tan-brn,slt,cl,some f.snd lg gvl-cobbles,dry		175-200 PPHE
2	20	9.5- 11	Stf-hd,tan,slt,ltl f.snd,ltl cl, lg gvl-cobbles,moist		5-10 PPHE
3	62	13- 14.5	No recovery		

11.7 EV log
utilized

PROJECT NAME :FOLE-LITE	BORING NUMBER:MW-7
DATE :12/14/89	PROJECT NO. :1282-03-3
CONTRACTOR :CATCH	LOCATION :CHAMPLAIN,N.Y.
DRILL. METHOD:HOLLOW STEM AUGER	INSPECTOR :A.MURTAUGH
	SAMP. METHOD :SPLIT SPOON
SURFACE ELEV.:99.76	DATUM :GROUND LEVEL

=====

SAMPLE		SOIL DESCRIPTION		STR.	HEAD SPACE P.I. READINGS
N- No.	Depth Value (ft.)	Density, color, SOIL, admixtures moisture, other, CONTAMINATION			
	1-3	Hd,gvl-cobbles w/ slit and f.snd			
1	75	4.5- Hd,brn,slt,f.snd,lg gvl-cobbles 6		3-4 PPME	
2	14	9.5- Frm,brn-dk brn,slt,f.-c.snd,pbls 10 gvl,moist		1-2 PPME	
3		14- Frm,lt gry brn,slt,ltl cl,ltl snd 15.5 gvl,plastic,moist-wet,poor recovery		3 PPME	
					11.7 EV Hnd utilized

PROJECT NAME :POLE-LITE
 DATE :12/14/69
 CONTRACTOR :CATCH
 DRILL METHOD:HOLLOW STEM AUGER

BORING NUMBER :2-1
 PROJECT NO. :SITE 03-3
 LOCATION :CHAMPLAIN,N.Y.
 INSPECTOR :A. W. TROUGH
 SAMP. METHOD :2.5" SPOON

SURFACE ELEV.:97.70 DATUM :SEA LEVEL

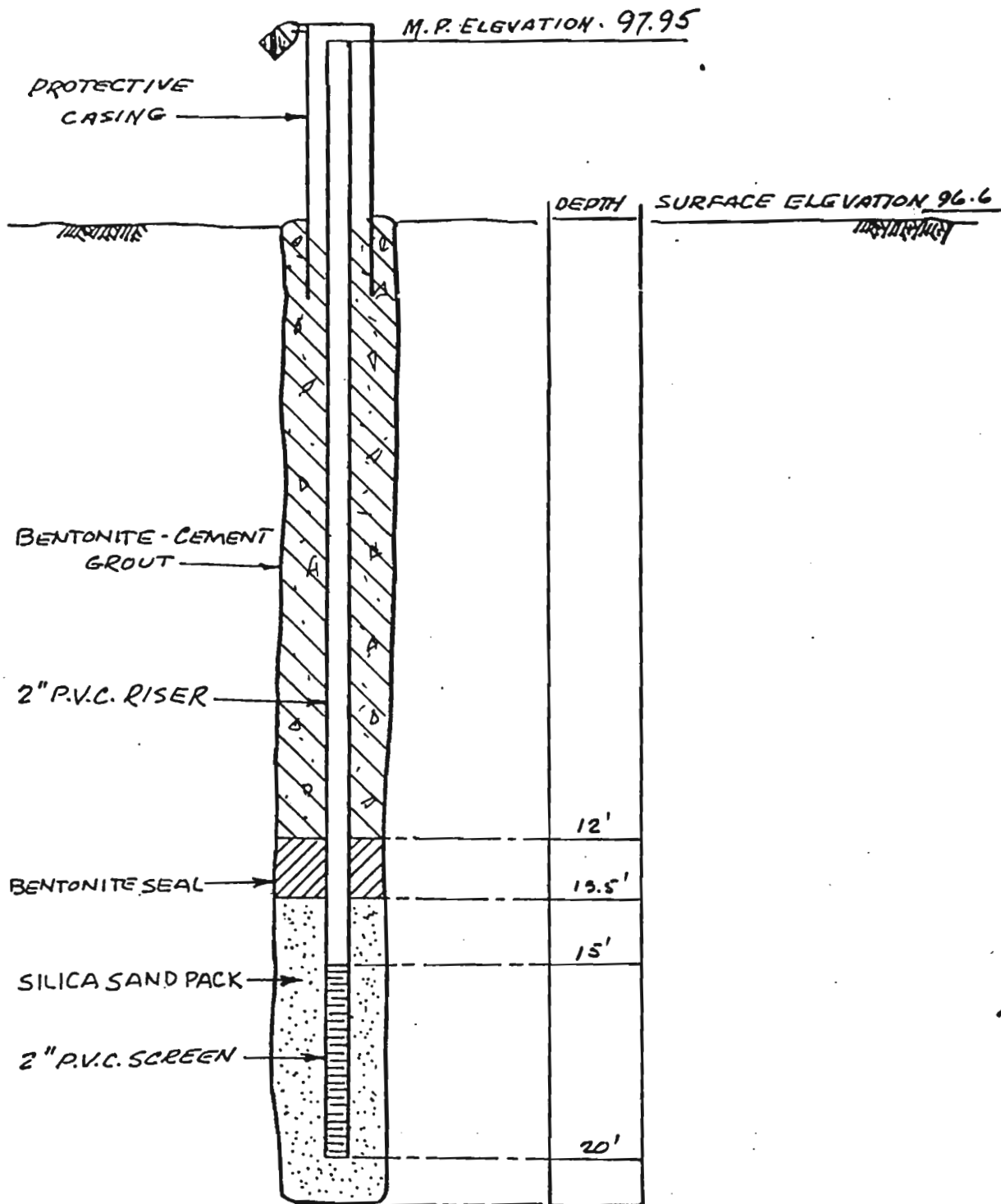
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SAMPLE		SOIL DESCRIPTION		STR.	HEAD SPACE P.I. READINGS
No.	Depth value (ft.)	Density, color, SDIL, admixtures moisture, other, CONTAMINATION			
		1-3 Frn,gry,silt,cl,moist			
1	7	7- Frn,med gry,silt,vf.snd,lg gvl 8.5 moist			3-10 FPME
2	25	12- Same,med gry,silt,vf.snd,lg gvl 13.5 moist			1-3 FPME
3	16	17- Same,wet 18.5			1-3 FPME
4	8	22- Same,frm,med gry,silt,f.snd,gvl- 23.5 boulders,wet			1-3 FPME

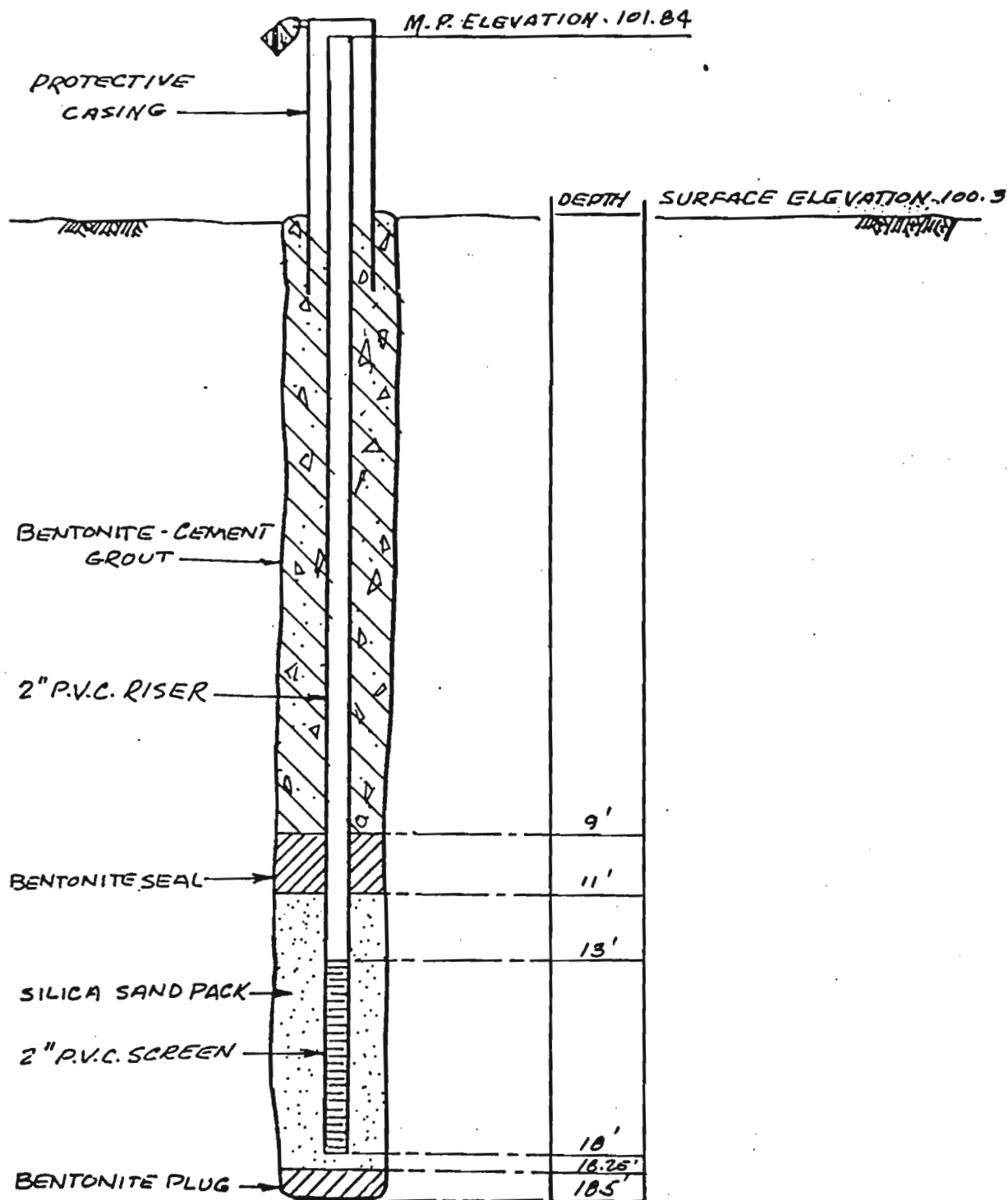
11.7 EV Hnu
 utilized

APPENDIX C

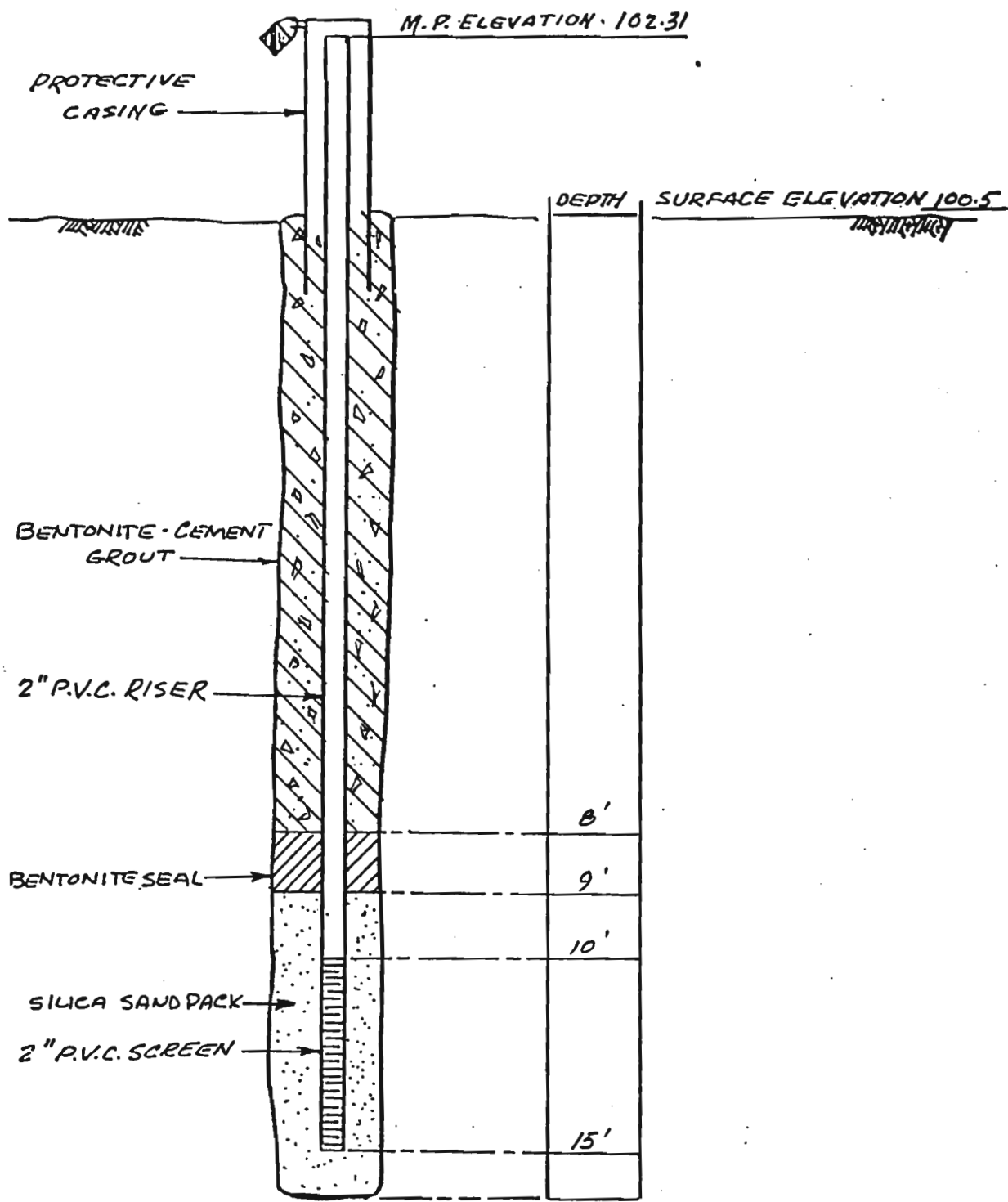
MONITORING WELL DETAILS



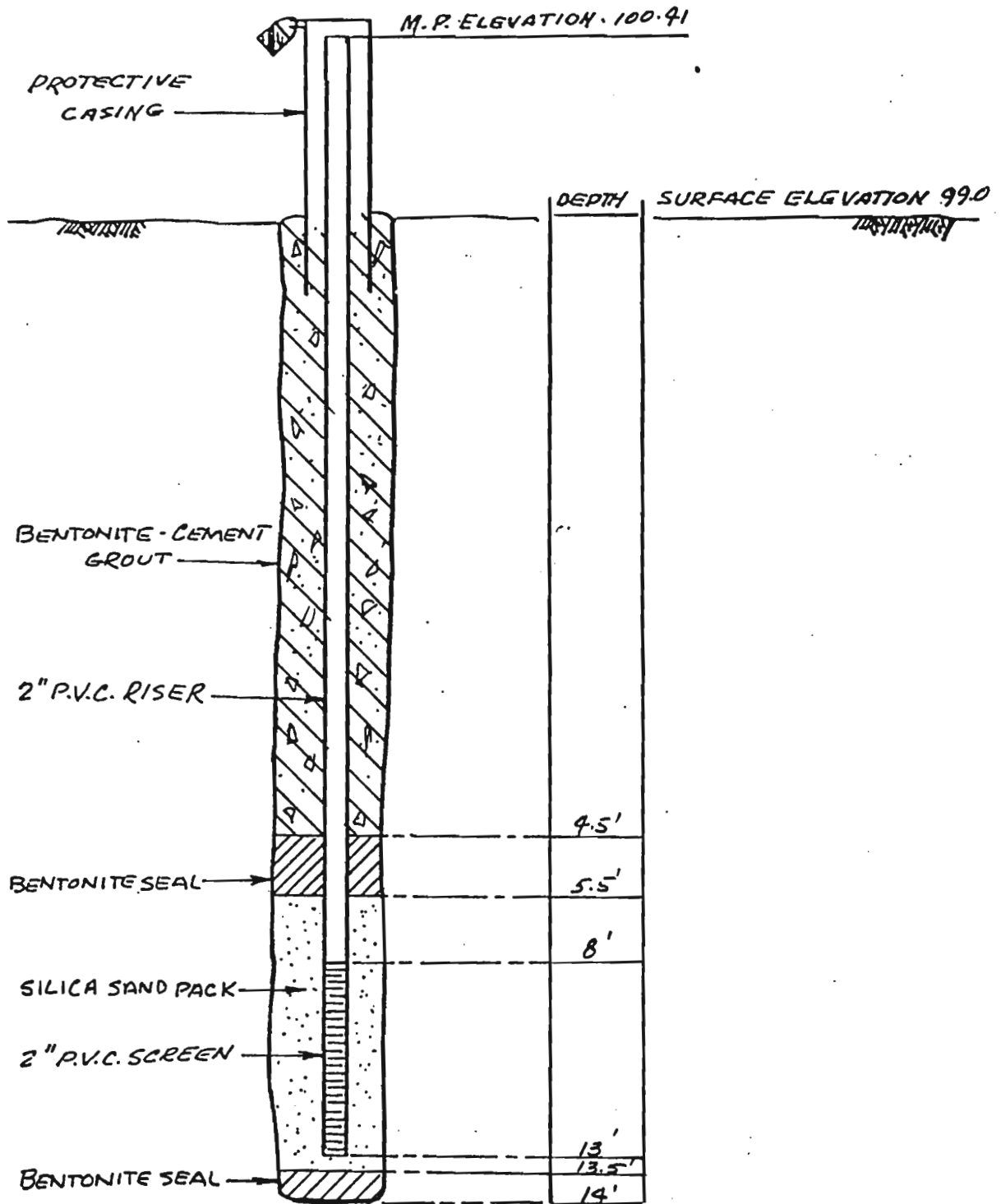
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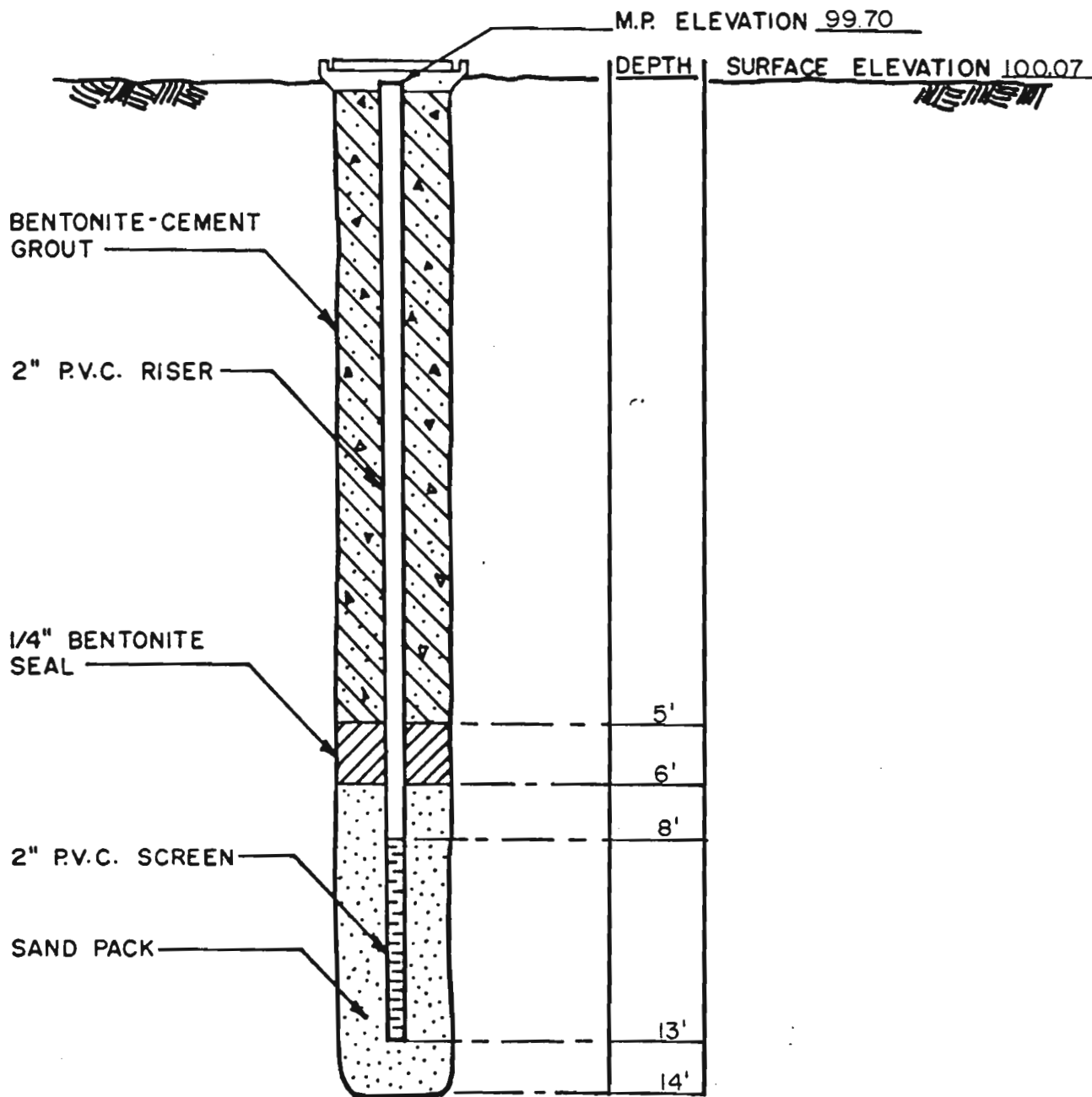
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MONITORING WELL NO. 3



MONITORING WELL NO. 5



MONITORING WELL NO. 6

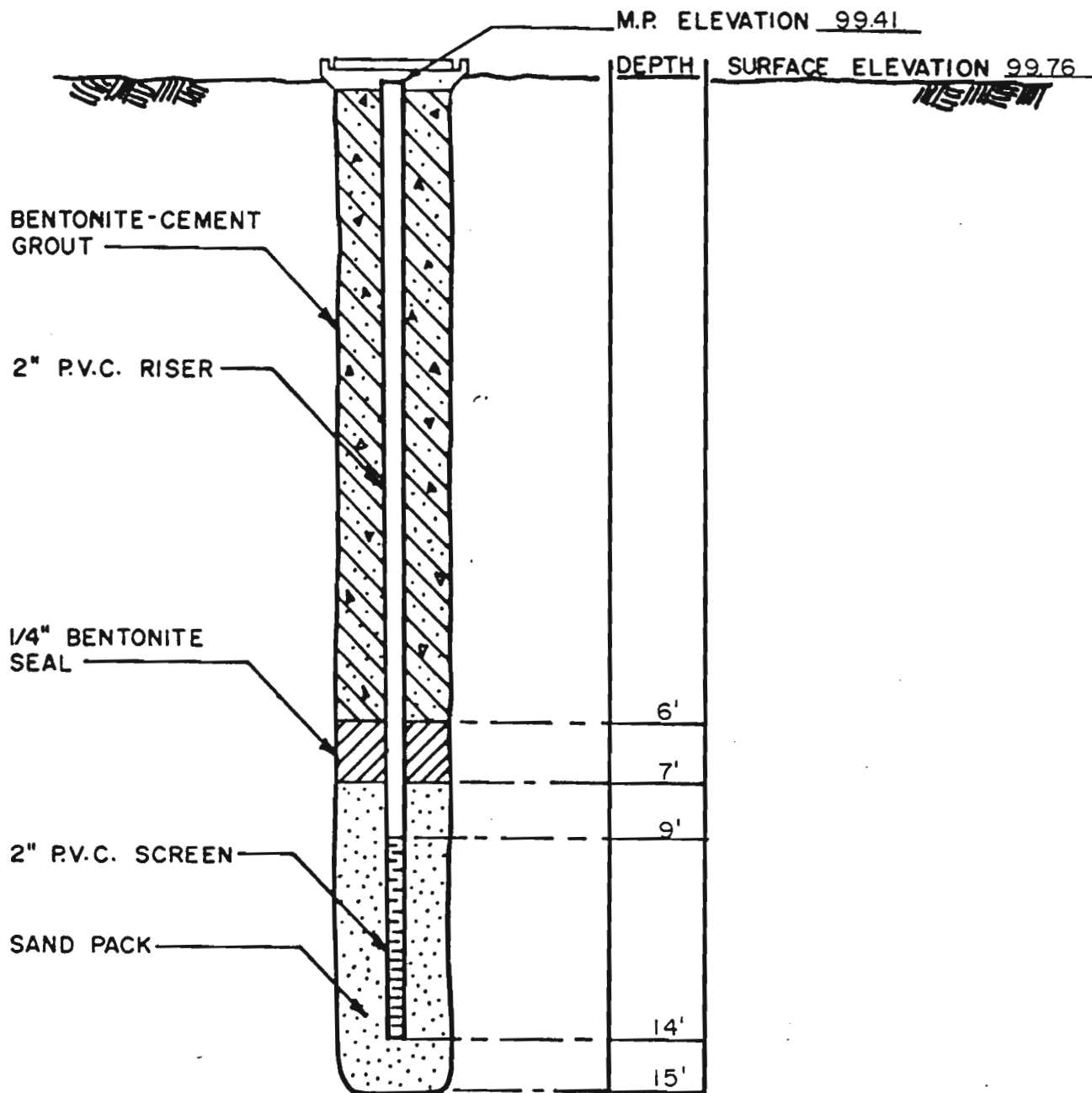
**MALCOLM
PIRNIE**

MONITORING WELL DETAIL

POLE-LITE INDUSTRIES, INC.

MALCOLM PIRNIE, INC.

12/13/88



MONITORING WELL NO. 7

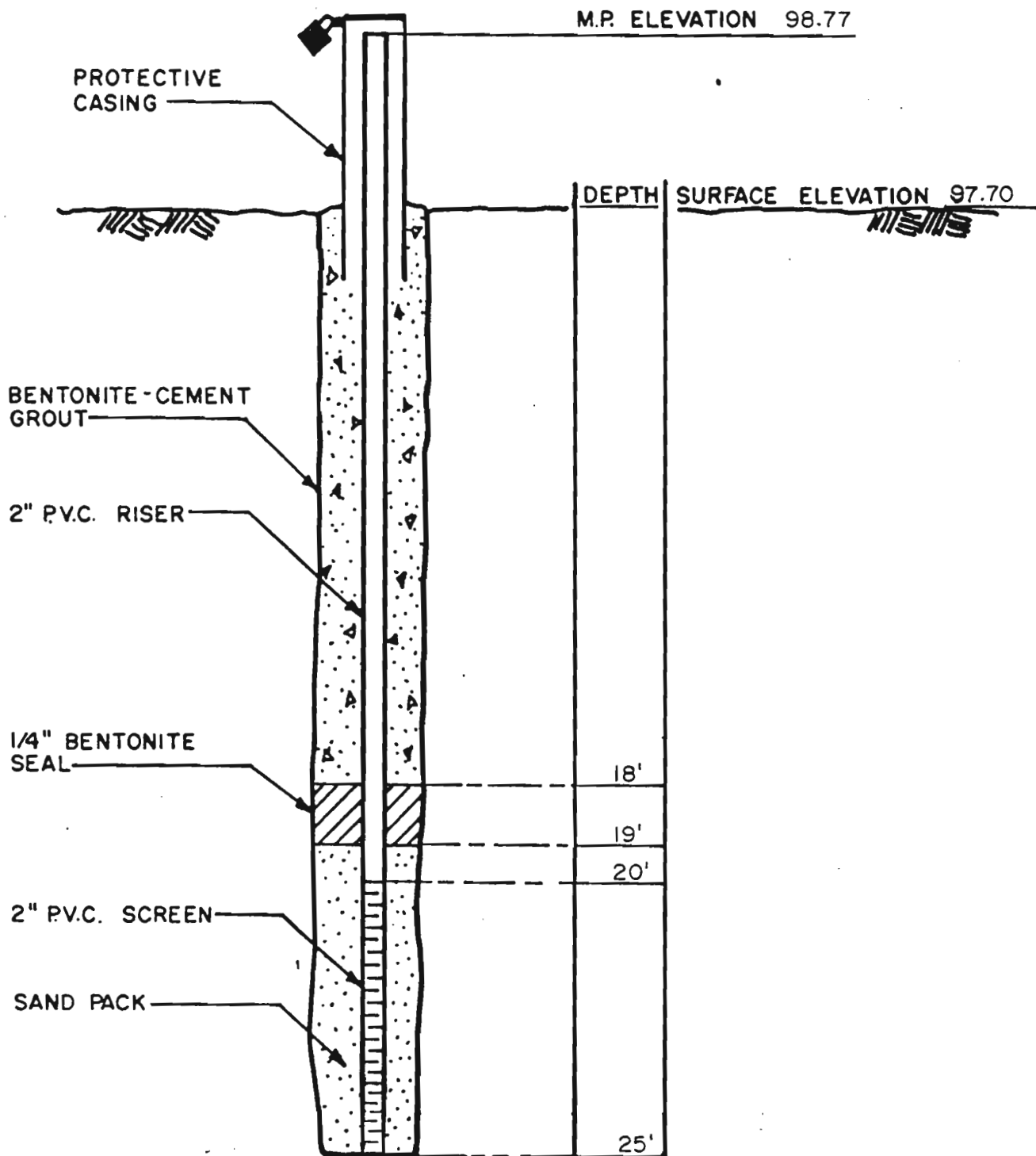
**MALCOLM
PIRNIE**

MONITORING WELL DETAIL

POLE-LITE INDUSTRIES, INC.

MALCOLM PIRNIE, INC.

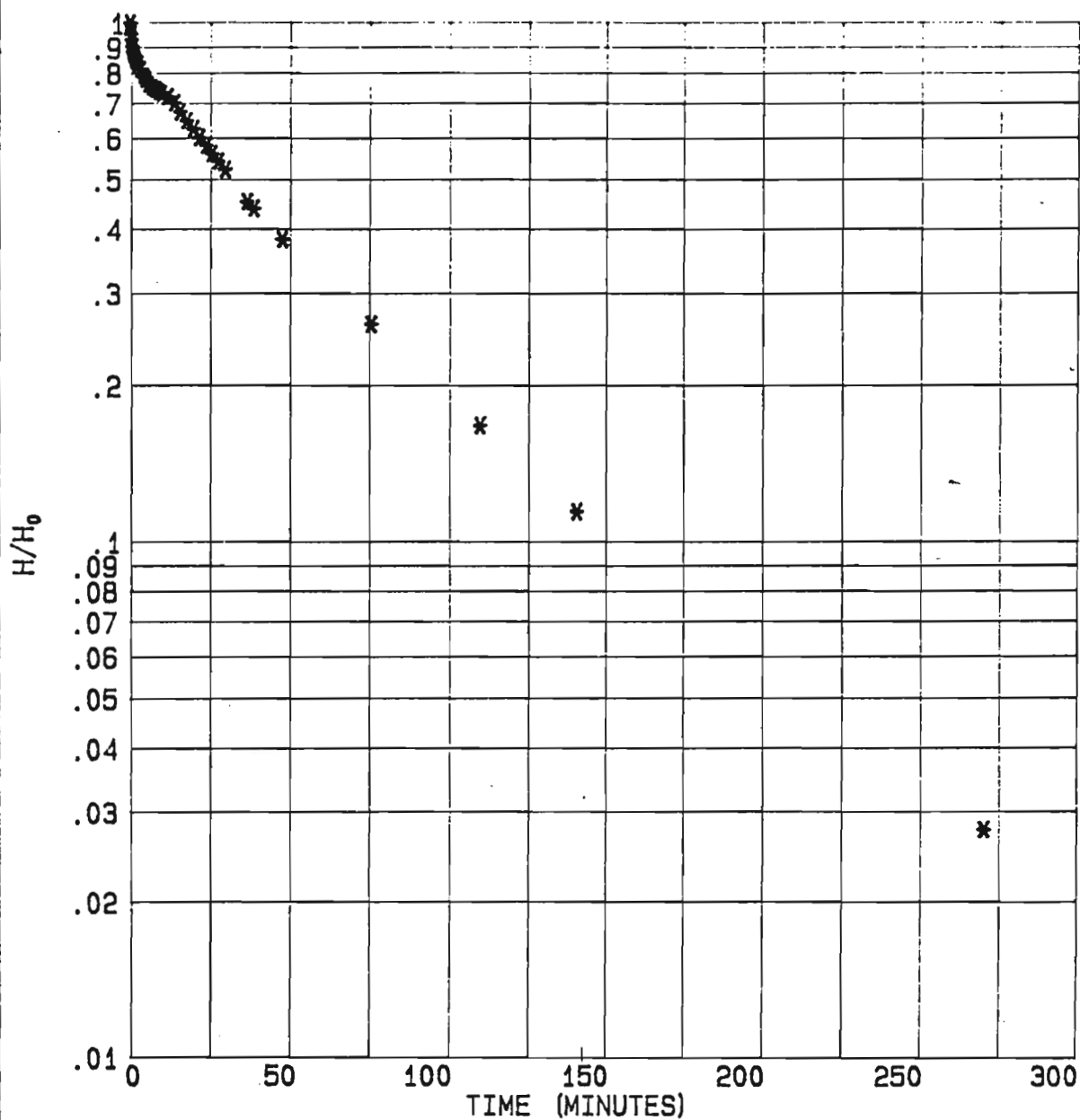
12/14/88



MONITORING WELL NO. 8

APPENDIX D

PERMEABILITY RESULTS



SYMBOL	WELL	SWL (FT)
*	MW-1	6.59
O		
X		
+		
A		

PROJECT: POLE-LITE
 FILE: 1
 LOCATION: CHAMPLAIN

SLUG TEST ANALYSIS
 TIME LAG GRAPH

MALCOLM PIRNIE

FIGURE: 1

SLUG TEST

PROJECT: POLE-LITE
LOCATION: CHAMPLAIN

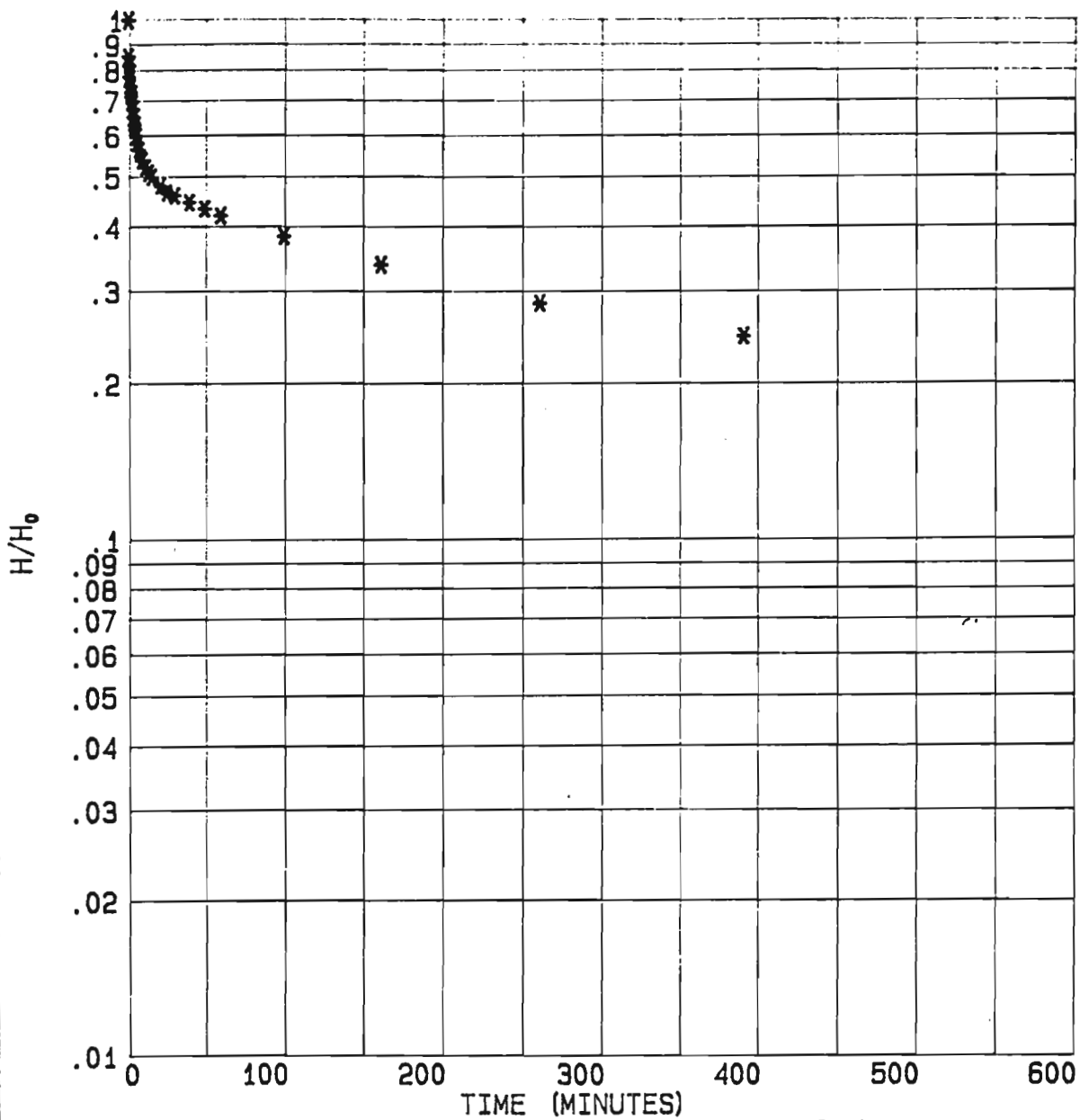
FILE NO.: 1

WELL NO.: MW-1

STATIC WATER LEVEL (FT): 6.59

ELAPSED TIME	WATER LEVEL	RECOVERY	HEAD RATIO	
(min)	(ft)	(ft)	H/H0	
0.00	21.350	-14.760	1.0000	
0.25	20.670	-14.080	0.9539	2.1×10^{-4}
0.50	20.310	-13.720	0.9295	
0.75	19.940	-13.350	0.9045	
1.00	19.640	-13.050	0.8841	
1.25	19.410	-12.820	0.8686	
1.50	19.270	-12.680	0.8591	4.9×10^{-5}
1.75	19.170	-12.580	0.8523	
2.50	18.970	-12.380	0.8388	
3.50	18.650	-12.060	0.8171	
4.50	18.300	-11.710	0.7934	3.5×10^{-5}
5.00	18.120	-11.530	0.7812	
6.00	17.860	-11.270	0.7636	
7.00	17.740	-11.150	0.7554	
8.00	17.630	-11.040	0.7480	
9.00	17.530	-10.940	0.7412	1.0×10^{-5}
10.00	17.440	-10.850	0.7351	
12.00	17.250	-10.650	0.7222	
14.00	16.980	-10.390	0.7039	
16.00	16.570	-9.980	0.6762	2.2×10^{-5}
18.00	16.180	-9.590	0.6497	
20.00	15.820	-9.230	0.6253	
22.00	15.480	-8.890	0.6023	
24.00	15.170	-8.580	0.5813	
26.00	14.870	-8.280	0.5610	
28.00	14.590	-8.000	0.5420	2.0×10^{-5}
30.00	14.310	-7.720	0.5230	
37.00	13.270	-6.680	0.4526	
39.00	13.060	-6.470	0.4383	
48.00	12.230	-5.640	0.3821	
76.00	10.470	-3.380	0.2629	
110.00	9.070	-2.480	0.1880	
141.00	8.280	-1.690	0.1145	1.5×10^{-5}
271.00	7.000	-0.410	0.0278	

MALCOLM PIRNIE



SYMBOL	WELL	SNL (FT)
*	MW-3	13.75
O		
X		
+		
A		

PROJECT: POLE-LITE
 FILE: 1
 LOCATION: N

SLUG TEST ANALYSIS
 TIME LAG GRAPH

MALCOLM PIRNIE

FIGURE: 2

SLUG TEST

PROJECT: POLE-LITE
LOCATION: N

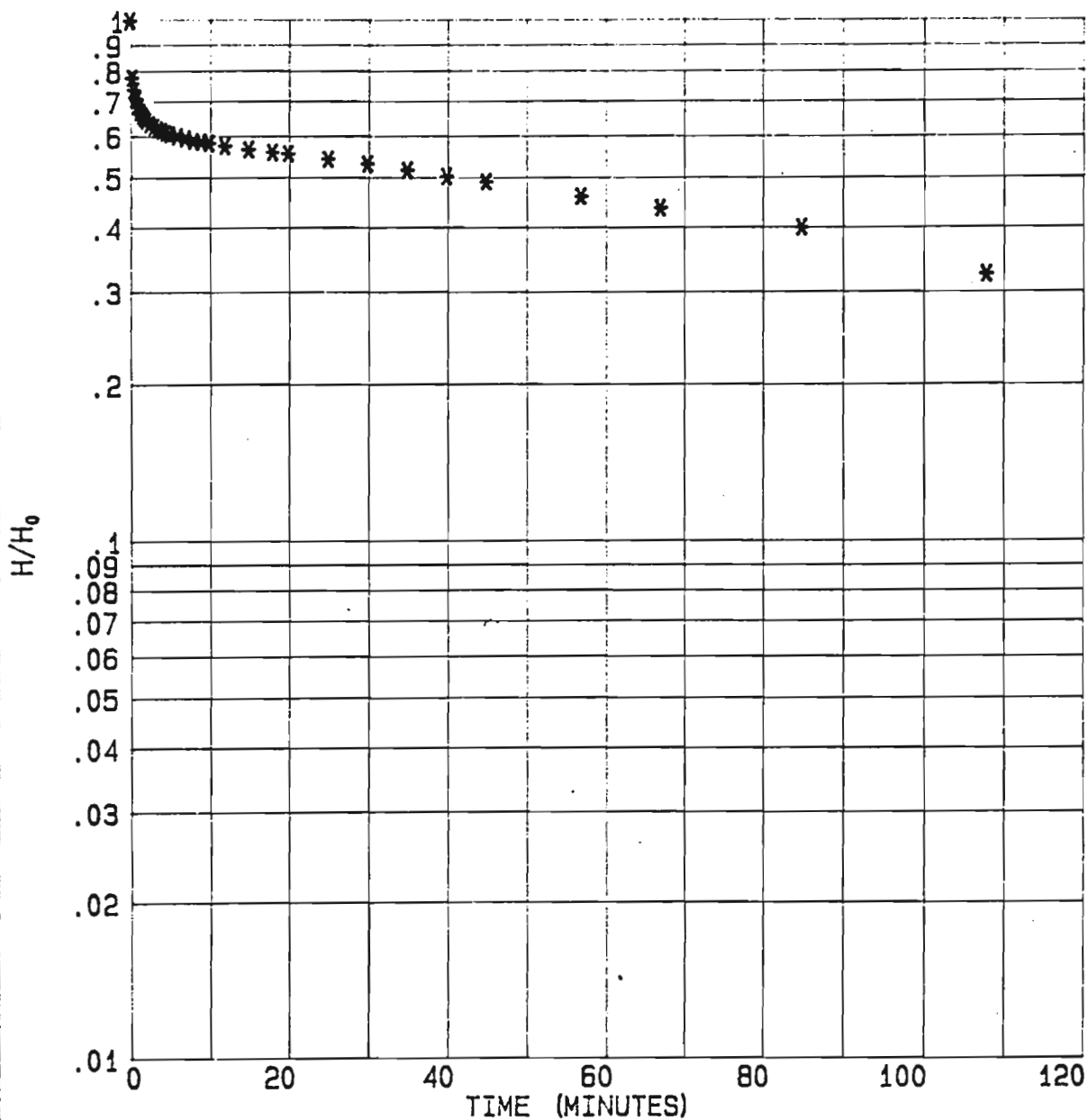
FILE NO.: 1

WELL NO.: MW-3

STATIC WATER LEVEL (FT): 13.75

ELAPSED TIME	WATER LEVEL	RECOVERY	HEAD RATIO
(min)	(ft)	(ft)	H/H0
0.00	16.800	-3.050	1.0000
0.25	16.350	-2.600	0.8525
0.50	16.250	-2.500	0.8197
0.75	16.130	-2.380	0.7803
1.25	16.030	-2.280	0.7475
1.75	15.970	-2.220	0.7279
2.00	15.930	-2.180	0.7148
2.50	15.880	-2.130	0.6984
3.00	15.810	-2.060	0.6754
3.50	15.740	-1.990	0.6525
4.00	15.670	-1.920	0.6295
4.50	15.630	-1.880	0.6164
5.00	15.580	-1.830	0.6000
6.00	15.520	-1.770	0.5803
7.00	15.470	-1.720	0.5639
9.00	15.390	-1.640	0.5377
11.00	15.340	-1.590	0.5213
13.00	15.300	-1.550	0.5082
15.00	15.270	-1.520	0.4984
21.00	15.210	-1.460	0.4787
25.00	15.170	-1.420	0.4656
30.00	15.150	-1.400	0.4590
40.00	15.110	-1.360	0.4459
50.00	15.070	-1.320	0.4328
60.00	15.030	-1.280	0.4197
100.00	14.920	-1.170	0.3836
162.00	14.780	-1.030	0.3377
262.00	14.620	-0.870	0.2852
392.00	14.500	-0.750	0.2459

MALCOLM FIRNIE



SYMBOL	WELL	SWL (FT)
*	MW-5	6.44
O		
X		
+		
A		

PROJECT: POLE-LITE
 FILE: 1
 LOCATION: CHAMPLAIN

SLUG TEST ANALYSIS
 TIME LAG GRAPH

MALCOLM PIRNIE

FIGURE: 3

SLUG TEST

PROJECT: POLE-LITE
LOCATION: CHAMPLAIN

FILE NO.: 1

WELL NO.: MW-5

STATIC WATER LEVEL (FT): 6.44

ELAPSED TIME	WATER LEVEL	RECOVERY	HEAD RATIO
(min)	(ft)	(ft)	H/H0
0.00	14.400	-7.960	1.0000
0.25	12.660	-6.220	0.7814
0.50	12.330	-5.890	0.7399
0.75	12.090	-5.650	0.7098
1.00	11.900	-5.460	0.6859
1.25	11.770	-5.330	0.6696
1.50	11.690	-5.250	0.6595
1.75	11.620	-5.180	0.6508
2.00	11.560	-5.120	0.6432
2.50	11.480	-5.040	0.6332
3.00	11.420	-4.980	0.6256
3.50	11.370	-4.930	0.6193
4.00	11.330	-4.890	0.6143
4.50	11.290	-4.850	0.6093
5.00	11.260	-4.820	0.6055
6.00	11.210	-4.770	0.5992
7.00	11.170	-4.730	0.5942
8.00	11.120	-4.680	0.5879
9.00	11.100	-4.660	0.5854
10.00	11.070	-4.630	0.5817
12.00	11.020	-4.580	0.5754
15.00	10.940	-4.500	0.5653
18.00	10.890	-4.450	0.5590
20.00	10.860	-4.420	0.5553
25.00	10.760	-4.320	0.5427
30.00	10.660	-4.220	0.5302
35.00	10.550	-4.110	0.5163
40.00	10.440	-4.000	0.5025
45.00	10.340	-3.900	0.4897
57.00	10.100	-3.660	0.4598
67.00	9.910	-3.470	0.4359
85.00	9.620	-3.180	0.3995
108.00	9.020	-2.580	0.3241

MALCOLM FIRNIE

APPENDIX E

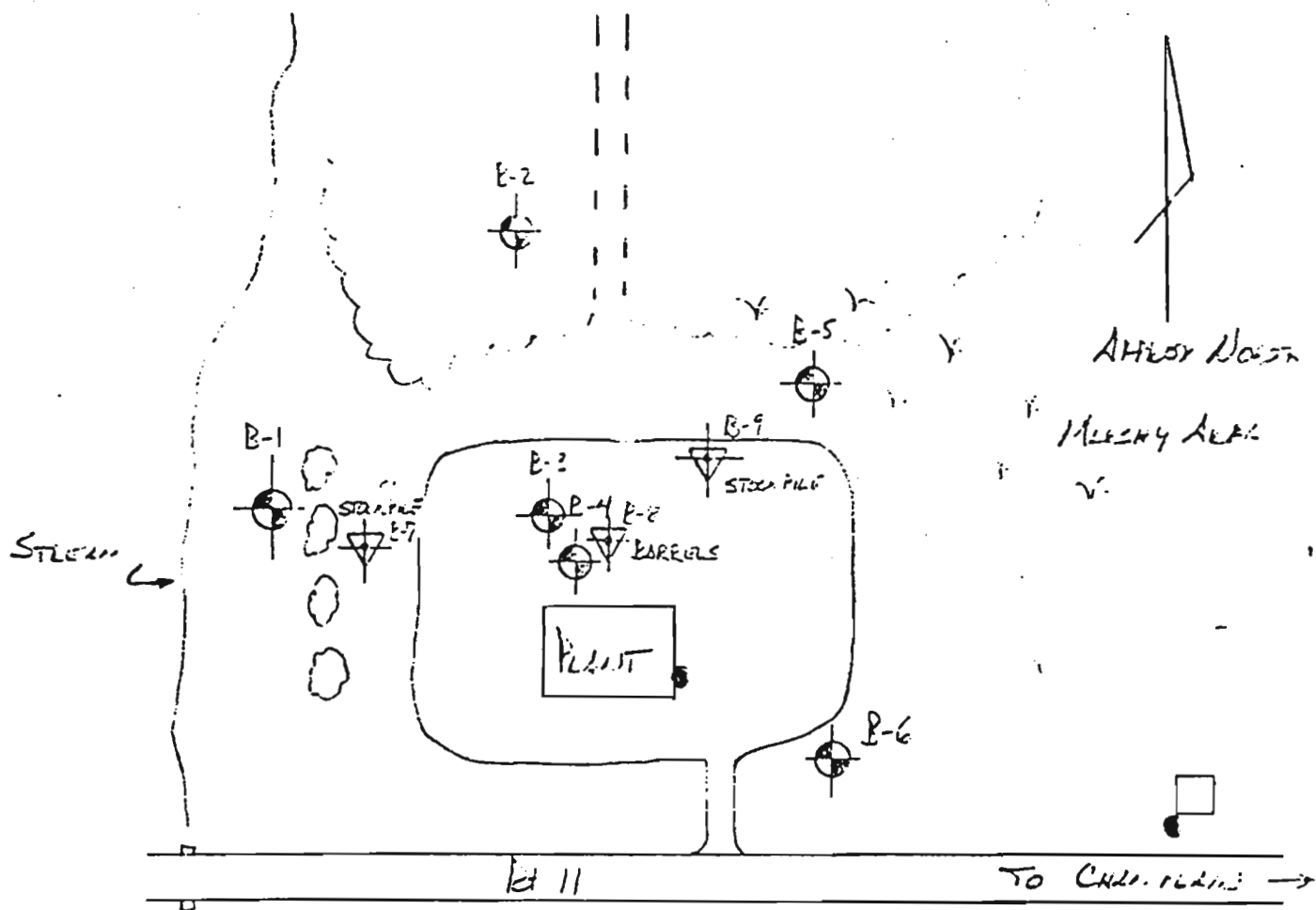
SOIL ANALYTICAL RESULTS

ATLANTIC TESTING LABORATORIES, Limited

DATE

SHEET 1 OF 1

JOB NO.	SUBJECT	BY	CHK'D	APPROV'D
CU-118-21	Long Line Industries, Inc. Hatchery Ponds / Ocean View Farm	T.M.	STL	C.T.



Water Use Information
As shown

▽ Steel Pile

⊗ Soil Boring Location
(Ocean View Farm)

+ Soil Sampling (6 ft interval)

ATTACHMENT NO. 3

INITIAL LABORATORY TEST RESULTS

SAMPLING

On July 22, 1985, representatives of New England Marine Contractors, Inc. collected three samples from the site and submitted the samples to Aquatec, Inc. for analysis. The samples are identified as follows:

SAMPLE NO. 1: A water sample collected from the water tap at the Pole-Lite manufacturing facility. This water is supplied from a drilled well located adjacent to the plant and is supplied by the bedrock aquifer (sandstone). 1-2

SAMPLE NO. 2: A water sample collected from the water tap at the private residence due east of the Plant. This water sample is also supplied by the bedrock aquifer.

SAMPLE NO. 3: A composite soil and sawdust sample collected from the two sawdust piles and the surface soils in the vicinity of the drum storage area.

CONCLUSION

Based upon the attached test results, it appears that low level contamination of either the sawdust piles, or the surface soils in the vicinity of the drum storage area has occurred.

The two samples withdrawn from the bedrock aquifer indicate that no contamination of the bedrock aquifer has occurred to date.

ACTION

To further define whether the sawdust pile or surface soils in the vicinity of the drum storage areas was the source of contamination found in Sample No. 3, a secondary sampling program was conducted in March of 1986 (see Attachment No. 4).

NEW ENGLAND
MARINE CONTRACTORS, INC.
13 Dorset Lane
Williston, Vermont 05495
802-879-8800

NEMC

September 30, 1985

Mr. Art Stemp
New York State
Department of Environmental Conservation
Ray Brook, New York 12977

Dear Art:

Enclosed please find the analytical report for samples taken at Pole-Lite Industries on July 22, 1985. These samples were taken at two neighboring water systems, and at the soil dumping and sawdust storage areas as a composite.

Please review the results and, at your earliest convenience, give me or Bob Witkiewicz a call about where to proceed from here. With the winter months fast approaching, I'm sure we all would like to wrap up this project quickly.

If you have any questions, please call. Otherwise, I look forward to hearing from you in the near future.

Sincerely,

Kenneth N. Morton
Sales Manager

Enclosures
cc: Bob Witkiewicz, Pole-Lite Industries

KNM:es



aquatec

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL 802/658-1074

ANALYTICAL REPORT

New England Marine Contractors Inc.
13 Dorset Lane
Williston, VT 05495

Date: 8/20/85
Project No: 85904
ETR No: 5534
Sample(s) Received On: 7/22/85
Page 1 of 1

All analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020,
Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Parameter	49941							
PCB's (mg/Kg)	<5							

Lab No.

Sample Description

49941. Composite soil & sawdust sample on 7/22/85, No. 3.

Submitted By:

R. Merson Merson

Aquatec Inc.



ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL 802-658-1074

ANALYTICAL REPORT

Aquatec Lab No.: 49939

ETR No.: 5534

Sample Received On: 22 July 1985

Sample Identification: New England Marine Contractors, Inc., tap water sample
#1 on 7/22/85

Volatile Organic Compounds in ug/l

acrolein	100 U	methylene chloride	NDB
acrylonitrile	100 U	chloromethane	10 U
benzene	5 U	bromomethane	10 U
carbon tetrachloride	5 U	bromoform	5 U
chlorobenzene	5 U	bromodichloromethane	5 U
1,2-dichloroethane	5 U	dibromochloromethane	5 U
1,1,1-trichloroethane	5 U	tetrachloroethene	5 U
1,1-dichloroethane	5 U	toluene	5 U
1,1,2-trichloroethane	5 U	trichloroethene	5 U
1,1,2,2-tetrachloroethane	5 U	vinyl chloride	10 U
chloroethane	10 U	acetone	NDB
2-chloroethyl vinyl ether	10 U	2-butanone	10 U
chloroform	5 U	carbon disulfide	5 U
1,1-dichloroethene	5 U	2-hexanone	10 U
trans-1,2-dichloroethene	5 U	4-methyl-2-pentanone	10 U
1,2-dichloropropane	5 U	styrene	5 U
trans-1,3-dichloropropene	5 U	vinyl acetate	10 U
cis-1,3-dichloropropene	5 U	total xylenes	5 U
ethylbenzene	5 U		

No volatile organic compounds not on the Hazardous Substances List (compounds listed above) were found in reportable concentrations.

Key to the letters used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the detection limit for the compound.	K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound.
NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.	C - The result has been corrected for the presence of the compound in the blank.



ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658-1074

ANALYTICAL REPORT

Aquatec Lab No.: 49940

ETR No.: 5534

Sample Received On: 22 July 1985

Sample Identification: New England Marine Contractors, Inc., tap water sample
#2 on 7/22/85

Volatile Organic Compounds in ug/l

acrolein	100 U	methylene chloride	NDB
acrylonitrile	100 U	chloromethane	10 U
benzene	5 U	bromomethane	10 U
carbon tetrachloride	5 U	bromoform	5 U
chlorobenzene	5 U	bromodichloromethane	5 U
1,2-dichloroethane	5 U	dibromochloromethane	5 U
1,1,1-trichloroethane	5 U	tetrachloroethene	5 U
1,1-dichloroethane	5 U	toluene	5 U
1,1,2-trichloroethane	5 U	trichloroethene	5 U
1,1,2,2-tetrachloroethane	5 U	vinyl chloride	10 U
chloroethane	10 U	acetone	NDB
2-chloroethyl vinyl ether	10 U	2-butanone	10 U
chloroform	5 U	carbon disulfide	5 U
1,1-dichloroethene	5 U	2-hexanone	10 U
trans-1,2-dichloroethene	5 U	4-methyl-2-pentanone	10 U
1,2-dichloropropane	5 U	styrene	5 U
trans-1,3-dichloropropene	5 U	vinyl acetate	10 U
cis-1,3-dichloropropene	5 U	total xylenes	5 U
ethylbenzene	5 U		

No volatile organic compounds not on the Hazardous Substances List (compounds listed above) were found in reportable concentrations.

Key to the letters used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the detection limit for the compound.	K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound.
NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.	C - The result has been corrected for the presence of the compound in the blank.



ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658 1074

ANALYTICAL REPORT

Aquatec Lab No.: 49941

ETR No.: 5534

Sample Received On: 22 July 1985

Sample Identification: New England Marine Contractors, Inc., composite soil
and sawdust sample #3 on 7/22/85

Volatile Organic Compounds in ug/kg wet

acrolein	10000	U
acrylonitrile	10000	U
benzene	500	U
carbon tetrachloride	500	U
chlorobenzene	500	U
1,2-dichloroethane	500	U
1,1,1-trichloroethane	93,000	
1,1-dichloroethane	930	
1,1,2-trichloroethane	500	U
1,1,2,2-tetrachloroethane	500	U
chloroethane	1000	U
2-chloroethyl vinyl ether	1000	U
chloroform	500	U
1,1-dichloroethene	1000	
trans-1,2-dichloroethene	500	U
1,2-dichloropropane	500	U
trans-1,3-dichloropropene	500	U
cis-1,3-dichloropropene	500	U
ethylbenzene	500K	
methylcyclohexane	2,000*	
octahydopentalene	2,200*	

methylene chloride	NDB	
chloromethane	1000	U
bramomethane	1000	U
bramofom	500	U
bramodichloromethane	500	U
dibramochloromethane	500	U
tetrachloroethene	500K	
toluene	500	U
trichloroethene	500	U
vinyl chloride	1000	U
acetone	NDB	
2-butanone	NDB	
carbon disulfide	500	U
2-hexanone	1000	U
4-methyl-2-pentanone	1000	U
styrene	500	U
vinyl acetate	1000	U
total xylenes	9,500C	
a C ₃ cyclohexane	8,800*	
a C ₃ benzene	11,000*	
a nonane	17,000*	

* Estimated concentration, calculated from ratio of Enhanced Reconstructed Ion Chromatogram for compound to ERIC of nearest internal standard, assuming a response factor of 1.

Key to the letters used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the detection limit for the compound.	K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound.
NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.	C - The result has been corrected for the presence of the compound in the blank.

ATTACHMENT NO. 4

SECONDARY SOIL AND SAWDUST SAMPLING RESULTS

SAMPLING

On March 24, 1986, our Mr. Thomas A. Custeau, a Certified Engineering Technician, collected three samples at the Pole-Lite manufacturing facility. The samples are identified as follows:

SAMPLE NO. CD648-1: This sample was taken from the sawdust stockpile located in the northwestern corner of the site. The sample consisted of four separate quart jars.

SAMPLE NO. CD648-2: This sample was composed of soil excavated from several locations in the drum storage area. The soil was sampled to a depth of eight inches. The sample consisted of four separate quart jars.

SAMPLE NO. CD648-3: This sample was collected from the sawdust stockpile located in the northeastern corner of the site, and consisted of four separate quart jars.

ANALYSIS

Each sample consisting of four quart jars were randomly split into lots of two jars each. Two jars from each sample were submitted to separate laboratories for analysis (EPA Method No. 624 with peak identification). The test reports are attached.

CONCLUSION

SAMPLE NO. CD648-1:

The sawdust stockpile in the northwest corner of the site contains low levels of methylene chloride, 2-butanone, pentane, hexane and a hydrocarbon as well as slightly higher concentrations of acetone.

SAMPLE NO. CD648-2:

The soil in the vicinity of the drum storage area contains significant concentrations of the following hazardous substances:

1, 1, 1 trichloroethane
1,1 dichloroethane
tetrachloroethane
xylene

Other volatile compounds (non-hazardous) are also present (probably due to the use of heavy machine oil).

SAMPLE NO. CD648-3:

The sawdust stockpile located in the northeast corner of the site contains small amounts of 1, 1, 1 trichloroethane and tetrachloroethane, as well as several non-hazardous volatile compounds.

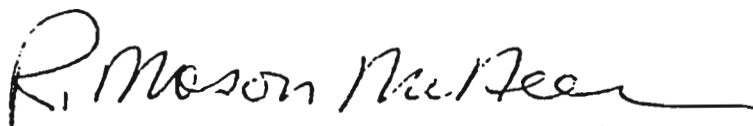
5 GREEN MOUNTAIN DRIVE, SOUTH BURLINGTON, VERMONT 05401, TELEPHONE (802) 658-1074

May 1, 1986

John Carr
Atlantic Testing Laboratories
Box 29
Canton, NY 13617

Project 86500, ETR 7230

The results of the analysis by gas chromatography/mass spectrometry of three samples received by Aquatec on April 2, 1986 are enclosed.



R. Mason McNeer
Chemist

Enclosures

aquatec

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658-1074

ANALYTICAL REPORT

Aquatec Lab No.: 57130

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample
soil 0-8" CD648-2, 3/24/86

Volatile Compounds not on the Hazardous Substances List

<u>Scan No.*</u>	<u>Name</u>	<u>Estimated Conc.** (ug/kg)</u>
510	a C ₉ hydrocarbon	130,000
534	unknown	84,000
548	a C ₃ substituted cyclohexane	58,000
569	unknown	55,000
587	a C ₃ substituted cyclohexane	290,000
623	an unsaturated hydrocarbon	190,000
660	unknown	76,000
698	a C ₃ substituted benzene	59,000
724	nonane	140,000

* Indicates relative location of chromatographic peak in a total of 750 scans in the chromatogram, at three seconds per peak.

** Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658-1074

ANALYTICAL REPORT

Aquatec Lab No.: 57129

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample labeled N.W.
site sawdust CD648-1, 3/24/86

Volatile Organic Compounds in ug/kg

benzene	50 U	methylene chloride	75C
carbon tetrachloride	50 U	chloromethane	100 U
chlorobenzene	50 U	bromomethane	100 U
1,2-dichloroethane	50 U	bromoform	50 U
1,1,1-trichloroethane	50 U	bromodichloromethane	50 U
1,1-dichloroethane	50 U	dibromochloromethane	50 U
1,1,2-trichloroethane	50 U	tetrachloroethene	50 U
1,1,2,2-tetrachloroethane	50 U	toluene	50 U
chloroethane	100 U	trichloroethene	50 U
2-chloroethyl vinyl ether	100 U	vinyl chloride	100 U
chloroform	50 U	acetone	1700C
1,1-dichloroethene	50 U	2-butanone	110
1,2-dichloroethene	50 U	carbon disulfide	50 U
1,2-dichloropropane	50 U	2-hexanone	100 U
trans-1,3-dichloropropene	50 U	4-methyl-2-pentanone	100 U
cis-1,3-dichloropropene	50 U	styrene	50 U
ethylbenzene	50 U	vinyl acetate	100 U
		total xylenes	50 U

Sample was diluted 10 fold for analysis.

Key to the letters used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the detection limit for the compound.

NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.

K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound.

C - The result has been corrected for the presence of the compound in the blank.

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658 1074

ANALYTICAL REPORT

Aquatec Lab No.: 57130

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample soil 0-8"
CD648-2, 3/24/86

Volatile Organic Compounds in ug/kg

benzene	25000	U	methylene chloride	NDB
carbon tetrachloride	25000	U	chloromethane	50000 U
chlorobenzene	25000	U	bromomethane	50000 U
1,2-dichloroethane	25000	U	bromoform	25000 U
1,1,1-trichloroethane	1,300,000		bromodichloromethane	25000 U
1,1-dichloroethane	25000	U	dibromochloromethane	25000 U
1,1,2-trichloroethane	25000	U	tetrachloroethene	26,000C
1,1,2,2-tetrachloroethane	25000	U	toluene	25,000K
chloroethane	50000	U	trichloroethene	25000 U
2-chloroethyl vinyl ether	50000	U	vinyl chloride	50000 U
chloroform	25000	U	acetone	NDB
1,1-dichloroethene	130,000		2-butanone	50000 U
1,2-dichloroethene	25000	U	carbon disulfide	25000 U
1,2-dichloropropane	25000	U	2-hexanone	50000 U
trans-1,3-dichloropropene	25000	U	4-methyl-2-pentanone	50000 U
cis-1,3-dichloropropene	25000	U	styrene	25000 U
ethylbenzene	25000	U	vinyl acetate	50000 U
			total xylenes	91,000

Sample was extracted into methanol and diluted 5000 fold for analysis.

Key to the letters used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the detection limit for the compound. NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.	K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound. C - The result has been corrected for the presence of the compound in the blank.

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.

AQUATEC

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658-1074

ANALYSIS REPORT

Aquatec Lab No.: 57129

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample
labeled N.W. site sawdust CD648-1,
3/24/86

Volatile Compounds not on the Hazardous Substances List

<u>Scan No.*</u>	<u>Name</u>	<u>Estimated Conc.** (ug/kg)</u>
247	pentane	30
358	hexane	19
702	a hydrocarbon	70

* Indicates relative location of chromatographic peak in a total of 750 scans in the chromatogram, at three seconds per peak.

** Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658 1074

ANALYTICAL REPORT

Aquatec Lab No.: 57128

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample labeled N.E.
site sawdust CD648-3, 3/24/86

Volatile Organic Compounds in ug/kg

benzene	500 U	methylene chloride	NDB
carbon tetrachloride	500 U	chloromethane	1000 U
chlorobenzene	500 U	bromomethane	1000 U
1,2-dichloroethane	500 U	bromoform	500 U
1,1,1-trichloroethane	1100	bromodichloromethane	500 U
1,1-dichloroethane	500 U	dibromochloromethane	500 U
1,1,2-trichloroethane	500 U	tetrachloroethene	500K
1,1,2,2-tetrachloroethane	500 U	toluene	500 U
chloroethane	1000 U	trichloroethene	500 U
2-chloroethyl vinyl ether	1000 U	vinyl chloride	1000 U
chloroform	500 U	acetone	NDB
1,1-dichloroethene	500 U	2-butanone	NDB
1,2-dichloroethene	500 U	carbon disulfide	500 U
1,2-dichloropropane	500 U	2-hexanone	1000 U
trans-1,3-dichloropropene	500 U	4-methyl-2-pentanone	1000 U
cis-1,3-dichloropropene	500 U	styrene	500 U
ethylbenzene	500 U	vinyl acetate	1000 U
		total xylenes	500 U

Sample was extracted into methanol and diluted 100 fold for analysis.

Key to the letters used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the detection limit for the compound.

K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound.

NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.

C - The result has been corrected for the presence of the compound in the blank.

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.

800/658-1074

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401
TEL. 802/658-1074

ANALYTICAL REPORT

Aquatec Lab No.: 57128

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample
labeled N.E. site sawdust CD648-3,
3/24/86

Volatile Compounds not on the Hazardous Substances List

<u>Scan No.*</u>	<u>Name</u>	<u>Estimated Conc.** (ug/kg)</u>
514	a hydrocarbon	1500
536	a C ₃ substituted cyclohexane	580
550	a substituted cyclohexane	410
591	a substituted cyclohexane	2700
610	unknown	790
629	an unsaturated hydrocarbon	1800
640	unknown	1200
667	unknown	710
705	a C ₃ substituted benzene	2000
729	a C ₃ substituted benzene	2300

* Indicates relative location of chromatographic peak in a total of 800 scans in the chromatogram, at three seconds per peak.

** Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.

To: ATLANTIC TESTING LABS-LIMITED
BOX 28
CANTON, NY 13617

Date: Jul 15 1986

Attention: JOHN CARR

SAMPLE #2101
LABORATORY ANALYSIS REPORT

SAMPLE SUMMARY

CLIENT : ATLANTIC TESTING LABS-LIMITED DATE RECEIVED : 03/27/86
JOB # : 405.146.01 DATE COLLECTED : NA
LOCATION : SOILS 0-8 CD64882 TIME COLLECTED : NA
METHOD : NA

PARAMETER	RESULTS	UNITS
METHYCYCLOHEXANE	PENDING	
OCTAHYDROFENTALENE	PENDING	
ACETONE	PENDING	
2-PUTANONE	PENDING	
TOTAL XYLENES	150.	ug/g
METHYLENE CHLORIDE	<0.4	ug/g
1,1-DICHLOROETHYLENE	PENDING	
1,1-DICHLOROETHANE	5.6	ug/g
ETHYLBENZENE	<10.	ug/g
1,1,1-TRICHLOROETHANE	1800.	ug/g
TETRACHLOROETHYLENE	<0.4	ug/g
a - C ₃ Cyclohexane	Pending	
a - C ₃ Benzene	Pending	
a - Nonane	Pending	

Note:
analysis performed by outside laboratory.

CS warrants that any sampling and analyses conducted as part of this report are performed in accordance with the analytical industries recognized methodologies and professional standards. CS will not assume liability for any damages resulting from deficient work other than reperformance or cost of said work and will not accept any liability as a result of data interpretation by the client.

APPROVED BY: Conrad T. J. J. DATE: JUL 15 1986

To: ATLANTIC TESTING LABS-LIMITED
BOX 28
CANTON, NY 13617

Date: Jul 15 1986

Attention: JOHN CARR

SAMPLE #2102

LABORATORY ANALYSIS REPORT

SAMPLE SUMMARY

CLIENT : ATLANTIC TESTING LABS-LIMITED

DATE RECEIVED : 03/27/86

JOB # : 405.146.01

DATE COLLECTED : NA

LOCATION : NORTHWEST SAWDUST

TIME COLLECTED : NA

METHOD : NA

PARAMETER	RESULTS	UNITS
METHYCYCLOHEXANE	PENDING	
OCTAHYDROPENTALENE	PENDING	
ACETONE	PENDING	
2-BUTANONE	PENDING	
TOTAL XYLENES	<0.6	ug/g
METHYLENE CHLORIDE	<0.2	ug/g
1,1-DICHLOROETHYLENE	PENDING	
1,1-DICHLOROETHANE	<0.2	ug/g
ETHYLBENZENE	<0.2	ug/g
1,1,1-TRICHLOROETHANE	PENDING	
TETRACHLOROETHYLENE	<0.2	ug/g
a - C ₃ Cyclohexane	Pending	
a - C ₃ Benzene	Pending	
a - Nonane	Pending	

N :
Analysis performed by outside laboratory.

Warrants that any sampling and analyses conducted as part of this report are performed in accordance with the analytical industries recognized methodologies and professional standards. CS will not assume liability for any damages resulting from deficient work other than reperformance or cost of said work and will not accept any liability as a result of data interpretation by the client.

APPROVED BY: [Signature] DATE: JUL 15 1986

To: ATLANTIC TESTING LABS-LIMITED
BOX 28
CANTON, NY 13617

Date: Jul 15 1986

Attention: JOHN CARR

SAMPLE #2103
LABORATORY ANALYSIS REPORT

SAMPLE SUMMARY

CLIENT : ATLANTIC TESTING LABS-LIMITED DATE RECEIVED : 03/27/86
JOB # : 405.146.01 DATE COLLECTED : NA
LOCATION : N.E. SITE SAND TIME COLLECTED : NA
METHOD : NA

PARAMETER	RESULTS	UNITS
METHYCYCLOHEXANE	PENDING	
OCTAHYDROFENTALENE	PENDING	
ACETONE	PENDING	
2-BUTANONE	PENDING	
TOTAL XYLENES	2.3	ug/g
METHYLENE CHLORIDE	<0.2	ug/g
1,1-DICHLOROETHYLENE	PENDING	
1,1-DICHLOROETHANE	<0.2	ug/g
ETHYLBENZENE	<0.4	ug/g
1,1,1-TRICHLOROETHANE	1.5	ug/g
TETRACHLOROETHYLENE	<0.2	ug/g
a - C ₃ Cyclohexane	Pending	
a - C ₃ Benzene	Pending	
a - Nonane	Pending	

Note:
Analysis performed by outside laboratory.

CS warrants that any sampling and analyses conducted as part of this report are performed in accordance with the analytical industries recognized methodologies and professional standards. CS will not assume liability for any damages resulting from deficient work other than reperformance or cost of said work and will not accept any liability as a result of data interpretation by the client.

Polelife

August 4, 1986

Mr. John Carr
Atlantic Testing Labs - Limited
Box 28
Canton, New York 13617

Re: CS sample #'s 2101-2103

File: 405.146.01

Dear Mr. Carr:

Enclosed please find laboratory analysis report for your samples:
1) Soils 0-8 CD64032/CS sample #2101, 2) Northwest Sawdust/CS sample #2102,
3) Northeast Site Sand/CS sample #2103.

As we discussed, these samples were subcontracted to Syracuse Research Corporation for analysis since our GC/MS did not have the library capabilities needed to analyze some of the organic compounds. If you have any technical questions concerning the analysis please contact our organic chemist, Tim Brown. I hope these results will satisfy your needs.

Very truly yours,

CS ENVIRONMENTAL LABORATORY, INC.

Conrad Teufel, Jr.

Conrad Teufel, Jr.
Laboratory Manager

CT:plh
Enclosure

REPORT OF THE ANALYSIS
CS Environmental Laboratory
Mr. Conrad Teufel
L1371-50
July 21, 1986
Page 2

SRC ID No.	86-0868*	86-0869*	86-0870*
CS ID No.	2101	2102	2103
	(µg/g)	(µg/g)	(µg/g)
Methylene Chloride	<0.4	<0.2	<0.2
1,1-Dichloroethene	0.4	<0.2	<0.2
1,1-Dichloroethane	5.6	<0.2	<0.2
1,1,1-Trichloroethane	1800	<0.2	1.5
Tetrachloroethylene	<0.4	<0.2	<0.2
Toluene	15	<0.2	<0.4
Ethylbenzene	<10	<0.2	<0.4
Total Xylenes	150	<0.6	2.3

*As received

Tentative identification of five major peaks in each run through GC/MS library searches. Approximation of concentration assuming a response factor of 1.0.

Identification	Compound	Result
SRC ID No. 86-0868	Octahydro-2-methylpentalene	300 µg/g
CS ID No. 2101	Propylcyclohexane	430 µg/g
	Trimethylbenzene	450 µg/g
	Methylpropylbenzene	450 µg/g
	Ethyl dimethylbenzene	450 µg/g
SRC ID No. 86-0869	Nonane	56 µg/g
CS ID No. 2102	Propylcyclohexane	45 µg/g
	Decane	160 µg/g
	Decahydronaphthalene	17 µg/g
	Methylpropyl pentanol	88 µg/g
SRC ID No. 86-0870	Methylethylbenzene	89 µg/g
CS ID No. 2103	Methylethylbenzene	87 µg/g
	Methylethylbenzene	270 µg/g
	Methylethylbenzene	80 µg/g
	Ethyl dimethylbenzene	41 µg/g



New York State
Approved Laboratory
(315) 446-8795

TO: Atlantic Testing Labs, Limited
P.O. Box 28
Canton, New York 13617

RE: Organic Analysis CS Sample # 2101-2103

FILE: 405.146.01

ATTENTION: Mr. John Carr

DATE: September 11, 1986

WE ARE SENDING YOU ☒ HEREWITH ☐ UNDER SEPARATE COVER VIA

Copies of request for analysis, and cover sheet for SRC analysis report,
of soil samples.

THE ABOVE ARE FOR ☒ INFORMATION ☐ SAMPLING ☐ ANALYSIS

☐ RETURN ☐ REVISION ☐ APPROVAL ☐ OTHER

REMARKS: As requested. If you have any questions, do not hesitate to call.

IF ENCLOSED ARE NOT AS NOTED, PLEASE NOTIFY US AT ONCE.

CS ENVIRONMENTAL LABORATORY, INC.

Conrad Teufel, Jr.

Conrad Teufel, Jr.
Laboratory Manager

CT:plh
Enclosure

TRANSMITTAL



COMPREHENSIVE
ANALYSIS REPORT

Prepared for: CS Environmental Laboratory
5854 Butternut Drive
East Syracuse, NY 13057
Attn: Mr. Conrad Teufel

Prepared by: Life and Environmental Sciences Laboratories
Dr. Alison Carter, Manager
Syracuse Research Corporation
Merrill Lane
Syracuse, New York 13210-4080
SRC Project Number L1371-50
Customer Purchase Order Number - B5-45015

Date of Report: July 11, 1986

Analysis Performed by:

Craig R. Turner Catherine M. Plumb
Craig R. Turner Catherine M. Plumb
Research Associate Chemist

Report Approved by:

Ronald Rossi
Quality Assurance Unit

Work Performed:

Three samples submitted for partial volatile scan.
(SRC ID Nos. 86-0868 to 86-0870).

The test results and procedures utilized and laboratory interpretations of the data obtained by Syracuse Research Corporation as contained in this report are believed by Syracuse Research Corporation to be accurate and reliable. In accepting this report, the client agrees that the full extent of any and all liability will be limited to an amount equal to the fee charged to the client.

The information contained herein is for the exclusive use of the client to whom it is addressed and its communication to any others, or the use of the name of Syracuse Research Corporation, must receive prior written approval. The information and the name of the Syracuse Research Corporation or its seal or insignia are not to be used under any circumstances in advertising to the general public.



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LABORATORY REPORT

for

Malcolm Pirnie, Inc.
4 Corporate Plaza
Washington Ave Extension
Albany, NY 12203

Attention: Linda Hobert

Report date: 07/15/88
Number of samples analyzed: 8
AES Project ID: 880627 F



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-4 (2)

AES sample #: 880627 F05

Samples taken by: A. Murtaug
MATRIX: soil

Date Sampled: 06/23/88

Date sample received: 06/27/88

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES</u>	<u>REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-4 (2)

AES sample #: 880627 F05
continued

Samples taken by: A. Murtaug
MATRIX: soil

Date Sampled: 06/23/88

Date sample received: 06/27/88

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Toluene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Solids		91.9	%	RES-F-29	07/14/88



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CLIENT: Malcolm Pirnie, Inc.
CLIENT'S SAMPLE ID: MW-4 (3)
AES sample #: 880627 F06

Date Sampled: 06/23/88
Date sample received: 06/27/88
Samples taken by: A. Murtaug
MATRIX: soil
Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-4 (3)

AES sample #: 880627 F06
continued

Samples taken by: A. Murtaug
MATRIX: soil

Date Sampled: 06/23/88

Date sample received: 06/27/88

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Toluene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Solids		92.2	%	RES-F-29	07/14/88



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CLIENT: Malcolm Pirnie, Inc.
CLIENT'S SAMPLE ID: MW-4 (4)
AES sample #: 880627 F07

Date Sampled: 06/24/88
Date sample received: 06/27/88
Samples taken by: A. Murtaug
Location: Pole-Lite composite
MATRIX: soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-4 (4)

AES sample #: 880627 F07
continued

Samples taken by: A. Murtaug
MATRIX: soil

Date Sampled: 06/24/88

Date sample received: 06/27/88

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Toluene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Solids		91.8	%	RES-F-29	07/14/88



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CLIENT: Malcolm Pirnie, Inc.

Date Sampled: 06/24/88

CLIENT'S SAMPLE ID: MW-4 (5)

Date sample received: 06/27/88

AES sample #: 880627 F08

Samples taken by: A. Murtaug

Location: Pole-Lite

MATRIX: soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK</u>	<u>REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-4 (5)

AES sample #: 880627 F08
continued

Samples taken by: A. Murtaug
MATRIX: soil

Date Sampled: 06/24/88

Date sample received: 06/27/88

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Toluene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Solids		90.1	%	RES-F-29	07/14/88

Footnote #1= Samples 880627F01 and 880627F04 contain significant levels (ppm range) of aliphatic and aromatic hydrocarbons including decanes, cyclohexanes, ethylmethylbenzenes and trimethylbenzenes.

Footnote #2= Results and detection limits for this project (880627F) are reported on an as received basis. Percent solids data is included.

APPROVED BY: Frouh Scuden
Report date: 07/15/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-5 (1)

AES sample #: 880627 F01

Samples taken by: A. Murtaug

MATRIX: soil

Date Sampled: 06/24/88

Date sample received: 06/27/88

Location: Pole-Lite

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88	
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88	
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88	
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8		06/29/88	
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
1,1,1 Trichloroethane	EPA-8240	4700	ug/kg	GCMS-E-8		06/29/88	
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8		06/29/88	



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CLIENT: Malcolm Pirnie, Inc.

Date Sampled: 06/24/88

CLIENT'S SAMPLE ID: MW-5 (1)

Date sample received: 06/27/88

AES sample #: 880627 F01
continued

Samples taken by: A. Murtaug
MATRIX: soil

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Toluene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Solids		72.6	%	RES-F-29	07/14/88



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CLIENT: Malcolm Pirnie, Inc.

Date Sampled: 06/24/88

CLIENT'S SAMPLE ID: MW-5 (2)

Date sample received: 06/27/88

AES sample #: 880627 F02

Samples taken by: A. Murtaug

Location: Pole-Lite

MATRIX: soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88



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CLIENT: Malcolm Pirnie, Inc.

Date Sampled: 06/24/88

CLIENT'S SAMPLE ID: MW-5 (2)

Date sample received: 06/27/88

AES sample #: 880627 F02
continued

Samples taken by: A. Murtaug
MATRIX: soil

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCHS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCHS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCHS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCHS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCHS-E-8	06/29/88
Toluene	EPA-8240	<250	ug/kg	GCHS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCHS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCHS-E-8	06/29/88
Solids		92.7	%	RES-F-29	07/14/88



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CLIENT: Malcolm Pirnie, Inc.
CLIENT'S SAMPLE ID: MW-5 (3)
AES sample #: 880627 F03

Date Sampled: 06/24/88
Date sample received: 06/27/88
Samples taken by: A. Murtaug
MATRIX: soil
Location: Pole-Lite composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88



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CLIENT: Malcolm Pirnie, Inc.

Date Sampled: 06/24/88

CLIENT'S SAMPLE ID: MW-5 (3)

Date sample received: 06/27/88

AES sample #: 880627 F03

Samples taken by: A. Murtaug

Location: Pole-Lite

continued

MATRIX: soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Toluene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Solids		93.2	%	RES-F-29	07/14/88



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CLIENT: Malcolm Pirnie, Inc.
CLIENT'S SAMPLE ID: MW-5 (4)
AES sample #: 880627 F04

Date Sampled: 06/24/88
Date sample received: 06/27/88
Samples taken by: A. Murtaug
MATRIX: soil
Location: Pole-Lite composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Methylene Chloride	EPA-8240,,	<250	ug/kg	GCMS-E-8	06/29/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethene	EPA-8240	1800	ug/kg	GCMS-E-8	06/29/88
1,1 Dichloroethane	EPA-8240	10,500	ug/kg	GCMS-E-8	06/29/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloroethane	EPA-8240	320	ug/kg	GCMS-E-8	06/29/88
1,1,1 Trichloroethane	EPA-8240	198,000	ug/kg	GCMS-E-8	06/29/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Benzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-5 (4)

AES sample #: 880627 F04
continued

Samples taken by: A. Murtaug
MATRIX: soil

Date Sampled: 06/24/88

Date sample received: 06/27/88

Location: Pole-Lite
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-E-8	06/29/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Toluene	EPA-8240	2800	ug/kg	GCMS-E-8	06/29/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-E-8	06/29/88
Xylenes	EPA-8240	6200	ug/kg	GCMS-E-8	06/29/88
Solids		61.3	%	RES-F-29	07/14/88



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CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME Malcolm Pirnie
Pole - lite

SAMPLERS: (Signature)

Anthony D. Munte

SAMPLE NUMBER	SAMPLE IDENTIFICATION & LOCATION	DATE	TIME A = a.m. P = p.m.	SAMPLE TYPE		NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMP GRAB		
MW-5(1)	MW-5 (2-4')	6/24/88	8:30	A <u>CLAY</u>	✓	2	624
MW-5(2)	MW-5 (6-8')	6/24/88	8:30	A <u>SILT</u>	✓	2	624
MW-5(3)	MW-5 (10-12')	6/24/88	9:15	A <u>SILT</u>	✓	1	624
MW-5(4)	MW-5 (0-1')	6/24/88	11:00	A <u>CLAY</u>	✓	2	624
MW-4(2)	MW-4 (2-4')	6/23/88	2:30	A <u>SND</u>	✓	2	624
MW-4(3)	MW-4 (4-6)	6/23/88	2:30	A <u>SND</u>	✓	2	624
MW-4(4)	MW-4 (6-8)	6/23/88	2:30	A <u>SND</u>	✓	2	624
MW-4(5)	MW-4 (9-11')	6/23/88	4:00	A <u>SND</u>	✓	2	624
~~MW-4(6)~~	~~MW-4 (11-13')~~	~~6/23/88~~		~~A <u>SND</u>~~	~~✓~~	~~2~~	~~624~~
	<u>Tripp Blank</u>			A <u>Water</u>		1	
				A			
				P			
				A			
				P			

Relinquished by: (Signature) <u>Anthony D. Munte</u>	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by <u>Christina</u>
Method of Shipment:		Date/Time <u>6/27/88 10:15</u>

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LABORATORY REPORT

for

Pole-Lite Industries
RD-1 Box 143
Champlain, NY 12919 9718

Attention: Mr. Antonio Gagliardi

Report date: 05/05/89
Number of samples analyzed: 18
AES Project ID: 881118 E

CC: Malcom Pernie

Revised Copy



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-1A

AES sample #: 881118 E01

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	2300	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	250	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Per-1A

Date sample received: 11/18/88

AES sample #: 881118 E01
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene.	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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A full service analytical research laboratory offering solutions to environmental concerns

CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-1B

AES sample #: 881118 E02

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	1800	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-1B

AES sample #: 881118 E02
continued

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Per-2A
AES sample #: 881118 E03

Date Sampled: 11/17/88
Date sample received: 11/18/88
Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	300	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	1400	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-2A

AES sample #: 881118 E03
continued

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Per-2B

Date sample received: 11/18/88

AES sample #: 881118 E04

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-2B

AES sample #: 881118 E04
continued

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Total Petroleum Hydrocarbons	EPA-9070	12	ug/g	O&G-B-30	12/06/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Per-3A
AES sample #: 881118 E05

Date Sampled: 11/17/88
Date sample received: 11/18/88
Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	3500	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-3A

AES sample #: 881118 E05
continued

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-3B

AES sample #: 881118 E06

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	5600	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-3B

AES sample #: 881118 E06
continued

Samples taken by: A. D. Murtaugh
MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-4A

AES sample #: 881118 E07

Date Sampled: 11/17/88

Date sample received: 11/18/88

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	710	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	500	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Per-4A

Date sample received: 11/18/88

AES sample #: 881118 E07
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Per-4B
AES sample #: 881118 E08

Date Sampled: 11/17/88
Date sample received: 11/18/88
Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/ REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	4200	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Per-4B

Date sample received: 11/18/88

AES sample #: 881118 E08
continued

Samples taken by: A. D. Murtaugh
MATRIX: soil
Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88

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Date Sampled: 11/17/88

Date sample received: 11/18/88

Analyses taken by: A. D. Murtaugh Location: Champlain NY
 Matrix: soil grab

<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
UA-8240	<500	ug/kg	GCMS-F-17	11/22/88
UA-8240	<500	ug/kg	GCMS-F-17	11/22/88
UA-8240	<500	ug/kg	GCMS-F-17	11/22/88
UA-8240	<500	ug/kg	GCMS-F-17	11/22/88
UA-8240	850	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88
UA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Per-5A

Date sample received: 11/18/88

AES sample #: 881118 E09

Samples taken by: A. D. Murtaugh Location: Champlain NY

continued

MATRIX: soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Per-5B

AES sample #: 881118 E10

Samples taken by: A. D. Murtaugh

MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	2300	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Per-5B

Date sample received: 11/18/88

AES sample #: 881118 E10
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Total Petroleum Hydrocarbons	EPA-9070	20	ug/g	O&G-B-30	12/06/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-1A

Date Sampled: 11/17/88

Date sample received: 11/18/88

AES sample #: 881118 E11

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	300	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	7500	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-1A

Date Sampled: 11/17/88

Date sample received: 11/18/88

AES sample #: 881118 E11
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-1B
AES sample #: 881118 E12

Date Sampled: 11/17/88
Date sample received: 11/18/88
Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	1600	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	5900	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-1B

Date Sampled: 11/17/88

Date sample received: 11/18/88

AES sample #: 881118 E12
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-2A
AES sample #: 881118 E13

Date Sampled: 11/17/88
Date sample received: 11/18/88
Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	1000	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	2000	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	35,400	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-2A

Date Sampled: 11/17/88

Date sample received: 11/18/88

AES sample #: 881118 E13
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	450	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Ex SAM-2B

AES sample #: 881118 E14

Date Sampled: 11/17/88
Date sample received: 11/18/88
Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	1800	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-2B

Date Sampled: 11/17/88

Date sample received: 11/18/88

AES sample #: 881118 E14
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Ex SAM-3A

Date sample received: 11/18/88

AES sample #: 881118 E15

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	400	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	10,400	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Ex SAM-3A

Date sample received: 11/18/88

AES sample #: 881118 E15
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Ex SAM-3B

AES sample #: 881118 E16

Samples taken by: A. D. Murtaugh

MATRIX: soil

Date Sampled: 11/17/88

Date sample received: 11/18/88

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	750	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Ex SAM-3B

Date sample received: 11/18/88

AES sample #: 881118 E16
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Total Petroleum Hydrocarbons	EPA-9070	28	ug/g	O&G-B-30	12/06/88



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CLIENT: Pole-Lite Industries

Date Sampled: 11/17/88

CLIENT'S SAMPLE ID: Ex SAM-4A

Date sample received: 11/18/88

AES sample #: 881118 E17

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	320	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	75,000	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-4A

Date Sampled: 11/17/88

Date sample received: 11/18/88

AES sample #: 881118 E17
continued

Samples taken by: A. D. Murtaugh
MATRIX: soil

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	1,000	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-4B
AES sample #: 881118 E18

Date Sampled: 11/17/88
Date sample received: 11/18/88
Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromomethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Vinyl Chloride	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Chloroethane	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Methylene Chloride	EPA-8240	6600	ug/kg	GCMS-F-17	11/22/88
Trichlorofluoromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,2 Dichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Chloroform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,1 Trichloroethane	EPA-8240	56,500	ug/kg	GCMS-F-17	11/22/88
Carbon Tetrachloride	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Bromodichloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,2 Dichloropropane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
t-1,3 Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Trichloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Benzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Dibromochloromethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2 Trichloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Ex SAM-4B

Date Sampled: 11/17/88

Date sample received: 11/18/88

AES sample #: 881118 E18
continued

Samples taken by: A. D. Murtaugh Location: Champlain NY
MATRIX: soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
2-Chloroethylvinylether	EPA-8240	<500	ug/kg	GCMS-F-17	11/22/88
Bromoform	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
1,1,2,2 Tetrachloroethane	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Tetrachloroethene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Toluene	EPA-8240	1400	ug/kg	GCMS-F-17	11/22/88
Chlorobenzene	EPA-8240	<250	ug/kg	GCMS-F-17	11/22/88
Ethylbenzene	EPA-8240	1400	ug/kg	GCMS-F-17	11/22/88
Total Petroleum Hydrocarbons	EPA-9070	276	ug/g	O&G-B-30	12/06/88

APPROVED BY: Frank Sander
Report date: 05/05/89



Q.C. Malcolm Fernie

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CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME

SAMPLERS: (Signature)

Pole-Lite, Champlain N.Y. (MPI)

Anthony O'Murtagh

SAMPLE NUMBER

SAMPLE IDENTIFICATION & LOCATION

DATE

TIME
A = a.m.
P = p.m.

SAMPLE TYPE
MATRIX

COMP
GRAB

NUMBER
OF
CONT'S

ANALYSIS REQUIRED

Per-1A	Per-1A (.5-1')	11/17/88	P	Soil	✓	2	EA 8240
Per-1B	Per-1B (2.-3')		P		✓	2	
Per-2A	Per-2A (.5-1')		P		✓	2	
Per-2B	Per-2B (2.-3')		P		✓	2	
Per-3A	Per-3A (.5-1')		P		✓	2	
Per-3B	Per-3B (2.-3')		P		✓	2	
Per-4A	Per-4A (.5-1')		P		✓	2	
Per-4B	Per-4B (2.-3')		P		✓	2	
Per-5A	Per-5A (.5-1')		P		✓	2	
Per-5B	Per-5B (2.-3')	✓	P	✓	✓	2	✓
			A				
			P				
			A				
			P				

Relinquished by: (Signature)

Anthony O'Murtagh

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by Mobile Laboratory for field analysis: (Signature)

Date/Time

Dispatched by: (Signature)

Date/Time

Received for Laboratory by:

Date/Time

Method of Shipment:

Per-1A/1B (see notes)

11/18 8:05

Specializing in Hazardous Waste and Petroleum Product Analyses

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy



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CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME

Pole-Lite Champlain, N.Y. (MPI)

SAMPLERS: (Signature)

Anthony D. Munteau

SAMPLE NUMBER	SAMPLE IDENTIFICATION & LOCATION	DATE	TIME A = a.m. P = p.m.	SAMPLE TYPE		NUMBER OF CONTS	ANALYSIS REQUIRED
				MATRIX	COMPL. GRAB		
381118-E EX SAM-1A	EX SAM-1A (5-1')	11/16/88	A	Soil	✓	1	EPA-8240
EX SAM-1B	EX SAM-1B (2-3')	✓	A	✓	✓	2	✓
EX SAM-2A	EX SAM-2A (5-1')	✓	A	✓	✓	2	✓
EX SAM-2B	EX SAM-2B (2-3')	✓	A	✓	✓	2	✓
EX SAM-3A	EX SAM-3A (5-1')	✓	A	✓	✓	2	✓
EX SAM-3B	EX SAM-3B (2-3')	✓	A	✓	✓	2	✓
EX SAM-4A	EX SAM-4A (5-1')	✓	A	✓	✓	2	✓
EX SAM-4B	EX SAM-4B (2-3')	✓	A	✓	✓	2	✓
Trip Blanks			A			2	
			A				
			A				
			A				

Relinquished by: (Signature)

Anthony D. Munteau

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by Mobile Laboratory for field analysis: (Signature)

Date/Time

Dispatched by: (Signature)

Date/Time

Received for Laboratory by:

Date/Time

Method of Shipment:

Steve J. [Signature]

11/18 8:05

Specializing in Hazardous Waste and Petroleum Product Analyses

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

APPENDIX F

GROUND WATER RESULTS



P.O. Box 265
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LABORATORY REPORT

for

Malcolm Pirnie, Inc.
4 Corporate Plaza
Washington Ave Extention
Albany, NY 12203

Attention: Linda Hobert

RECEIVED
JUL 18 1988
MALCOLM PIRNIE
ALBANY
GOIC
LAH
KJG
1282-01-1

Report date: 07/14/88
Number of samples analyzed: 5
AES Project ID: 880708 B



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-1

AES sample #: 880708 B01

Date Sampled: 07/07/88

Date sample received: 07/07/88

Samples taken by: A. Murtaugh

Location: Pole-lite

MATRIX: ground water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromomethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Chloroethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Methylene chloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichlorofluoromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chloroform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Benzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-1

AES sample #: 880708 B01
continued

Date Sampled: 07/07/88

Date sample received: 07/07/88

Samples taken by: A. Murtaugh

Location: Pole-lite
grab

MATRIX: ground water

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromoform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Toluene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chlorobenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Ethylbenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.
CLIENT'S SAMPLE ID: MW-2
AES sample #: 880708 B02

Date Sampled: 07/07/88
Date sample received: 07/07/88
Samples taken by: A. Murtaugh
MATRIX: ground water
Location: Pole-lite grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromomethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Chloroethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Methylene chloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichlorofluoromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chloroform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Benzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-2

AES sample #: 880708 B02
continued

Date Sampled: 07/07/88

Date sample received: 07/07/88

Samples taken by: A. Murtaugh
MATRIX: ground water

Location: Pole-lite
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromoform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Toluene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chlorobenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Ethylbenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-3

AES sample #: 880708 B03

Date Sampled: 07/07/88

Date sample received: 07/07/88

Samples taken by: A. Murtaugh

Location: Pole-lite

MATRIX: ground water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromomethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Chloroethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Methylene chloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichlorofluoromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chloroform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Benzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.
CLIENT'S SAMPLE ID: MW-3
AES sample #: 880708 B03
continued

Date Sampled: 07/07/88
Date sample received: 07/07/88
Location: Pole-lite
grab

Samples taken by: A. Murtaugh
MATRIX: ground water

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromoform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Toluene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chlorobenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Ethylbenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.

CLIENT'S SAMPLE ID: MW-5

AES sample #: 880708 B04

Date Sampled: 07/07/88

Date sample received: 07/07/88

Samples taken by: A. Murtaugh

Location: Pole-lite

MATRIX: ground water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromomethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Chloroethane	EPA-624	29	ug/l	GCMS-E-10	07/12/88
Methylene chloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichlorofluoromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethene	EPA-624	160	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethane	EPA-624	3,300	ug/l	GCMS-E-10	07/12/88
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chloroform	EPA-624	8	ug/l	GCMS-E-10	07/12/88
1,2 Dichloroethane	EPA-624	140	ug/l	GCMS-E-10	07/12/88
1,1,1 Trichloroethane	EPA-624	4,900	ug/l	GCMS-E-10	07/12/88
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Benzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.
CLIENT'S SAMPLE ID: MW-5
AES sample #: 880708 B04
continued

Date Sampled: 07/07/88
Date sample received: 07/07/88
Samples taken by: A. Murtaugh
MATRIX: ground water
Location: Pole-lite
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromoform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Toluene	EPA-624	27	ug/l	GCMS-E-10	07/12/88
Chlorobenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Ethylbenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Total Xylenes	EPA-624	250	ug/l	GCMS-E-10	07/12/88
Acetone	EPA-624	29	ug/l	GCMS-E-10	07/12/88
2-Butanone	EPA-624	84	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.

Date Sampled: 07/07/88

CLIENT'S SAMPLE ID: Bailer Rinseate

Date sample received: 07/07/88

AES sample #: 880708 B05

Samples taken by: A. Murtaugh

Location: Pole-lite

MATRIX: water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromomethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Chloroethane	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Methylene chloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichlorofluoromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chloroform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Trichloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Benzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88



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CLIENT: Malcolm Pirnie, Inc.

Date Sampled: 07/07/88

CLIENT'S SAMPLE ID: Bailer Rinseate

Date sample received: 07/07/88

AES sample #: 880708 B05
continued

Samples taken by: A. Murtaugh
MATRIX: water

Location: Pole-lite
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-E-10	07/12/88
Bromoform	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Toluene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Chlorobenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88
Ethylbenzene	EPA-624	<5	ug/l	GCMS-E-10	07/12/88

APPROVED BY: Frank Scuderi
Report date: 07/13/88

Pole-Lite Wells

3 011

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name CAMBERG ANALYTICAL Contract: WELL1
Lab Code CAMBERDG Case No.: P58ECO4 SAS No.: SDG No.:
Matrix: (soil/water) WATER Lab Sample ID: BB07082-01
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H3B19
Level: (low/med) LOW Date Received: 07/09/88
% Moisture: not dec. N/A Date Analyzed: 07/12/88
Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO. COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	g
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-46-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
102-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U



William P. ...

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(518) 434-4546

CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME <i>Pole-lite</i>	SAMPLERS: (Signature) <i>On the D Monte</i>

SAMPLE NUMBER	SAMPLE IDENTIFICATION & LOCATION	DATE	TIME A = a.m. P = p.m.	SAMPLE TYPE		NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMP GRAB		
MW-1	MW-1	7/7/8	11:00	A	Water	2	EPA ~~503~~
MW-2	MW-2	7/7/8	12:00	A	↓	2	624
MW-3	MW-3		12:00	A		2	
MW-5	MW-5		1:40	A		2	
				A		2	
				P			
	Bailer Rinseate	7/7/8	1:42	A	↓	2	
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			

Relinquished by: (Signature) <i>On the D Monte</i>		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by Mobile Laboratory for field analysis: (Signature)		Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>Heath Starks</i>	Date/Time <i>7/7/8 5:05</i>	
Method of Shipment:				

Specializing in Hazardous Waste and Petroleum Product Analyses

3 015

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL2

P-588-04-02

Lab Name: CAMBRG ANALYT Contract: _____

Lab Code: CAMBRDG Case No.: P58BC04 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BB07082-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H3820

Level: (low/med) LOW Date Received: 07/09/88

% Moisture: not dec. N/A Date Analyzed: 07/12/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS:

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

G

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

3 021

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL3

P-588-C04-02

Lab Name: CAMDRG ANALYT Contract: _____

Lab Code: CAMDRG Case No.: P568C04 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 8807082-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H3821

Level: (low/med) LOW Date Received: 07/09/88

% Moisture: not dec. N/A Date Analyzed: 07/12/88

Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

G

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	2	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-09-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL# 5

P-588-COY-04

Lab Name: CAMBRG ANALYTL

Contract: _____

Lab Code: CAMBRDG

Case No.: P588C04

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: 8807082-04

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

Lab File ID: H3839

Level: (low/med) LOW

Date Received: 07/09/88

% Moisture: not dec. N/A

Date Analyzed: 07/13/88

Column: (pack/cap) PACK

Dilution Factor: 500

CAS NO.

COMPOUND

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

Q

74-87-3-----	Chloromethane	5000	U
74-83-9-----	Bromomethane	5000	U
75-01-4-----	Vinyl Chloride	5000	U
75-00-3-----	Chloroethane	5000	U
75-09-2-----	Methylene Chloride	1500	BJ
67-64-1-----	Acetone	5000	U
75-15-0-----	Carbon Disulfide	2500	U
75-35-4-----	1,1-Dichloroethene	2500	U
75-34-3-----	1,1-Dichloroethane	4200	
540-59-0-----	1,2-Dichloroethene (total)	2500	U
67-66-3-----	Chloroform	2500	U
107-06-2-----	1,2-Dichloroethane	2500	U
78-93-3-----	2-Butanone	5000	U
71-55-6-----	1,1,1-Trichloroethane	22000	
56-23-5-----	Carbon Tetrachloride	2500	U
108-05-4-----	Vinyl Acetate	5000	U
75-27-4-----	Bromodichloromethane	2500	U
78-87-5-----	1,2-Dichloropropane	2500	U
10061-01-5-----	cis-1,3-Dichloropropene	2500	U
79-01-6-----	Trichloroethene	2500	U
124-48-1-----	Dibromochloromethane	2500	U
79-00-5-----	1,1,2-Trichloroethane	2500	U
71-43-2-----	Benzene	2500	U
10061-02-6-----	Trans-1,3-Dichloropropene	2500	U
75-25-2-----	Bromoform	2500	U
108-10-1-----	4-Methyl-2-Pentanone	5000	U
591-78-6-----	2-Hexanone	5000	U
127-18-4-----	Tetrachloroethene	2500	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5000	U
108-88-3-----	Toluene	2500	U
108-90-7-----	Chlorobenzene	2500	U
100-41-4-----	Ethylbenzene	2500	U
100-42-5-----	Styrene	2500	U
1330-20-7-----	Total Xylenes	2500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

3 035
EPA SAMPLE NO.

Lab Name: CAMBRG ANALYT Contract: _____

Lab Code: CAMBRDG Case No.: P588C04 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 8807082-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H3840

Level: (low/med) LOW Date Received: 07/09/88

% Moisture: not dec. N/A Date Analyzed: 07/13/88

Column: (pack/cap) PACK Dilution Factor: 500

WELL5 Dup
P-588-C04-05

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	5000	U
74-83-9	-----Bromomethane	5000	U
75-01-4	-----Vinyl Chloride	5000	U
75-00-3	-----Chloroethane	5000	U
75-09-2	-----Methylene Chloride	2500	U
67-64-1	-----Acetone	5000	U
75-15-0	-----Carbon Disulfide	2500	U
75-35-4	-----1,1-Dichloroethene	2500	U
75-34-3	-----1,1-Dichloroethane	3900	
540-59-0	-----1,2-Dichloroethene (total)	2500	U
67-66-3	-----Chloroform	2500	U
107-06-2	-----1,2-Dichloroethane	2500	U
78-93-3	-----2-Butanone	5000	U
71-55-6	-----1,1,1-Trichloroethane	22000	
56-23-5	-----Carbon Tetrachloride	2500	U
108-05-4	-----Vinyl Acetate	5000	U
75-27-4	-----Bromodichloromethane	2500	U
78-87-5	-----1,2-Dichloropropane	2500	U
10061-01-5	-----cis-1,3-Dichloropropene	2500	U
79-01-6	-----Trichloroethene	2500	U
124-48-1	-----Dibromochloromethane	2500	U
79-00-5	-----1,1,2-Trichloroethane	2500	U
71-43-2	-----Benzene	2500	U
10061-02-6	-----Trans-1,3-Dichloropropene	2500	U
75-25-2	-----Bromoform	2500	U
108-10-1	-----4-Methyl-2-Pentanone	5000	U
591-78-6	-----2-Hexanone	5000	U
127-18-4	-----Tetrachloroethene	2500	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5000	U
108-88-3	-----Toluene	2500	U
108-90-7	-----Chlorobenzene	2500	U
100-41-4	-----Ethylbenzene	2500	U
100-42-5	-----Styrene	2500	U
1330-20-7	-----Total Xylenes	2500	U

3 068

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank
VBLK0712

Lab Name: CAMBERG ANALYTICAL Contract: _____

Lab Code: CAMBERDG Case No.: P588C04 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 6306 063088

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H3818

Level: (low/med) LOW Date Received: N/A

% Moisture: not dec. N/A Date Analyzed: 07/12/88

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO. COMPOUND G

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

3 073

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank
VBLK0713

Lab Name: CAMBRG ANALYTL Contract: _____

Lab Code: CAMBRDG Case No.: P588C04 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 6306 063088

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H3838

Level: (low/med) LOW Date Received: N/A

% Moisture: not dec. N/A Date Analyzed: 07/13/88

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO.	COMPOUND		G
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

ORGANICS FLAGS

The seven EPA-defined qualifiers to be used are as follows:

- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract shall be confirmed by GC/MS.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 ug/L and a sample quantitation limit of 430 ug/kg, report the concentration as 300J on Form I.

3001J

ORGANICS FLAGS (cont'd)

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330 \text{ U})}{D} \times df \quad \text{where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

$$\text{at } 24\% \text{ moisture, } D = \frac{100-24}{100} = 0.76$$

$$\frac{(330 \text{ U})}{.76} \times 10 = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by 2, to account for the fact that only half of the extract is recovered.

- X - This flag signifies that the Formaster computer system has been over-ridden by a manual calculation of compound concentration.
- Y - This flag signifies that the Formaster computer system has been over-ridden by a manual integration of peak area, and a manual calculation of compound concentration.



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Rensselaer, NY 12144
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CLIENT: Malcolm Pirnie Inc.
CLIENT'S SAMPLE ID: MW-5
AES sample #: 880816 C01

Date Sampled: 08/15/88
Date sample received: 08/16/88
Samples taken by: A.Murtaugh
MATRIX: ground water
Location: Pole Lite grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Bromomethane	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Chloroethane	EPA-624	560	ug/l	GCMS-E-23	08/17/88
Methylene chloride	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Trichlorofluoromethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1 Dichloroethene	EPA-624	140	ug/l	GCMS-E-23	08/17/88
1,1 Dichloroethane	EPA-624	1450	ug/l	GCMS-E-23	08/17/88
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Chloroform	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,2 Dichloroethane	EPA-624	17	ug/l	GCMS-E-23	08/17/88
1,1,1 Trichloroethane	EPA-624	6100	ug/l	GCMS-E-23	08/17/88
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Trichloroethene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Benzene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88



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CLIENT: Malcolm Pirnie Inc.

CLIENT'S SAMPLE ID: MW-5

AES sample #: 880816 C01

continued

Date Sampled: 08/15/88

Date sample received: 08/16/88

Samples taken by: A. Murtaugh

Location: Pole Lite

MATRIX: ground water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Bromoform	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Toluene	EPA-624	370	ug/l	GCMS-E-23	08/17/88
Chlorobenzene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Ethylbenzene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Xylenes	EPA-602	189	ug/l	GCMS-E-23	08/17/88
2-Butanone	EPA-624	68	ug/l	GCMS-E-23	08/17/88
Acetone	EPA-8015	126	ug/l	GCMS-E-23	08/17/88



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CLIENT: Malcolm Pirnie Inc.
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 880816 C02

Date Sampled: 08/15/88
Date sample received: 08/16/88
Samples taken by: A. Murtaugh
MATRIX: ground water
Location: Pole Lite grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Bromomethane	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Chloroethane	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Methylene chloride	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Trichlorofluoromethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Chloroform	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Trichloroethene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Benzene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88



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CLIENT: Malcolm Pirnie Inc.
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 880816 C02
continued

Date Sampled: 08/15/88
Date sample received: 08/16/88
Samples taken by: A. Murtaugh
Location: Pole Lite
MATRIX: ground water
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-E-23	08/17/88
Bromoform	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Toluene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
Chlorobenzene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88
ethylbenzene	EPA-624	<5	ug/l	GCMS-E-23	08/17/88

APPROVED BY: Frank Sarden
Report date: 09/27/88



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CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME Pole-Lite/Malcolm Pirnie	SAMPLERS: (Signature) Anthony D Murtaugh

SAMPLE NUMBER	SAMPLE IDENTIFICATION & LOCATION	DATE	TIME A = a.m. P = p.m.	SAMPLE TYPE		NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMP GRAB		
			A				
			P				
MW-5	MW-5	8/15	A	Ground Water		2	EPA 624
			P				
	Trip Blank		A			1	
			P				
			A				
			P				
Rush	3 Day if possible		A				
			P				
			A				
			P				
			A				
			P				
			A				
			P				
			A				
			P				

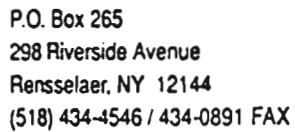
Relinquished by: (Signature) Anthony D Murtaugh		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by: (Signature)		Date/Time
Relinquished by: (Signature)		Received by Mobile Laboratory for field analysis: (Signature)		Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: John J. Smith		Date/Time 8/16 8:45
Method of Shipment:				

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WHITE - Lab Copy

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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: MW-6

AES sample #: 890110 B01

Samples taken by: Tony Murtaugh
MATRIX: water

Date Sampled: 01/09/89

Date sample received: 01/10/89

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Vinyl Chloride	EPA-624	23	ug/l	GCMS-F-32	01/10/89
Chloroethane	EPA-624	86	ug/l	GCMS-F-32	01/10/89
Methylene chloride	EPA-624	13	u /l	GCMS-F-32	01/10/89
Acetone	EPA-624	290	ug/l	GCMS-F-32	01/10/89
Carbon Disulfide	EPA-624	11	ug/l	GCMS-F-32	01/10/89
1,1 Dichloroethene	EPA-624	2700	ug/l	GCMS-F-32	01/10/89
1,1 Dichloroethane	EPA-624	71,000	ug/l	GCMS-F-32	01/10/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Chloroform	EPA-624	45	ug/l	GCMS-F-32	01/10/89
1,2 Dichloroethane	EPA-624	3300	ug/l	GCMS-F-32	01/10/89
2-Butanone	EPA-624	1100	ug/l	GCMS-F-32	01/10/89
1,1,1 Trichloroethane	EPA-624	186,000	ug/l	GCMS-F-32	01/10/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Vinyl acetate	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Trichloroethene	EPA-624	58	ug/l	GCMS-F-32	01/10/89



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: MW-6

AES sample #: 890110 B01
continued

Samples taken by: Tony Murtaugh
MATRIX: water

Date Sampled: 01/09/89

Date sample received: 01/10/89

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1,2-Trichloroethane	EPA-624	350	ug/l	GCMS-F-32	01/10/89
Benzene	EPA-624	32	ug/l	GCMS-F-32	01/10/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
4-Methyl-2-pentanone	EPA-624	160	ug/l	GCMS-F-32	01/10/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Toluene	EPA-624	1400	ug/l	GCMS-F-32	01/10/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Ethylbenzene	EPA-624	67	ug/l	GCMS-F-32	01/10/89
Styrene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Total Xylenes	EPA-624	1300	ug/l	GCMS-F-32	01/10/89



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: MW-8

AES sample #: 890110 B02

Samples taken by: Tony Murtaugh
MATRIX: water

Date Sampled: 01/09/89

Date sample received: 01/10/89

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Chloroethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Methylene chloride	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Acetone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Carbon Disulfide	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Chloroform	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
2-Butanone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
1,1,1 Trichloroethane	EPA-624	4	ug/l	GCMS-F-32	01/10/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Vinyl acetate	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Trichloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: MW-8

AES sample #: 890110 B02
continued

Date Sampled: 01/09/89
Date sample received: 01/10/89
Samples taken by: Tony Murtaugh Location: Champlain NY
MATRIX: water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Benzene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
4-Methyl-2-pentanone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Toluene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Ethylbenzene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Styrene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Total Xylenes	EPA-624	<5	ug/l	GCMS-F-32	01/10/89



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Trip Blank

Date Sampled: 01/09/89

Date sample received: 01/10/89

AES sample #: 890110 B03

Samples taken by: Tony Murtaugh Location: Champlain NY
MATRIX: water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Chloroethane	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Methylene chloride	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Acetone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Carbon Disulfide	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Chloroform	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
2-Butanone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
1,1,1 Trichloroethane	EPA-624	19	ug/l	GCMS-F-32	01/10/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Vinyl acetate	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Trichloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: Trip Blank

Date Sampled: 01/09/89

Date sample received: 01/10/89

AES sample #: 890110 B03
continued

Samples taken by: Tony Murtaugh Location: Champlain NY
MATRIX: water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Benzene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
4-Methyl-2-pentanone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-32	01/10/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Toluene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Ethylbenzene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Styrene	EPA-624	<5	ug/l	GCMS-F-32	01/10/89
Total Xylenes	EPA-624	<5	ug/l	GCMS-F-32	01/10/89

APPROVED BY: Frank Seiden
Report date: 01/28/89



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LABORATORY REPORT

for

Pole-Lite Industries
RD-1 Box 143
Champlain, NY 12919 9718

Attention: Mr. Antonio Gagliardi

Report date: 03/10/89
Number of samples analyzed: 6
AES Project ID: 890224 W

CC: Malcolm Pirnie



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: MW-1
AES sample #: 890224 W01

Date Sampled: 02/24/89
Date sample received: 02/24/89
Samples taken by: A. Murtaugh
MATRIX: ground water
Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Chloroethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Methylene chloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Acetone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Carbon Disulfide	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chloroform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Butanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Vinyl acetate	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Trichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: MW-1

AES sample #: 890224 W01
continued

Samples taken by: A. Murtaugh

MATRIX: ground water

Date Sampled: 02/24/89

Date sample received: 02/24/89

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Benzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
4-Methyl-2-pentanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Toluene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Ethylbenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Styrene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Total Xylenes	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: MW-2
AES sample #: 890224 W02

Samples taken by: A. Murtaugh
MATRIX: ground water

Date Sampled: 02/24/89
Date sample received: 02/24/89
Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Chloroethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Methylene chloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Acetone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Carbon Disulfide	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chloroform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Butanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Vinyl acetate	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Trichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: MW-2

AES sample #: 890224 W02
continued

Samples taken by: A. Murtaugh
MATRIX: ground water

Date Sampled: 02/24/89

Date sample received: 02/24/89

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Benzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
4-Methyl-2-pentanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Toluene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Ethylbenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Styrene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Total Xylenes	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Fole-Lite Industries
CLIENT'S SAMPLE ID: MW-3
AES sample #: 890224 W03

Date Sampled: 02/24/89

Date sample received: 02/24/89

Samples taken by: A. Murtaugh
MATRIX: ground water

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Chloroethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Methylene chloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Acetone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Carbon Disulfide	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chloroform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Butanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Vinyl acetate	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Trichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries

Date Sampled: 02/24/89

CLIENT'S SAMPLE ID: MW-3

Date sample received: 02/24/89

AES sample #: 890224 W03

Samples taken by: A. Murtaugh

Location: Champlain NY

continued

MATRIX: ground water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Benzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
4-Methyl-2-pentanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Toluene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Ethylbenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Styrene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Total Xylenes	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries

Date Sampled: 02/24/89

CLIENT'S SAMPLE ID: MW-5

Date sample received: 02/24/89

AES sample #: 890224 W04

Samples taken by: A. Murtaugh

Location: Champlain NY

MATRIX: ground water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
Bromomethane	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
Vinyl Chloride	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
Chloroethane	EPA-624	690	ug/l	GCMS-F-45	03/01/89
Methylene chloride	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Acetone	EPA-624	750	ug/l	GCMS-F-45	03/01/89
Carbon Disulfide	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethane	EPA-624	6100	ug/l	GCMS-F-45	03/01/89
t-1,2-Dichloroethene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Chloroform	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
1,2 Dichloroethane	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
2-Butanone	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
1,1,1 Trichloroethane	EPA-624	34,000	ug/l	GCMS-F-45	03/01/89
Carbon Tetrachloride	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Vinyl acetate	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
Bromodichloromethane	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
1,2-Dichloropropane	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
t-1,3-Dichloropropene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Trichloroethene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: MW-5

AES sample #: 890224 W04
continued

Date Sampled: 02/24/89

Date sample received: 02/24/89

Samples taken by: A. Murtaugh
MATRIX: ground water

Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
1,1,2-Trichloroethane	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Benzene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
cis-1,3-Dichloropropene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
2-Chloroethylvinylether	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
Bromoform	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
4-Methyl-2-pentanone	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
2-Hexanone	EPA-624	<500	ug/l	GCMS-F-45	03/01/89
Tetrachloroethene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
1,1,2,2-Tetrachloroethane	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Toluene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Chlorobenzene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Ethylbenzene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Styrene	EPA-624	<250	ug/l	GCMS-F-45	03/01/89
Total Xylenes	EPA-624	<250	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: MW-8
AES sample #: 890224 W05

Date Sampled: 02/24/89
Date sample received: 02/24/89
Samples taken by: A. Murtaugh
MATRIX: ground water
Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Chloroethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Methylene chloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Acetone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Carbon Disulfide	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethane	EPA-624	15	ug/l	GCMS-F-45	03/01/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chloroform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Butanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
1,1,1 Trichloroethane	EPA-624	5	ug/l	GCMS-F-45	03/01/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Vinyl acetate	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Trichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries
CLIENT'S SAMPLE ID: MW-8
AES sample #: 890224 W05
continued

Date Sampled: 02/24/89
Date sample received: 02/24/89
Samples taken by: A. Murtaugh
MATRIX: ground water
Location: Champlain NY
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Benzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
4-Methyl-2-pentanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Toluene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Ethylbenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Styrene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Total Xylenes	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries

CLIENT'S SAMPLE ID: Trip Blank

AES sample #: 890224 W06

Samples taken by: A. Murtaugh

MATRIX: ground water

Date Sampled: 02/24/89

Date sample received: 02/24/89

Location: Champlain NY

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromomethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Vinyl Chloride	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Chloroethane	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Methylene chloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Acetone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Carbon Disulfide	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,2-Dichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chloroform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2 Dichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Butanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
1,1,1 Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Carbon Tetrachloride	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Vinyl acetate	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromodichloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,2-Dichloropropane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
t-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Trichloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89



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CLIENT: Pole-Lite Industries

Date Sampled: 02/24/89

CLIENT'S SAMPLE ID: Trip Blank

Date sample received: 02/24/89

AES sample #: 890224 W06

Samples taken by: A. Murtaugh

Location: Champlain NY

continued

MATRIX: ground water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dibromochloromethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2-Trichloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Benzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
2-Chloroethylvinylether	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Bromoform	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
4-Methyl-2-pentanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
2-Hexanone	EPA-624	<10	ug/l	GCMS-F-45	03/01/89
Tetrachloroethene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Toluene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Chlorobenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Ethylbenzene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Styrene	EPA-624	<5	ug/l	GCMS-F-45	03/01/89
Total Xylenes	EPA-624	<5	ug/l	GCMS-F-45	03/01/89

APPROVED BY:

Report date: 03/10/89

Frank Scuderi



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CHAIN OF CUSTODY RECORD

CLIENT NAME Pole-Lite Industries		PROJECT NAME (Location) Pole Lite / MPI		SAMPLERS' (Names) Anthony D Murtaugh			
ADDRESS Champlain, N.Y.		PO NUMBER		SAMPLERS' (Signature) <i>Anthony D Murtaugh</i>			

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A.m.m. P.p.m.	SAMPLE TYPE		NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	C 6		
896224-L61	~~MW-1~~ MW-1	2/24/89	12:30	A	WATER	3	EPA-624-CLP
L62	MW-2	2/24/89	12:45	A		3	EPA-624-CLP
L63	MW-3	2/24/89	1:00	A		3	EPA-624-CLP
L64	MW-5	2/24/89	1:30	A		3	EPA-624-CLP
to	MW-6	2/24/89		A			EPA-624-CLP
L65	MW-8	2/24/89	1:45	A	✓	3	EPA-624-CLP
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
L66	Trip Banks			A		2	
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			

Turnaround Time		Laboratory Approval:	
Relinquished by: (Signature)		Received by: (Signature)	
Relinquished by: (Signature)		Received by: (Signature)	
Relinquished by: (Signature)		Received by: (Signature)	
Dispatched by: (Signature)		Date/Time	Received for Laboratory by:
			<i>Anthony D Murtaugh</i>
Method of Shipment:		Date/Time	
			2/24/89 4:45

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of \$10.00 per container for disposal.

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.

APPENDIX G

QA/QC DOCUMENTATION AND
DATA VALIDATION

DATA VALIDATION

<u>Sample No.</u>	<u>Lab No.</u>	<u>Analyses</u>
MW-1	890224-W01	VOA (CLP)
MW-2	890224-W02	VOA (CLP)
MW-3	890224-W03	VOA (CLP)
MW-5	890224-W04	VOA (CLP)
MW-8	890224-W05	VOA (CLP)
MW-6	890110-B01	VOA (624)
MW-6 DL	890110-B01 DL	VOA (624)
* MW-8	890110-B02	VOA (624)
Trip Blank	890110-B03	VOA (624)
MW-1	880708-B01	VOA (624)
MW-2	880708-B02	VOA (624)
MW-3	880708-B03	VOA (624)
MW-5	880708-B04	VOA (624)
Field Blank	880708-B05	VOA (624)
MW-5	880816-C01	VOA (624)
PER-1A	881118-E01	VOA (Non-CLP)
PER-1B	881118-E02	VOA (Non-CLP)
PER-2A	881118-E03	VOA (Non-CLP)
PER-2B	881118-E04	VOA (Non-CLP)
PER-3A	881118-E05	VOA (Non-CLP)
PER-3B	881118-E06	VOA (Non-CLP)
PER-4A	881118-E07	VOA (Non-CLP)
PER-4B	881118-E08	VOA (Non-CLP)
PER-5A	881118-E09	VOA (Non-CLP)
PER-5B	881118-E010	VOA (Non-CLP)
EX-SAM-1A	881118-E011	VOA (Non-CLP)
EX-SAM-1B	881118-E012	VOA (Non-CLP)
EX-SAM-2A	881118-E013	VOA (Non-CLP)
EX-SAM-2B	881118-E014	VOA (Non-CLP)
EX-SAM-3A	881118-E015	VOA (Non-CLP)
EX-SAM-3B	881118-E016	VOA (Non-CLP)
EX-SAM-4A	881118-E017	VOA (Non-CLP)
EX-SAM-4B	881118-E018	VOA (Non-CLP)

Data was reviewed for the following criteria:

- Holding Time
- Instrument Tuning
- Calibration
- Blank Analysis
- Surrogate Recovery
- Matrix Spike Recovery

The results of the validation process are presented below:

Holding Time - All samples were analyzed within the allowable holding time.

Instrument Tuning - All samples were analyzed within 12 hours of instrument tuning. Ion abundance criteria were met by all tunes except for the tune run on 1-18-89 7:33. This tune failed all criteria, and as result the data from the only associated sample, 890110-B02 (MW-8), must be rejected.

* The CLP software had mistakenly transferred the wrong results. The corrected results are included with this data validation section. See letter from Adirondack Environmental Services dated April 14, 1989.

Calibration - All initial calibrations met CCC and SPCC criteria. Some continuing calibrations exhibited a % D of greater than 25 for some compounds. In samples associated with these calibrations, positive results for those compounds with % D >25 are qualified with "J" and should be considered as estimated.

In some samples, positive results were well above the linear calibration range of the GC/MS. These results should be flagged with an "E" and be considered as estimated. The specific samples and compounds affected are listed at the end of this memo.

Blank Analysis - Blanks were analyzed at the proper frequency, and no blank contained any contaminant above allowable limits. The blank corresponding to sample 890224-W04 contained 12 ppb of acetone. The positive result for acetone in 890224-W04 is therefore negated after the dilution factor is applied. The positive result for methylene chloride in sample 890110-B01 DL is also negated due to the methylene chloride found in the associated blank.

Surrogate Recovery - All surrogate recoveries were within control limits except for one surrogate in sample 890110-B01 which was recovered above the upper limit. No action is necessary in this case.

Matrix Spike Recovery - Recoveries were within advisory limits and spikes and spike duplicates were run at the proper frequency.

<u>Sample #</u>	<u>Action</u>
890224-W04	Negate results for acetone. Qualify results for 1,1,1-TCA with "J."
890110-B01	Qualify results for carbon disulfide with "J."
890110-B01 DL	Negate results for methylene chloride. Qualify results for 1,1-Dichloroethane, 1,2-Dichloroethane, and Xylene with "J." Qualify results for 1,1,1-TCA with "E."
880708-B04	Qualify results for chloroethane with "J."
880816-C01	Qualify results for chloroethane, 1,1-Dichloroethane, 1,1,1-TCA, and Toluene with "E."
881118-E03,E05	Negate positive results for methylene chloride.
881118-E06,E08, E11	Qualify positive results for acetone with "J."
881118-E17	Qualify results for acetone and xylenes with "J."



P.O. Box 265
298 Riverside Avenue
Rensselaer, NY 12144
(518) 434-4546 / 434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

April 14, 1989
Malcolm Pirnie
4 Corporate Plaza
Washington Avenue Extension
Albany, New York 12203

Attention: Mr. Anthony Murtaugh

Re: Pole-Lite 890110B Project

Dear Tony:

The CLP software had inadvertantly transferred the wrong results for Monitoring Well #8 collected on January 9, 1989. The correct form and raw data are attached.

If I can be of any further assistance, please feel free to contact me at the above number.

Very truly yours,
ADIRONDACK ENVIRONMENTAL SERVICES, INC.

Frank Scuderi

Frank Scuderi
Laboratory Director

Encs.

cc: Paul Batista

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ADIR

Contract:

Lab Code: ADIR

Case No.:

SAS No.:

SDS No.:

Lab File ID: AT161

BFB Injection Date: 1/18/89

Instrument ID.: 7001A

BFB Injection Time: 7:33

Matrix: (soil/water) SOIL Level: (low/med): MED Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	56.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.8 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	82.1 (96.9)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1 VSTD050		AS187	1/18/89	7:50
2 VBLK		AB084	1/18/89	8:36
3 90109D01		A0912	1/18/89	10:35
4 90109D02		A0913	1/18/89	11:14
5 90109D03		A0914	1/18/89	11:54
6 90109D01		A0915	1/18/89	12:33
7 90109D02		A0916	1/18/89	13:12
8 90109D03		A0917	1/18/89	13:52
9 90109D04		A0918	1/18/89	14:31
10 90109D05		A0919	1/18/89	15:10
11 90109D06		A0920	1/18/89	15:49
12 90110I04		A0924	1/18/89	17:47
13 90110I05		A0925	1/18/89	18:26
14 90110I02		A0922	1/18/89	16:28
15				
16				
17				
18				
19				
20				
21				
22				

Choose an instrument via softkeys:

DATA ACQUIRE ver. 870120

>AT161 BFB 50NG INJ 6C/MS A
277 NRM NOM

File: >AT161 Scan #: 277 Retn. time: 6.88

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	7.143	49.00	4.704	68.00	12.195	81.00	6.446	95.95	7.143
39.00	8.188	50.00	21.777	69.00	18.990	86.85	1.916	173.90	84.669
39.90	19.861	51.00	8.188	73.00	8.188	90.95	3.659	175.10	6.794
40.90	8.711	55.00	7.491	74.00	18.293	91.95	3.484	175.90	82.056
43.00	15.157	57.00	8.537	75.00	56.446	92.95	4.007	176.90	5.401
43.90	38.153	61.00	6.272	76.00	5.923	93.95	13.066	206.95	5.226
45.00	10.801	62.00	4.007	79.00	6.794	94.95	100.000		

- CLP (Non-CLP)
- HSL (Priority Pollutant)

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA
ANALYSES

[illegible]



ORGANIC CASE NARRATIVE

PO Box 285

298 Riverdale Avenue

Rensselaer, NY 12144

(518) 434-4548

LABORATORY SAMPLE ID: 880708 B01-5 CLIENT SAMPLE ID: _____DATE RECEIVED: 7-8-88SHIPMENT PROBLEMS ENCOUNTERED: None

EXTRACTION DATE: BNA _____ Vol _____ EXTRACTOR ID: BNA _____ Vol _____

VOL./WT. EXT ID: _____ DILUTION FACTOR: _____

SURROGATE SPIKE: B/N Lot # _____ ul Spiked _____

Acid Lot # _____ ul Spiked _____

Volatile Lot # 807015 ul Spiked 10 pt

EXTRACTION PROBLEMS ENCOUNTERED: _____

ANALYSIS DATE: 7-12-88 ANALYST ID: AMINSTRUMENT ID: Semivol: _____ Volatiles: AVOL PURGED: 5 ml DILUTION FACTOR: 1.0TUNING FILE NAME: Semivol: _____ Volatiles: > B0712DAILY CAL STD FILE: Semivol: _____ Volatiles: > V0712

ANALYSIS PROBLEMS ENCOUNTERED: _____

Client requested EPA-624, so only the priority pollutant compounds were spiked into the standard.

Matrix Spike data supplied is from a sample project run 7-14-88 because client had not requested same.

CORRECTIVE ACTIONS: _____

Frank Sauer
LABORATORY MANAGER

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**

Lab Sample ID: **> B1708**

Sample Matrix: **Water**

Data release Authorized by: **Franz Sinden**

Sample Number **1**
880708 B01

Case No.: **NA**

IC Report No.: **1**

Contract No.: **99-99-99**

Date Sample Received: **7-8-88**

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted: **NA**

Date Analyzed: **7-12-88**

Conc/Oil factor: **-**

pH: **-**

Percent Moisture: (Not Decanted) **-**

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-27-3 Chloromethane	10. U	78-27-5 1,2-Dichloropropane	5. U
74-23-7 Bromomethane	10. U	10061-32-6 Trans-1,3-Dichloropropene	5. U
75-31-4 Vinyl Chloride	10. U	79-31-6 Trichloroethene	5. U
75-30-3 Chloroethane	10. U	124-48-1 Dibromochloromethane	5. U
75-39-2 Methylene Chloride	5. U	79-30-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	NA	71-43-2 Benzene	5. U
75-35-3 Carbon Disulfide	5. U	10061-31-5 cis-1,3-Dichloropropene	5. U
75-35-4 1,1-Dichloroethene	5. U	119-75-3 2-Chloroethylvinylether	10. U
75-34-3 1,2-Dichloroethane	5. U	75-25-2 Bromoform	5. U
156-60-5 Trans-1,2-Dichloroethane	5. U	108-10-1 4-Methyl-2-Pentanone	NA
67-66-3 Chloroform	5. U	591-78-6 2-Hexanone	NA
107-32-2 1,2-Dichloroethane	5. U	127-18-4 Tetrachloroethene	5. U
78-93-3 2-Butanone	NA	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-4 1,1,1-Trichloroethane	5. U	108-98-3 Toluene	5. U
56-23-6 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-45-4 Vinyl Acetate	NA	100-41-4 Ethylbenzene	5. U
75-27-4 Bromodichloromethane	5. U	100-42-5 Styrene	NA
		Total Xylenes	NA

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 12J). If limit of detection is 10 ug/L and a concentration of 5.1 ug/L is calculated, report as JJ.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ug/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **BOIRONDOX ENVIRONMENTAL**

Lab Sample ID: **82708**

Sample Matrix: **Water**

Data release Authorized by: *F. S. Schuler*

Sample Number 1

82708 822

Case No.: **NA**

Report No.: **1**

Contract No.: **99-99-99**

Date Sample Received: **7-8-88**

Volatile Compounds

Concentrations: Low Medium (Circle One)

Date Extracted: **-**

Date Analyzed: **7-12-88**

Cont./Oil factor: **-**

pH: **-**

Percent Moisture: (Not Decanted) **-**

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	18. U	78-87-5 1,2-Dichloropropane	5. U
74-83-9 Bromomethane	18. U	10061-32-6 Trans-1,3-Dichloropropene	5. U
75-31-4 Vinyl Chloride	18. U	79-31-6 Trichloroethene	5. U
75-38-3 Chloroethane	18. U	124-48-1 Dibromochloromethane	5. U
75-39-2 Methylene Chloride	5. U	79-38-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	NA	71-43-2 Benzene	5. U
75-15-3 Carbon Disulfide	5. U	10061-31-5 cis-1,3-Dichloropropene	5. U
75-35-6 1,1-Dichloroethane	5. U	110-75-3 2-Chloroethylvinylether	18. U
75-34-3 1,1-Dichloroethane	5. U	75-25-2 Bromoform	5. U
156-60-5 Trans-1,2-Dichloroethane	5. U	108-10-1 4-Methyl-2-Pentanone	NA
67-66-3 Chloroform	5. U	591-78-6 2-Hexanone	NA
127-92-2 1,2-Dichloroethane	5. U	127-18-4 Tetrachloroethene	5. U
78-93-3 2-Butanone	NA	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-6 1,1,1-Trichloroethane	5. U	108-18-3 Toluene	5. U
56-23-6 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-35-4 Vinyl Acetate	NA	100-41-4 Ethylbenzene	5. U
75-27-4 Bromochloromethane	5. U	100-42-5 Styrene	NA
		Total Xylenes	NA

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 18 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: AOTRODACK ENVIRONMENTAL

Lab Sample ID: 83708

Sample Matrix: Water

Data release Authorized by:

Frank Scuderi

Sample Number

880708 B03

Case No.: NA

Report No.: 1

Contract No.: 99-99-99

Date Sample Received: 7-8-88

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted: —

Date Analyzed: 7-12-88

Conc/Oil factor: —

pH: —

Percent Moisture: (Not Decanted) —

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-27-3 Chloromethane	10. U	78-27-5 1,2-Dichloropropane	5. U
74-33-9 Bromomethane	10. U	10061-32-6 Trans-1,3-Dichloropropene	5. U
75-31-4 Vinyl Chloride	10. U	79-31-6 Trichloroethene	5. U
75-30-3 Chloroethane	10. U	124-48-1 Dibromochloromethane	5. U
75-39-2 Methylene Chloride	5. U	79-30-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	NA	71-43-2 Benzene	5. U
75-15-3 Carbon Disulfide	5. U	10061-31-5 cis-1,3-Dichloropropene	5. U
75-35-4 1,1-Dichloroethene	5. U	110-75-3 2-Chloroethylvinylether	10. U
75-34-3 1,2-Dichloroethane	5. U	75-25-2 Bromoform	5. U
156-60-5 Trans-1,2-Dichloroethene	5. U	108-10-1 4-Methyl-2-Pentanone	NA
67-66-3 Chloroform	5. U	591-78-6 2-Hexanone	NA
107-32-2 1,2-Dichloroethane	5. U	127-19-4 Tetrachloroethene	5. U
78-33-3 2-Butanone	NA	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-6 1,1,1-Trichloroethane	5. U	108-38-3 Toluene	5. U
56-23-6 Carbon Tetrachloride	5. U	108-30-7 Chlorobenzene	5. U
108-35-4 Vinyl Acetate	NA	100-41-4 Ethylbenzene	5. U
75-27-4 Bromodichloromethane	5. U	100-42-5 Styrene	NA
		Total Xylenes	NA

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.1 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ADIRONDACK ENVIRONMENTAL

Lab Sample ID: 84708

Sample Matrix: water

Data release Authorized by:

Frank Scudder

Sample Number 1

880708 Box

Case No.: NA

IC Report No.: 1

Contract No.: 99-99-99

Date Sample Received: 7-12-88

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted: —

Date Analyzed: 7-12-88

Conc/Oil factor: —

pH: —

Percent Moisture: (Not Decanted) —

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	10. U	78-27-5 1,2-Dichloropropane	5. U
74-83-9 Bromomethane	10. U	10061-92-6 Trans-1,3-Dichloropropene	5. U
75-31-4 Vinyl Chloride	10. U	79-31-6 Trichloroethene	5. U
75-30-3 Chloroethane	29. U	124-48-1 Dibromochloroethane	5. U
75-39-2 Methylene Chloride	5. U	79-30-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	NA	71-43-2 Benzene	5. U
75-15-3 Carbon Disulfide	5. U	10061-91-5 cis-1,3-Dichloropropene	5. U
75-35-4 1,1-Dichloroethane	165. U	110-75-3 2-Chloroethylvinylether	10. U
75-34-3 1,1-Dichloroethane	3400. U	75-25-2 Bromoform	5. U
156-60-5 Trans-1,2-Dichloroethane	5. U	108-10-1 4-Methyl-2-Pentanone	NA
67-66-3 Chloroform	8. U	591-78-6 2-Hexanone	NA
107-92-2 1,2-Dichloroethane	140. U	127-18-4 Tetrachloroethane	5. U
78-33-3 2-Butanone	NA	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-6 1,1,1-Trichloroethane	4900. U	108-38-3 Toluene	27. U
56-23-6 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-35-4 Vinyl Acetate	NA	100-41-4 Ethylbenzene	5. U
75-27-4 Bromodichloromethane	5. U	100-42-5 Styrene	NA
		Total Xylenes	NA

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ug/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**

Lab Sample ID: **> D8578**

Sample Matrix: **Water**

Data release Authorized by: **Frank Seiden**

Sample Number: **1**

880708 BGS

Case No.: **NA**

Report No.: **1**

Contract No.: **99-99-99**

Date Sample Received: **7-8-88**

Volatile Compounds

Concentration: **Low** Medium (Circle One)

Date Extracted: **—**

Date Analyzed: **7-12-88**

Contaminant Factor: **—**

pH: **—**

Percent Moisture: (Not Decanted) **—**

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	10. U	78-87-5 1,2-Dichloropropane	5. U
74-83-9 Bromomethane	10. U	10061-92-6 Trans-1,3-Dichloropropene	5. U
75-31-4 Vinyl Chloride	10. U	79-31-6 Trichloroethene	5. U
75-30-3 Chloroethane	10. U	124-48-1 Dibromochloromethane	5. U
75-39-2 Ethylene Chloride	5. U	79-30-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	NA	71-43-2 Benzene	5. U
75-15-3 Carbon Disulfide	5. U	10061-91-5 cis-1,3-Dichloropropene	5. U
75-75-4 1,1-Dichloroethane	5. U	110-75-3 2-Chloroethylvinylether	10. U
75-74-3 1,1-Dichloroethane	5. U	75-25-2 Bromoform	5. U
156-60-5 Trans-1,2-Dichloroethane	5. U	108-10-1 4-Methyl-2-Pentanone	NA
67-66-3 Chloroform	5. U	591-78-6 2-Hexanone	NA
107-92-2 1,2-Dichloroethane	5. U	127-18-4 Tetrachloroethane	5. U
78-33-3 2-Butanone	NA	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-6 1,1,1-Trichloroethane	5. U	108-18-3 Toluene	5. U
56-23-6 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-35-4 Vinyl Acetate	NA	100-41-4 Ethylbenzene	5. U
75-27-4 Bromodichloromethane	5. U	100-42-5 Styrene	NA
		Total Xylenes	NA

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action (this is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 33.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

Single component pesticides >= 10 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number 1
Purge Blank!

Laboratory Name: AORONACK ENVIRONMENTAL

Lab Sample ID: K0712

Sample Matrix: Water

Data release Authorized by:

Frank Scuden

Case No.: NA

IC Report No.: 1

Contract No.: 99-99-99

Date Sample Received: 7-12-88

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted:

Date Analyzed: 7-12-88

Contaminant factor: pH:

Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-37-3 Chloroethane	10. U	78-27-5 1,2-Dichloropropane	5. U
74-33-9 Bromoethane	10. U	10061-32-4 Trans-1,3-Dichloropropene	5. U
75-31-4 Vinyl Chloride	10. U	79-31-4 Trichloroethene	5. U
75-30-3 Chloroethane	10. U	124-48-1 Dibromochloromethane	5. U
75-39-2 Methylene Chloride	5. U	79-30-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	NA	71-43-2 Benzene	5. U
75-15-3 Carbon Disulfide	5. U	10061-31-5 cis-1,3-Dichloropropene	5. U
75-35-4 1,1-Dichloroethane	5. U	110-75-4 2-Chloroethylvinylether	10. U
75-34-3 1,1-Dichloroethane	5. U	75-25-2 Bromoform	5. U
156-60-5 Trans-1,2-Dichloroethane	5. U	108-10-1 4-Methyl-2-Pentanone	NA
67-66-3 Chloroform	5. U	591-78-4 2-Hexanone	NA
107-32-2 1,2-Dichloroethane	5. U	127-18-4 Tetrachloroethene	5. U
78-33-3 2-Butanone	NA	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-4 1,1,1-Trichloroethane	5. U	108-38-3 Toluene	5. U
56-23-4 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-45-4 Vinyl Acetate	NA	100-41-4 Ethylbenzene	5. U
75-27-4 Bromochloromethane	5. U	100-42-5 Styrene	NA
		Total Xylenes	NA

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.0 ug/L is calculated, report as 33.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. : NA

Contractor : ADIRONDACK ENVIRONMENTAL

Contract No. : 79-79-79

VOLATILE				SEMI VOLATILE						PEST
NO	Toluene d-8 (88-110)	Bromofluo- benzene (86-115)	1,2-Dichlo- roethane-d4 (76-114)	Nitro- benzene-d5 (35-114)	2-Fluoro- biphenyl (43-116)	Terpenyl- d-14 (33-141)	Phenol- d-5 (10-94)	2-Fluoro- phenol (21-100)	12,4,6-Tri- bromophenol (10-123)	Dibutylchl- lorendate ** (24-154)
801	89	90	87							
802	100	100	97							
803	104	102	103							
804	90	91	81							
805	94	102	110							
806	99	101	101							
807	109	101	89							
808	89	87	79							

• VALUES ARE OUTSIDE OF CONTRACT REQUIRED GC LIMITS

•• ADVISORY LIMITS ONLY.

Volatiles: 0 out of 24 : outside of α limits
Semi-Volatiles: out of : outside of α limits
Pesticides: out of : outside of α limits

Comments:

WATER MATRIX SPIKE - MATRIX SPIKE DUPLICATE RECOVERY

Case No. :

Contractor : HOIRONOACK ENVIRONMENTAL

Contract No. : 99-90-30

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MED	% REC	RPD	RPD	QC LIMITS *
VOA	1,1-Dichloroethene	50	-	54	108	52	104	4	14	61-150 *
SHO	Trichloroethene	50	-	44	88	48	96	9	14	71-120 *
SAMPLE NO	Chlorobenzene	50	-	44	88	47	94	7	13	75-130 *
880711	Toluene	50	-	48	97	50	100	3	13	76-130 *
A04	Benzene	50	-	55	110	52	104	6	11	76-130 *
	1,2,4-Trichlorobenzene	50								
B/N	Acenaphthene	50								
SHO	2,4-Dinitrotoluene	50								
SAMPLE NO	Pyrene	50								
	N-Nitroso-Di-n-Propylamine	50								
	1,4-Dichlorobenzene	50								
ACID	Pentachlorophenol	100								
SHO	Phenol	100								
SAMPLE NO	2-Chlorophenol	100								
	3-Chloro-3-Methylphenol	100								
	4-Nitrophenol	100								
	Lindane	0.5								
PEST	Heptachlor	0.5								
SHO	Aldrin	0.5								
SAMPLE NO	Dieldrin	1								
	Endrin	1								
	2,4'-DDT	1								

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs 3 out of 5; outside QC limits

B/N 0 out of 0; outside QC limits

ACID 0 out of 0; outside QC limits

PEST 0 out of 0; outside QC limits

RECOVERY: VOAs 0 out of 10; outside QC limits

B/N 0 out of 0; outside QC limits

ACID 0 out of 0; outside QC limits

PEST 0 out of 0; outside QC limits

Comments: Matrix Spike data supplied is from spikes of another project sample run 7/14/88. This occurred because client requested EPA-624 for project 880708 B, and matrix spikes were not run on this sample set.

INITIAL CALIBRATION DATA

Volatile HSL Compounds

Case No.: N/A
Contractor: Aircor Environmental
Contractor No.: 88-39-99

Instrument ID: A
Calibration Date: 880308 09:37

Minimum RF for SPCC is 0.500
(0.25 for Bromoform)

Maximum XRSO for CCC is 30%

Laboratory ID:	>U2307	>U0307	>U1307	>U4307	>U3307			CCC
Compound	RF20	RF50	RF100	RF150	RF200	RF	XRSO	SPCC
Chloromethane	.4849	.4519	.4692	.4256	.4320	.4527	5.58	••
Bromomethane	1.3477	1.2844	1.2164	1.0832	1.0834	1.2030	9.87	•
Vinyl Chloride	.7256	.7183	.7027	.6518	.6154	.6828	6.94	•
Chloroethane	.5022	.4852	.4634	.4492	.4541	.4708	4.74	•
Methylene Chloride	1.7491	1.2575	1.1219	1.0202	.9945	1.2286	25.13	•
Acetone	.1954	.1948	.1484	.1139	.0950	.1495	30.64	•
Carbon Disulfide	2.1126	1.4259	1.9982	1.9187	1.5100	1.7931	17.08	•
1,1-Dichloroethene	1.0965	1.1618	1.0268	.9947	.9711	1.0502	7.45	••
1,1-Dichloroethane	1.8899	1.3131	1.7347	1.6971	1.6450	1.7560	5.51	••
Trans-1,2-Dichloroethene	1.1519	1.1573	1.0853	1.0671	1.0371	1.0997	4.82	•
Chloroform	2.9622	2.8363	2.7713	2.7538	2.6486	2.7944	4.13	•
1,2-Dichloroethane	1.7897	1.7930	1.7959	1.7668	1.7412	1.7773	1.31	•
2-Butanone	.0840	.0816	.0803	.0728	.0575	.0752	14.27	•
1,1,1-Trichloroethane	2.5998	2.5690	2.4609	2.4294	2.3863	2.4891	3.68	•
Carbon Tetrachloride	2.5316	2.6944	2.6398	2.5689	2.6380	2.6145	2.46	•
Vinyl Acetate	.1764	.1718	.1822	.1690	.1278	.1654	13.07	•
Bromodichloromethane	2.6577	2.7276	2.7325	2.6604	2.6578	2.6872	1.46	•
1,2-Dichloropropane	.3295	.3140	.3014	.3151	.3073	.3135	3.36	•
Trans-1,3-Dichloropropene	.7874	.7693	.7296	.7774	.7621	.7652	2.88	•
Trichloroethene	.6035	.5569	.5248	.5539	.5456	.5569	5.18	•
Dibromochloromethane	.6946	.6906	.6919	.7367	.7327	.7093	3.28	•
1,1,2-Trichloroethane	.4268	.4131	.4006	.4174	.3981	.4112	2.91	•
Benzene	.8777	.8191	.7636	.7985	.7659	.8050	5.82	•
cis-1,3-Dichloropropene	.4258	.4012	.4027	.4179	.4091	.4113	2.54	•
2-Chloroethoxyvinylether	.2119	.2078	.2031	.2086	.1991	.2061	2.45	•
Bromoform	.6200	.6200	.6555	.6764	.6744	.6492	4.30	••
4-Methyl-2-Pentanone	.0555	.0585	.0564	.0519	.0408	.0526	13.39	•
2-Hexanone	.0314	.0339	.0298	.0286	.0233	.0294	13.43	•
Tetrachloroethene	.6941	.6744	.6211	.6369	.6209	.6495	5.10	••
1,1,1,2-Tetrachloroethane	.7202	.6731	.6788	.6707	.6420	.6769	4.15	••
Toluene	.7554	.7122	.6558	.6628	.6429	.6858	6.84	•
Chlorobenzene	1.0459	1.0257	.9848	1.0047	.9550	1.0032	3.52	••
Ethylbenzene	.5127	.4663	.4346	.4368	.4214	.4544	8.03	•
Styrene	1.3110	.3203	.9152	.3202	.7047	.8943	12.67	•
Total Aromatics	.5894	.5559	.5154	.5170	.4003	.5116	13.58	•

RF - Response Factor (subscript is the amount of ug/L)

CCC - Calibration Check Compounds (•)

RF - Average Response Factor

SPCC - System Performance Check Compounds (••)

XRSO - Percent Relative Standard Deviation

CONTINUING CALIBRATION CHECK

Volatile NSL Compounds

Case No.: 9A Region: U
 Contractor: ROIRONOACK ENVIRONMENTAL
 Contractor No.: 29-39-99
 Instrument ID: A

Calibration Date: 880609 11:50
 Time: 880712 09:35
 Laboratory ID: 000712:04
 Initial Calib Date: 880308

Compound	RF	RFSD	CD	CCC	SPCC
Chloromethane	.4527	.600	27.9		..
Bromomethane	1.2030	1.492	21.4		
Vinyl Chloride	.6828	.8063	16.6		
Chloroethane	.4708	.557	16.7		
Methylene Chloride	1.3286	1.185	3.6		
Acetone	.1495	-	-		
Carbon Disulfide	1.7931	-	-		
1,1-Dichloroethene	1.0502	1.156	9.6		
1,1-Dichloroethane	1.7568	1.802	3.2		..
trans-1,2-Dichloroethene	1.3997	1.213	7.8		
Chloroform	2.7944	2.604	7.0		
1,2-Dichloroethane	1.7773	1.523	15.4		
2-Pentanone	.3752	-	-		
1,1,1-Trichloroethane	2.4991	2.195	12.6		
Carbon Tetrachloride	2.5145	1.976	27.8		
Vinyl Acetate	.1651	-	-		
Bromodichloromethane	2.5872	2.343	13.7		
1,2-Dichloropropane	.3135	.340	8.0		
trans-1,2-Dichloropropene	.7652	.744	2.8		
Trichloroethene	.5569	.525	5.9		
Bromochloromethane	.7093	.522	30.4		
1,1,2-Trichloroethane	.4112	.383	7.1		
Benzene	.3050	.874	8.2		
cis-1,2-Dichloropropene	.4113	.268	42.1		
2-Chloroethoxyvinyl ether	.2061	.195	5.5		
Bromoform	.6492	.696	7.0		..
4-Methyl-2-Pentanone	.3526	-	-		
2-Hexanone	.3294	-	-		
Tetrachloroethene	.5495	.582	11.0		
1,1,1,2-Tetrachloroethane	.5769	.629	7.4		..
Toluene	.5653	.704	10.8		
Dichlorobenzene	1.0032	1.045	4.1		..
Trichlorobenzene	.4544	.491	7.8		
Styrene	.3943	-	-		
Total Alkenes	.5116	-	-		

RFSD - Response Factor from daily standard file
 at 50 µg/L

RF - Average Response Factor from initial Calibration Form 11

CD - Percent Difference

CCC - Calibration Check Compounds (..)

SPCC - System Performance Check Compounds (..)

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA
ANALYSES

page 4 of 7



GC/MS
ORGANIC CASE NARRATIVE

P.O. Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4548

LABORATORY SAMPLE ID: 880816 C01 CLIENT SAMPLE ID: mw-5

DATE RECEIVED: 8-16-88

SHIPMENT PROBLEMS ENCOUNTERED: _____

EXTRACTION DATE: NA EXTRACTOR ID: _____

VOL. EXTRACTED: _____ DILUTION FACTOR: _____

SURROGATE SPIKE: B/N Lot # _____ ul Spiked _____

Acid Lot # _____ ul Spiked _____

Volatile Lot # 808085 ul Spiked 10 ul

EXTRACTION PROBLEMS ENCOUNTERED: _____

ANALYSIS DATE: 8-17-88 ANALYST ID: JH

INSTRUMENT ID: Semivol: _____ Volatiles: A

VOL. PURGED: 5 ml DILUTION FACTOR: -

TUNING FILE NAME: Semivol: - Volatiles: >B0817

DAILY CALI STD FILE: Semivol: - Volatiles: >V0817

ANALYSIS PROBLEMS ENCOUNTERED: None

CORRECTIVE ACTIONS: None

Frank Sanderi
LABORATORY MANAGER

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **880816 CO1**
Sample Matrix: **Water**
Data release Authorized by: *Frank Schuler*

Sample Number 1
880816 CO1

Case No.: **NA**
QC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received:

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted:
Date Analyzed: **8-17-88**
Conc/Oil factor: pH:
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	10. U	78-87-5 1,2-Dichloropropane	5. U
74-83-9 Bromomethane	10. U	10061-02-6 Trans-1,3-Dichloropropene	5. U
75-01-4 Vinyl Chloride	10. U	79-01-6 Trichloroethene	5. U
75-08-3 Chloroethane	560.	124-48-1 Dibromochloromethane	5. U
75-09-2 Methylene Chloride	5. U	79-08-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	126.8	71-43-2 Benzene	5. U
75-15-3 Carbon Disulfide	5. U	10061-01-5 cis-1,3-Dichloropropene	5. U
75-35-4 1,1-Dichloroethene	140.	110-75-8 2-Chloroethylvinylether	10. U
75-34-3 1,1-Dichloroethane	1400.	75-25-2 Bromoform	5. U
156-68-5 Trans-1,2-Dichloroethane	5. U	108-10-1 4-Methyl-2-Pentanone	10. U
67-66-3 Chloroform	5. U	591-78-6 2-Hexanone	10. U
107-02-2 1,2-Dichloroethane	17.	127-18-4 Tetrachloroethane	5. U
78-93-3 2-Butanone	68.	79-74-5 1,1,2,2-Tetrachloroethane	5. U
71-55-6 1,1,1-Trichloroethane	6100.	108-38-3 Toluene	370.
56-23-6 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-35-4 Vinyl Acetate	10. U	100-41-4 Ethylbenzene	5. U
75-27-4 Bromodichloromethane	5. U	100-42-5 Styrene	5. U
		Total Xylenes	189.

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ADIRONDACK ENVIRONMENTAL

Lab Sample ID: 880816 602

Sample Matrix: water

Data release Authorized by: Frank Lunden

Sample Number 1

True Blank

Case No.: NA

QC Report No.: 1

Contract No.: 99-99-99

Date Sample Received:

Volatile Compounds

Concentrations: Low Medium (Circle One)

Date Extracted:

Date Analyzed: 8-15-88

Conc/Dil factor:

pH: —

Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloroethane	10. U	78-87-5 1,2-Dichloropropane	5. U
74-83-9 Bromoethane	10. U	10061-02-6 Trans-1,3-Dichloropropene	5. U
75-31-4 Vinyl Chloride	10. U	79-01-4 Trichloroethane	5. U
75-38-3 Chloroethane	10. U	124-48-1 Dibromochloroethane	5. U
75-09-2 Methylene Chloride	8	79-08-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	6 J	71-43-2 Benzene	5. U
75-15-8 Carbon Disulfide	7. U	10061-01-5 cis-1,3-Dichloropropene	5. U
75-35-4 1,1-Dichloroethane	5. U	110-75-8 2-Chloroethylvinylether	10. U
75-34-3 1,1-Dichloroethane	5. U	75-25-2 Bromoform	5. U
156-68-5 Trans-1,2-Dichloroethane	5. U	108-10-1 4-Methyl-2-Pentanone	10. U
67-66-3 Chloroform	5. U	591-78-6 2-Hexanone	10. U
107-02-2 1,2-Dichloroethane	5. U	127-18-4 Tetrachloroethane	5. U
78-93-3 2-Butanone	10. U	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-6 1,1,1-Trichloroethane	5. U	108-38-3 Toluene	5. U
56-23-6 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-35-4 Vinyl Acetate	10. U	108-41-4 Ethylbenzene	5. U
75-27-4 Bromodichloroethane	5. U	108-42-5 Styrene	5. U
		Total Xylenes	5. U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **K0817**
Sample Matrix: **Water**
Data release Authorized by: *Fresh Scuderi*

Sample Number **1**
Pure Blank!

Case No.: **NA**
QC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received:

Volatile Compounds

Concentrations: Low Medium (Circle One)
Data Extracted: **-**
Data Analyzed: **8-17-88**
Conc/Oil Factor: **-** pH: **-**
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	18. U	78-87-5 1,2-Dichloropropane	5. U
74-83-9 Bromomethane	18. U	10861-82-6 Trans-1,3-Dichloropropene	5. U
75-81-4 Vinyl Chloride	18. U	79-81-6 Trichloroethene	5. U
75-88-3 Chloroethane	18. U	124-48-1 Dibromochloromethane	5. U
75-09-2 Methylene Chloride	11	79-08-5 1,1,2-Trichloroethane	5. U
67-64-1 Acetone	6 J	71-43-2 Benzene	5. U
75-15-8 Carbon Disulfide	5. U	10861-81-5 cis-1,3-Dichloropropene	5. U
75-35-4 1,1-Dichloroethene	5. U	118-75-3 2-Chloroethylvinylether	18. U
75-34-3 1,1-Dichloroethane	5. U	75-25-2 Bromoform	5. U
156-68-5 Trans-1,2-Dichloroethene	5. U	108-10-1 4-Methyl-2-Pentanone	18. U
67-66-3 Chloroform	5. U	591-78-6 2-Hexanone	18. U
107-02-2 1,2-Dichloroethane	5. U	127-18-4 Tetrachloroethene	5. U
78-93-3 2-Butanone	18. U	79-34-5 1,1,2,2-Tetrachloroethane	5. U
71-55-6 1,1,1-Trichloroethane	5. U	108-38-3 Toluene	5. U
56-23-6 Carbon Tetrachloride	5. U	108-90-7 Chlorobenzene	5. U
108-35-4 Vinyl Acetate	18. U	108-41-4 Ethylbenzene	5. U
75-27-4 Bromodichloromethane	5. U	108-42-5 Styrene	5. U
		Total Xylenes	5. U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 18 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 18 ug/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. : NA

Contractor : ADIRONDACK ENVIRONMENTAL

Contract No. : 79-79-99

[illegible]

VALUES ARE OUTSIDE OF CONTRACT REQUIRED OC LIMITS
• ADVISORY LIMITS ONLY

Volatiles: _____ out of _____ ; outside of σ limits
Semi-Volatiles: _____ out of _____ ; outside of σ limits
Pesticides: _____ out of _____ ; outside of σ limits

[illegible]

WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : NA

Contractor : ADIRONDAK ENVIRONMENTAL

Contract No. : 99-09-09

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPO	RPO	QC LIMITS *
VOA	1,1-Dichloroethene	50	140	183	86	177	74	15*	14	61-145
SHD	Trichloroethene	50	=	52	104	52	104	0	14	71-128
SAMPLE NO	Chlorobenzene	50	-	49	98	54	106	8	13	75-138
880914 COI	Toluene	50	370	407	74*	410	80	8	13	76-125
1234-5678	Benzene	50	-	51	102	51	102	0	11	76-127
B/N	1,2,4-Trichlorobenzene								28	39-98
SHD	Acenaphthene								31	46-118
SAMPLE NO	2,4-Dinitrotoluene								38	24-96
	Pyrene								31	26-127
	N-Nitroso Di-n-Propylamine								38	41-116
1234-5678	1,4-Dichlorobenzene								28	36-97
ACID	Pentachlorophenol								58	9-103
SHD	Phenol								42	12-39
SAMPLE NO	2-Chlorophenol								40	27-123
	4-Chloro-3-Methylphenol								42	23-97
234-5678	4-Nitrophenol								58	10-38
	Lindane								15	56-123
PEST	Heptachlor								20	40-131
SHD	Aldrin								22	40-120
SAMPLE NO	Dieldrin								18	52-126
	Endrin								21	56-121
1234-5678	4,4'-DDT								27	38-127

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPO: VOAs 1 out of 5; outside QC limits
 B/N out of ; outside QC limits
 ACID out of ; outside QC limits
 PEST out of ; outside QC limits

RECOVERY: VOAs 1 out of 10; outside QC limits
 B/N out of ; outside QC limits
 ACID out of ; outside QC limits
 PEST out of ; outside QC limits

Comments: _____

METHOD BLANK SUMMARY

Case No. : NA

Region : IV

Contractor : ADIRONDACK ENVIRONMENTAL

Contract No. : 99-99-39

[illegible]**agents :**

4-Bromofluorobenzene (BFB)

Contractor AIRBORNEPACK ENVIRO Contract No. 99-99-99

Date / Time 8/17/88 8:29

Data Release Authorized By:

8:28
Frank S. Lueder

m/z	ION ABUNDANCE CRITERIA	RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	16.12 OK
75	50.0 - 60.0% of the base peak	45.83 OK
95	Base peak, 100% relative abundance	100.00 OK
96	5.0 - 9.0% of the base peak	7.72 OK
173	less than 1.0% of base peak	0.00 OK
174	greater than 50.0% of the base peak	84.23 OK
175	5.0 - 9.0% of mass 174	6.56 OK (7.788) 81
176	between 95.0 and 101.0% of mass 174	84.90 OK (100.8) 81
177	5.0 - 9.0% of mass 176	5.78 OK (6.812) 82

01 - Value in parenthesis is I mass 174.
02 - Value in parenthesis is I mass 176.

[illegible]

INITIAL CALIBRATION DATA

Volatile HSL Compounds

Case No.: NA
 Region: IU
 Contractor: Air-Research Environmental
 Contractor No.: 99-99-99

Instrument ID: A
 Calibration Date: 390308 09:37

Minimum RF for SPC is 0.300
 (0.25 for Bromoform)

Maximum RSD for CCC is 500

Laboratory ID :	002307	003307	001307	004307	003307			CCC
Compound	RF20	RF50	RF100	RF150	RF200	RF	RSD	SPC
Chloroethane	.4849	.4519	.4632	.4256	.4320	.4527	5.50	••
Bromoethane	1.3477	1.2844	1.2164	1.0832	1.0834	1.2030	9.87	•
Vinyl Chloride	.7256	.7183	.7027	.6518	.6154	.6820	6.94	•
Chloroethane	.5022	.4852	.4634	.4492	.4541	.4700	4.74	•
Methylene Chloride	1.7491	1.2575	1.1219	1.0202	.9945	1.2286	25.13	•
Acetone	.1954	.1948	.1484	.1139	.0950	.1495	38.64	•
Carbon Disulfide	2.1126	1.4259	1.9982	1.9187	1.5100	1.7931	17.08	•
1,1-Dichloroethane	1.0965	1.1618	1.0268	.9947	.9711	1.0502	7.45	••
1,1-Dichloroethane	1.3899	1.8131	1.7347	1.5371	1.6450	1.7550	5.51	••
Trans-1,2-Dichloroethane	1.1519	1.1573	1.0853	1.0671	1.0371	1.0997	4.82	•
Chloroform	2.9622	2.8363	2.7713	2.7538	2.6486	2.7344	4.13	•
1,2-Dichloroethane	1.7897	1.7930	1.7959	1.7668	1.7412	1.7773	1.31	•
2-Butanone	.0840	.0816	.0803	.0728	.0575	.0752	14.27	•
1,1,1-Trichloroethane	2.5998	2.5630	2.4609	2.4294	2.3863	2.4991	3.68	•
Carbon Tetrachloride	2.5516	2.5944	2.6398	2.5689	2.6388	2.5145	2.46	•
Vinyl Acetate	.1764	.1718	.1822	.1690	.1278	.1654	13.07	•
Bromochloromethane	2.6577	2.7276	2.7325	2.6604	2.6578	2.6872	1.46	•
1,2-Dichloropropane	.3295	.3140	.3014	.3151	.3073	.3135	3.36	•
Trans-1,3-Dichloropropene	.7874	.7693	.7296	.7774	.7621	.7652	2.98	•
Trichloroethene	.5035	.5569	.5248	.5539	.5456	.5569	5.18	•
Dibromochloromethane	.6946	.6906	.6919	.7367	.7327	.7093	3.28	•
1,1,2-Trichloroethane	.4268	.4131	.4006	.4174	.3981	.4112	2.91	•
Benzene	.9777	.3191	.7636	.7985	.7659	.9050	5.82	•
cis-1,3-Dichloropropene	.4258	.4012	.4027	.4179	.4091	.4113	2.54	•
2-Chloroethoxyvinylether	.2119	.2078	.2031	.2086	.1991	.2061	2.45	••
Bromoform	.6200	.6200	.6555	.6764	.6744	.6492	4.30	••
4-Methyl-2-Pentanone	.0555	.0585	.0564	.0519	.0408	.0525	13.39	•
2-Hexanone	.0314	.0339	.0298	.0286	.0233	.0294	13.43	•
Tetrachloroethene	.6941	.6744	.6211	.6369	.6209	.6495	5.10	••
1,1,2,2-Tetrachloroethane	.7202	.6731	.6788	.6707	.6420	.6769	4.15	••
Toluene	.7554	.7122	.6558	.6628	.6429	.6853	6.84	•
Chlorobenzene	1.0459	.9257	.9848	1.0047	.9550	1.0052	3.52	••
Ethylbenzene	.5127	.4663	.4346	.4358	.4214	.4544	9.03	•
Styrene	1.3110	.3203	.9152	.3202	.7047	.6943	12.57	•
Total Xlenes	.5594	.5559	.5154	.5170	.4003	.5116	13.50	•

RF - Response Factor (subscript is the amount of ug/L)

CCC - Calibration Check Compounds (•)

RF - Average Response Factor

SPC - System Performance Check Compounds (••)

RSD - Percent Relative Standard Deviation

CONTINUING CALIBRATION CHECK
Volatile HSL Compounds

Case No.: NA Region: IV
Contractor: ADIRONDACK ENVIRONMENTAL
Contractor No.: 99-99-99
Instrument ID: A

Calibration Date: 880609 11:50
Time: 880817 13:24
Laboratory ID: X0817:03
Initial Calib Date: 880609

Minimum RF for SPCC is 0.300
(0.25 for Bromoform)

Maximum XD for CCC is 25%

Compound	RF	RF50	XD	CCC	SPCC
Chloromethane	.4527	.4057	10.39		• •
Bromomethane	1.2030	1.3019	8.22		
Vinyl Chloride	.6828	.6082	10.93	•	
Chloroethane	.4708	.5598	18.91		
Methylene Chloride	1.2286	1.6133	33.75		
Acetone	.1495	.1772	18.56		
Carbon Disulfide	1.7931	1.9360	2.39		
1,1-Dichloroethene	1.0502	1.1709	11.49	•	
1,1-Dichloroethane	1.7560	1.9082	8.67		• •
Trans-1,2-Dichloroethene	1.0997	1.3519	22.93		
Chloroform	2.7944	2.4981	10.60	•	
1,2-Dichloroethane	1.7773	1.3568	23.66		
2-Butanone	.0752	.0665	11.54		
1,1,1-Trichloroethane	2.4891	1.7223	30.81		
Carbon Tetrachloride	2.6145	1.6365	37.41		
Vinyl Acetate	.1654	.1147	30.64		
Bromodichloromethane	2.6872	2.4251	9.75		
1,3-Dichloropropane	.3135	.3598	14.78	•	
Trans-1,3-Dichloropropene	.7652	.6400	16.36		
Trichloroethene	.5569	.4438	20.31		
Dibromochloromethane	.7093	.2929	58.70		
1,1,2-Trichloroethane	.4112	.3097	24.70		
Benzene	.8050	.9412	16.92		
cis-1,3-Dichloropropene	.4113	.3077	25.19		
2-Chloroethylvinylether	.2061	.1726	16.23		
Bromoform	.6492	.4710	27.45		• •
4-Methyl-2-Pentanone	.0526	.0379	27.95		
2-Hexanone	.0294	.0266	9.52		
Tetrachloroethene	.5495	.4422	31.92		
1,1,2,2-Tetrachloroethane	.6769	.4226	37.57		• •
Toluene	.6858	.7293	6.34	•	
Chlorobenzene	1.0032	.3163	8.66		• •
Ethylbenzene	.4544	.4596	1.15	•	
Styrene	.9943	.9421	5.35		
Total Xylenes	.5116	.4053	20.78		

RF50 - Response factor from daily standard file
at 50 ug/L

RF - Average Response factor from Initial Calibration Form VI

XD - Percent Difference

CCC - Calibration Check Compounds (•)

SPCC - System Performance Check Compounds (• •)



P.O. Box 265
298 Riverside Avenue
Rensselaer, NY 12144
(518) 434-4546 / 434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

LABORATORY REPORT

for

Pole-Lite Industries
RD-1 Box 143
Champlain, NY 12919 9718

Attention: Mr. Antonio Gagliardi

Report date: 05/05/89
Number of samples analyzed: 18
AES Project ID: 881118 E

CC: Malcom Pernie

Revised Copy



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ORGANIC CASE NARRATIVE

Project: Potable Project 88118 E

The following case narrative refers to all samples noted on the
ORGANIC Sample Identification and Analytical Requirement Summary form.

Date Received: 11-18-88 Contract Number: N/A

Shipping Problems Encountered: NONE

Extraction Problems Encountered: NONE

Analysis Problems Encountered: NONE

Comments: All results and detection limits are reported on a
wet weight basis.

Frank Scuderi
Laboratory Director



C.C. Malcolm Fernie

P.O. Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME

SAMPLERS: (Signature)

Pole-Lite, Champlain NY. (MPI)

Anthony C. Mustang

SAMPLE NUMBER

SAMPLE IDENTIFICATION & LOCATION

DATE

TIME
A = a.m.
P = p.m.

SAMPLE TYPE
MATRIX

COMP
GRAB

NUMBER
OF
CONT'S

ANALYSIS REQUIRED

Per-1A	Per-1A (.5-1')	11/17/88	A	Soil	✓	2	8240
Per-1B	Per-1B (2.-3')		P		✓	2	
Per-2A	Per-2A (.5-1')		P		✓	2	
Per-2B	Per-2B (2.-3')		P		✓	2	
Per-3A	Per-3A (.5-1')		P		✓	2	
Per-3B	Per-3B (2.-3')		P		✓	2	
Per-4A	Per-4A (.5-1')		P		✓	2	
Per-4B	Per-4B (2.-3')		P		✓	2	
Per-5A	Per-5A (.5-1')		P		✓	2	
Per-5B	Per-5B (2.-3')	✓	P	✓	✓	2	✓
			A				
			P				
			A				
			P				

Relinquished by: (Signature)

Anthony C. Mustang

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by Mobile Laboratory for field analysis: (Signature)

Date/Time

Dispatched by: (Signature)

Date/Time

Received for Laboratory by:

Date/Time

Method of Shipment:

See N. (See P. 10)

11/81 8:05

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WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

A



P.O. Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME

Pole-Lite Champlain, N.Y. (MPI)

SAMPLERS: (Signature)

Anthony D. Munte

18-E

SAMPLE NUMBER

SAMPLE IDENTIFICATION & LOCATION

DATE

TIME
A = a.m.
P = p.m.

SAMPLE TYPE
MATRIX

SOIL
GRAB

NUMBER
OF
CONT'S

ANALYSIS REQUIRED

EX SAM-1A	EX SAM-1A(.5-1')	11/16/88	A	Soil	1	EPA-8240
EX SAM-1B	EX SAM-1B(2-3')		A		2	
EX SAM-2A	EX SAM-2A(.5-1')		A		2	
EX SAM-2B	EX SAM-2B(2-3')		A		2	
EX SAM-3A	EX SAM-3A(.5-1')		A		2	
EX SAM-3B	EX SAM-3B(2-3')		A		2	
EX SAM-4A	EX SAM-4A(.5-1')		A		2	
EX SAM-4B	EX SAM-4B(2-3')		A		2	
Trip Blanks			P		2	
			A			
			P			
			A			
			P			

Relinquished by: (Signature)

Anthony D. Munte

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by Mobile Laboratory for field analysis: (Signature)

Date/Time

Dispatched by: (Signature)

Date/Time

Received for Laboratory by:

Date/Time

Method of Shipment:

Handwritten signature

11/18 8:05

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YELLOW - Sampler Copy

PINK - Generator Copy

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA
ANALYSES

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
881118 F01	Soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 F02	soil	11/16/88	11/18/88	11/22/88	11/23/88
881118 E03	soil	11/16/88	11/18/88	11/22/88	11/23/88
881118 E04	soil	11/16/88	11/18/88	11/22/88	11/23/88
881118 E05	soil	11/16/88	11/18/88	11/22/88	11/23/88
881118 E06	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E07	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E08	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E09	soil	11/16/88	11/18/88	11/22/88	11/22/88
881118 E10	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E11	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E12	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E13	soil	11/16/88	11/18/88	11/22/88	11/29/88
881118 E14	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E15	soil	11/16/88	11/18/88	11/22/88	11/28/88
881118 E16	soil	11/16/88	11/18/88	11/22/88	11/22/88
881118 E17	soil	11/16/88	11/18/88	11/22/88	11/29/88
881118 E18	soil	11/16/88	11/18/88	11/22/88	11/29/88

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **AO 521**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number **1**
881118 Ed
Case No.: **NA**
Report No.: **1**
Contract No.: **99-99-99**
Data Sample Received: **11-18-88**

Volatile Compounds

Concentrations: Low Medium (Circle One)
Data Extracted: **11-20-88**
Data Analyzed: **11-28-88**
Cone/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or <u>ug/kg</u> (Circle One)	C.A.S. Number	ug/l or <u>ug/kg</u> (Circle One)
74-27-3 Chloroethane	500 U	78-27-5 1,2-Dichloropropene	250 U
74-33-3 Bromoethane	500 U	10061-02-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-01-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	2300	79-08-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	800	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-01-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-02-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	250	108-38-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-95-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value. U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 120) based on necessary concentration/dilution action (this is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample. J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 120). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as JJ.	C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS. B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action. Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report. OPTIONAL FLAGS N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ATRONOACK ENVIRONMENTAL**
Lab Sample ID: **A0513**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number **1**
881118 E021

Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Data Sample Received: **11-18-88**

Volatile Compounds
Concentrations: Low Medium (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-23-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (After Decanted) _____

C.A.S. Number	ug/l or ug/kg (Circle One)	C.A.S. Number	ug/l or ug/kg (Circle One)
74-37-3 Chloroethane	500 U	78-37-5 1,2-Dichloropropane	250 U
74-33-9 Bromoethane	500 U	10061-02-4 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloroethane	250 U
75-39-2 Methylene Chloride	250 U	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-35-4 Carbon Disulfide	250 U	10061-01-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-4 2-Hexanone	500 U
107-02-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethane	250 U
78-33-5 2-Butanone	500 U	79-34-5 1,1,1,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	1800	108-68-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-45-4 Vinyl Acetate	500 U	100-1-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 100) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1% response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 132). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as JJ.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 18 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ROTHSCHILD ENVIRONMENTAL**

Lab Sample ID: **AC514**

Sample Matrix: **Soil**

Data release Authorized by: _____

Sample Number **1**

881118 EQ3

Case No.: **NA**

IC Report No.: **1**

Contract No.: **99-99-99**

Date Sample Received: **11-18-88**

Volatile Compounds

Concentrations: Low Medium (Circle One)

Date Extracted: **11-22-88**

Date Analyzed: **11-23-88**

Conc/Oil factor: _____ pH: _____

Percent Moistures (Net Decanted): _____

C.A.S. Number	ug/l or ug/kg (Circle One)	C.A.S. Number	ug/l or ug/kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-32-6 Trans-1,3-Dichloropropane	250 U
75-31-6 Vinyl Chloride	500 U	79-31-6 Trichloroethane	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	570 B	79-10-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	1200	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropane	250 U
75-35-6 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-40-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-32-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	1400	108-38-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-95-4 Vinyl Acetate	500 U	100-41-6 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 18 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **40520**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number **1**
881118 E041

Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **11-18-88**

Volatile Compounds

Concentrations: **Low** **Medium** (Circle One)
Data Extracted: **11-22-88**
Data Analyzed: **11-23-88**
Conc/Oil Factor: _____ pH: _____
Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/kg (Circle One)	C.A.S. Number	ug/l or ug/kg (Circle One)
74-37-3 Chloroethane	500 U	78-37-5 1,2-Dichloropropane	250 U
74-33-9 Bromoethane	500 U	10061-32-6 Trans-1,3-Dichloropropane	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethane	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Ethylene Chloride	250 U	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	2200 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethoxyvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
155-30-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-32-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethane	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-35-6 1,1,1-Trichloroethane	250 U	108-48-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-45-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Dibromochloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **WILKINSON ENVIRONMENTAL**
Lab Sample ID: **P-0512**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number
188118 E051

Case No.: NA
JC Report No.: 1
Contract No.: 99-99-99
Date Sample Received: **11-18-88**

Volatile Compounds
Concentrations: Low Medium (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-23-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or <u>ug/Kg</u> (Circle One)	C.A.S. Number	ug/l or <u>ug/Kg</u> (Circle One)
74-37-3 Chloroethane	500 U	78-37-5 1,2-Dichloropropene	250 U
74-33-3 Bromoethane	500 U	10061-92-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	500 B	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-1 Carbon Disulfide	250 U	10061-91-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,2-Dichloroethane	250 U	75-15-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-92-2 1,1-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	3500	108-48-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-95-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 10% response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/crossable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number
881118 E06

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**

Lab Sample ID: **A0522**

Sample Matrix: **Soil**

Data release Authorized by: _____

Case No.: **NA**

IC Report No.: **1**

Contract No.: **99-99-99**

Date Sample Received: **11-18-88**

Volatile Compounds

Concentrations: Low Medium (Circle One)

Date Extracted: **11-22-88**

Date Analyzed: **11-28-88**

Conc/Oil factor: _____

pH: _____

Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-37-3 Chloromethane	500 U	78-37-5 1,2-Dichloropropane	250 U
74-33-3 Bromomethane	500 U	10061-32-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-4 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Ethylene Chloride	5600	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	850	71-43-2 Benzene	250 U
75-15-4 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-4 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-30-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-32-2 1,1-Dichloroethane	250 U	127-13-4 Tetrachloroethene	250 U
78-33-5 2-Butanone	500 U	79-34-5 1,1,1,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	250 U	108-48-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-45-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 100) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1% response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 1.1 ug/L is calculated, report as 11.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 18 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ROUNDEROCK ENVIRONMENTAL**
Lab Sample ID: **40524**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number
881118 EOT

Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Data Sample Received: **11-18-88**

Volatile Compounds

Concentration: **Low** **Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-28-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromoethane	500 U	10061-92-4 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethane	250 U
75-10-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	710	79-10-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-91-5 cis-1,3-Dichloropropene	250 U
75-75-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-15-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-92-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	500	108-68-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-95-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

- Value** - If the result is a value greater than or equal to the detection limit, report the value.
- U** - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.0 ug/L is calculated, report as JJ.
- C** - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.
- B** - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.
- Other** - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.
- OPTIONAL FLAGS**
- N** - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**

Lab Sample ID: **AC 523**

Sample Matrix: **Soil**

Data release Authorized by: _____

Sample Number 1

831118 E081

Case No.: NA

IC Report No.: 1

Contract No.: 99-99-99

Date Sample Received: **11-18-88**

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted: **11-22-88**

Date Analyzed: **11-28-88**

Contaminant Factor: _____ pH: _____

Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-92-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-01-6 Trichloroethane	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	4200	79-08-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	980	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-91-5 cis-1,3-Dichloropropene	250 U
75-75-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-74-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
127-92-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethane	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	250 U	108-98-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-45-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action (this is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **HC 508**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number
881118 E091

Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Data Sample Received: **11-18-88**

Volatile Compounds

Concentrations: **Low** **Medium** (Circle One)

Date Extracted: **11-22-88**

Date Analyzed: **11-22-88**

Contaminant factor: _____ pH: _____

Percent Moisture: (After Decanted)

C.A.S. Number	ug/l or ug/kg (Circle One)	C.A.S. Number	ug/l or ug/kg (Circle One)
74-37-3 Chloromethane	500 U	78-37-5 1,2-Dichloropropane	250 U
74-33-3 Bromomethane	500 U	10061-92-6 Trans-1,3-Dichloropropane	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	850	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-91-5 cis-1,3-Dichloropropane	250 U
75-35-4 1,1-Dichloroethene	250 U	110-75-4 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-40-5 Trans-1,2-Dichloroethene	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-32-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,2-Trichloroethane	250 U	108-38-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-35-4 Vinyl Acetate	500 U	100-1-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action (this is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g., 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **AORUMACK ENVIRONMENTAL**
Lab Sample ID: **AC 525**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number: **181118 E101**
Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **11-18-88**

Volatile Compounds
Concentrations: Low Medium (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-28-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (After Decanted) _____

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-37-3 Chloroethane	500 U	78-37-5 1,2-Dichloropropane	250 U
74-33-9 Bromoethane	500 U	10061-32-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	2300	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-1 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropene	250 U
75-75-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	991-78-6 2-Hexanone	500 U
107-02-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	250 U	108-68-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-95-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as JJ.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number
881118 E11

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **A0527**
Sample Matrix: **Soil**
Data release Authorized by: _____

Case No.: **NA**
AC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **11-18-88**

Volatile Compounds
Concentration: Low Medium (Circle One)
Data Extracted: **11-22-88**
Data Analyzed: **11-28-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-37-3 Chloromethane	500 U	78-37-5 1,2-Dichloropropane	250 U
74-33-9 Bromomethane	500 U	10061-32-4 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	300	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	550	71-43-2 Benzene	250 U
75-15-1 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropene	250 U
75-75-4 1,1-Dichloroethene	250 U	110-75-4 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-30-5 Trans-1,2-Dichloroethene	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-12-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	7500	108-38-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-35-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value. U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action (this is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample. J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as JJ.	C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS. B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action. Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report OPTIONAL FLAGS N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ACIRCHDACK ENVIRONMENTAL**
Lab Sample ID: **AC 528**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number: **881118 E121**
Case No.: **NA**
Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **11-18-88**

Volatile Compounds
Concentration: **Low** Medium (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-28-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: **Not Determined**

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-92-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-01-6 Trichloroethene	250 U
75-10-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	1600	79-10-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-91-5 cis-1,3-Dichloropropene	250 U
75-75-4 1,1-Dichloroethene	250 U	110-75-3 2-Chloroethylvinylether	250 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-80-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-02-2 1,1-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,1,2-Tetrachloroethane	250 U
71-55-4 1,1,1,2-Tetrachloroethane	5900	108-98-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-95-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 10% response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 18 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **IRONHACK ENVIRONMENTAL**
Lab Sample ID: **PC532**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number **1**
881118E131
Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Data Sample Received: **11-18-88**

Volatile Compounds
Concentration: **Low Medium** (Circle One)
Data Extracted: **11-22-88**
Data Analyzed: **11-29-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/Kg (Circle One)		C.A.S. Number	ug/l or ug/Kg (Circle One)	
74-37-3	500	U	78-37-5	250	U
74-33-3	500	U	10061-32-6	250	U
75-31-4	500	U	79-31-6	250	U
75-30-3	500	U	124-48-1	250	U
75-39-2	1000	U	79-30-5	250	U
67-64-1	500	U	71-43-2	250	U
75-15-3	250	U	10061-31-5	250	U
75-75-4	250	U	110-75-3	500	U
75-34-3	2000	U	75-25-2	250	U
156-38-5	250	U	108-10-1	500	U
67-66-3	250	U	591-78-6	500	U
107-12-2	250	U	127-18-4	250	U
78-33-3	500	U	79-34-5	250	U
71-55-4	35,400	U	108-68-3	450	U
56-23-6	250	U	108-90-7	250	U
108-95-4	500	U	100-41-4	250	U
75-27-4	250	U	100-42-5	250	U
			Total Xylenes	250	U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 100) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as JJ.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/reproducible blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number 1
881118 E141

Laboratory Name: BOURBONCK ENVIRONMENTAL
Lab Sample ID: 4526
Sample Matrix: Soil
Data release Authorized by:

Case No.: NA
IC Report No.: 1
Contract No.: 99-99-99
Data Sample Received: 11-18-88

Volatile Compounds
Concentrations: Low Medium (Circle One)
Date Extracted: 11-22-88
Date Analyzed: 11-28-88
Conc/Oil factor: pH:
Percent Moisture: (Wt Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-32-6 Trans-1,3-Dichloropropane	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethane	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	250 U	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropane	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-32-2 1,1-Dichloroethane	250 U	127-18-4 Tetrachloroethane	250 U
78-93-5 2-Butanone	500 U	79-34-5 1,1,1,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	1500	108-68-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-45-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 7.5 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ROUNDERBOX ENVIRONMENTAL**
Lab Sample ID: **40526**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number 1
881118 E141

Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **11-18-88**

Volatile Compounds
Concentrations: **Low** **Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-28-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/kg (Circle One)	C.A.S. Number	ug/l or ug/kg (Circle One)
74-87-3 Chloromethane	500 U	78-47-5 1,2-Dichloropropene	250 U
74-83-9 Bromomethane	500 U	10061-72-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-01-4 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	250 U	79-00-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-35-3 Carbon Disulfide	250 U	10061-71-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,2-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-40-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-4 2-Hexanone	500 U
107-12-2 1,2-Dichloroethane	250 U	127-13-4 Tetrachloroethene	250 U
78-13-3 2-Butanone	500 U	79-74-5 1,1,1,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	1800	108-68-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-15-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 100) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as JJ.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/mL in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/possible blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ROCKHACK ENVIRONMENTAL**
Lab Sample ID: **140529**
Sample Matrix: **SSS**
Data release Authorized by: _____

Sample Number: **55118 E15**
Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **11-18-88**

Volatile Compounds
Concentrations: Low Medium (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-28-88**
Cond/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-37-3 Chloromethane	500 U	78-37-5 1,2-Dichloropropane	250 U
74-33-3 Bromomethane	500 U	10061-32-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-4 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	400	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropene	250 U
75-75-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-74-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-32-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-32-1 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	10,400	108-68-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-35-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 100) based on necessary concentration/dilution action (this is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 133). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as JJ.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

3 - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **10507**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number **1**
35118 E16

Case No.: **NA**
Report No.: **1**
Contract No.: **99-99-99**
Data Sample Received: **11-18-88**

Volatile Compounds

Concentrations: Low **Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-22-88**
Core/Oil factor: _____ pH: _____
Percent Moistures (Not Decanted): _____

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	580 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-32-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	750	79-10-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	1250	71-43-2 Benzene	250 U
75-15-4 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropene	250 U
75-35-6 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	991-78-6 2-Hexanone	500 U
107-12-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	250 U	108-68-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-45-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

- Value** - If the result is a value greater than or equal to the detection limit, report the value.
- U** - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 100) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- 3** - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is (than the specified detection limit but) than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 33.
- C** - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.
- 3** - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.
- Other** - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ROCKAWAY ENVIRONMENTAL**
Lab Sample ID: **AO 534**
Sample Matrix: **SOI**
Data release Authorized by: _____

Sample Number: **55118 E17**

Case No.: **NA**
Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **11-18-88**

Volatile Compounds

Concentration: **Low** **Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-29-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-47-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-32-6 Trans-1,3-Dichloropropene	250 U
75-31-6 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-5 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	250 U	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	1600	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-31-5 cis-1,2-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	320	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-72-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-33-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	15,000	108-18-3 Toluene	250 U
56-23-5 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-95-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	1000
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	24,000

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 100) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: "U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample."

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 33.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

3 - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **A0533**
Sample Matrix: **Soil**
Data release Authorized by: _____

Sample Number: **581118 E181**

Case No.: **NA**
IC Report No.: **1**
Contract No.: **99-99-99**
Data Sample Received: _____

Volatile Compounds

Concentration: Low Medium (Circle One)
Data Extracted: **11-22-88**
Data Analyzed: **11-29-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)		C.A.S. Number	ug/l or ug/Kg (Circle One)
74-37-3 Chloromethane	500 U		78-37-5 1,2-Dichloropropane	250 U
74-33-9 Bromomethane	500 U		10061-32-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U		79-31-4 Trichloroethene	250 U
75-30-3 Chloroethane	500 U		124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	6600		79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	2200		71-43-2 Benzene	250 U
75-35-4 Carbon Disulfide	250 U		10061-31-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U		110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U		75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U		108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U		591-78-6 2-Hexanone	500 U
127-12-2 1,2-Dichloroethane	250 U		127-13-4 Tetrachloroethene	250 U
78-33-5 2-Butanone	500 U		79-34-5 1,1,1,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	56,500		108-68-3 Toluene	1400
56-23-4 Carbon Tetrachloride	250 U		108-90-7 Chlorobenzene	250 U
108-45-4 Vinyl Acetate	500 U		100-41-4 Ethylbenzene	1400
75-27-4 Bromodichloromethane	250 U		100-42-5 Styrene	250 U
			Total Xylenes	27,000

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

- Value** - If the result is a value greater than or equal to the detection limit, report the value.
- U** - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 100) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 10% response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is (< than the specified detection limit but > than zero (e.g. 100). If limit of detection is 10 ug/L and a concentration of 3.0 ug/L is calculated, report as 30.
- C** - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.
- 3** - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/precaution blank contamination and warns data the user to take appropriate action.
- Other** - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number
YBLK

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**

Lab Sample ID: **AB048**

Sample Matrix: **Soil.**

Data release Authorized by: _____

Case No.: **NA**

QC Report No.: **1**

Contract No.: **99-99-99**

Date Sample Received: _____

Volatile Compounds
Concentrations: **Low Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-22-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/kg (Circle One)	C.A.S. Number	ug/l or ug/kg (Circle One)
74-87-3 Chloroethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromoethane	500 U	10061-02-6 Trans-1,3-Dichloropropene	250 U
75-01-4 Vinyl Chloride	500 U	79-01-6 Trichloroethene	250 U
75-00-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-09-2 Methylene Chloride	250 U	79-00-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-01-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-02-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	250 U	108-38-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-35-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

9 - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number
VBK

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**

Lab Sample ID: **AB048**

Sample Matrix: **Soil**

Data release Authorized by: _____

Case No.: **NA**

QC Report No.: **1**

Contract No.: **99-99-99**

Date Sample Received: _____

Volatile Compounds

Concentration: **Low** **Medium** (Circle One)

Date Extracted: **11-22-88**

Date Analyzed: **11-22-88**

Conc/Oil factor: _____

pH: _____

Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-02-6 Trans-1,3-Dichloropropane	250 U
75-01-4 Vinyl Chloride	500 U	79-01-6 Trichloroethane	250 U
75-00-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-09-2 Methylene Chloride	250 U	79-08-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-01-5 cis-1,3-Dichloropropane	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-02-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethane	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	250 U	108-38-3 Toluene	250 U
56-23-4 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-05-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

G - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number
VBLK

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **AB049**
Sample Matrix: **Soil**
Data release Authorized by: _____

Case No.: **NA**
QC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: **/**

Volatile Compounds
Concentration: **Low** **Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-23-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (After Decanted)

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-92-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-31-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	250	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-91-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-92-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	250 U	108-38-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-35-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value. U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample. J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.	C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS. B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action. Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report OPTIONAL FLAGS N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number
VBLK

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **AB050**
Sample Matrix: **Soil**
Data release Authorized by: _____

Case No.: **NA**
QC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: _____

Volatile Compounds

Concentration: **Low** **Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-28-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-02-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-01-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-09-2 Methylene Chloride	250 U	79-30-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-31-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethane	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethane	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-02-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-4 1,1,1-Trichloroethane	250 U	108-88-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-05-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 18 ng/L in the final extract should be confirmed by GC/MS.

9 - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Organics Analysis Data Sheet
(Page 1)

Sample Number
VBLK

Laboratory Name: **ADIRONDACK ENVIRONMENTAL**
Lab Sample ID: **A0100**
Sample Matrix: **Soil**
Data release Authorized by: _____

Case No.: **NA**
QC Report No.: **1**
Contract No.: **99-99-99**
Date Sample Received: _____

Volatile Compounds

Concentration: Low **Medium** (Circle One)
Date Extracted: **11-22-88**
Date Analyzed: **11-29-88**
Conc/Oil factor: _____ pH: _____
Percent Moisture: (Not Decanted) _____

C.A.S. Number	ug/l or ug/Kg (Circle One)	C.A.S. Number	ug/l or ug/Kg (Circle One)
74-87-3 Chloromethane	500 U	78-87-5 1,2-Dichloropropane	250 U
74-83-9 Bromomethane	500 U	10061-02-6 Trans-1,3-Dichloropropene	250 U
75-31-4 Vinyl Chloride	500 U	79-01-6 Trichloroethene	250 U
75-30-3 Chloroethane	500 U	124-48-1 Dibromochloromethane	250 U
75-39-2 Methylene Chloride	250 U	79-00-5 1,1,2-Trichloroethane	250 U
67-64-1 Acetone	500 U	71-43-2 Benzene	250 U
75-15-3 Carbon Disulfide	250 U	10061-01-5 cis-1,3-Dichloropropene	250 U
75-35-4 1,1-Dichloroethene	250 U	110-75-3 2-Chloroethylvinylether	500 U
75-34-3 1,1-Dichloroethane	250 U	75-25-2 Bromoform	250 U
156-60-5 Trans-1,2-Dichloroethene	250 U	108-10-1 4-Methyl-2-Pentanone	500 U
67-66-3 Chloroform	250 U	591-78-6 2-Hexanone	500 U
107-02-2 1,2-Dichloroethane	250 U	127-18-4 Tetrachloroethene	250 U
78-93-3 2-Butanone	500 U	79-34-5 1,1,2,2-Tetrachloroethane	250 U
71-55-6 1,1,1-Trichloroethane	250 U	108-38-3 Toluene	250 U
56-23-6 Carbon Tetrachloride	250 U	108-90-7 Chlorobenzene	250 U
108-05-4 Vinyl Acetate	500 U	100-41-4 Ethylbenzene	250 U
75-27-4 Bromodichloromethane	250 U	100-42-5 Styrene	250 U
		Total Xylenes	250 U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However the definition of each flag must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action (This is not necessarily the instrument detection limit). The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < than the specified detection limit but > than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3.3 ug/L is calculated, report as 3J.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/L in the final extract should be confirmed by GC/MS.

9 - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns data the user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

OPTIONAL FLAGS

N - Compound not present in Calibration File.

Contract No. : 39-39-99

Case No. : NA

Low Medium ☒

VOLATILE				SEMI VOLATILE				PEST		
NO	Toluene	Bromofluo-	1,2-Dichlo-	Nitro-	2-Fluoro-	1Terphenyl-	Phenol-	2-Fluoro-	12,4,6-Tris-	Dibutylchl-
AFFIC	d-8	benzene	roethane-d4	benzene-d5	biphenyl	d-14	d-5	phenol	bromophenol	orendate **
NO.	(81-117)	(74-121)	(70-121)	(23-120)	(30-115)	(18-137)	(24-113)	(25-121)	(19-122)	(20-158)
2048 BLK	106	107	101							
118 EK	112	113	117							
F09	107	117	110							
104 V015	103	109	98							
F05	98	96	94							
F02	108	115	111							
F03	106	109	105							
F04	100	103	99							
1 BLK	95	98	90							
F01	114	115	110							
F06	88	94	87							
F07	92	96	93							
F03	82	114	76							
F10	84	120	80							
F14	90	121	79							
F11	82	115	77							
F12	85	113	92							
F15	89	118	73							
11K	109	110	105							
F13	83	108	98							
F18	96	111	99							
F12	82	116	104							
111 115	95	102	110							
115D	87	98	114							

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

•• ADVISORY LIMITS ONLY.

Volatiles: 0 out of 72; outside of X limits

Semi-Volatiles: _____ out of _____ ; outside of 2C limits

Pesticides: _____ out of _____; outside of X limits

Comments:

SOIL MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : NA

Contractor : ADIRONDACK ENVIRONMENTAL

Contract No. : 99-99-39

Low Level

Medium Level

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	RPD	QC LIMITS *
VOA	1,1-Dichloroethene	2500	0	2119	85	2279	91	7	22	59-172
SHO	Trichloroethene	2500	0	2605	104	2207	88	17	24	62-137
SAMPLE NO	Chlorobenzene	2500	0	2369	95	2480	99	4	21	60-133
	Toluene	2500	0	2305	92	2439	97	6	21	59-139
881128 T11	Benzene	2500	0	2120	85	2335	93	9	21	66-142
	1,2,4-Trichlorobenzene								23	38-107
B/N	Acenaphthene								19	31-137
SHO	2,4-Dinitrotoluene								47	28-89
SAMPLE NO	Pyrene								36	35-142
	N-Nitroso Di-n-Propylamine								38	41-126
1234-5678	1,4-Dichlorobenzene								27	28-104
ACID	Pentachlorophenol								47	17-109
SHO	Phenol								35	26-90
SAMPLE NO	2-Chlorophenol								50	25-102
	4-Chloro-3-Methylphenol								33	26-103
1234-5678	4-Nitrophenol								50	11-114
	Lindane								50	46-127
PEST	Heptachlor								31	35-130
SHO	Aldrin								43	34-132
SAMPLE NO	Dieldrin								38	31-134
	Endrin								45	42-139
1234-5678	4,4'-DDT								50	23-134

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs 0 out of 10; outside QC limits

B/N out of ; outside QC limits

ACID out of ; outside QC limits

PEST out of ; outside QC limits

RECOVERY: VOAs 0 out of 10; outside QC limits

B/N out of ; outside QC limits

ACID out of ; outside QC limits

PEST out of ; outside QC limits

Comments:

METHOD BLANK SUMMARY

Case No. : FD-76

Region : U

Contractor : ADIRONDACK ENVIRONMENTAL

Contract No. : 99-99-99

[illegible]

Comments : _____

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	28.78	28.78	Ok
75	30-60% of mass 95	58.81	58.81	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.51	7.51	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	70.30	70.30	Ok
175	5-9% of mass 174	4.67	6.64	Ok
176	95-101% of mass 174	67.09	95.43	Ok
177	5-9% of mass 176	5.34	7.96	Ok

Injection Date: 11/22/88

Injection Time: 08:52

Data File: >AT104

Scan: 501

A5127	VSTD 50 ppb	881122	9:08
AB048	VBK	881122	
A0507	881118 E16	881122	15:36
A0508	881118 E09	881122	16:20

form V

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	25.58	25.58	Ok
75	30-60% of mass 95	56.73	56.73	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.08	8.08	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	81.15	81.15	Ok
175	5-9% of mass 174	5.77	7.11	Ok
176	95-101% of mass 174	80.77	99.53	Ok
177	5-9% of mass 176	4.04	5.00	Ok

Injection Date: 11/23/88

Injection Time: 10:19

Data File: >AT107

Scan: 572

AL

AS128	VSTD 50 ppb	881123	10:36
AB049	VBLK	881123	11:24
A0512	881118 E05	881123	14:24
A0513	881118 E02	881123	15:13
A0514	881118 E03	881123	15:57
A0520	881118 E04	881123	20:16

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (SFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	30.01	30.01	Ok
75	30-60% of mass 95	46.75	46.75	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.88	8.88	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	66.00	66.00	Ok
175	5-9% of mass 174	3.76	5.70	Ok
176	95-101% of mass 174	65.15	98.71	Ok
177	5-9% of mass 176	5.44	8.36	Ok

Injection Date: 11/28/88

Injection Time: 10:10

Data File: >AT108

Scan: 479

A5129	VSTD	50 ppb	881128	10:48
A0500	VBLK		881128	11:46
A0521	881118	E01	881128	12:30
A0522	881118	E06	881128	13:14
A0523	881118	E08	881128	13:57
A0524	881118	E07	881128	16:30
A0525	881118	E10	881128	17:13
A0526	881118	E14	881128	17:57
A0527	881118	E11	881128	18:40
A0528	881118	E12	881128	19:23
A0529	881118	E15	881128	20:07

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	30.52	30.52	Ok
75	30-60% of mass 95	42.17	42.17	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.83	7.83	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	73.09	73.09	Ok
175	5-9% of mass 174	6.02	8.24	Ok
176	95-101% of mass 174	70.28	96.15	Ok
177	5-9% of mass 176	5.52	8.00	Ok

Injection Date: 11/29/88

Injection Time: 10:40

Data File: >AT110

Scan: 510

AS130	VSTD	50ppb	881129	11:00
AB100	VBK		881129	11:52
A0532	881118	E13	881129	14:17
A0533	881118	E18	881129	15:04
A0534	881118	E17	881129	15:46

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: GC/MS A
Contractor: ADIRONDACK ENV.SERV. Calibration Date: 11/18/88
Contract No: _____

Minimum RF for SPCC is 0.30 Maximum % RSD for CCC is 30%

Laboratory ID: >AS120 >AS118 >AS121 >AS122 >AS123

Compound	RF 20.00	RF 50.00	RF 100.00	RF 150.00	RF 200.00	RF	% RSD	CCC	SPCC
Chloromethane	.53915	.37719	.43714	.50248	.37018	.44523	16.817		**
Bromomethane	1.38837	1.24712	1.24723	1.12830	1.00417	1.20304	12.001		
Vinyl Chloride	.89593	.59698	.77310	.70513	.52658	.69954	20.770	*	
Chloroethane	.63914	.54581	.61241	.56474	.51159	.57474	8.911		
Methylene Chloride	1.32335	1.16380	1.14288	1.06927	.99781	1.13942	10.696		
Acetone	.49714	.39465	.38264	.31588	.35876	.38981	17.221		
Trichlorofluoromethane	5.19317	4.47252	5.00109	4.19210	3.72373	4.51652	13.231		
Carbon Disulfide	3.09783	2.94440	2.84713	2.55909	2.32374	2.75444	11.282		
1,1-Dichloroethene	1.25153	1.20084	1.17433	1.08192	.96939	1.13560	9.816	*	
1,1-Dichloroethane	2.57159	2.45577	2.44367	2.32580	2.16954	2.39327	6.366		**
1,2-Dichloroethene (total)	1.27312	1.21529	1.16414	1.12145	1.03499	1.16180	7.814		
Chloroform	3.58394	3.43334	3.25900	3.14742	2.92684	3.27011	7.768	*	
1,2-Dichloroethane-d4	3.05300	2.42205	2.61014	2.47052	2.41888	2.59492	10.312		
1,2-Dichloroethane	3.09126	2.82878	2.97982	2.84888	2.74757	2.89926	4.687		
2-Butanone	.11501	.10599	.11751	.09925	.10708	.10897	6.748		
1,1,1-Trichloroethane	3.77946	3.30058	3.37517	3.22231	2.89754	3.31501	9.568		
Carbon Tetrachloride	3.52033	3.15416	3.14590	3.04499	2.61097	3.09527	10.516		
Vinyl Acetate	.09436	.15803	.13635	.10453	.08571	.11580	26.258		
Bromodichloromethane	3.45155	3.35413	3.31014	3.22249	3.02643	3.27295	4.907		
1,2-Dichloropropane	.41174	.38267	.42619	.40658	.39903	.40524	3.961	*	
trans-1,3-Dichloropropene	1.20941	1.18426	1.26870	1.21855	1.22846	1.22187	2.528		(Conc=14.4,36.0,72.0,108.0,144.0)
Trichloroethene	.55162	.45954	.50419	.50495	.50396	.50485	6.450		
Dibromochloromethane	.65847	.63878	.71429	.67974	.70473	.67920	4.625		
1,1,2-Trichloroethane	.38159	.36934	.39511	.37114	.37972	.37938	2.705		
Benzene	.90513	.84685	.91253	.88231	.85562	.88049	3.305		
cis-1,3-Dichloropropene	.38137	.37576	.39845	.38197	.39032	.38557	2.303		(Conc=25.6,64.0,128.0,192.0,256.0)
2-Chloroethylvinylether	.24008	.24071	.25964	.23394	.24772	.24442	4.014		
Bromoform	.60379	.58125	.67853	.63177	.67324	.63371	6.705		**
2-Hexanone	.44584	.39189	.45950	.36538	.40915	.41435	9.316		
4-Methyl-2-Pentanone	.54810	.58554	.71646	.57276	.63522	.63161	9.050		
Tetrachloroethene	.52815	.48684	.48781	.48532	.44723	.48707	5.878		
1,1,2,2-Tetrachloroethane	.62082	.74656	.75250	.62337	.62457	.67356	10.303		**

RF - Response Factor (Subscript is amount in ug/L)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: GC/MS A
Contractor: ADIRONDACK ENV.SERV. Calibration Date: 11/18/88
Contract No: _____

Minimum RF for SPCC is 0.30 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >AS120 >AS118 >AS121 >AS122 >AS123					RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF				
	20.00	50.00	100.00	150.00	200.00				
Toluene	.85852	.71570	.75749	.71684	.67958	.74563	9.236	*	
Toluene d-8	1.37802	1.07914	1.17957	1.11343	1.09738	1.16951	10.480		
Chlorobenzene	1.01211	.96725	.95713	.94638	.92096	.96077	3.484	*	
Ethylbenzene	.50059	.45348	.45279	.44538	.43276	.45700	5.635		
Styrene	1.11057	1.01188	1.05699	.95361	.99895	1.02640	5.822		
Arylenes (total)	.64163	.57189	.59332	.54517	.55194	.58079	6.690		
Bromofluorobenzene	1.15287	.86079	.95785	.93590	.94476	.97043	11.207		

- Response Factor (Subscript is amount in ug/L)

RF - Average Response Factor

% RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 11/22/88
Contractor: ADIRONDACK ENV.SERV. Time: 09:08
Contract No: _____ Laboratory ID: >AS127
Instrument ID: GC/MS A Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
Chloromethane	.44523	.39018	14.48	**	
Bromomethane	1.20304	1.07686	10.49		
Vinyl Chloride	.69954	.69340	0.92	*	
Chloroethane	.57474	.48377	15.83		
Methylene Chloride	1.13942	.95452	16.23		
Acetone	.38981	.34461	11.60		
Trichlorofluoromethane	4.51652	4.29370	4.93		
Carbon Disulfide	2.75444	2.24948	18.33		
1,1-Dichloroethene	1.13560	1.00461	11.53	*	
1,1-Dichloroethane	2.39327	2.07541	13.28	**	
1,2-Dichloroethene (total)	1.16180	1.02396	11.86		
Chloroform	3.27011	2.92983	10.41	*	
1,2-Dichloroethane-d4	2.59492	2.33466	10.03		
1,2-Dichloroethane	2.89926	2.62474	9.47		
2-Butanone	.10897	.09097	16.52		
1,1,1-Trichloroethane	3.31501	3.15472	4.84		
Carbon Tetrachloride	3.39527	3.04268	1.70		
Vinyl Acetate	.11580	.14504	25.25		
Bromodichloromethane	3.27295	3.04413	6.99		
1,2-Dichloropropane	.40524	.33982	16.14	*	
trans-1,3-Dichloropropene	1.22187	1.07250	12.22		(Conc=36.00)
Trichloroethene	.50485	.42964	14.90		
Dibromochloromethane	.67920	.60365	11.12		
1,1,2-Trichloroethane	.37938	.34285	9.63		
Benzene	.98049	.75988	13.70		
cis-1,3-Dichloropropene	.38557	.34403	10.77		(Conc=64.00)
2-Chloroethylvinylether	.24442	.20782	14.98		
Bromoform	.63371	.53444	15.67	**	
Hexanone	.41435	.35563	14.17		
Methyl-2-Pentanone	.63161	.54648	13.48		
Tetrachloroethene	.48707	.45341	6.91		
1,1,2,2-Tetrachloroethane	.67356	.58888	12.57	**	

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form UI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 11/22/88
Contractor: ADIRONDACK ENV.SERV. _____ Time: 09:08
Contract No: _____ Laboratory ID: >AS127
Instrument ID: GC/MS A _____ Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
Toluene	.74563	.64128	13.99	*	
Toluene d-8	1.16951	1.02702	12.18		
Chlorobenzene	.96077	.84370	12.18	*	
Ethylbenzene	.45700	.40597	11.17		
Xylenes	1.02640	.88755	13.53		
Xylenes (total)	.58079	.49965	13.97		
Bromofluorobenzene	.97043	.86692	10.67		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 11/23/88
Contractor: ADIRONDACK ENV. SERV. Time: 10:36
Contract No: _____ Laboratory ID: >AS128
Instrument ID: GC/MS A Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
Chloromethane	.44523	.50805	14.11	**	
Bromomethane	1.20304	1.17197	2.58		
Vinyl Chloride	.69954	.76435	9.26	*	
Chloroethane	.57474	.60934	6.02		
Methylene Chloride	1.13942	1.11896	1.80		
Acetone	.38981	.45644	17.09		
Trichlorofluoromethane	4.51652	4.47621	.89		
Carbon Disulfide	2.75444	2.58467	6.16		
1,1-Dichloroethene	1.13560	1.16917	2.96	*	
1,1-Dichloroethane	2.39327	2.32085	3.03	**	
1,2-Dichloroethene (total)	1.16180	1.19122	2.53		
Chloroform	3.27011	3.12474	4.45	*	
1,2-Dichloroethane-d4	2.59492	2.41952	6.76		
1,2-Dichloroethane	2.89926	2.73810	5.56		
2-Butanone	.10897	.09150	16.03		
1,1,1-Trichloroethane	3.31501	3.28656	.86		
Carbon Tetrachloride	3.09527	2.97761	3.80		
Vinyl Acetate	.11580	.18632	60.90		
Bromodichloromethane	3.27295	3.00017	8.33		
1,2-Dichloropropane	.40524	.39101	3.51	*	
trans-1,3-Dichloropropene	1.22187	1.22109	.06		(Conc=36.00)
Trichloroethene	.50485	.47924	5.07		
Dibromochloromethane	.67920	.58634	13.67		
1,1,2-Trichloroethane	.37938	.36958	2.58		
Benzene	.88049	.88607	.63		
cis-1,3-Dichloropropene	.38557	.36624	5.01		(Conc=64.00)
2-Chloroethylvinylether	.24442	.22680	7.21		
Bromoform	.63371	.48561	23.37	**	
2-Hexanone	.41435	.38994	5.89		
4-Methyl-2-Pentanone	.63161	.61312	2.93		
Tetrachloroethene	.48707	.47460	2.56		
1,1,2,2-Tetrachloroethane	.67356	.56015	16.84	**	

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VII

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 11/23/88
Contractor: ADIRONDACK ENV. SERV. Time: 10:36
Contract No: _____ Laboratory ID: XAS128
Instrument ID: GC/MS A Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	$\overline{RF}$	RF	XDiff	CCC SPCC
Toluene	.74563	.69927	6.22	*
Toluene d-8	1.16951	1.12963	3.41	
Chlorobenzene	.96077	.90100	6.22	*
Ethylbenzene	.45700	.46092	.86	
Styrene	1.02640	.91804	10.56	
Xylenes (total)	.58079	.25732	55.69	
Bromofluorobenzene	.97043	.90279	6.97	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

XDiff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 11/28/88

Contractor: ADIRONDACK ENV.SERV. Time: 10:48

Contract No: Laboratory ID: >AS129

Instrument ID: GC/MS A Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
Chloromethane	.44523	-	-	**	
Bromomethane	1.20304	1.16791	2.92		
Vinyl Chloride	.69954	.19963	71.46	*	
Chloroethane	.57474	.62110	8.07		
Ethylene Chloride	1.13942	1.25153	9.84		
Acetone	.38981	.83124	113.24		
Trichlorofluoromethane	4.51652	4.24406	6.03		
Carbon Disulfide	2.75444	2.70794	1.69		
1,1-Dichloroethene	1.13560	1.14332	.68	*	
1,1-Dichloroethane	2.39327	2.53748	6.03	**	
1,2-Dichloroethene (total)	1.16180	1.21116	4.25		
Chloroform	3.27011	3.21370	1.72	*	
1,2-Dichloroethane-d4	2.59492	2.90512	8.10		
1,2-Dichloroethane	2.89926	2.88799	.39		
2-Butanone	.10897	.12907	18.45		
1,1,1-Trichloroethane	3.31501	3.20302	3.38		
Carbon Tetrachloride	3.09527	2.80224	9.47		
Ethyl Acetate	.11580	.19437	67.85		
1,1-Dichloroethane	3.27295	3.08548	5.73		
1,2-Dichloropropane	.40524	.38726	4.44	*	
trans-1,3-Dichloropropene	1.22187	1.18949	2.65		(Conc=36.00)
1,1-Dichloroethene	.50485	.44396	12.06		
Bromochloromethane	.67920	.54483	19.78		
1,1,2-Trichloroethane	.37938	.36999	2.47		
Benzene	.88049	.93930	6.68		
cis-1,3-Dichloropropene	.38557	.37296	3.27		(Conc=64.00)
2-Chloroethylvinylether	.24442	.24812	1.51		
Bromoform	.63371	.45191	28.69	**	
Hexanone	.41435	.37822	8.72		
4-Methyl-2-Pentanone	.63161	.65870	4.29		
Tetrachloroethene	.48707	.42058	13.65		
1,2,2-Tetrachloroethane	.67356	.65485	2.78	**	

- Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 11/28/88

Contractor: ADIRONDACK ENV.SERV. Time: 10:48

Contract No: _____ Laboratory ID: >AS129

Instrument ID: GC/MS A Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
Toluene	.74563	.70525	5.42	*	
Toluene d-8	1.16951	1.25153	7.01		
Chlorobenzene	.96077	.90770	5.52	*	
Ethylbenzene	.45700	.43586	4.63		
Styrene	1.02640	.89721	12.59		
Xylenes (total)	.58079	.39748	31.56		
Bromofluorobenzene	.97043	.95930	1.15		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form UI

Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 11/29/88
Contractor: ADIRONDACK ENV. SERV. Time: 11:00
Contract No: _____ Laboratory ID: 185130
Instrument ID: GC/MS A Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Toluene	.74563	.70402	5.58	*	
Toluene d-8	1.16951	1.20035	2.64		
Chlorobenzene	.96077	.91068	5.21	*	
Ethylbenzene	.45700	.44729	2.13		
Styrene	1.02640	.65285	36.39		
Xylenes (total)	.58079	.35887	38.21		
Bromofluorobenzene	.97043	.92660	4.52		

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form UI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 11/29/88
Contractor: ADIRONDACK ENV. SERV. Time: 11:00
Contract No: _____ Laboratory ID: >R5130
Instrument ID: GC/MS A Initial Calibration Date: 11/18/88

Minimum RF for SPCC is 0.30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
Chloromethane	.44523	.60753	36.45	**	
Bromomethane	1.20304	1.25619	4.42		
Vinyl Chloride	.69954	.85607	22.38	*	
Chloroethane	.57474	.60401	5.09		
Methylene Chloride	1.13942	1.13659	.25		
Acetone	.38981	.25910	33.53		
Trichlorofluoromethane	4.51652	4.19425	7.14		
Carbon Disulfide	2.75444	1.81753	34.01		
1,1-Dichloroethene	1.13560	1.12359	1.06	*	
1,1-Dichloroethane	2.39327	2.29795	3.98	**	
1,2-Dichloroethene (total)	1.16180	1.14362	1.56		
Chloroform	3.27011	2.98180	8.82	*	
1,2-Dichloroethane-d4	2.59492	2.44325	5.84		
1,2-Dichloroethane	2.89926	2.59407	10.53		
2-Butanone	.10897	.06623	39.22		
1,1,1-Trichloroethane	3.31501	3.05675	7.79		
Carbon Tetrachloride	3.09527	2.76017	10.83		
Vinyl Acetate	.11580	.16519	42.65		
Bromodichloromethane	3.27295	2.89783	11.46		
1,2-Dichloropropane	.40524	.38003	6.22	*	
trans-1,3-Dichloropropene	1.22187	1.11642	8.63		(Conc=36.00)
Trichloroethene	.50485	.45021	10.82		
Dibromochloromethane	.67920	.56579	16.70		
1,1,2-Trichloroethane	.37938	.35270	7.03		
Benzene	.88049	.84282	4.28		
cis-1,3-Dichloropropene	.38557	.33829	12.26		(Conc=64.00)
2-Chloroethylvinylether	.24442	.24106	1.38		
Bromoform	.63371	.51537	18.67	**	
2-Hexanone	.41435	.23160	44.11		
4-Methyl-2-Pentanone	.63161	.39928	36.78		
Tetrachloroethene	.48707	.45489	6.61		
1,1,2,2-Tetrachloroethane	.67356	.68566	1.80	**	

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)



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LABORATORY REPORT

for

Pole-Lite Industries
RD-1 Box 143
Champlain, NY 12919 9718

Attention: Mr. Antonio Gagliardi

Report date: 02/23/89
Number of samples analyzed: 3
AES Project ID: 890110 B

By: Malcolm Pirnie

ORGANIC CASE NARRATIVE

Project: Polelite 890110 B

The following case narrative refers to all samples noted on the
NYSDEC Sample Identification and Analytical Requirement Summary form.

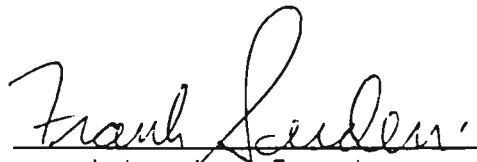
Date Received: January 10, 1989 Contract Number: N/A

Shipment Problems Encountered: NONE

Extraction Problems Encountered: NONE

Analysis Problems Encountered: Sample 890110 B01 required dilution
due to high levels of components. The sample was rerun at a 1:200
dilution, but some compounds were still out of calibration range
of the instrument. No further dilutions were made due to insufficient
number of sample vials available for repeat analyses.

Corrective Action Taken: NONE


Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90110801

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A0844

Level: (low/med) LOW

Date Received: 1/10/89

% Moisture: not dec. 100.

Date Analyzed: 1/10/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	23.	
75-00-3	Chloroethane	86.	
75-09-2	Methylene Chloride	13.	
67-64-1	Acetone	390.	E
75-15-0	Carbon Disulfide	11.	
75-35-4	1,1-Dichloroethene	3000.	E
75-34-3	1,1-Dichloroethane	23000.	E
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	45.	
107-06-2	1,2-Dichloroethane	1900.	E
78-93-3	2-Butanone	1100.	E
71-55-6	1,1,1-Trichloroethane	26000.	E
56-23-5	Carbon Tetrachloride	380.	E
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	58.	
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	350.	E
71-43-2	Benzene	32.	
10061-01-5	cis-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	170.	
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
106-88-3	Toluene	970.	E
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	67.	
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	1000.	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90110B01 DL

Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A0906

Level: (low/med) LOW

Date Received: 1/10/89

Moisture: not dec. 100.

Date Analyzed: 1/17/89

Column: (pack/cap) PACK

Dilution Factor: 200.00

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	2000.	U
74-83-9	Bromomethane	2000.	U
75-01-4	Vinyl Chloride	2000.	U
75-00-3	Chloroethane	2000.	U
75-09-2	Methylene Chloride	960.	BJ D
67-64-1	Acetone	2000.	U
75-15-0	Carbon Disulfide	1000.	U
75-35-4	1,1-Dichloroethene	2700.	D
75-34-3	1,1-Dichloroethane	71000.	ED
540-59-0	1,2-Dichloroethene (total)	1000.	U
67-66-3	Chloroform	1000.	U
107-06-2	1,2-Dichloroethane	3300.	D
78-93-3	2-Butanone	2000.	U
71-55-6	1,1,1-Trichloroethane	190000.	ED
56-23-5	Carbon Tetrachloride	1000.	U
108-05-4	Vinyl Acetate	2000.	U
75-27-4	Bromodichloromethane	1000.	U
78-87-5	1,2-Dichloropropane	1000.	U
10061-02-6	trans-1,3-Dichloropropene	1000.	U
79-01-6	Trichloroethene	1000.	U
124-48-1	Dibromochloromethane	1000.	U
79-00-5	1,1,2-Trichloroethane	1000.	U
71-43-2	Benzene	1000.	U
10061-01-5	cis-1,3-Dichloropropene	1000.	U
75-25-2	Bromoform	1000.	U
591-78-6	2-Hexanone	2000.	U
108-10-1	4-Methyl-2-Pentanone	2000.	U
127-18-4	Tetrachloroethene	1000.	U
79-34-5	1,1,2,2-Tetrachloroethane	1000.	U
108-88-3	Toluene	1400.	D
108-90-7	Chlorobenzene	1000.	U
100-41-4	Ethylbenzene	1000.	U
100-42-5	Styrene	1000.	U
1330-20-7	Xylenes (total)	1300.	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90110802

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A0922

Level: (low/med) LOW

Date Received: 1/10/89

% Moisture: not dec. 100.

Date Analyzed: 1/18/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane -----	10.	U
74-83-9	-----Bromomethane -----	10.	U
75-01-4	-----Vinyl Chloride -----	10.	U
75-00-3	-----Chloroethane -----	10.	U
75-09-2	-----Methylene Chloride -----	5.	U
67-64-1	-----Acetone -----	10.	U
75-15-0	-----Carbon Disulfide -----	5.	U
75-35-4	-----1,1-Dichloroethene -----	5.	U
75-34-3	-----1,1-Dichloroethane -----	5.	U
540-59-0	-----1,2-Dichloroethene (total) -----	5.	U
67-66-3	-----Chloroform -----	5.	U
107-06-2	-----1,2-Dichloroethane -----	5.	U
78-93-3	-----2-Butanone -----	10.	U
71-55-6	-----1,1,1-Trichloroethane -----	4.	J
56-23-5	-----Carbon Tetrachloride -----	5.	U
108-05-4	-----Vinyl Acetate -----	10.	U
75-27-4	-----Bromodichloromethane -----	5.	U
78-87-5	-----1,2-Dichloropropane -----	5.	U
10061-02-6	-----trans-1,3-Dichloropropene -----	5.	U
79-01-6	-----Trichloroethene -----	5.	U
124-48-1	-----Dibromochloromethane -----	5.	U
79-00-5	-----1,1,2-Trichloroethane -----	5.	U
71-43-2	-----Benzene -----	5.	U
10061-01-5	-----cis-1,3-Dichloropropene -----	5.	U
75-25-2	-----Bromoform -----	5.	U
591-78-6	-----2-Hexanone -----	10.	U
108-10-1	-----4-Methyl-2-Pentanone -----	10.	U
127-18-4	-----Tetrachloroethene -----	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane -----	5.	U
108-88-3	-----Toluene -----	5.	U
106-90-7	-----Chlorobenzene -----	5.	U
100-41-4	-----Ethylbenzene -----	5.	U
100-42-5	-----Styrene -----	5.	U
1330-20-7	-----Xylenes (total) -----	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90110B03

Name: A01RUN

Contract:

Lab Code: A01RUN

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

Sample Wt/Vol: 5.0 (g/mL) ML

Lab File ID: A0843

Level: (low/med) LOW

Date Received: 1/10/89

Moisture: not dec. 100.

Date Analyzed: 1/10/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	5.	U
540-59-0	-----1,2-Dichloroethene (total)	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	19.	
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
551-75-6	-----2-Hexanone	10.	U
106-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	5.	U
76-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
105-25-8	-----Toluene	5.	U
105-20-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-47-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

301
90110MS

Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A0907

Level: (low/med) LDW

Date Received: 1/10/89

Moisture: not dec. 100.

Date Analyzed: 1/17/89

Column: (pack/cap) PACK

Dilution Factor: 200.00

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

74-87-3	Chloromethane	2000.	U
74-83-9	Bromomethane	2000.	U
75-01-4	Vinyl Chloride	2000.	U
75-00-3	Chloroethane	2000.	U
75-09-2	Methylene Chloride	10000.	B
67-64-1	Acetone	2000.	U
75-15-0	Carbon Disulfide	1000.	U
75-35-4	1,1-Dichloroethene	14000.	
75-34-3	1,1-Dichloroethane	81000.	E
540-59-0	1,2-Dichloroethene (total)	11000.	
67-66-3	Chloroform	11000.	
107-06-2	1,2-Dichloroethane	14000.	
78-93-3	2-Butanone	2000.	U
71-55-6	1,1,1-Trichloroethane	180000.	E
56-23-5	Carbon Tetrachloride	11000.	
108-05-4	Vinyl Acetate	2000.	U
75-27-4	Bromodichloromethane	10000.	
78-87-5	1,2-Dichloropropane	11000.	
10061-02-6	trans-1,3-Dichloropropene	7500.	
79-01-6	Trichloroethene	11000.	
124-48-1	Dibromochloromethane	11000.	
79-00-5	1,1,2-Trichloroethane	12000.	
71-43-2	Benzene	11000.	
10061-01-5	cis-1,3-Dichloropropene	13000.	
75-25-2	Bromoform	10000.	
591-78-6	2-Hexanone	2000.	U
108-10-1	4-Methyl-2-Pentanone	2000.	U
127-18-4	Tetrachloroethene	11000.	
75-34-5	1,1,2,2-Tetrachloroethane	10000.	
108-54-3	Toluene	12000.	
105-50-7	Chlorobenzene	11000.	
100-41-4	Ethylbenzene	11000.	
100-42-5	Styrene	1000.	U
1330-20-7	Xylenes (total)	1200.	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

801
90110MSD

Name: ADIRON

Contract:

Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A0908

Level: (low/med) LOW

Date Received: 1/10/89

Moisture: not dec. 100.

Date Analyzed: 1/17/89

Column: (pack/cap) PACK

Dilution Factor: 200.00

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	2000.	U
74-83-9	Bromomethane	2000.	U
75-01-4	Vinyl Chloride	2000.	U
75-00-3	Chloroethane	2000.	U
75-09-2	Methylene Chloride	9100.	B
67-64-1	Acetone	2000.	U
75-15-0	Carbon Disulfide	1000.	U
75-35-4	1,1-Dichloroethene	14000.	
75-34-3	1,1-Dichloroethane	78000.	E
540-59-0	1,2-Dichloroethene (total)	9900.	
67-66-3	Chloroform	10000.	
107-06-2	1,2-Dichloroethane	14000.	
78-93-3	2-Butanone	2000.	U
71-55-6	1,1,1-Trichloroethane	190000.	E
56-23-5	Carbon Tetrachloride	11000.	
108-05-4	Vinyl Acetate	2000.	U
75-27-4	Bromodichloromethane	9500.	
78-87-5	1,2-Dichloropropane	9700.	
10061-02-6	trans-1,3-Dichloropropene	6200.	
79-01-6	Trichloroethene	9400.	
124-48-1	Dibromochloromethane	9400.	
79-00-5	1,1,2-Trichloroethane	10000.	
71-43-2	Benzene	9700.	
10061-01-5	cis-1,3-Dichloropropene	11000.	
75-25-2	Bromoform	9400.	
591-78-6	2-Hexanone	2000.	U
108-10-1	4-Methyl-2-Pentanone	2000.	U
127-18-4	Tetrachloroethene	11000.	
79-34-5	1,1,2,2-Tetrachloroethane	11000.	
108-88-3	Toluene	12000.	
108-90-7	Chlorobenzene	9800.	
100-41-4	Ethylbenzene	11000.	
100-42-5	Styrene	1000.	U
1330-20-7	xylene (total)	1300.	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VELK

Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: AB082

Level: (low/med) LOW

Date Received: 0/ 0/ 0

Moisture: not dec. 100.

Date Analyzed: 1/10/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
74-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: AB087

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 100.

Date Analyzed: 1/17/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	IU
74-83-9	-----Bromomethane	10.	IU
75-01-4	-----Vinyl Chloride	10.	IU
75-00-3	-----Chloroethane	10.	IU
75-09-2	-----Methylene Chloride	5.	J
67-64-1	-----Acetone	10.	IU
75-15-0	-----Carbon Disulfide	5.	IU
75-35-4	-----1,1-Dichloroethene	5.	IU
75-34-3	-----1,1-Dichloroethane	5.	IU
540-59-0	-----1,2-Dichloroethene (total)	5.	IU
67-66-3	-----Chloroform	5.	IU
107-06-2	-----1,2-Dichloroethane	5.	IU
78-93-3	-----2-Butanone	10.	IU
71-55-6	-----1,1,1-Trichloroethane	5.	IU
56-23-5	-----Carbon Tetrachloride	5.	IU
108-05-4	-----Vinyl Acetate	10.	IU
75-27-4	-----Bromodichloromethane	5.	IU
78-87-5	-----1,2-Dichloropropane	5.	IU
10061-02-6	-----trans-1,3-Dichloropropene	5.	IU
79-01-6	-----Trichloroethene	5.	IU
124-48-1	-----Dibromochloromethane	5.	IU
79-00-5	-----1,1,2-Trichloroethane	5.	IU
71-43-2	-----Benzene	5.	IU
10061-01-5	-----cis-1,3-Dichloropropene	5.	IU
75-25-2	-----Bromoform	5.	IU
591-78-6	-----2-Hexanone	10.	IU
108-10-1	-----4-Methyl-2-Pentanone	10.	IU
127-18-4	-----Tetrachloroethene	5.	IU
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	-----Toluene	5.	IU
108-90-7	-----Chlorobenzene	5.	IU
100-41-4	-----Ethylbenzene	5.	IU
100-42-5	-----Styrene	5.	IU
1330-20-7	-----Xylenes (total)	5.	IU

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK

Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: AB08A

Level: (low/med) LOW

Date Received: 0/ 0/ 0

Moisture: not dec. 100.

Date Analyzed: 1/18/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	3.	J
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
105-68-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

2A
WATER VOLATILE SURROGATE RECOVERY

Name: ADIRON

Contract:

Code: ADIRON

Case No.:

SAS No.:

SDG No.:

	EPA	S1	S2	S3	OTHER	TOT
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
1	VELK	95	110	96		0
2	90110B03	100	103	102		0
3	90110B01	105	112	202 *		1
4	VELK	101	101	97		0
5	90110B01 DL	107	113	112		0
6	90110MS	106	103	108		0
7	90110MSD	105	103	110		0
8	VELK	96	88	91		0
9	90110B02	96	87	98		0
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

S1 (TOL) = Toluene d-8 (88-110)
 S2 (BFB) = Bromofluorobenzene (86-115)
 S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

* Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix Spike - EPA Sample No.: 90110B01

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10000.	2730.	13849.	111.	61-145
Trichloroethene	10000.	58.	10575.	105.	71-120
Benzene	10000.	32.	10986.	110.	76-127
Toluene	10000.	1378.	12275.	109.	76-125
Chlorobenzene	10000.	0.	10886.	109.	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	10000.	13863.	111.	0.	14 61-145
Trichloroethene	10000.	9425.	94.	12.	14 71-120
Benzene	10000.	9728.	97.	12. *	11 76-127
Toluene	10000.	11665.	103.	6.	13 76-125
Chlorobenzene	10000.	9845.	98.	10.	13 75-130

Column to be used to flag recovery and RPD values with an asterisk

Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Lab File ID: AB082

Lab Sample ID:

Date Analyzed: 1/10/89

Time Analyzed: 12:44

Matrix: (soil/water) WATER

Level: (low/med) LOW

Instrument ID: 7001A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	90110B03		A0843	18:56
2	890110B0		A0844	19:37
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				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Lab File ID: AB087

Lab Sample ID:

Date Analyzed: 1/17/89

Time Analyzed: 11:40

Matrix: (soil/water) WATER

Level: (low/med) LOW

Instrument ID: 7001A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	90110B01 DL		A0906	17:03
2	90110MS		A0907	17:42
3	90110MSD		A0908	18:21
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				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ADIRUN

Contract:

Lab Code: ADIRUN

Case No.:

SAS No.:

SDG No.:

Lab File ID: ABO8A

Lab Sample ID:

Date Analyzed: 1/18/89

Time Analyzed: 8:36

Matrix: (soil/water) WATER

Level: (low/med) LOW

Instrument ID: 7001A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	90110802		A0922	16:28
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
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17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BFUMOFUOROENZENE (BFB)

Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Lab File ID: AT100

BFB Injection Date: 11/17/88

Instrument ID: 7001A

BFB Injection Time: 12:01

Matrix: (soil/water) WATER Level: (low/med): LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	59.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	65.7
175	5.0 - 9.0% of mass 174	5.2 (7.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	63.8 (97.1)1
177	5.0 - 9.0% of mass 176	5.1 (7.9)2

1-Value is % mass 174

2-Value is % mass 176

IS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD50	AS118	11/17/88	13:05
2	VSTD 20	AS120	11/17/88	20:49
3	VSTD100	AS121	11/17/88	21:32
4	VSTD150	AS122	11/17/88	22:15
5	VSTD200	AS123	11/17/88	22:57
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Lab File ID: AT152

BFB Injection Date: 1/10/89

Instrument ID.: 7001A

BFB Injection Time: 11:00

Matrix: (soil/water) WATER Level: (low/med): LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	56.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	.0_ (.0)1
174	Greater than 50.0% of mass 95	73.6
175	5.0 - 9.0% of mass 174	5.6_ (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	72.0_ (97.7)1
177	5.0 - 9.0% of mass 176	5.4_ (7.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	AS178	1/10/89	11:28
2	VBLK	AB082	1/10/89	12:44
3	90110B03	A0843	1/10/89	18:56
4	90110B01	A0844	1/10/89	19:37
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Lab File ID: AT160

BFB Injection Date: 1/17/89

Instrument ID.: 7001A

BFB Injection Time: 8:19

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.3
75	30.0 - 60.0% of mass 95	58.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	82.3
175	5.0 - 9.0% of mass 174	5.0 (6.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.9 (95.9)1
177	5.0 - 9.0% of mass 176	5.7 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1 VSTD050		AS186	1/17/89	11:00
2 VBLK		AB087	1/17/89	11:40
3 90110B01 DL		A0906	1/17/89	17:03
4 90110MS		A0907	1/17/89	17:42
5 90110MSD		A0908	1/17/89	18:21
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Instrument ID: 7001A

Calibration Date(s): 11/17/88

11/17/88

Matrix: (soil/water) WATER Level: (low/med): LOW Column: (pack/cap) PACK

Min RRF for SPOC(%) = .300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID:

RRF 20= AS120

RRF50 = AS118

RRF100= AS121

RRF150= AS122

RRF200= AS123

COMPOUND	RRF 20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane	# .539	.377	.437	.502	.370	.445	16.8#
Bromomethane	1.388	1.247	1.247	1.128	1.004	1.203	12.0
Vinyl Chloride	* .896	.597	.773	.705	.527	.700	20.8*
Chloroethane	.639	.546	.612	.565	.512	.575	8.9
Methylene Chloride	1.323	1.164	1.143	1.069	.998	1.139	10.7
Acetone	.497	.395	.383	.316	.359	.390	17.2
Carbon Disulfide	3.098	2.944	2.847	2.559	2.324	2.754	11.3
1,1-Dichloroethane	* 1.252	1.201	1.174	1.082	.969	1.136	9.8*
1,1-Dichloroethane	# 2.572	2.456	2.444	2.326	2.170	2.393	6.4#
1,2-Dichloroethane (total)	1.273	1.215	1.164	1.121	1.035	1.162	7.8
Bromoform	3.584	3.433	3.259	3.147	2.927	3.270	7.8
1,2-Dichloroethane	3.091	2.829	2.980	2.849	2.748	2.899	4.7
2-Butanone	.115	.106	.118	.099	.107	.109	6.7
1,1,1-Trichloroethane	3.779	3.301	3.375	3.222	2.898	3.315	9.6
Carbon Tetrachloride	3.520	3.154	3.146	3.045	2.611	3.095	10.5
Vinyl Acetate	.094	.158	.136	.105	.086	.116	26.3
Bromodichloromethane	3.452	3.354	3.310	3.222	3.026	3.273	4.9
1,2-Dichloropropane	* .412	.383	.426	.407	.399	.405	4.0*
trans-1,3-Dichloropropene	1.209	1.184	1.269	1.219	1.228	1.222	2.5
Trichloroethene	.552	.460	.504	.505	.504	.505	6.5
Dibromochloromethane	.658	.639	.714	.680	.705	.679	4.6
1,1,2-Trichloroethane	.382	.369	.395	.371	.380	.379	2.7
Benzene	.905	.847	.913	.882	.856	.880	3.3
cis-1,3-Dichloropropene	.381	.376	.398	.382	.390	.386	2.3
Bromoform	# .604	.581	.679	.632	.673	.634	6.7#
2-Hexanone	.446	.392	.460	.365	.409	.414	9.3
4-Methyl-2-Pentanone	.648	.586	.716	.573	.635	.632	9.1
Tetrachloroethene	.528	.487	.488	.485	.447	.487	5.9
1,1,2,2-Tetrachloroethane	# .621	.747	.753	.623	.625	.674	10.3#
Toluene	* .859	.716	.757	.717	.680	.746	9.2*
Chlorobenzene	# 1.012	.967	.957	.946	.921	.961	3.5#
Ethylbenzene	* .501	.453	.453	.445	.433	.457	5.6*
Xylenes	1.111	1.012	1.057	.954	.999	1.026	5.8
Xylenes (total)	.542	.572	.593	.545	.552	.581	6.7
Bromofluorobenzene	1.153	.961	.958	.936	.945	.970	11.2
1,3-Dichloroethane-d4	3.053	2.422	2.610	2.471	2.419	2.595	10.3
Toluene d-8	1.378	1.079	1.180	1.113	1.097	1.170	10.5

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Instrument ID: 7001A

Calibration Date: 1/10/89

Time: 11:28

Lab File ID: AS178

Init. Calib. Date(s): 11/17/88 11/17/88

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = .300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	.445	.391	12.3
Bromomethane	1.203	1.509	25.4
Vinyl Chloride	.700	.680	2.8
Chloroethane	.575	.482	16.1
Methylene Chloride	1.139	.890	21.9
Acetone	.390	.270	30.7
Carbon Disulfide	2.754	1.581	42.6
1,1-Dichloroethene	* 1.136	.866	23.7 *
1,1-Dichloroethane	# 2.393	1.910	20.2 #
1,2-Dichloroethene (total)	1.162	.896	22.9
Chloroform	3.270	2.619	19.9
1,2-Dichloroethane	2.899	2.229	23.1
2-Butanone	.109	.083	23.6
1,1,1-Trichloroethane	3.315	3.077	7.2
Carbon Tetrachloride	3.095	3.309	6.9
Vinyl Acetate	.116	.101	12.8
Bromodichloromethane	3.273	2.699	17.5
1,2-Dichloropropane	* .405	.349	13.8 *
trans-1,3-Dichloropropene	1.222	.921	24.7
Trichloroethene	.505	.487	3.5
Dibromochloromethane	.679	.688	1.3
1,1,2-Trichloroethane	.379	.323	15.0
Benzene	.880	.666	24.3
cis-1,3-Dichloropropene	.386	.295	23.5
Bromoform	# .634	.685	8.2 #
2-Hexanone	.414	.367	11.4
4-Methyl-2-Pentanone	.632	.455	28.0
Tetrachloroethene	.487	.594	21.9
1,1,2,2-Tetrachloroethane	# .674	.507	24.8 #
Toluene	* .746	.587	21.3 *
Chlorobenzene	# .961	.873	9.2 #
Ethylbenzene	* .457	.392	14.3 *
Styrene	1.026	.851	17.1
Xylenes (total)	.581	.482	17.0
Bromofluorobenzene	.970	.905	6.7
1,2-Dichloroethane-d4	2.595	2.072	20.2
Toluene d-8	1.170	1.018	13.0

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Instrument ID: 7001A

Calibration Date: 1/17/89

Time: 11:00

Lab File ID: AS186

Init. Calib. Date(s): 11/17/88 11/17/88

Matrix: (soil/water) WATER Level: (low/med): LOW Column: (pack/cap) PACK

in RRF50 for SPCC(%) = .300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	.445	.372	16.4
Bromomethane	1.203	1.017	15.4
Vinyl Chloride	.700	.554	20.9
Chloroethane	.575	.382	33.5
Methylene Chloride	1.139	.875	23.2
Acetone	.390	.170	56.3
Carbon Disulfide	2.754	1.182	57.1
1,1-Dichloroethene	* 1.136	.857	24.5 *
1,1-Dichloroethane	# 2.393	1.652	31.0 #
1,2-Dichloroethene (total)	1.162	.972	16.4
Chloroform	3.270	2.584	21.0
1,2-Dichloroethane	2.899	1.970	32.1
2-Butanone	.109	.057	47.8
1,1,1-Trichloroethane	3.315	2.794	15.7
Carbon Tetrachloride	3.095	2.926	5.5
Vinyl Acetate	.116	.055	52.3
Bromodichloromethane	3.273	3.170	3.1
1,2-Dichloropropane	* .405	.312	23.1 *
trans-1,3-Dichloropropene	1.222	.995	18.6
Trichloroethene	.505	.494	2.1
Dibromochloromethane	.679	.815	20.0
1,1,2-Trichloroethane	.379	.356	6.1
Benzene	.880	.672	23.6
cis-1,3-Dichloropropene	.386	.312	19.2
Bromoform	# .634	.892	40.8 #
2-Hexanone	.414	.220	46.9
4-Methyl-2-Pentanone	.632	.332	47.4
Tetrachloroethene	.487	.572	17.5
1,1,2,2-Tetrachloroethane	# .674	.667	1.0 #
Toluene	* .746	.564	24.3 *
Chlorobenzene	# .961	.882	8.2 #
Ethylbenzene	* .457	.360	21.2 *
Styrene	1.026	.722	29.6
Xylenes (total)	.581	.399	31.4
Bromofluorobenzene	.970	.806	17.0
1,2-Dichloroethane-d4	2.595	1.512	41.7
Toluene d-8	1.170	.813	30.4

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Instrument ID: 7001A

Calibration Date: 1/18/89

Time: 7:50

Lab File ID: AS187

Init. Calib. Date(s): 11/17/88 11/17/88

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

Min RRF50 for SPOC(%) = .300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D
Chloromethane	.445	.447	.4
Bromomethane	1.203	1.135	5.7
Vinyl Chloride	.700	.631	9.8
Chloroethane	.575	.407	29.1
Methylene Chloride	1.139	.963	15.5
Acetone	.390	.251	35.5
Carbon Disulfide	2.754	1.095	60.2
1,1-Dichloroethene	* 1.136	.928	18.3
1,1-Dichloroethane	# 2.393	1.768	26.1
1,2-Dichloroethene (total)	1.162	.997	14.2
Chloroform	3.270	2.724	16.7
1,2-Dichloroethane	2.899	2.093	27.8
2-Butanone	.109	.070	35.6
1,1,1-Trichloroethane	3.315	3.012	9.1
Carbon Tetrachloride	3.095	3.154	1.9
Vinyl Acetate	.116	.064	45.0
Bromodichloromethane	3.273	3.280	.2
1,2-Dichloropropane	* .405	.312	22.9
trans-1,3-Dichloropropene	1.222	1.027	16.0
Trichloroethene	.505	.510	.9
Dibromochloromethane	.679	.846	24.6
1,1,2-Trichloroethane	.379	.365	3.9
Benzene	.880	.696	21.0
cis-1,3-Dichloropropene	.386	.315	18.4
Bromoform	# .634	.948	49.6
2-Hexanone	.414	.313	24.4
4-Methyl-2-Pentanone	.632	.443	29.9
Tetrachloroethene	.487	.716	47.0
1,1,2,2-Tetrachloroethane	# .574	.837	24.3
Toluene	* .746	.694	7.0
Chlorobenzene	# .961	.939	2.3
Ethylbenzene	* .457	.454	.6
Styrene	1.026	.931	9.3
Xylenes (total)	.581	.518	10.8
Bromofluorobenzene	.970	1.077	11.0
1,2-Dichloroethane-d4	2.595	1.735	33.1
Toluene d-8	1.170	1.074	8.2



P.O. Box 265
298 Riverside Avenue
Rensselaer, NY 12144
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LABORATORY REPORT

for

Pole-Lite Industries
RD-1 Box 143
Champlain, NY 12919 9718

Attention: Mr. Antonio Gagliardi

Report date: 03/10/89
Number of samples analyzed: 6
AES Project ID: 890224 W

CC: Malcolm Pirnie



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ORGANIC CASE NARRATIVE

Project: Polelite 890224 W

The following case narrative refers to all samples noted on the
NYSDEC Sample Identification and Analytical Requirement Summary form.

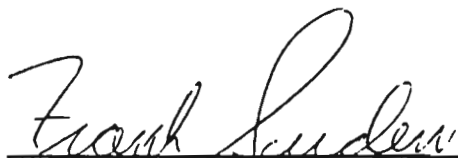
Date Received: February 24, 1989 _____ Contract Number: N/A _____

Shipment Problems Encountered: NONE _____

Extraction Problems Encountered: NONE _____

Analysis Problems Encountered: Sample 890224 W04 required dilution
due to high levels of components. The sample was run at a 1:50
dilution. _____

Corrective Action Taken: NONE _____


Laboratory Director



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TITLE PAGE

A representative of Malcolm Pirnie, Inc., Mr. Anthony Murtaugh, hand delivered five (5) groundwater samples from the Pole-Lite Industries site in Champlain, NY on February 24, 1989. The project required us to analyze the samples for the volatile portion of the Target Compound List according to the 1987 New York State Department of Environmental Conservation Contract Laboratory Protocol. The project was completed on March 10, 1989.

APPROVED BY:

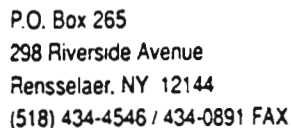
Frank Scuderi
Laboratory Director

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

[illegible]

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA
ANALYSES

[illegible]



CHAIN OF CUSTODY RECORD

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of \$10.00 per container for disposal.

PINK - Generator Copy

Adirondack Environmental Services, Inc.



P.O. Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CONTRACT LABORATORY PROTOCOL

In-House Chain of Custody

Sample #	Bottle #	Relinquished By	Received By	Time/Date
890224-W01	#1	<i>[Signature]</i>	<i>[Signature]</i>	2/24/99 17:00
W01	#2	<i>[Signature]</i>	<i>[Signature]</i>	
W01	#3	<i>[Signature]</i>	<i>[Signature]</i>	
890224-W02	#1	<i>[Signature]</i>	<i>[Signature]</i>	
W02	#2	<i>[Signature]</i>	<i>[Signature]</i>	
W02	#3	<i>[Signature]</i>	<i>[Signature]</i>	
890224-W03	#1	<i>[Signature]</i>	<i>[Signature]</i>	
W03	#2	<i>[Signature]</i>	<i>[Signature]</i>	
W03	#3	<i>[Signature]</i>	<i>[Signature]</i>	
890224-W04	#1	<i>[Signature]</i>	<i>[Signature]</i>	
W04	#2	<i>[Signature]</i>	<i>[Signature]</i>	
W04	#3	<i>[Signature]</i>	<i>[Signature]</i>	
890224-W05	#1	<i>[Signature]</i>	<i>[Signature]</i>	
W05	#2	<i>[Signature]</i>	<i>[Signature]</i>	
W05	#3	<i>[Signature]</i>	<i>[Signature]</i>	



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SAMPLE DATA SUMMARY SECTION

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90224W01

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1121

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	5.	U
540-59-0	-----1,2-Dichloroethene (total)	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	5.	U
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W01

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1121

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

EPA SAMPLE NO.

90224W02

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

Sample Wt/vol: 5.0 (g/mL) ML

Lab File ID: A1122

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	5.	U
540-59-0	-----1,2-Dichloroethene (total)	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	5.	U
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W02

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/Vol: 5.0 (g/mL) ML

Lab File ID: A1122

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

Number TICs found: 0

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

EPA SAMPLE NO.

90224W03

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1123

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	5.	U
540-59-0	-----1,2-Dichloroethene (total)	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	5.	U
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W03

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1123

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

Number TICs found: 0

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

EPA SAMPLE NO.

90224W04

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A112A

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 50.00

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

74-87-3	Chloromethane	500.	U
74-83-9	Bromomethane	500.	U
75-01-4	Vinyl Chloride	500.	U
75-00-3	Chloroethane	690.	
75-09-2	Methylene Chloride	250.	U
67-64-1	Acetone	750.	B
75-15-0	Carbon Disulfide	250.	U
75-35-4	1,1-Dichloroethene	250.	U
75-34-3	1,1-Dichloroethane	6100.	
540-59-0	1,2-Dichloroethene (total)	250.	U
67-66-3	Chloroform	250.	U
107-06-2	1,2-Dichloroethane	250.	U
78-93-3	2-Butanone	500.	U
71-55-6	1,1,1-Trichloroethane	34000.	E
56-23-5	Carbon Tetrachloride	250.	U
108-05-4	Vinyl Acetate	500.	U
75-27-4	Bromodichloromethane	250.	U
78-87-5	1,2-Dichloropropane	250.	U
10061-02-6	trans-1,3-Dichloropropene	250.	U
79-01-6	Trichloroethene	250.	U
124-48-1	Dibromochloromethane	250.	U
79-00-5	1,1,2-Trichloroethane	250.	U
71-43-2	Benzene	250.	U
10061-01-5	cis-1,3-Dichloropropene	250.	U
75-25-2	Bromoform	250.	U
591-78-6	2-Hexanone	500.	U
108-10-1	4-Methyl-2-Pentanone	500.	U
127-18-4	Tetrachloroethene	250.	U
79-34-5	1,1,2,2-Tetrachloroethane	250.	U
108-88-3	Toluene	250.	U
108-90-7	Chlorobenzene	250.	U
100-41-4	Ethylbenzene	250.	U
100-42-5	Styrene	250.	U
1330-20-7	Xylenes (total)	250.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W04

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A112A

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 50.00

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	Ethane, 1,1,2-trichloro-1,2,	10.32	600.	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90224W05

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1124

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	15.	
540-59-0	-----1,2-Dichloroethene (total)	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	5.	J
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W05

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1124

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

EPA SAMPLE NO.

90224W06

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1125

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W06

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1125

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SAMPLE DATA SECTION

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

	EPA	S1	S2	S3	OTHER	TOT
	SAMPLE NO.	(TOL) #	(BFB) #	(DCE) #		OUT
1	VBLK	107	109	104		0
2	90224W01	105	109	102		0
3	90224W02	112	111	107		0
4	90224W03	110	110	104		0
5	90224W05	94	98	90		0
6	90224W06	110	113	105		0
7	90224W04	111	110	108		0
8	90224MSW03	109	114	105		0
9	90224MSD W03	111	108	108		0
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QC LIMITS

S1 (TOL) = Bromofluorobenzene (86-115)
 S2 (BFB) = 1,2-Dichloroethane-d4 (76-114)
 S3 (DCE) = Toluene d-8 (88-110)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.: 90224W

Matrix Spike - EPA Sample No.: 90224W03

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.	0.	47.	95.	61-145
Trichloroethene	50.	0.	48.	95.	71-120
Benzene	50.	0.	49.	97.	76-127
Toluene	50.	0.	47.	94.	76-125
Chlorobenzene	50.	0.	49.	97.	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50.	49.	99.	4.	147	61-145
Trichloroethene	50.	49.	99.	4.	14	71-120
Benzene	50.	51.	101.	4.	11	76-127
Toluene	50.	50.	99.	5.	13	76-125
Chlorobenzene	50.	50.	100.	3.	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Lab File ID: AB112

Lab Sample ID:

Date Analyzed: 3/ 1/89

Time Analyzed: 11:12

Matrix: (soil/water) WATER

Level: (low/med) LOW

Instrument ID: 7001A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	90224W01		A1121	11:49
2	90224W02		A1122	12:26
3	90224W03		A1123	13:03
4	90224W05		A1124	13:40
5	90224W06		A1125	14:17
6	90224W04		A112A	14:54
7	90224MSW03		A1127	15:30
8	90224MSDW03		A1128	16:07
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26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90224W04

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A112A

Level: (low/med) LDW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 50.00

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

74-87-3	Chloromethane	500.	U
74-83-9	Bromomethane	500.	U
75-01-4	Vinyl Chloride	500.	U
75-00-3	Chloroethane	690.	
75-09-2	Methylene Chloride	250.	U
67-64-1	Acetone	750.	B
75-15-0	Carbon Disulfide	250.	U
75-35-4	1,1-Dichloroethene	250.	U
75-34-3	1,1-Dichloroethane	6100.	
540-59-0	1,2-Dichloroethene (total)	250.	U
67-66-3	Chloroform	250.	U
107-06-2	1,2-Dichloroethane	250.	U
78-93-3	2-Butanone	500.	U
71-55-6	1,1,1-Trichloroethane	34000.	E
56-23-5	Carbon Tetrachloride	250.	U
108-05-4	Vinyl Acetate	500.	U
75-27-4	Bromodichloromethane	250.	U
78-87-5	1,2-Dichloropropane	250.	U
10061-02-6	trans-1,3-Dichloropropene	250.	U
79-01-6	Trichloroethene	250.	U
124-48-1	Dibromochloromethane	250.	U
79-00-5	1,1,2-Trichloroethane	250.	U
71-43-2	Benzene	250.	U
10061-01-5	cis-1,3-Dichloropropene	250.	U
75-25-2	Bromoform	250.	U
591-78-6	2-Hexanone	500.	U
108-10-1	4-Methyl-2-Pentanone	500.	U
127-18-4	Tetrachloroethene	250.	U
79-34-5	1,1,2,2-Tetrachloroethane	250.	U
108-88-3	Toluene	250.	U
108-90-7	Chlorobenzene	250.	U
100-41-4	Ethylbenzene	250.	U
100-42-5	Styrene	250.	U
1330-20-7	Xylenes (total)	250.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W04

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A112A

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 50.00

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

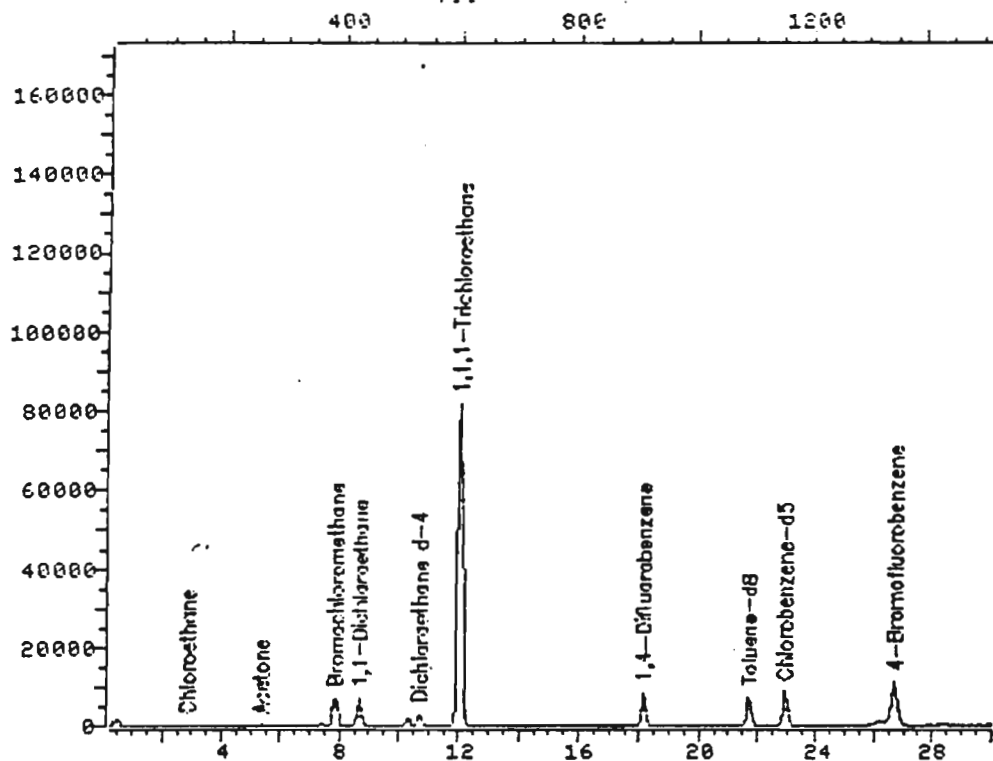
Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	Ethane, 1,1,2-trichloro-1,2,	10.32	600.	J
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.				

TOTAL ION CHROMATOGRAM

File >A112A 35.0-260.0 amu. 890224 W04 (1:50) GC/MS A

TIC



Data File: >A112A::D1
Name: 890224 W04 (1:50)
Misc: GC/MS A

Quant Output File: ^A112A::QT

Id File: ID_VOA::QT
Title: HP VOA Continuing Calibration Standard
Last Calibration: 890301 11:31

Operator ID: MARIE
Quant Time: 890301 15:31
Injected at: 890301 14:54

QUANT REPORT

Operator ID: MARIE
 Output File: ^A112A::QT
 Data File: >A112A::D1
 Name: 890224 W04 (1:50)
 Desc: GC/MS A

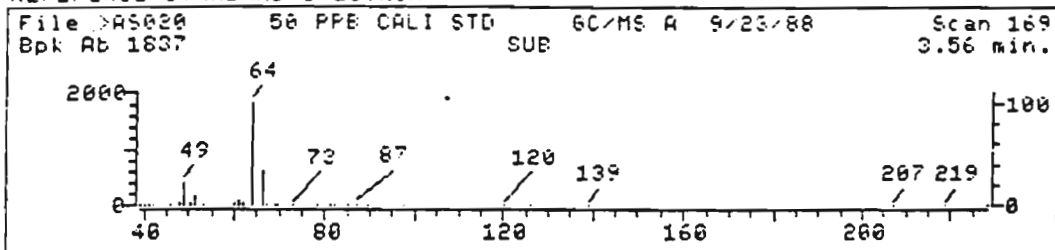
Quant Rev: 6 Quant Time: 890301 15:31
 Injected at: 890301 14:54
 Dilution Factor: 1.00000

ID File: ID_VOA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890301 11:31

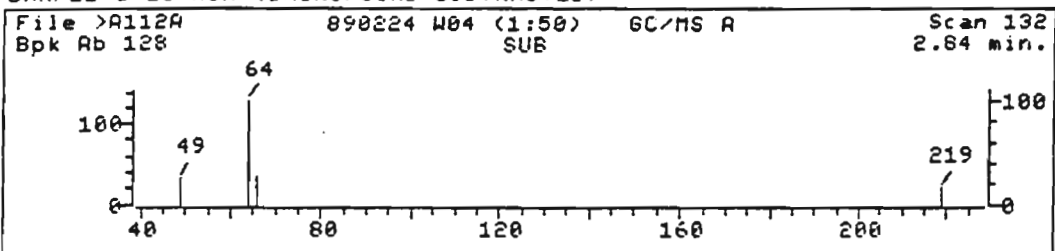
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	7.84	128.0	11400	50.00	UG/L	96
5)	Chloroethane	2.84	64.0	1180	13.81	UG/L	85
7)	Acetone	5.32	43.0	1593	14.95	UG/L	96
11)	1,1-Dichloroethane	8.66	63.0	36032	121.10	UG/L	96
14)	1,2-Dichloroethane-d4	10.69	65.0	13503M	55.14	UG/L	89
17)	1,1,1-Trichloroethane	12.00	97.0	312779	675.41	UG/L	95
21)	*1,4-Difluorobenzene	18.10	114.0	37700	50.00	UG/L	96
31)	*Chlorobenzene-d5	22.89	117.0	31923	50.00	UG/L	94
37)	Toluene d-8	21.68	98.0	30642	54.10	UG/L	92
41)	Bromofluorobenzene	26.68	95.0	29079	55.57	UG/L	79

* Compound is ISTD

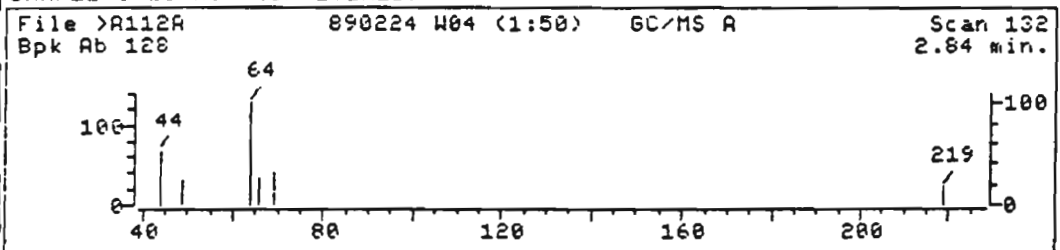
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >A112A::D1
Name: 890224 W04 (1:50)
Misc: GC/MS A
Quant Time: 890301 15:31
Injected at: 890301 14:54

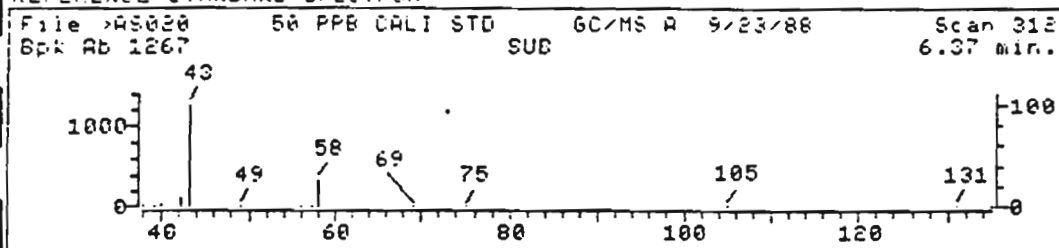
Quant Output File: ^A112A::QT

Quant ID File: ID_VOA::QT
Last Calibration: 890301 11:31

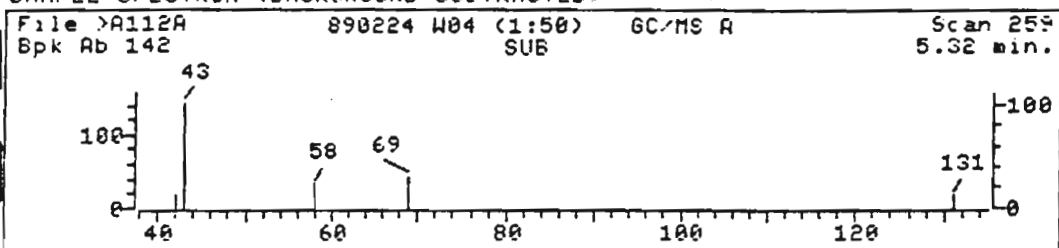
Compound No: 5
Compound Name: Chloroethane
Scan Number: 132
Retention Time: 2.84 min.
Quant Ion: 64.0
Area: 1180
Concentration: 13.81 UG/L
q-value: 85

✓ MC

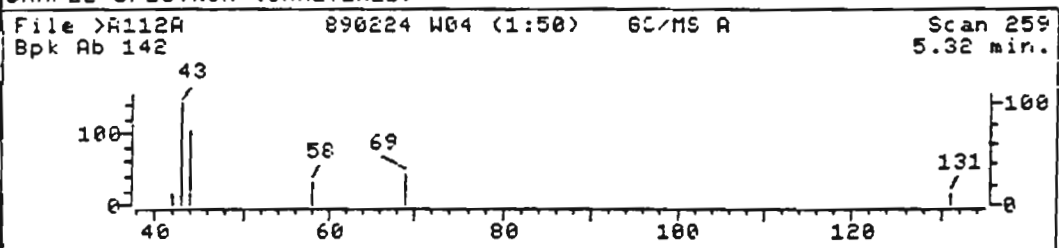
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >A112A::D1
Name: 890224 W04 (1:50)
Misc: GC/MS A
Quant Time: 890301 15:31
Injected at: 890301 14:54

Quant Output File: ^A112A::QT

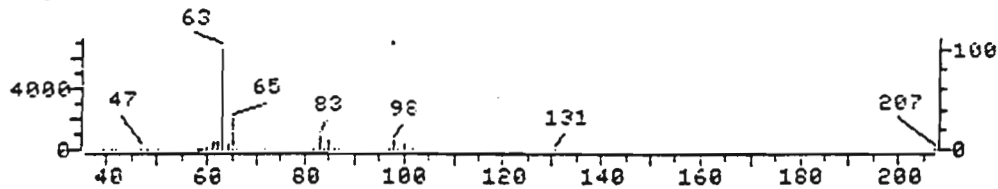
Quant ID File: ID_VOA::QT
Last Calibration: 890301 11:31

Compound No: 7
Compound Name: Acetone
Scan Number: 259
Retention Time: 5.32 min.
Quant Ion: 43.0
Area: 1593
Concentration: 14.95 UG/L
q-value: 96

(Handwritten signature)

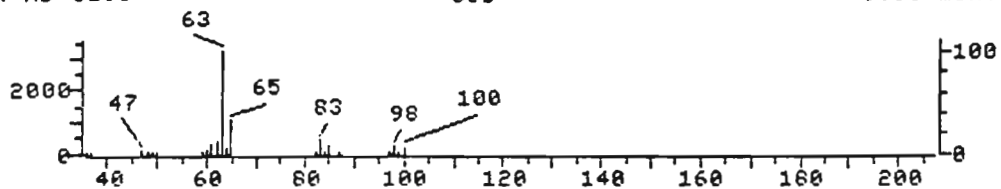
REFERENCE STANDARD SPECTRUM

File >AS020 50 PFB CALI STD GC/MS A 9/23/88 Scan 488
Bpk Ab 6691 SUB 9.81 min.



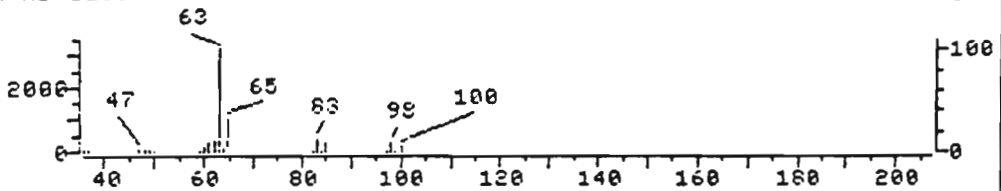
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >A112A 890224 W04 (1:50) GC/MS A Scan 430
Bpk Ab 3200 SUB 8.66 min.



SAMPLE SPECTRUM (UNALTERED)

File >A112A 890224 W04 (1:50) GC/MS A Scan 430
Bpk Ab 3200 SUB 8.66 min.



Data File: >A112A::D1
Name: 890224 W04 (1:50)
Misc: GC/MS A
Quant Time: 890301 15:31
Injected at: 890301 14:54

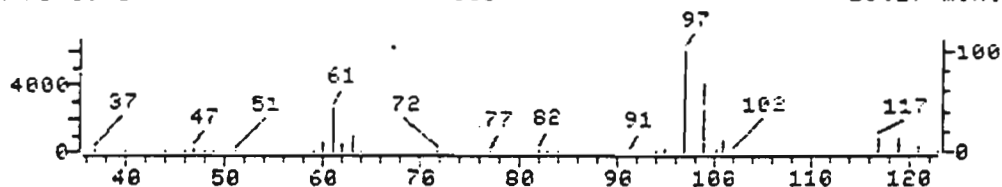
Quant Output File: ^A112A::QT
Quant ID File: ID_UOA::QT
Last Calibration: 890301 11:31

Compound No: 11
Compound Name: 1,1-Dichloroethane
Scan Number: 430
Retention Time: 8.66 min.
Quant Ion: 63.0
Area: 36032
Concentration: 121.10 UG/L
q-value: 96

✓ (Signature)

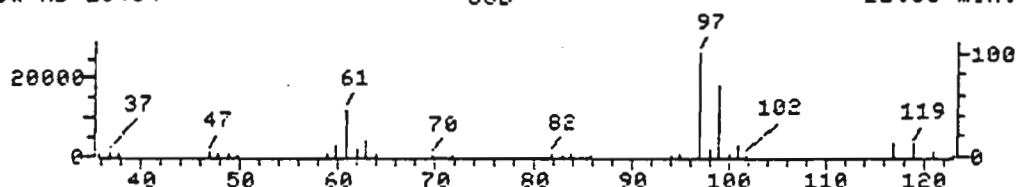
REFERENCE STANDARD SPECTRUM

File >AS020 50 PPE CALI STD GC/MS A 9/23/86 Scan 665
Bpk Ab 6032 SUB 13.27 min.



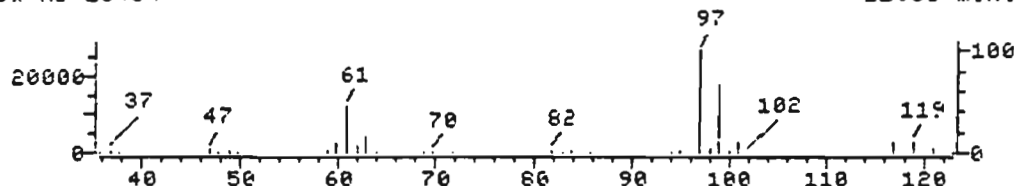
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >A112A 890224 W04 (1:50) GC/MS A Scan 601
Bpk Ab 26464 SUB 12.00 min.



SAMPLE SPECTRUM (UNALTERED)

File >A112A 890224 W04 (1:50) GC/MS A Scan 601
Bpk Ab 26464 12.00 min.



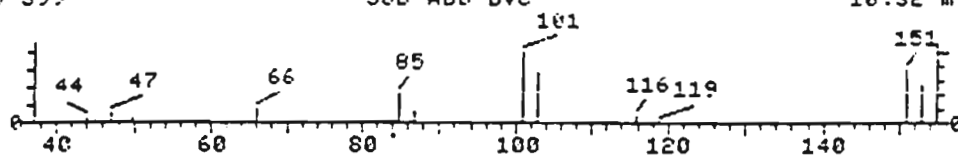
Data File: >A112A::D1
Name: 890224 W04 (1:50)
Misc: GC/MS A
Quant Time: 890301 15:31
Injected at: 890301 14:54

Quant Output File: ^A112A::QT
Quant ID File: ID_VOA::QT
Last Calibration: 890301 11:31

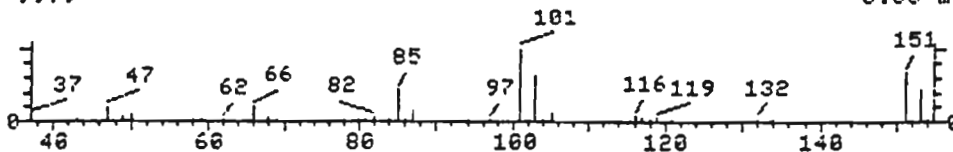
Compound No: 17
Compound Name: 1,1,1-Trichloroethane
Scan Number: 601
Retention Time: 12.00 min.
Quant Ion: 97.0
Area: 312779
Concentration: 675.41 UG/L
q-value: 95

✓ (signature)

File >A112A 890224 W04 (1:50) GC/MS A Scan 515
Ab 399 SUB ADD DVC 10.32 min.



File >BIGDB Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (8C19Cl) Scan 9403
Ab 999 8.00 min.



Injected at: 890301 14:54

Unknown #,1

Area = 18979.00 Tentative Concentration is 12.00

1. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (8C19Cl) 186 C2Cl3F3

Sample file: >A112A Spectrum #: 515
Search speed: 2 Tilting option: S No. of ion ranges searched: 42

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1. 83	76131	9403	"BIGDB	94	44	2	0	81	0	57	28

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90224W05

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1124

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	15.	
540-59-0	-----1,2-Dichloroethene (total)	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	5.	J
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90224W05

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1124

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

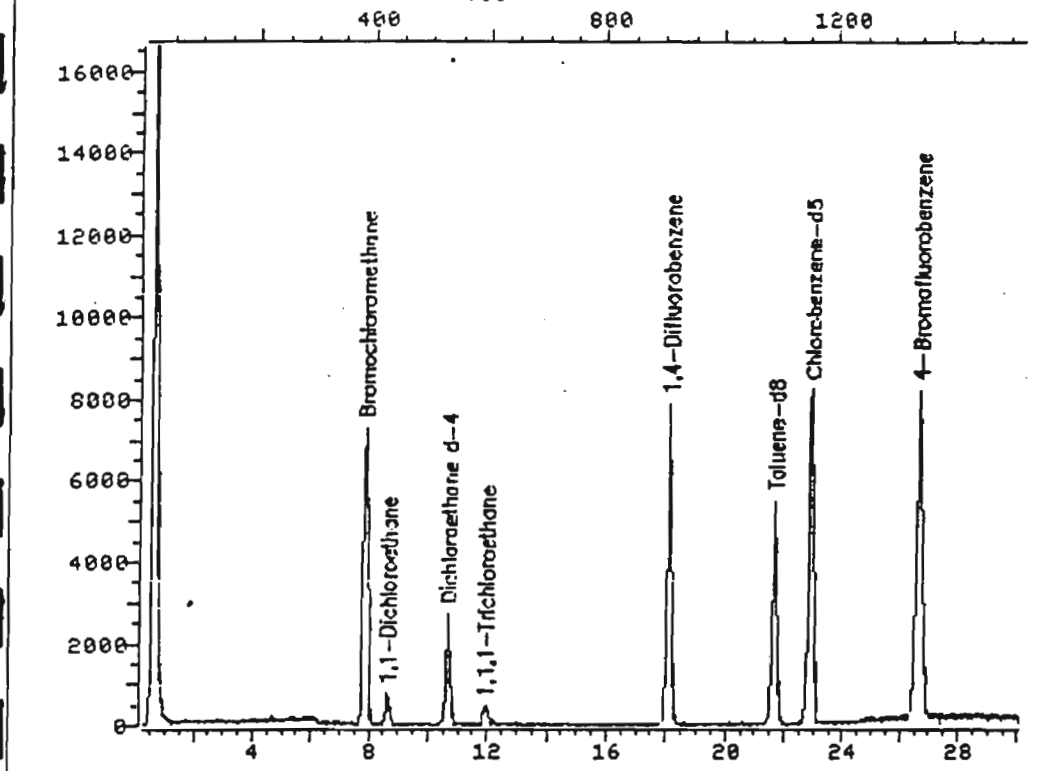
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ION CHROMATOGRAM

File >A1124 35.0-260.0 amu. 890224 W05

GC/MS A.

TIC



Data File: >A1124::D1

Quant Output File: ^A1124::QT

Name: 890224 W05

Misc: GC/MS A

Id File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890301 11:31

Operator ID: MARIE

Quant Time: 890301 14:11

Injected at: 890301 13:40

QUANT REPORT

Operator ID: MARIE

Quant Rev: 6

Quant Time: 890301 14:11

Output File: ^A1124::QT

Injected at: 890301 13:40

Data File: >A1124::D1

Dilution Factor: 1.00000

Name: 890224 W05

sc: GC/MS A

ID File: ID_VOA::QT

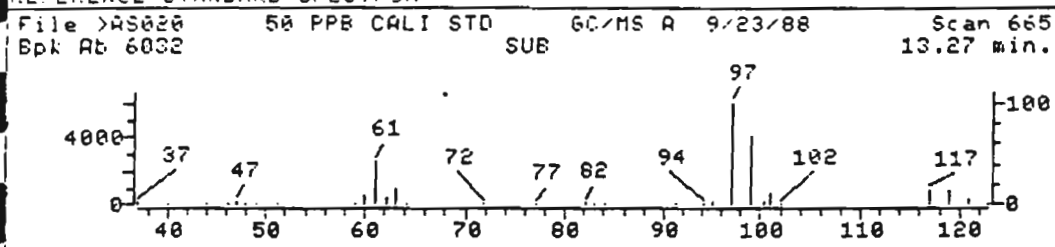
Title: HP VOA Continuing Calibration Standard

Last Calibration: 890301 11:31

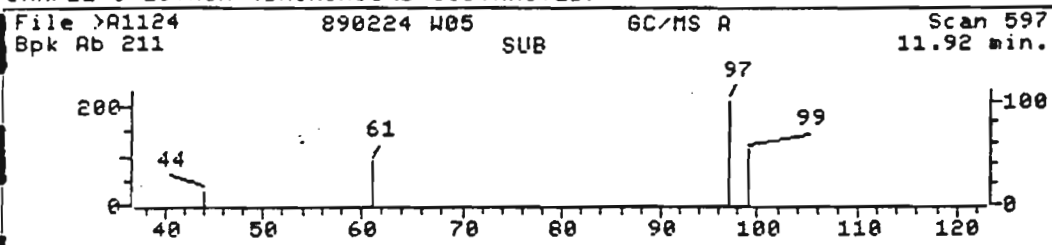
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	7.84	128.0	11356	50.00	UG/L	93
11)	1,1-Dichloroethane	8.62	63.0	4433	14.96	UG/L	95
1)	1,2-Dichloroethane-d4	10.65	65.0	12003	49.21	UG/L	84
1)	1,1,1-Trichloroethane	11.92	97.0	2124	4.60	UG/L	77
21)	*1,4-Difluorobenzene	18.06	114.0	34489	50.00	UG/L	95
3)	*Chlorobenzene-d5	22.87	117.0	29271	50.00	UG/L	92
3)	Toluene d-8	21.64	98.0	23478	45.21	UG/L	95
42)	Bromofluorobenzene	26.60	95.0	22611	47.12	UG/L	73

Compound is ISTD

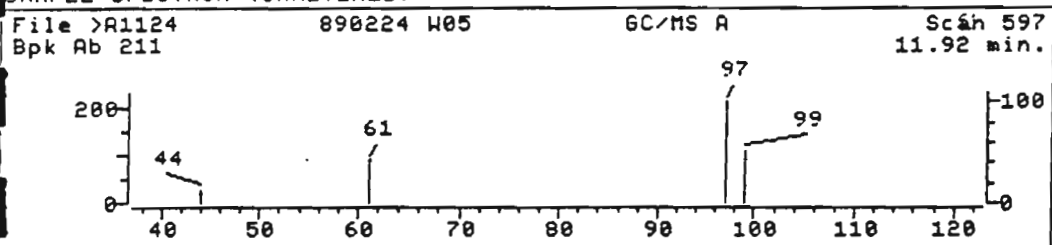
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >A1124::D1

Quant Output File: ^A1124::QT

Name: 890224 W05

Misc: GC/MS A

Quant Time: 890301 14:11

Quant ID File: ID_VOA::QT

Injected at: 890301 13:40

Last Calibration: 890301 11:31

Compound No: 17

Compound Name: 1,1,1-Trichloroethane

Scan Number: 597

Retention Time: 11.92 min.

Quant Ion: 97.0

Area: 2124

Concentration: 4.60 UG/L

q-value: 77

✓ (signature)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90224W06

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1125

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	5.	U
540-59-0	-----1,2-Dichloroethene (total)	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	5.	U
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

EFA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET
IDENTIFIED COMPOUNDS

90224W06

$$AD \perp BC$$

Contract:

Sub N=1

ADIFF

Ref No.:

SAS No.:

SDG No. :

1998

Oil/Water

Lab Sample ID:

sty:

Vol: 5.0 (g/mL) ML

Lab File ID: A1125

[illegible]

11 SW/MEZ -

Date Received: 2/24/89

well:

... not = 20.

Date Analyzed: 3/ 1/89

Index

$$1, \text{ pack/cup} = 2.5 \times 10^{-4}$$

Dilution Factor: 1.00

1990

11 - Young:

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

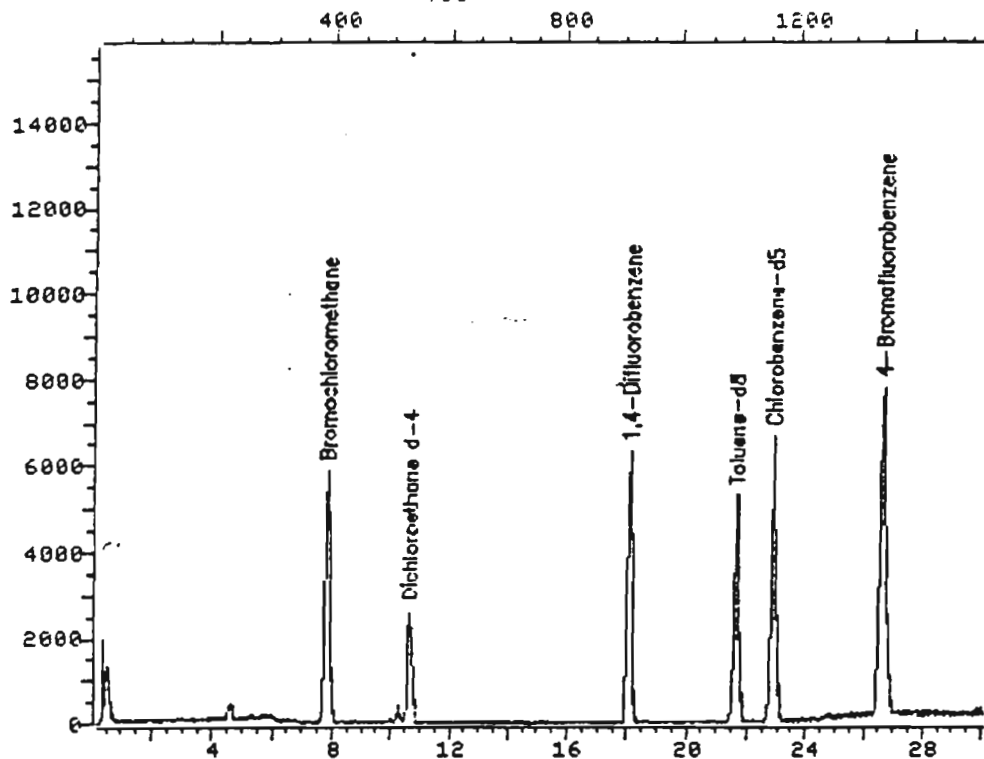
[illegible]

TOTAL ION CHROMATOGRAM

File >A1125 35.0-250.0 amu. 890224 W06

GC/MS A

TIC



Data File: >A1125::D1

Quant Output File: ^A1125::QT

Name: 890224 W06

Misc: GC/MS A

Id File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890301 11:31

Operator ID: MARIE

Quant Time: 890301 14:48

Injected at: 890301 14:17

QUANT REPORT

Operator ID: MARIE

Quant Rev: 6

Quant Time: 890301 14:48

Output File: ^A1125::QT

Injected at: 890301 14:17

Data File: >A1125::D1

Dilution Factor: 1.00000

Name: 890224 W06

sc: GC/MS A

ID File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890301 11:31

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Bromochloromethane	7.80	128.0	9059	50.00	UG/L	94
14) 1,2-Dichloroethane-d4	10.63	65.0	10958M	56.31	UG/L	81
18) *1,4-Difluorobenzene	18.06	114.0	27361	50.00	UG/L	95
22) *Chlorobenzene-d5	22.85	117.0	23558	50.00	UG/L	95
37) Toluene d-8	21.62	98.0	22022	52.69	UG/L	91
42) Bromofluorobenzene	26.62	95.0	21212	54.93	UG/L	76

Compound is ISTD

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Instrument ID: 7001A

Calibration Date(s): 1/19/89

1/19/89

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

Min RRF for SPCC(#) = .300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF020= AS195 RRF050= AS188
RRF100= AS193 RRF150= AS194 RRF200= AS191

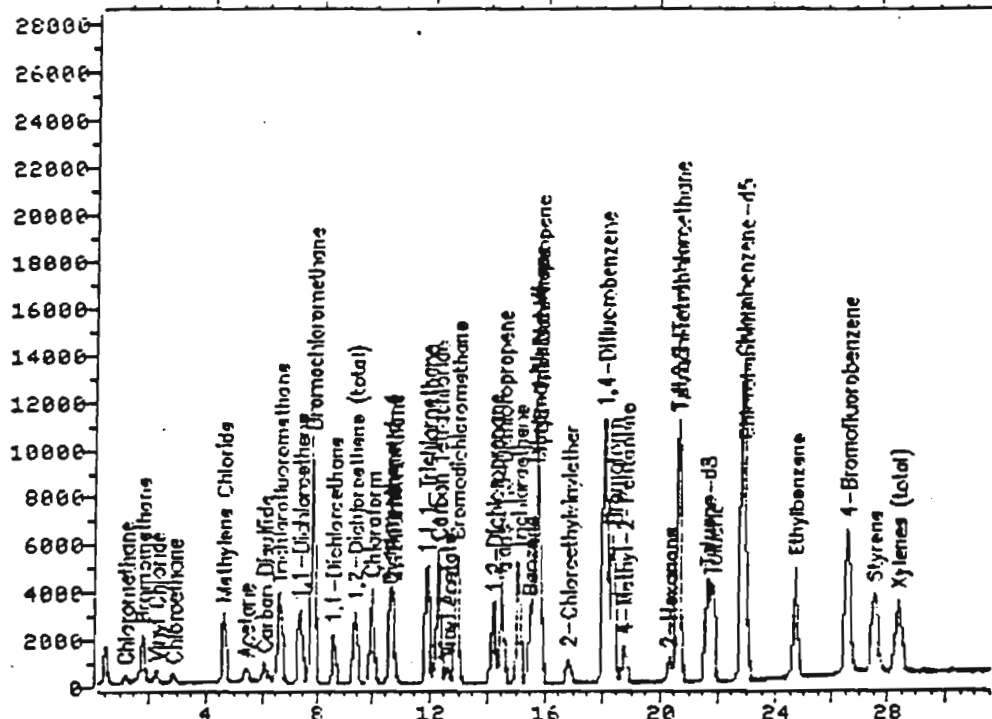
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane #	.346	.347	.512	.470	.428	.421	17.5#
Bromomethane	.956	.984	1.116	.952	.967	.995	6.9
Vinyl Chloride *	.497	.528	.600	.483	.495	.521	9.1*
Chloroethane	.324	.351	.440	.366	.316	.359	13.7
Methylene Chloride	.889	.803	.875	.830	.875	.855	4.3
Acetone	.340	.161	.186	.169	.162	.203	37.8
Carbon Disulfide	.931	.933	1.070	1.150	1.166	1.050	10.8
1,1-Dichloroethene *	.899	.818	.892	.853	.928	.878	4.9*
1,1-Dichloroethane #	1.751	1.556	1.801	1.671	1.773	1.710	5.8#
1,2-Dichloroethene (total)	.958	.906	1.000	.942	1.007	.963	4.4
Chloroform *	2.748	2.409	2.704	2.556	2.735	2.630	5.5*
1,2-Dichloroethane	2.229	1.891	2.081	1.938	2.056	2.039	6.5
2-Butanone	.060	.059	.063	.067	.066	.063	5.8
1,1,1-Trichloroethane	2.946	2.622	2.970	2.755	2.913	2.841	5.2
Carbon Tetrachloride	3.098	2.818	3.156	2.905	3.137	3.023	5.0
Vinyl Acetate	.044	.053	.039	.053	.070	.052	22.7
Bromodichloromethane	3.222	2.930	3.303	3.113	3.273	3.168	4.8
1,2-Dichloropropane *	.321	.293	.331	.324	.349	.324	6.3*
trans-1,3-Dichloropropene	1.001	.927	1.029	.989	1.132	1.016	7.4
Trichloroethene	.507	.464	.524	.484	.537	.503	5.9
Dibromochloromethane	.831	.757	.843	.818	.901	.830	6.2
1,1,2-Trichloroethane	.392	.331	.363	.357	.378	.364	6.3
Benzene	.726	.640	.709	.681	.742	.700	5.8
cis-1,3-Dichloropropene	.311	.287	.315	.311	.340	.313	6.0
Bromoform #	.996	.827	.900	.880	.972	.915	7.5#
2-Hexanone	.274	.240	.229	.254	.252	.250	6.9
4-Methyl-2-Pentanone	.427	.332	.346	.382	.385	.375	9.9
Tetrachloroethene	.609	.551	.588	.545	.617	.582	5.6
1,1,2,2-Tetrachloroethane #	.836	.639	.633	.648	.699	.691	12.3#
Toluene *	.606	.528	.601	.561	.611	.581	6.2*
Chlorobenzene *	.950	.837	.927	.876	.959	.910	5.7*
Ethylbenzene	.390	.341	.386	.353	.393	.373	6.4
Styrene	.818	.739	.815	.856	.900	.826	7.2
Xylenes (total)	.448	.414	.469	.475	.500	.461	6.9
Bromofluorobenzene	1.022	.982	.889	.929	.973	.959	5.3
1,2-Dichloroethane-d4	1.975	1.897	1.758	1.811	1.832	1.855	4.5
Toluene d-8	1.096	1.089	1.026	1.045	1.096	1.070	3.0

TOTAL ION CHROMATOGRAM

File >AS195 35.0-260.0 amu. VSTD @20PPB
TIC

GC/MS A

400 600 1200



Data File: >AS195::D1

Quant Output File: ^AS195::D4

Name: USTD @20PPB

Misc: GC/MS A

Id File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890119 10:26

Operator ID: MARIE

Quant Time: 890119 15:16

Injected at: 890119 14:32

QUANT REPORT

Operator ID: MARIE

Quant Rev: 6

Quant Time: 890119 15:16

Output File: CAS195::D4

Injected at: 890119 14:32

Sample File: CAS195::D1

Dilution Factor: 1.00000

Sample Name: USTD @20PPB

Sample ID: GC/MS A

File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890119 10:26

	Compound	R.T.	Q ion	Area	Conc	Units	q
1	*Bromochloromethane	7.80	128.0	15197	50.00	UG/L	98
2	Chloromethane	1.19	50.0	2106	15.56	UG/L	90
3	Bromomethane	1.78	94.0	5811	15.89	UG/L	96
4	Vinyl Chloride	2.27	62.0	3020	14.20	UG/L	94
5	Chloroethane	2.87	64.0	1972M	11.29	UG/L	99
6	Methylene Chloride	4.63	84.0	5404M	15.60	UG/L	88
7	Acetone	5.42	43.0	2065M	17.43	UG/L	92
8	Trichlorofluoromethane	6.63	101.0	-23323	16.99	UG/L	93
9	Carbon Disulfide	6.06	76.0	5660M	6.76	UG/L	100
10	1,1-Dichloroethene	7.37	96.0	5465M	15.83	UG/L	
11	1,1-Dichloroethane	8.60	63.0	10641	14.63	UG/L	92
12	1,2-Dichloroethene (total)	9.38	96.0	5826	16.50	UG/L	84
13	Chloroform	9.99	83.0	16707	16.81	UG/L	95
14	1,2-Dichloroethane-d4	10.62	65.0	12004	15.22	UG/L	84
15	1,2-Dichloroethane	10.71	62.0	13548	15.37	UG/L	97
16	2-Butanone	10.71	72.0	366M	11.05	UG/L	
17	1,1,1-Trichloroethane	11.89	97.0	17910	17.78	UG/L	96
18	Carbon Tetrachloride	12.26	117.0	18832M	20.02	UG/L	97
19	Vinyl Acetate	12.59	86.0	269M	7.64	UG/L	
20	Bromodichloromethane	12.92	83.0	19584	19.69	UG/L	96
21	*1,4-Difluorobenzene	18.03	114.0	44530	50.00	UG/L	94
22	1,2-Dichloropropane	14.19	63.0	5726	15.87	UG/L	97
23	trans-1,3-Dichloropropene	14.49	75.0	12842	11.80	UG/L	92
24	Trichloroethene	15.05	130.0	9037	20.10	UG/L	94
25	Dibromochloromethane	15.66	127.0	14803	24.47	UG/L	97
26	1,1,2-Trichloroethane	15.76	97.0	6983	20.67	UG/L	99
27	Benzene	15.46	78.0	12940	16.50	UG/L	98
28	cis-1,3-Dichloropropene	15.74	75.0	7080	20.62	UG/L	86
29	2-Chloroethylvinylether	16.81	63.0	2395	11.00	UG/L	96
30	Bromoform	18.32	173.0	17734	31.42	UG/L	97
31	*Chlorobenzene-d5	22.80	117.0	37644	50.00	UG/L	93
32	2-Hexanone	20.27	43.0	4131M	13.24	UG/L	91
33	4-Methyl-2-Pentanone	18.73	43.0	6431M	13.52	UG/L	85
34	Tetrachloroethene	20.59	164.0	9168	25.00	UG/L	99
35	1,1,2,2-Tetrachloroethane	20.57	83.0	12588	24.82	UG/L	96
36	Toluene	21.80	92.0	9121	16.25	UG/L	93
37	Toluene d-8	21.60	98.0	16496	18.73	UG/L	99
38	Chlorobenzene	22.90	112.0	14309	19.78	UG/L	98
39	Ethylbenzene	24.67	106.0	5877	17.08	UG/L	93
40	Styrene	27.51	104.0	12317M	15.94	UG/L	
41	Xylenes (total)	28.37	106.0	6745	15.43	UG/L	88
42	Bromofluorobenzene	26.53	95.0	45389M	21.06	UG/L	

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QUANT REPORT

Operator ID: MARIE
 Output File: >AS188::D4
 Data File: >AS188::D1
 Name: USTD @50 PPB
 Misc: GC/MS A

Quant Rev: 6 Quant Time: 890119 10:31
 Injected at: 890119 09:59
 Dilution Factor: 1.00000

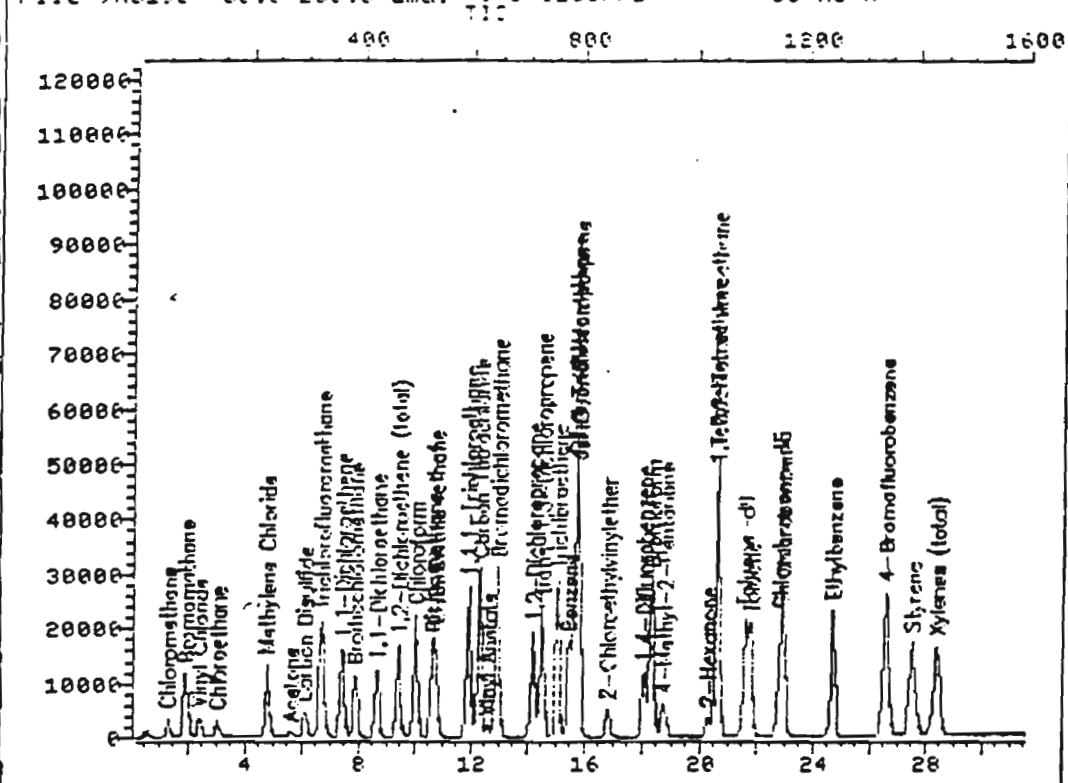
ID File: ID_VOA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890119 10:26

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	7.86	128.0	19167	50.00	UG/L	97
2)	Chloromethane	1.29	50.0	6653	38.98	UG/L	88
3)	Bromomethane	1.88	94.0	18868	40.91	UG/L	94
4)	Vinyl Chloride	2.37	62.0	10121	37.74	UG/L	95
5)	Chloroethane	3.01	64.0	6720	30.50	UG/L	95
6)	Methylene Chloride	4.73	84.0	15387	35.23	UG/L	91
7)	Acetone	5.51	43.0	3082	20.63	UG/L	99
8)	Trichlorofluoromethane	6.69	101.0	65416	37.78	UG/L	92
9)	Carbon Disulfide	6.12	76.0	17881	16.93	UG/L	100
10)	1,1-Dichloroethene	7.41	96.0	15680	36.02	UG/L	86
11)	1,1-Dichloroethane	8.66	63.0	29815	32.50	UG/L	95
12)	1,2-Dichloroethene (total)	9.41	96.0	17359	38.98	UG/L	88
13)	Chloroform	10.03	83.0	46164	36.83	UG/L	99
14)	1,2-Dichloroethane-d4	10.64	65.0	36368	36.56	UG/L	83
15)	1,2-Dichloroethane	10.75	62.0	36238	32.61	UG/L	95
16)	2-Butanone	10.74	72.0	1133	27.12	UG/L	99
17)	1,1,1-Trichloroethane	11.91	97.0	50265	39.55	UG/L	94
18)	Carbon Tetrachloride	12.28	117.0	54005M	45.51	UG/L	94
19)	Vinyl Acetate	12.59	86.0	1020	22.98	UG/L	99
20)	Bromodichloromethane	12.93	83.0	56154	44.76	UG/L	90
21)	*1,4-Difluorobenzene	18.03	114.0	54204	50.00	UG/L	95
22)	1,2-Dichloropropane	14.18	63.0	15858	36.10	UG/L	98
23)	trans-1,3-Dichloropropene	14.49	75.0	36183	27.32	UG/L	95
24)	Trichloroethene	15.06	130.0	25128	45.91	UG/L	99
25)	Dibromochloromethane	15.68	127.0	41046	55.75	UG/L	96
26)	1,1,2-Trichloroethane	15.76	97.0	17963	43.68	UG/L	96
27)	Benzene	15.47	78.0	34711	36.36	UG/L	98
28)	cis-1,3-Dichloropropene	15.76	75.0	19922	47.66	UG/L	91
29)	2-Chloroethylvinylether	16.84	63.0	6576	24.82	UG/L	95
30)	Bromoform	18.32	173.0	44801	65.21	UG/L	98
31)	*Chlorobenzene-d5	22.80	117.0	44785	50.00	UG/L	95
32)	2-Hexanone	20.28	43.0	10732	28.92	UG/L	92
33)	4-Methyl-2-Pentanone	18.73	43.0	14883	26.31	UG/L	87
34)	Tetrachloroethene	20.61	164.0	24688	56.59	UG/L	96
35)	1,1,2,2-Tetrachloroethane	20.57	83.0	28613	47.43	UG/L	90
36)	Toluene	21.78	92.0	23634	35.39	UG/L	93
37)	Toluene d-8	21.61	98.0	48753	46.54	UG/L	91
38)	Chlorobenzene	22.92	112.0	37484	43.56	UG/L	99
39)	Ethylbenzene	24.68	106.0	15277	37.32	UG/L	92
40)	Styrene	27.52	104.0	33108M	36.01	UG/L	
41)	Styrene (total)	28.40	106.0	18562	35.68	UG/L	90

TOTAL ION CHROMATOGRAM

File >AS193 35.6-266.0 amu. V37D 0100FFB

60/MS A



Date File: >AE193::D1

Quant Output File: ^AS193::D4

Name: USTD @100PPB

Misc: GC/MS A

Id File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890119 10:26

Operator ID: MARIE

Quant Time: 890119 13:47

Injected at: 890119 13:14

QUANT REPORT

Operator ID: MARIE
 Output File: \AS193::D4
 Data File: \AS193::D1
 Name: USTD @100PPB
 Misc: GC/MS A

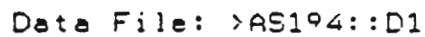
Quant Rev: 6 Quant Time: 890119 17:47
 Injected at: 890119 17:14
 Dilution Factor: 1.00000

File: ID_VOA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890119 10:26

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	7.86	128.0	16167	50.00	UG/L	99
2)	Chloromethane	1.31	50.0	16571	115.11	UG/L	90
3)	Bromomethane	1.92	94.0	36090	92.78	UG/L	96
4)	Vinyl Chloride	2.41	62.0	19387	95.71	UG/L	98
5)	Chloroethane	3.03	64.0	14231	76.58	UG/L	95
6)	Methylene Chloride	4.77	84.0	28305	76.93	UG/L	92
7)	Acetone	5.63	43.0	6022	47.78	UG/L	98
8)	Trichlorofluoromethane	6.69	101.0	122277	93.73	UG/L	93
9)	Carbon Disulfide	6.10	76.0	34604	38.85	UG/L	100
10)	1,1-Dichloroethene	7.41	96.0	28833	78.52	UG/L	85
11)	1,1-Dichloroethane	8.66	63.0	58238	75.26	UG/L	95
12)	1,2-Dichloroethene (total)	9.42	96.0	32330	86.06	UG/L	85
13)	Chloroform	10.03	83.0	87447	82.70	UG/L	98
14)	1,2-Dichloroethane-d4	10.64	65.0	56835	67.74	UG/L	82
15)	1,2-Dichloroethane	10.74	62.0	67278	71.77	UG/L	97
16)	2-Butanone	10.75	72.0	2053	58.27	UG/L	96
17)	1,1,1-Trichloroethane	11.91	97.0	96036	89.60	UG/L	96
18)	Carbon Tetrachloride	12.30	117.0	102062M	101.98	UG/L	95
19)	Vinyl Acetate	12.61	86.0	1269	33.89	UG/L	95
20)	Bromodichloromethane	12.94	83.0	106797	100.92	UG/L	93
21)	*1,4-Difluorobenzene	18.05	114.0	46314	50.00	UG/L	97
22)	1,2-Dichloropropane	14.20	63.0	30640	81.63	UG/L	94
23)	trans-1,3-Dichloropropene	14.49	75.0	68639	60.65	UG/L	93
24)	Trichloroethene	15.06	130.0	48552	103.82	UG/L	97
25)	Dibromochloromethane	15.68	127.0	78069	124.09	UG/L	99
26)	1,1,2-Trichloroethane	15.76	97.0	33596	95.60	UG/L	99
27)	Benzene	15.47	78.0	65628	80.47	UG/L	98
28)	cis-1,3-Dichloropropene	15.76	75.0	37325	104.51	UG/L	94
29)	2-Chloroethylvinylether	16.80	63.0	11197	49.46	UG/L	95
30)	Bromoform	18.30	173.0	83335	141.97	UG/L	93
31)	*Chlorobenzene-d5	22.82	117.0	38343	50.00	UG/L	96
32)	2-Hexanone	20.28	43.0	17523	55.15	UG/L	83
33)	4-Methyl-2-Pentanone	18.75	43.0	26518	54.75	UG/L	88
34)	Tetrachloroethene	20.59	164.0	45113	120.78	UG/L	96
35)	1,1,2,2-Tetrachloroethane	20.57	83.0	48562	94.02	UG/L	91
36)	Toluene	21.81	92.0	46069	80.57	UG/L	95
37)	Toluene d-8	21.61	98.0	78684	87.73	UG/L	93
38)	Chlorobenzene	22.92	112.0	71086	96.48	UG/L	96
39)	Ethylbenzene	24.68	106.0	29638	84.57	UG/L	96
40)	Styrene	27.52	104.0	62481M	79.38	UG/L	
41)	Xylenes (total)	28.38	106.0	35944	80.70	UG/L	90
				48208M	91.66	UG/L	

File >AS194 35.0-260.0 amu. V370 0150FFB
TIC

50/115 3



Name: USTD @150PPE

Misc: GC/MS A

Id File: ID_VDA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890119 10:26

Operator ID: MARIE

Quant Time: 890119 14:26

Injected at: 890119 13:54

QUANT REPORT

Operator ID: MARIE

Quant Rev: 6

Quant Time: 890119 14:26

Output File: ^AS194::D4

Injected at: 890119 13:54

Data File: ^AS194::D1

Dilution Factor: 1.00000

Name: USTD @150PPB

Misc: GC/MS A

File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890119 10:26

	Compound	R.T.	Q ion	Area	Conc	Units	q
1	*Bromochloromethane	7.88	128.0	15819	50.00	UG/L	93
2	Chloromethane	1.29	50.0	22282	158.18	UG/L	89
3	Bromomethane	1.90	94.0	45191	118.73	UG/L	99
4	Vinyl Chloride	2.37	62.0	22940	103.65	UG/L	94
5	Chloroethane	3.03	64.0	17378	95.57	UG/L	96
6	Methylene Chloride	4.79	84.0	39410	109.32	UG/L	93
7	Acetone	5.71	43.0	8020	65.03	UG/L	95
8	Trichlorofluoromethane	6.67	101.0	170515	119.33	UG/L	93
9	Carbon Disulfide	6.10	76.0	54567	62.62	UG/L	100
10	1,1-Dichloroethene	7.39	96.0	40491	112.70	UG/L	88
11	1,1-Dichloroethane	8.66	63.0	79293	104.72	UG/L	94
12	1,2-Dichloroethene (total)	9.41	96.0	44689	121.58	UG/L	87
13	Chloroform	10.01	83.0	121304	117.25	UG/L	99
14	1,2-Dichloroethane-d4	10.64	65.0	85944	104.68	UG/L	83
15	1,2-Dichloroethane	10.74	62.0	91969	100.26	UG/L	99
16	2-Butanone	10.78	72.0	3202	92.88	UG/L	95
17	1,1,1-Trichloroethane	11.91	97.0	130736	124.65	UG/L	91
18	Carbon Tetrachloride	12.28	117.0	137854M	140.77	UG/L	96
19	Vinyl Acetate	12.59	86.0	2527	68.98	UG/L	91
20	Bromodichloromethane	12.93	83.0	147712	142.65	UG/L	93
21	*1,4-Difluorobenzene	18.05	114.0	43297	50.00	UG/L	96
22	1,2-Dichloropropane	14.18	63.0	42074	119.90	UG/L	94
23	trans-1,3-Dichloropropene	14.49	75.0	92471	87.40	UG/L	93
24	Trichloroethene	15.06	130.0	62803	143.66	UG/L	95
25	Dibromochloromethane	15.67	127.0	106305	180.74	UG/L	98
26	1,1,2-Trichloroethane	15.76	97.0	46345	141.07	UG/L	96
27	Benzene	15.47	78.0	88475	116.04	UG/L	98
28	cis-1,3-Dichloropropene	15.76	75.0	51635	154.65	UG/L	93
29	2-Chloroethylvinylether	16.80	63.0	17461	82.50	UG/L	96
30	Bromoform	18.31	173.0	114355	208.39	UG/L	98
31	*Chlorobenzene-d5	22.79	117.0	36046	50.00	UG/L	94
32	2-Hexanone	20.28	43.0	27514	92.11	UG/L	85
33	4-Methyl-2-Pentanone	18.74	43.0	41360	90.83	UG/L	92
34	Tetrachloroethene	20.61	164.0	58942	167.86	UG/L	97
35	1,1,2,2-Tetrachloroethane	20.57	93.0	70083	144.33	UG/L	96
36	Toluene	21.79	92.0	60637	112.81	UG/L	96
37	Toluene d-8	21.61	98.0	112987	134.01	UG/L	93
38	Chlorobenzene	22.90	112.0	94691	136.71	UG/L	98
39	Ethylbenzene	24.66	106.0	38197	115.94	UG/L	94
40	Styrene	27.52	104.0	92609M	125.16	UG/L	
41	Xylenes (total)	28.36	106.0	51312	122.55	UG/L	89
42	Bromofluorobenzene	26.52	95.0	100410M	143.52	UG/L	

[illegible]

Operator ID: MARIE
Quant Time: 890119 12:29
Injected at: 890119 11:56

QUANT REPORT

Operator ID: MARIE
 Output File: ^AS191::D4
 Data File: ^AS191::D1
 Name: USTD E200 PPB
 Misc: GC/MS A

Quant Rev: 6 Quant Time: 890119 12:29
 Injected at: 890119 11:56
 Dilution Factor: 1.00000

File: ID_VDA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890119 10:26

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	7.90	128.0	16346	50.00	UG/L	98
2)	Chloromethane	1.29	50.0	28012	192.45	UG/L	88
3)	Bromomethane	1.90	94.0	63226	160.76	UG/L	93
4)	Vinyl Chloride	2.39	62.0	32370	141.54	UG/L	96
5)	Chloroethane	3.01	64.0	20654	109.92	UG/L	99
6)	Methylene Chloride	4.83	84.0	57217	153.60	UG/L	93
7)	Acetone	5.83	43.0	10568	82.93	UG/L	98
8)	Trichlorofluoromethane	6.65	101.0	249089	168.70	UG/L	92
9)	Carbon Disulfide	6.10	76.0	76253	84.68	UG/L	100
10)	1,1-Dichloroethene	7.39	96.0	60673	163.43	UG/L	88
11)	1,1-Dichloroethane	8.66	63.0	115928	148.17	UG/L	95
12)	1,2-Dichloroethene (total)	9.39	96.0	65868	173.42	UG/L	83
13)	Chloroform	10.01	83.0	178810	167.26	UG/L	99
14)	1,2-Dichloroethane-d4	10.64	65.0	119814	141.24	UG/L	82
15)	1,2-Dichloroethane	10.74	62.0	134416	141.81	UG/L	97
16)	2-Butanone	10.80	72.0	4329	121.52	UG/L	94
17)	1,1,1-Trichloroethane	11.89	97.0	190440	175.72	UG/L	95
18)	Carbon Tetrachloride	12.26	117.0	205110M	202.70	UG/L	98
19)	Vinyl Acetate	12.60	86.0	4590	121.25	UG/L	95
20)	Bromodichloromethane	12.93	83.0	213987	199.99	UG/L	94
21)	*1,4-Difluorobenzene	18.03	114.0	43182	50.00	UG/L	96
22)	1,2-Dichloropropane	14.18	63.0	60274	172.22	UG/L	98
23)	trans-1,3-Dichloropropene	14.47	75.0	140797	133.42	UG/L	92
24)	Trichloroethene	15.06	130.0	92819	212.88	UG/L	95
25)	Dibromochloromethane	15.67	127.0	155567	265.21	UG/L	98
26)	1,1,2-Trichloroethane	15.76	97.0	65320	199.36	UG/L	99
27)	Benzene	15.47	78.0	128238	168.64	UG/L	98
28)	cis-1,3-Dichloropropene	15.75	75.0	75214	225.87	UG/L	93
29)	2-Chloroethylvinylether	16.80	63.0	26473	125.41	UG/L	96
30)	Bromoform	18.29	173.0	167889	306.76	UG/L	93
31)	*Chlorobenzene-d5	22.81	117.0	36558	50.00	UG/L	95
32)	2-Hexanone	20.28	43.0	36832	121.57	UG/L	86
33)	4-Methyl-2-Pentanone	18.72	43.0	56284	121.88	UG/L	90
34)	Tetrachloroethene	20.62	164.0	90290	253.53	UG/L	99
35)	1,1,2,2-Tetrachloroethane	20.58	83.0	102245	207.61	UG/L	92
36)	Toluene	21.79	92.0	89374	163.94	UG/L	96
37)	Toluene d-8	21.61	98.0	160204	187.35	UG/L	95
38)	Chlorobenzene	22.90	112.0	140215	199.60	UG/L	98
39)	Ethylbenzene	24.67	106.0	57528	172.17	UG/L	94
40)	Styrene	27.50	104.0	131628M	175.40	UG/L	
41)	Xylenes (total)	28.38	106.0	73062	172.05	UG/L	90
42)	Bromofluoromethane	26.54	95.0	142228M	200.45	UG/L	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.: 90224W

Instrument ID: 7001A

Calibration Date: 3/ 1/89

Time: 8:41

Lab File ID: AS228

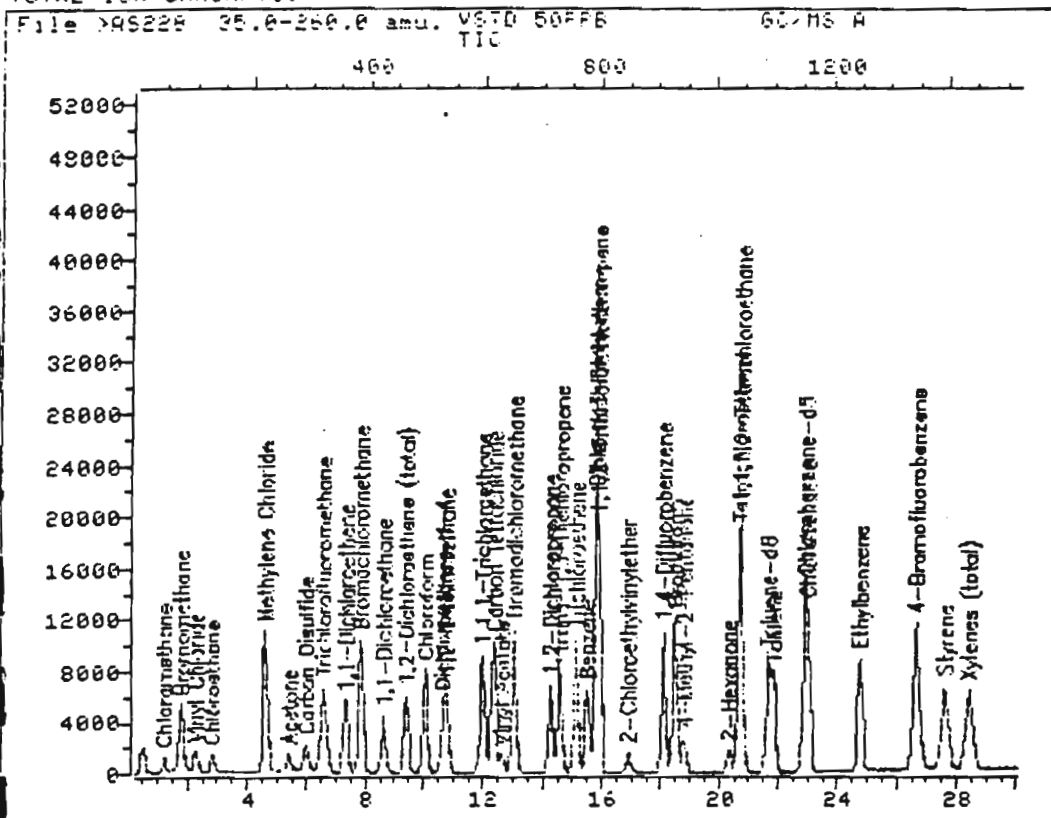
Init. Calib. Date(s): 1/19/89 1/19/89

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(%) = .300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	.421	.364	13.5
Bromomethane	.995	1.006	1.0
Vinyl Chloride	.521	.538	3.3
Chloroethane	.359	.375	4.3
Methylene Chloride	.855	1.566	83.3
Acetone	.203	.467	129.7
Carbon Disulfide	1.050	1.104	5.2
1,1-Dichloroethene	.878	.685	22.0
1,1-Dichloroethane	1.710	1.305	23.7
1,2-Dichloroethene (total)	.963	.793	17.6
Chloroform	2.630	2.019	23.2
1,2-Dichloroethane	2.039	1.376	32.5
2-Butanone	.063	.063	.5
1,1,1-Trichloroethane	2.841	2.031	28.5
Carbon Tetrachloride	3.023	2.110	30.2
Vinyl Acetate	.052	.050	3.4
Bromodichloromethane	3.168	2.383	24.8
1,2-Dichloropropane	.324	.256	20.8
trans-1,3-Dichloropropene	1.016	.794	21.8
Trichloroethene	.503	.415	17.6
Dibromochloromethane	.830	.640	22.9
1,1,2-Trichloroethane	.364	.293	19.5
Benzene	.700	.589	15.9
cis-1,3-Dichloropropene	.313	.239	23.4
Bromoform	.915	.730	20.2
2-Hexanone	.250	.194	22.3
4-Methyl-2-Pentanone	.375	.276	26.2
Tetrachloroethene	.582	.488	16.2
1,1,2,2-Tetrachloroethane	.691	.604	12.6
Toluene	.581	.494	15.0
Chlorobenzene	.910	.776	14.7
Ethylbenzene	.373	.314	15.8
Styrene	.826	.684	17.2
Xylenes (total)	.461	.391	15.2
Bromofluorobenzene	.959	.820	14.5
1,2-Dichloroethane-d4	1.855	1.074	42.1
Toluene d-8	1.070	.887	17.1

TOTAL ION CHROMATOGRAM



Data File: >AS228::D1

Quant Output File: ^AS228::QT

Name: VSTD 50PPB

Misc: GC/MS A

Id File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890302 14:06

Operator ID: MARIE

Quant Time: 890301 10:21

Injected at: 890301 08:41

QUANT REPORT

Operator ID: MARIE
 Output File: ^AS228::QT
 Data File: ^AS228::D1
 Name: USTD 50PPB
 Misc: GC/MS A

Quant Rev: 6 Quant Time: 890301 10:21
 Injected at: 890301 08:41
 Dilution Factor: 1.00000

ID File: ID_VOA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890302 14:06

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	7.80	128.0	17065	50.00	UG/L	99
2)	Chloromethane	1.19	50.0	6211	36.59	UG/L	93
3)	Bromomethane	1.76	94.0	17159	44.22	UG/L	99
4)	Vinyl Chloride	2.25	62.0	9179	49.55	UG/L	97
5)	Chloroethane	2.82	64.0	6396	39.66	UG/L	99
6)	Methylene Chloride	4.60	84.0	26732	18.36	UG/L	83
7)	Acetone	5.40	43.0	7977M	62.41	UG/L	97
8)	Trichlorofluoromethane	6.55	101.0	41436	39.50	UG/L	96
9)	Carbon Disulfide	5.96	76.0	18843	42.06	UG/L	100
10)	1,1-Dichloroethene	7.31	96.0	11684	42.45	UG/L	95
11)	1,1-Dichloroethane	8.60	63.0	22270	41.09	UG/L	92
12)	1,2-Dichloroethene (total)	9.39	96.0	13541	43.80	UG/L	96
13)	Chloroform	10.05	83.0	34461	41.33	UG/L	96
14)	1,2-Dichloroethane-d4	10.64	65.0	18328	41.73	UG/L	88
15)	1,2-Dichloroethane	10.75	62.0	23479	39.08	UG/L	99
16)	2-Butanone	10.71	72.0	1075	43.34	UG/L	95
17)	1,1,1-Trichloroethane	11.95	97.0	34661	40.53	UG/L	91
18)	Carbon Tetrachloride	12.34	117.0	36012	41.26	UG/L	98
19)	Vinyl Acetate	12.61	86.0	858M	42.26	UG/L	
20)	Bromodichloromethane	13.02	83.0	40664	42.06	UG/L	94
21)	*1,4-Difluorobenzene	18.07	114.0	48179	50.00	UG/L	95
22)	1,2-Dichloropropane	14.25	63.0	12352	39.91	UG/L	97
23)	trans-1,3-Dichloropropene	14.57	75.0	27539	29.56	UG/L	91
24)	Trichloroethene	15.11	130.0	19972	42.84	UG/L	92
25)	Dibromochloromethane	15.80	127.0	30823	43.26	UG/L	99
26)	1,1,2-Trichloroethane	15.88	97.0	14129	43.26	UG/L	95
27)	Benzene	15.49	78.0	28361	42.03	UG/L	98
28)	cis-1,3-Dichloropropene	15.82	75.0	14769	51.59	UG/L	96
29)	2-Chloroethylvinylether	16.87	63.0	3316	57.53	UG/L	91
30)	Bromoform	18.46	173.0	35152	45.47	UG/L	96
31)	*Chlorobenzene-d5	22.88	117.0	39392	50.00	UG/L	97
32)	2-Hexanone	20.32	43.0	7649	40.76	UG/L	85
33)	4-Methyl-2-Pentanone	18.79	43.0	10889	39.58	UG/L	90
34)	Tetrachloroethene	20.67	164.0	19221	44.96	UG/L	98
35)	1,1,2,2-Tetrachloroethane	20.71	83.0	23799	45.22	UG/L	99
36)	Toluene	21.84	92.0	19472	43.55	UG/L	97
37)	Toluene d-8	21.65	98.0	34946	48.08	UG/L	96
38)	Chlorobenzene	22.98	112.0	30584	45.12	UG/L	99
39)	Ethylbenzene	24.74	106.0	12367	44.31	UG/L	99
40)	Styrene	27.59	104.0	26934	44.32	UG/L	97
41)	Xylenes (total)	28.38	106.0	15388	43.78	UG/L	96

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDS No.: 90224W

Lab File ID (Standard): AS228

Date Analyzed: 3/ 1/89

Instrument ID: 7001A

Time Analyzed: 8:41

Matrix: (soil/water) WATER Level: (low/med): LOW Column: (pack/cap) PACK

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT	AREA #	RT	AREA #	RT
12 HOUR STD	17065.	7.80	48179.	18.07	39392.	22.88
UPPER LIMIT	34130.	8.30	96358.	18.57	78784.	23.38
LOWER LIMIT	8533.	7.30	24090.	17.57	19696.	22.38
EPA SAMPLE NO.						
1 VBLK	13670.	7.86	43552.	18.04	37313.	22.85
2 90224W01	12879.	7.81	38596.	18.05	32860.	22.86
3 90224W02	11561.	7.83	34969.	18.05	28765.	22.86
4 90224W03	10608.	7.82	31471.	18.06	27592.	22.83
5 90224W05	11356.	7.84	34489.	18.06	29271.	22.87
6 90224W06	9059.	7.80	27361.	18.06	23558.	22.85
7 90224W04	11400.	7.84	37700.	18.10	31923.	22.89
8 90224MSW03	9943.	7.86	27806.	18.06	23565.	22.85
9 90224MSDW03	9845.	7.86	26587.	18.08	21578.	22.85
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

Sample: BFB 50N6 INJ

Operator: MARIE

MS

1/19/89 9:20

Misc : GC/MS A

Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS #: 0

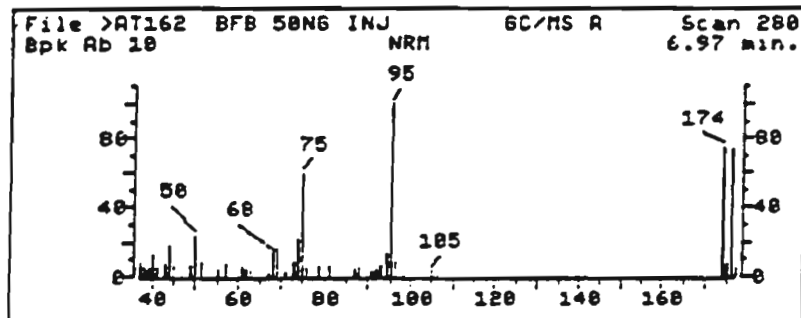
Method file: PACKED Tuning file: MTBFBP No. of extra records: 2

Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 0. 0. 0. 0. 0.

Chromatographic times, min. : 0.0 0.0 0.0 0.0 0.0

Chromatographic rate, deg/min: 0.0 0.0 0.0 0.0 0.0



>AT162
280

BFB SONG INJ
NRM

GC/MS A

File: >AT162 Scan #: 280 Retn. time: 6.67

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	7.390	49.00	5.893	67.10	1.310	78.90	5.613	94.95	100.000
38.00	5.613	50.00	23.386	68.00	12.056	81.00	5.519	95.95	7.577
39.00	4.116	51.00	7.951	69.00	15.822	86.05	3.067	104.95	2.713
39.90	12.161	55.00	3.648	71.00	1.684	87.95	4.397	173.90	74.743
41.00	4.864	57.00	6.642	73.00	7.257	90.95	2.152	174.90	6.080
43.00	6.642	61.00	5.426	74.00	20.299	91.95	2.993	175.90	72.778
43.90	17.119	62.00	4.584	75.00	55.588	92.95	5.613	176.90	4.303
45.00	5.332	63.00	3.368	76.00	4.357	93.95	12.909		

MS data file header from : >AT193

Sample: BFB 50NG INJ Operator: MARIE MS 3/01/89 8:05

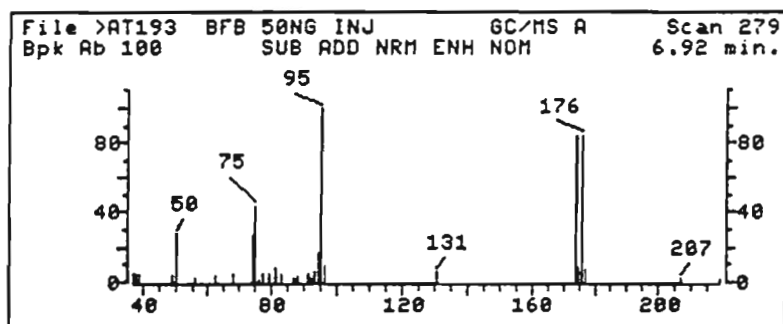
Misc : GC/MS A

Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0

Method file: PACKED Tuning file: MTBFBP No. of extra records: 2

Source temp.: 0. Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures :	190.	220.	0.	0.	0.
Chromatographic times, min. :	1.0	14.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	20.0	0.0	0.0	.1	0.0



>AT193 BFB SONG INJ GC/MS A
279 SUB ADD NRM ENH NOM

File: >AT193 Scan #: 279 Retn. time: 6.92

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.80	3.954	62.00	2.849	79.00	3.932	91.95	1.495	173.90	83.492
37.90	3.867	68.00	4.084	81.00	8.146	92.95	5.329	174.90	7.366
38.90	4.419	74.00	26.191	83.00	4.159	94.05	15.587	175.90	83.969
49.00	3.044	75.00	43.273	86.85	1.744	94.95	100.000	176.90	6.683
50.00	27.296	75.90	1.148	87.85	3.250	96.05	8.947	206.95	1.646
55.90	2.166	77.00	4.159	90.95	4.874	130.95	5.459	218.85	1.213

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: AB112

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	12.	
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: AB112

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

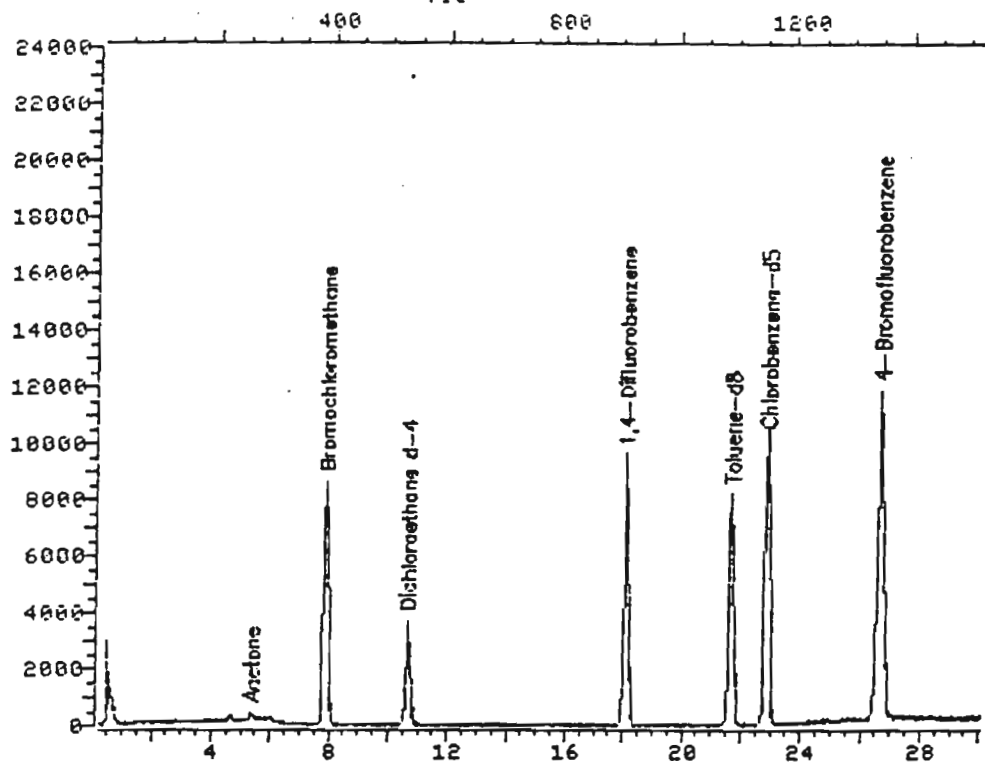
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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30.				

TOTAL ION CHROMATOGRAM

File >AB112 35.0-260.0 amu. VBLK
TIC

GC/MS A



Data File: >AB112::D1

Quant Output File: ^AB112::QT

Name: VBLK

Misc: GC/MS A

Id File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890301 11:31

Operator ID: MARIE

Quant Time: 890301 11:43

Injected at: 890301 11:12

QUANT REPORT

Operator ID: MARIE
 Output File: ^AB112::QT
 Data File: ^AB112::D1 .
 Name: UBLK
 Misc: GC/MS A

Quant Rev: 6 Quant Time: 890301 11:43
 Injected at: 890301 11:12
 Dilution Factor: 1.00000

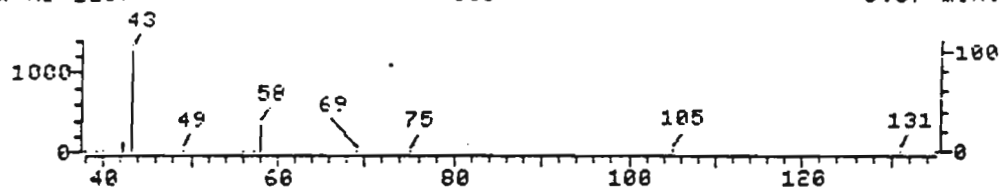
File: ID_VOA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890301 11:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
3)	*Bromochloromethane	7.86	128.0	13670	50.00	UG/L	99
2)	Acetone	5.36	43.0	1556M	12.18	UG/L	90
4)	1,2-Dichloroethane-d4	10.65	65.0	16069	54.72	UG/L	87
1)	*1,4-Difluorobenzene	18.04	114.0	43552	50.00	UG/L	96
0)	*Chlorobenzene-d5	22.85	117.0	37313	50.00	UG/L	97
7)	Toluene d-8	21.64	98.0	34292	51.80	UG/L	93
2)	Bromofluorobenzene	26.62	95.0	32671	53.41	UG/L	75

Compound is ISTD

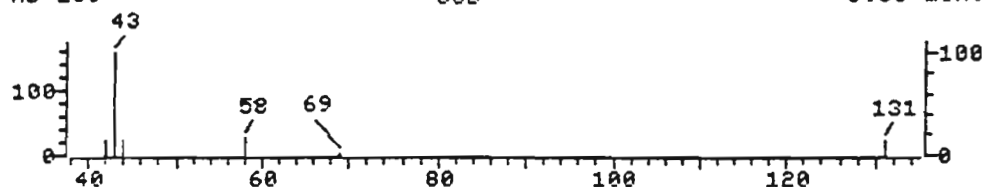
REFERENCE STANDARD SPECTRUM

File >AS020 50 PPE CALI STD GC/MS A 9/23/88 Scan 312
Bpk Ab 1267 SUB 6.37 min.



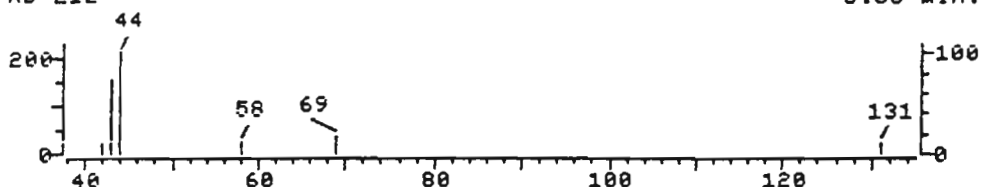
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >AB112 VBLK GC/MS A Scan 261
Bpk Ab 156 SUB 5.36 min.



SAMPLE SPECTRUM (UNALTERED)

File >AB112 VBLK GC/MS A Scan 261
Bpk Ab 212 5.36 min.



Data File: >AB112::D1

Quant Output File: ^AB112::QT

Name: VBLK

Misc: GC/MS A

Quant Time: 890301 11:43

Quant ID File: ID_VOA::QT

Injected at: 890301 11:12

Last Calibration: 890301 11:31

Compound No: 7

Compound Name: Acetone

Scan Number: 261

Retention Time: 5.36 min.

Quant Ion: 43.0

Area: 1556M

Concentration: 12.18 UG/L

q-value: 90

✓ (110)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90224MSW03

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1127

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

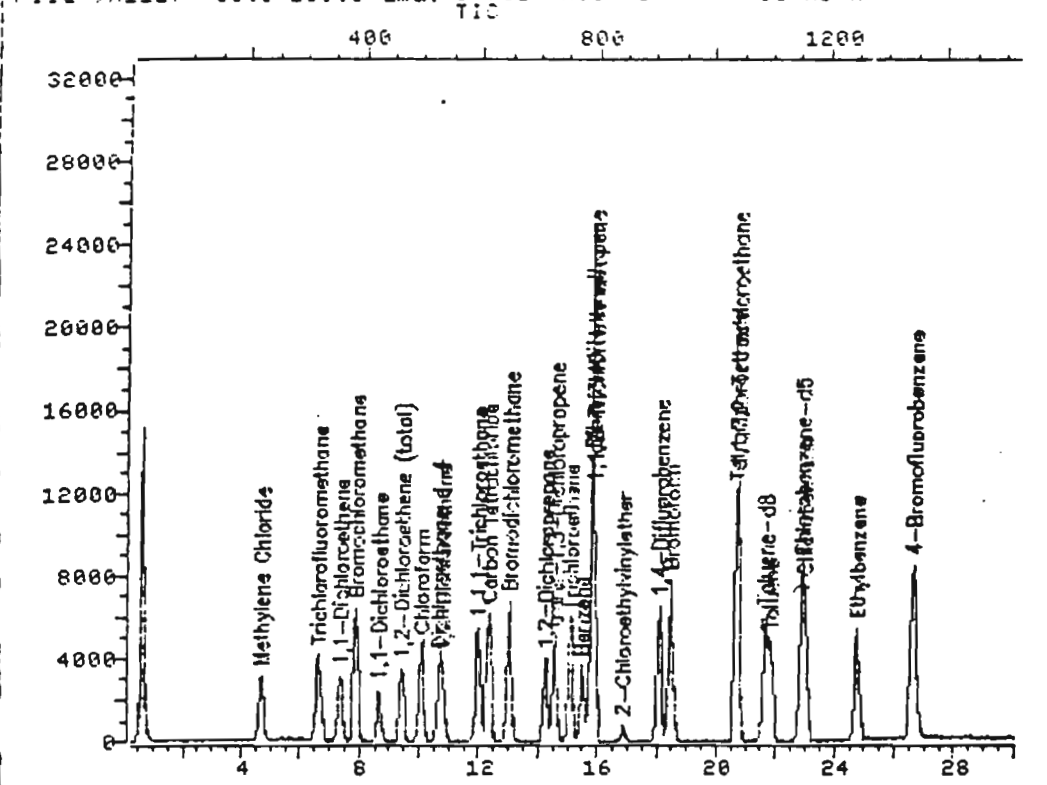
Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	22.	
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	47.	
75-34-3	-----1,1-Dichloroethane	51.	
540-59-0	-----1,2-Dichloroethene (total)	46.	
67-66-3	-----Chloroform	51.	
107-06-2	-----1,2-Dichloroethane	55.	
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	52.	
56-23-5	-----Carbon Tetrachloride	52.	
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	51.	
78-87-5	-----1,2-Dichloropropane	53.	
10061-02-6	-----trans-1,3-Dichloropropene	35.	
79-01-6	-----Trichloroethene	48.	
124-48-1	-----Dibromochloromethane	52.	
79-00-5	-----1,1,2-Trichloroethane	51.	
71-43-2	-----Benzene	49.	
10061-01-5	-----cis-1,3-Dichloropropene	62.	
75-25-2	-----Bromoform	54.	
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	49.	
79-34-5	-----1,1,2,2-Tetrachloroethane	53.	
108-88-3	-----Toluene	47.	
108-90-7	-----Chlorobenzene	49.	
100-41-4	-----Ethylbenzene	49.	
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

TOTAL ION CHROMATOGRAM

File >A1127 35.0-260.0 amu. 890224 W03 MS 60/MS A



Data File: >A1127::D1

Quant Output File: ^A1127::QT

Name: 890224 W03 MS

Misc: GC/MS A

Id File: ID_VOA::QT

Title: HP VOA Continuing Calibration Standard

Last Calibration: 890301 11:31

Operator ID: MARIE

Quant Time: 890301 16:01

Injected at: 890301 15:30

QUANT REPORT

Operator ID: MARIE Quant Rev: 6 Quant Time: 890301 16:01
 Output File: ^A1127::QT Injected at: 890301 15:30
 Data File: >A1127::D1 Dilution Factor: 1.00000
 Name: 890224 W03 MS
 Misc: GC/MS A

ID File: ID_VOA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890301 11:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	7.86	128.0	9943	50.00	UG/L	98
6)	Methylene Chloride	4.67	84.0	6979	22.40	UG/L	94
10)	Trichlorofluoromethane	6.61	101.0	25604	53.03	UG/L	93
11)	1,1-Dichloroethene	7.35	96.0	6451	47.38	UG/L	90
11)	1,1-Dichloroethane	8.64	63.0	13119	50.55	UG/L	95
11)	1,2-Dichloroethane (total)	9.40	96.0	7182	45.51	UG/L	93
11)	Chloroform	10.05	83.0	20351	50.68	UG/L	99
14)	1,2-Dichloroethane-d4	10.65	65.0	12165M	56.96	UG/L	82
15)	1,2-Dichloroethane	10.77	62.0	14967	54.70	UG/L	99
16)	1,1,1-Trichloroethane	11.94	97.0	20991	51.97	UG/L	89
19)	Carbon Tetrachloride	12.32	117.0	21638	51.56	UG/L	97
20)	Bromodichloromethane	13.00	83.0	24061	50.78	UG/L	93
20)	*1,4-Difluorobenzene	18.06	114.0	27806	50.00	UG/L	95
20)	1,2-Dichloropropane	14.21	63.0	7511	52.68	UG/L	95
23)	trans-1,3-Dichloropropene	14.54	75.0	15577	35.28	UG/L	91
26)	Trichloroethene	15.07	130.0	10989	47.67	UG/L	95
26)	Dibromochloromethane	15.80	127.0	18622	52.34	UG/L	93
26)	1,1,2-Trichloroethane	15.85	97.0	8270	50.71	UG/L	97
27)	Benzene	15.46	78.0	15906	48.59	UG/L	97
28)	cis-1,3-Dichloropropene	15.83	75.0	8284	62.20	UG/L	92
29)	2-Chloroethylvinylether	16.85	63.0	1511	39.48	UG/L	81
30)	Bromoform	18.43	173.0	22004	54.23	UG/L	92
31)	*Chlorobenzene-d5	22.85	117.0	23565	50.00	UG/L	97
34)	Tetrachloroethene	20.66	164.0	11201	48.71	UG/L	96
5)	1,1,2,2-Tetrachloroethane	20.68	83.0	15034	52.80	UG/L	97
6)	Toluene	21.80	92.0	11003	47.23	UG/L	95
7)	Toluene d-8	21.64	98.0	21975M	52.56	UG/L	97
8)	Chlorobenzene	22.97	112.0	17831	48.73	UG/L	98
9)	Ethylbenzene	24.73	106.0	7220	48.80	UG/L	97
2)	Bromofluorobenzene	26.63	95.0	21065M	54.53	UG/L	83

* Compound is ISTD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90224MSD W03

Lab Name: ADIRON

Contract:

Lab Code: ADIRON

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: A1128

Level: (low/med) LOW

Date Received: 2/24/89

% Moisture: not dec. 100.

Date Analyzed: 3/ 1/89

Column: (pack/cap) PACK

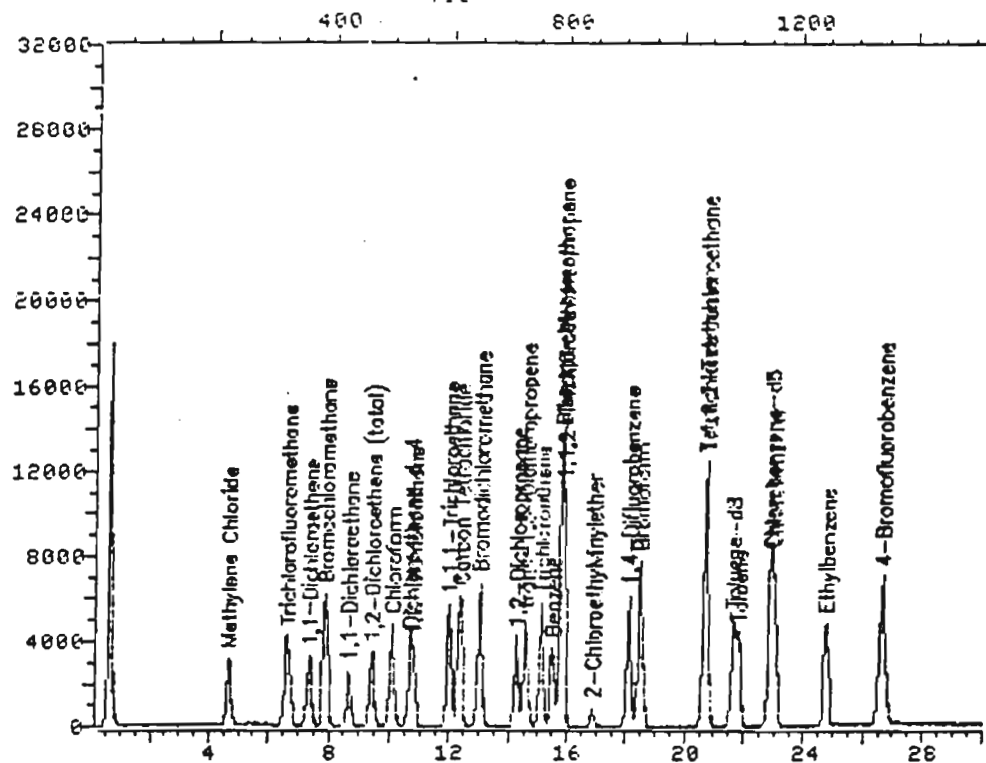
Dilution Factor: 1.00

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

74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	23.	
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	49.	
75-34-3	-----1,1-Dichloroethane	52.	
540-59-0	-----1,2-Dichloroethene (total)	46.	
67-66-3	-----Chloroform	51.	
107-06-2	-----1,2-Dichloroethane	58.	
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	53.	
56-23-5	-----Carbon Tetrachloride	53.	
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	52.	
78-87-5	-----1,2-Dichloropropane	55.	
10061-02-6	-----trans-1,3-Dichloropropene	37.	
79-01-6	-----Trichloroethene	49.	
124-48-1	-----Dibromochloromethane	56.	
79-00-5	-----1,1,2-Trichloroethane	55.	
71-43-2	-----Benzene	51.	
10061-01-5	-----cis-1,3-Dichloropropene	67.	
75-25-2	-----Bromoform	57.	
591-78-6	-----2-Hexanone	10.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
127-18-4	-----Tetrachloroethene	50.	
79-34-5	-----1,1,2,2-Tetrachloroethane	59.	
108-88-3	-----Toluene	50.	
108-90-7	-----Chlorobenzene	50.	
100-41-4	-----Ethylbenzene	50.	
100-42-5	-----Styrene	5.	U
1330-20-7	-----Xylenes (total)	5.	U

TOTAL ION CHROMATOGRAM

File >A1120 35.0-260.0 amu. 890224 W03 MS0 GC/MS A



Data File: >A1128::D1
Name: 890224 W03 MSD
Misc: GC/MS A

Quant Output File: ^A1128::QT

Id File: ID_VOA::QT
Title: HP VOA Continuing Calibration Standard
Last Calibration: 890301 11:31

Operator ID: MARIE
Quant Time: 890301 16:38
Injected at: 890301 16:07

QUANT REPORT

Operator ID: MARIE
 Input File: ^A1128::QT
 Data File: ^A1128::D1
 Name: 890224 W03 MSD
 Spec: GC/MS A

Quant Rev: 6 Quant Time: 890301 16:38
 Injected at: 890301 16:07
 Dilution Factor: 1.00000

IO File: ID_VOA::QT
 Title: HP VOA Continuing Calibration Standard
 Last Calibration: 890301 11:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
10	*Bromochloromethane	7.86	128.0	9845	50.00	UG/L	99
60	Methylene Chloride	4.65	84.0	7143	23.16	UG/L	94
30	Trichlorofluoromethane	6.63	101.0	26633	55.71	UG/L	91
10	1,1-Dichloroethene	7.35	96.0	6653M	49.35	UG/L	90
10	1,1-Dichloroethane	8.64	63.0	13409	52.18	UG/L	96
20	1,2-Dichloroethene (total)	9.40	96.0	7246	46.38	UG/L	91
10	Chloroform	10.07	83.0	20442	51.41	UG/L	98
40	1,2-Dichloroethane-d4	10.67	65.0	11370M	53.77	UG/L	80
50	1,2-Dichloroethane	10.77	62.0	15619	57.65	UG/L	98
10	1,1,1-Trichloroethane	11.96	97.0	21109	52.78	UG/L	89
10	Carbon Tetrachloride	12.34	117.0	21962	52.85	UG/L	92
00	Bromodichloromethane	13.00	83.0	24377	51.96	UG/L	93
10	*1,4-Difluorobenzene	18.08	114.0	26587	50.00	UG/L	94
10	1,2-Dichloropropane	14.25	63.0	7472	54.81	UG/L	95
20	trans-1,3-Dichloropropene	14.54	75.0	15465	36.63	UG/L	93
40	Trichloroethene	15.09	130.0	10893	49.42	UG/L	94
10	Dibromochloromethane	15.80	127.0	18885	55.51	UG/L	93
60	1,1,2-Trichloroethane	15.87	97.0	8516	54.61	UG/L	99
70	Benzene	15.48	78.0	15820	50.54	UG/L	96
10	cis-1,3-Dichloropropene	15.83	75.0	8571	67.31	UG/L	93
10	2-Chloroethylvinylether	16.87	63.0	1930	52.74	UG/L	94
00	Bromoform	18.45	173.0	22131	57.04	UG/L	93
10	*Chlorobenzene-d5	22.85	117.0	21578	50.00	UG/L	97
40	Tetrachloroethene	20.68	164.0	10626	50.46	UG/L	98
20	1,1,2,2-Tetrachloroethane	20.70	83.0	15466	59.32	UG/L	91
60	Toluene	21.82	92.0	10587	49.63	UG/L	93
70	Toluene d-8	21.62	98.0	20751	54.20	UG/L	90
30	Chlorobenzene	22.95	112.0	16831	50.23	UG/L	99
20	Ethylbenzene	24.73	106.0	6790	50.12	UG/L	97
20	Bromofluorobenzene	26.63	95.0	19673	55.62	UG/L	80

*Compound is ISTD

APPENDIX H

QA/QC PLAN

March 1, 1989

Mr. Paul Van Cott
New York State Department of
Environmental Conservation
Division of Environmental Enforcement
50 Wolf Road
Albany, NY 12233

Dear Mr. Van Cott:

Enclosed is Malcolm Pirnie, Inc.'s Quality Assurance and Quality Control Plan for Pole-Lite Industries. We would appreciate receiving your comments on this document by March 15, 1989. A full round of ground water sampling was conducted during the week of February 20, 1989, in which Contact Laboratory Protocol (CLP) was performed. The results of this and all sampling events will be included in the upcoming Focus RI/FS report. If you have any questions please feel free to call.

Very truly yours,

MALCOLM PIRNIE, INC.

Anthony D. Murtaugh
Geologist

ad

enclosure

1282-03-1

QUALITY ASSURANCE
and
QUALITY CONTROL PLAN

Pole-Lite Industries, Inc.
Champlain, New York

February 1989

Malcolm Pirnie, Inc.
4 Corporate Plaza
Washington Avenue Ext.
Albany, N. Y. 12203

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Sample Collection	3
Sample Preservation and Shipment	5
Analytical Procedure	5
Chain-of-Custody	6
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TABLE

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1	Table 4-1 from RCRA Ground Water Monitoring Technical Guidance Document	3
2	Sampled Parameters and Corresponding Quantitations Limits	4
3	Sample of Deliverables Package	4

Introduction:

Ground water samples and soil samples at Pole-Lite Industries, Inc., Champlain, New York, have previously been analyzed using United States Environmental Protection Agency (USEPA) methods (SW-846). Future samples will be analyzed using New York State Department of Environmental Conservation Contract Laboratory Protocol (CLP). A full round of ground water samples will be collected from the monitoring wells at Pole-Lite during February 1989. The samples will be obtained from Monitoring Wells 1-3 and 5-8. USEPA Method 624 with CLP Quality Assurance/Quality Control (QA/QC) will be performed on the ground water samples collected. Future soil samples will be analyzed using USEPA Method 8240 with CLP QA/QC backup.

The initial round of ground water samples collected indicated that ground water at MW-5 contravened the concentration limits established in Title 6, Part 703, of the NYSDEC Compilation of Codes: Ground Water Classifications, Quality Standards, Effluent Standards and/or Limitations. In Monitoring Wells 1,2, & 3, no organic contamination was detected. Additional wells (MW-6 to 8) have been installed and were sampled 1/9/89. Results from the 1/9/89 sampling indicate that MW-6 exceeds ground water standards. The full round of ground water samples will confirm which wells exceed ground water standards. It is expected that there will be a need for future soil sample analysis to completely define contaminated soil. Therefore a soil sampling/analytical plan has been included.

Concentration Limits

The concentrations detected will be compared to the concentration limits established by Title 6, part 703, of the NYSDEC Compilation of Codes; Ground Water Classifications, Quality Standards, Effluent and/or Limitations. Due to the absence of public water supplies which utilize the upper water bearing zones (glacial till) the New York State Department of Health maximum contaminate level (mcl) for organic chemicals are not applicable. The concentration limits established in the NYSDEC document will be compared to the concentrations detected in the monitoring wells to identify excursions from the established limits.

The ground water samples obtained will be analyzed according to "Statement of Work for Organic Analysis, Multimedia, Multiconcentrations", USEPA Contract Laboratory Program, IFB WA-875001, November 1986. All QA/QC deliverables will be submitted to the NYSDEC.

Representative Samples

Before ground water is sampled from either the background monitoring point(s) or the downgradient monitoring point(s), the sampling equipment to be used will be decontaminated, and 3 to 5 well volumes will be removed from each well. Details of sampling collection and shipment are described in the following sections. Analytical results have not shown site specific contaminants to be present in background monitoring points MW's-1, 2, and 3. Although MW-1 is a downgradient monitoring well it has not been affected by volatile organic contaminants. Monitoring wells 5 and 6 have consistently had the highest level of site specific contaminants present of all on-site wells monitored to date. Samples obtained from MW's-1, 2, and 3 are representative of site background ground water quality, while samples from MW's-5 and 6, are indicative of ground water quality immediately downgradient of the former drum storage area.

In order to ensure that the samples obtained are representative of ground water quality, the analytical methods used will be according to approved USEPA and/or New York State methods. The proposed analytical method to be used will be according to "Statement of Work for Organic Analysis, Multimedia, Multiconcentrations", USEPA Contract Laboratory Program, IFB WA-875001, November 1986. In order to ensure that samples are representative of their respective sources, a quality control program will be followed. The details of the program and procedures are presented in the appropriate sampling and/or analytical methods.

To ensure that representative samples of the soil are collected, a soil sampling plan will be followed. Details of the samples collecting are described in the following sections. The analytical methods used will be approved USEPA and/or New York State Methods. The proposed analytical method to be used will be according to the "Statement of Work for Organic

Analysis, Multimedia, Multiconcentrations," USEPA Contract Laboratory Program, IFB WA-875001, November 1986. The lowest possible detection limits will be specified for each soil analysis. Due to interferences from other compounds present, the detection limits may be adjusted in specific samples. The following are the general guidelines of the quality control program.

Quality control samples will be obtained and analyzed by the analytical laboratory to detect problems such as contamination, improper calibration of equipment, interferences, and poor analyte recovery. Quality Control samples will be obtained and analyzed for each set of field samples obtained to detect contamination of glassware and/or reagents. Duplicate samples will be regularly submitted to the analytical lab for separate analyses. Duplicate samples will serve to measure the precision and accuracy of the sampling and analytical methods. Spiked samples (i.e., samples spiked with an analyte) will be analyzed, and recovery noted, to determine interference, contamination and/or loss of a particular analyte. The above described quality control procedures will ensure that representative sample results are obtained.

Sample Collection

Prior to sampling, standing water in the wells is purged using either a teflon bailer, stainless steel bailer, or stainless steel sampling pump. At a minimum, three (3) well volumes will be removed (if possible) with this water being contained in an appropriate container. Low yielding wells will be evacuated to dryness. Sampling with teflon or stainless steel bailers ensures representative sample collection. The bailers will be lowered slowly to prevent degassing of the water. The sample will be removed from the Well in the bailer and placed immediately in the appropriate container. The contents will be transferred in such a manner as to minimize agitation and aeration. No headspace will be allowed in the containers for volatile organics.

Soil sample collection will follow standard soil sampling techniques. Samples will be retrieved using a hand auger and collection tube or a soil boring rig and split spoon, depending on the designated sampling depth. Collection devices will be decontaminated prior to each individual sample

collection. The tube and/or split spoon will be washed in soapy water and thoroughly rinsed with distilled water. The recovered sample will be immediately placed in the appropriate volatile organic container. Soil samples being collected to check for volatile organics constituents will not be composited or mixed in any way. The recovered sample will be promptly placed into the container.

The depth interval will remain discrete (not over one foot), so in the event of soil contamination the discrete zone will allow for a more accurate evaluation of the soil conditions.

Sample Preservation and Shipment

In general, glass containers will be used for samples to be analyzed for organic constituents.

All containers will be new and furnished by the contract laboratory performing the analyses. All sample containers will comply with USEPA requirements and are presented in Table 1, which is a copy of Table 4-1 (page 111) of "RCRA Ground Water Monitoring Technical Guidance Document". Sample labels will be placed on all containers and will include the sample number, name of collector, date and time of sampling, well number, and parameter(s) required.

All sample preservation will comply with USEPA requirements and is listed in Table 1. Samples will be put in covered containers and placed in insulated coolers with sufficient ice to assure a temperature of 4 degrees centigrade (4°C). The coolers will be transported from the Pole-Lite Industries site (Champlain, New York) to the analytical laboratory (Rensselaer, New York) by private automobile. Container seals will be used when Malcolm Pirnie, Inc., or laboratory personnel are unavailable to pick up or transport the samples. Samples will be delivered to the laboratory immediately after collection.

Analytical Procedure

Analysis for inorganic metals and organic compounds from the first round of samples followed "Method for Evaluating Solid Waste, Physical/Chemical Methods," 3rd Edition, USEPA, November 1986, (SW-846).

The second full round of samples will be analyzed according to "Statement of Work for Organic Analysis, Multimedia, Multiconcentration", USEPA Contract Lab Program, IFB WA-875001. November 1986. Organic detection will be determined using gas chromatographic/mass spectroscopic Methods. Table 2 lists the parameter to be sampled and their corresponding analytical methods.

Chain-of-Custody

A chain-of-custody record will be completed for all samples collected. The chain-of-custody record shall disclose information such as: sample number, identification, location, date and time of collection; and matrix and type of analyses to be performed. In addition, personnel involved in sampling, shipping and receiving the samples will be provided on the chain-of-custody form. The method of shipment and date and time of shipment will be disclosed as well as the date and time the sample is received at the laboratory.

Sampling Personnel

Sampling will be conducted by a qualified representative of Malcolm Pirnie, Inc. Chain-of-custody documents will be completed by each member of the sampling team. Field procedures and protocols used will be documented. This information will be included in the QA/QC documentation which will be provided to the NYSDEC and NYSDOH.

APPENDIX I

SOIL SHIPMENT MANIFESTS

48-14-1 (5/87)-71



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2050-0040. Expires 9-30-88

Please print or type.

UNIFORM HAZARDOUS
WASTE MANIFEST

Generator's US EPA No.

Manifest
Document No.2. Page 1
of 01 01Information in the shaded areas
is not required by Federal Law.

3. Generator's Name and Mailing Address

Pois-Lite Industries, Inc. Box 143 Route 11 RR41
Champlain, N. Y. 12919

4. Generator's Phone (518) 298-5791

5. Transporter 1 (Company Name)

6. US EPA ID Number

Service San. Blainville, Qu. Can. NY D 2807 6 21 8 0

7. Transporter 2 (Company Name)

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

Stablex Canada, Inc.
760 Industrial Boulevard
Blainville, Qu. Can. J7C 374

NY D 9807 5441 5

H. Facility's Phone

(514) 430 9130

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

12. Containers

13. Total
Quantity14. Unit
Wt/Vol

15. Waste No.

a. Waste soil contaminated with 1-1-1 trichloro-
ethane (spont) used for degreasing. 3

No. Type

001 D T

20 TONS

F0004

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Waste is to be shipped to Canada via Champlain, N. Y.

32,960 lbs.

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

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

Printed/Typed Name

Signature

Mo. Day Year

Antonio J. Gagliardi

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Mo. Day Year

18. Transporter 2 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Mo. Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name

Signature

Mo. Day Year

48-14-1 (5/87)-71



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

080021

Please print or type.

Form Approved, OMB No. 2060-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 00000077240	Manifest Document No. 01 01	2. Page 1 of 01	Information in the shaded areas is not required by Federal Law.
3. Generator's Name and Mailing Address Pole-Lite Industries, Inc. Box 143 ROUTE 11 RD#1 Champlain, N. Y. 12919		A. State Manifest Document No. NY A 12919 11			
4. Generator's Phone (518) 298-5751		B. Generator's ID			
5. Transporter 1 (Company Name) Service Sen. Blainville, Qc. Can.		6. US EPA ID Number NY 000000754413		C. State Transporter's ID	
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Phone (514) 439-1496	
9. Designated Facility Name and Site Address Stablex Canada, Inc. 760 Industrial Boulevard Blainville, Qc. Canada J7C 3V4		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone ()	
				G. State Facility's ID	
				H. Facility's Phone (514) 439-5230	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	14. Unit
a. Waste oil contaminated with spent 1-1-1 trichloroethane used for degreasing.		No. Type 0 0 1 D T		Quantity	Waste No.
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
a.		a. ☒ b. ☐ c. ☐ d. ☐			
b.		b. ☐ c. ☐ d. ☐			
15. Special Handling Instructions and Additional Information Waste is to be shipped to Canada via Champlain, N. Y.		41,120 lbs.			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Antonio J. Coglianese		Signature <i>[Signature]</i>		Mo. Day Year 11/1/88	
17. Transporter 1 (Acknowledgement of Receipt of Materials)					
Printed/Typed Name		Signature <i>[Signature]</i>		Mo. Day Year 11/1/88	
18. Transporter 2 (Acknowledgement of Receipt of Materials)					
Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space 41,120 T 41,120 41,120 LL					
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name MA...		Signature <i>[Signature]</i>		Mo. Day Year 11/1/88	

GENERATOR

TRANSPORTER

FACILITY

NYA 12919 11 080021

48 14-1 (5/07)-71



STATE OF ~~New York~~
 DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 DIVISION OF SOLID AND HAZARDOUS WASTE
HAZARDOUS WASTE MANIFEST
 P.O. Box 12820, Albany, New York 12212

080022

Please print or type.

Form Approved OMB No. 2050-0039 Expires 9-30-98

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 06 20 5 7 7 2 6 0 0 0 2	Manifest Document No. 01 01	2. Page 1 of 01	Information in the shaded areas is not required by Federal Law.
3. Generator's Name and Mailing Address Pole-Lite Industries, Inc. Box 143 Route 11 RD51 Champlain, N. Y. 12919			A. State Manifest Document No. NY AT 00177		
4. Generator's Phone (518) 398-3751			B. Generator's ID 00000		
5. Transporter 1 (Company Name) Service Saz. Blainville, Qu., Can			C. State Transporter's ID 00000		
6. US EPA ID Number NY 06 20 5 7 7 2 6 0 0 0 2			D. Transporter's Phone 514 430-1406		
7. Transporter 2 (Company Name)			E. State Transporter's ID		
8. US EPA ID Number			F. Transporter's Phone		
9. Designated Facility Name and Site Address Stablex Canada, Inc. 760 Industrial Boulevard Blainville, Quebec, Can. J7C 3V4			G. State Facility's ID		
10. US EPA ID Number NY 06 20 5 7 7 2 6 0 0 0 2			H. Facility's Phone 514 430-1406		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Waste coil contaminated with spent 1-1-1 trichloro-ethane used for degreasing.		001 DT	20	TONS	0001
b.					
c.					
d.					
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above			
a.		a			
b.		b			
15. Special Handling Instructions and Additional Information Waste is being shipped to Canada via Champlain, N. Y.		30,520 lbs.			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Antonio J. Gagliardi		Signature		Mo. Day Year	
17. Transporter 1 (Acknowledgement of Receipt of Materials) Printed/Typed Name Service Saz. Blainville, Qu., Can		Signature		Mo. Day Year	
18. Transporter 2 (Acknowledgement of Receipt of Materials) Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space NOV 15/88 1500 G 62000 T 2180 N 20330 LL					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name MAIR Signature MAIR Mo. Day Year 11/15/88					



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

80023

Please print or type.

Form Approved OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY D 9 2 0 7 7 2 6	Manifest Document No. 01 01	2. Page 1 of 01	Information in the shaded areas is not required by Federal Law.
3. Generator's Name and Mailing Address Pole-lite Industries, Inc. Box 143 Route 11 Ellettsville, N. Y. 12919		A. State Manifest Document No. NY A 728878 4			
4. Generator's Phone (518 290-5731)		B. Generator's ID			
5. Transporter 1 (Company Name) Service Bus. Blainville, Qu. Can.		6. US EPA ID Number NY D 9 2 0 7 2 1 4 6		C. State Transporter's ID	
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Phone (518 430-1436)	
9. Designated Facility Name and Site Address Stablex Canada, Inc. 760 Industrial Boulevard Blainville, Qu. Can. J7C 3V4		10. US EPA ID Number NY D 9 2 0 7 3 4 4 1 9		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone (518 430-3730)	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Waste soil contaminated with 1-1-1 trichloroethane (spent) used for degreasing.		001	20	7000	lbs
b.					
c.					
d.					
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above			
a.		T			
b.					
15. Special Handling Instructions and Additional Information Waste is to be shipped to Canada via Champlain, N. Y.		20,800 lbs.			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Antonio J. Gagliardi		Signature <i>[Signature]</i>		Mo. Day Year 11/15/98	
17. Transporter 1 (Acknowledgement of Receipt of Materials)					
Printed/Typed Name ANTONIO J. GAGLIARDI		Signature <i>[Signature]</i>		Mo. Day Year 11/15/98	
18. Transporter 2 (Acknowledgement or Receipt of Materials)					
Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name ANTONIO J. GAGLIARDI JR.		Signature <i>[Signature]</i>		Mo. Day Year 11/15/98	

48-14-1 (5/87)-71

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2050-0038. Expires 9-30-88

Please print or type.

80027

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY D 0 6 2 0 3 7 7 2 6 0 0 0 0 0		Manifest Document No. 01		2. Page 1 of 01		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address Pole-Lite Industries, Inc. Box 143 Rte 1 Route 11 Champlain, N. Y. 12919				A. State Manifest Document No. NY A 12919		B. Generator's ID None			
4. Generator's Phone (518) 298-5751				C. State Transporter's ID None		D. Transporter's Phone (518) 435-1495			
5. Transporter 1 (Company Name) Service San. Blainville, Qc. Can. NY D 9 8 0 8 6 2 1 4 0				6. US EPA ID Number NY D 9 8 0 8 6 2 1 4 0		E. State Transporter's ID None			
7. Transporter 2 (Company Name)				8. US EPA ID Number		F. State Transporter's ID None			
9. Designated Facility Name and Site Address Stablax Canada, Inc. 760 Industrial Boulevard Blainville, Qc. Can. J7C 3V4				10. US EPA ID Number NY D 9 8 0 8 7 3 4 4 1 5		G. State Facility's ID None			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit	
a. Waste soil contaminated with 1-1-1 trichloroethane (Apant) used for degreasing				No. Type 001BT		20		TON	
b.									
c.									
d.									
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a.				a		c			
b.				b		d			
15. Special Handling Instructions and Additional Information Waste to be shipped to Canada via Champlain, N. Y. 31,560 lbs.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Antonio J. Gagliardi				Signature <i>[Signature]</i>		Mo. Day Year 11 16 88			
17. Transporter 1 (Acknowledgement of Receipt of Materials)									
Printed/Typed Name				Signature		Mo. Day Year			
18. Transporter 2 (Acknowledgement or Receipt of Materials)									
Printed/Typed Name				Signature		Mo. Day Year			
19. Discrepancy Indication Space NOV 16 88 13:32 G 72388 T 40688 N 31560 11/16/88									
20. Facility Owner or Operator: Certifies for receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name DORA Signature <i>[Signature]</i> Mo. Day Year 11 16 88									

NYA (K0000) 2

48-14-1 (5/87)-71



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE
HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

050028

Please print or type.

Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY D 0620377260	Manifest Document No. 01	2. Page 1 of 01	Information in the shaded areas is not required by Federal Law.
3. Generator's Name and Mailing Address Pole-Lite Industries, Inc. Box 143 RR 1 Route 11 Champlain, N. Y. 12919		6. US EPA ID Number NY D 980752140		A. State Manifest Document No. NY A 72881 2	
4. Generator's Phone (510) 298-3731		7. Transporter 1 (Company Name) Services Sen. Blainville, Qu. Can. NY D 980752140		B. Generator's ID None	
5. Transporter 2 (Company Name)		8. US EPA ID Number		C. State Transporter's ID None	
9. Designated Facility Name and Site Address Stablex Canada, Inc. 760 Industrial Boulevard Blainville, Qu. Can. J7C 3Y4		10. US EPA ID Number NY D 980754415		D. Transporter's Phone (514) 438-1438	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	
a. Waste soil contaminated with 1-1-1 trichloroethane (agent) used for degreasing.		No. Type		Unit	
		0 0 1 D Z		2 0 TON	
b.					
c.					
d.					
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above			
a		a		c	
b		b		d	
15. Special Handling Instructions and Additional Information Waste to be shipped to Canada via Champlain, N. Y.				28100 lbs	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Antonio J. Gagliardi		Signature <i>Antonio J. Gagliardi</i>		Mo. Day Year 1 4 1 9 9 8	
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Signature <i>Antonio J. Gagliardi</i>		Mo. Day Year 1 4 1 9 9 8	
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Signature <i>Antonio J. Gagliardi</i>		Mo. Day Year 1 4 1 9 9 8	
19. Discrepancy Indication Space NOV 16 1998 15:25 G 61660 T 33560 N 28100 14					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name MARCEZ DORRIS JR		Signature <i>MARCEZ DORRIS JR</i>		Mo. Day Year 11 16 98	

NY A 72881 2