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C&D POWER SYSTEMS (C&D BATTERIES)

HUGUENOT, NEW YORK

SITE No. 336001

REMEDIAL INVESTIGATION REPORT

Prepared for:

C&D Technologies, Inc.

Prepared by:

DELAWARE ENGINEERING, P.C.

28 Madison Avenue Extension

Albany, New York 12203

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1.0 INTRODUCTION

1.1 Purpose

The New York State Department of Environmental Conservation (NYSDEC) requested that C&D Technologies, Inc. (C&D) conduct a Remedial Investigation (RI) of the inactive (former) lagoon and vicinity (Site) at its facility located in the Village of Huguenot, Orange County, New York (Figure 1). This report presents the findings of the RI, which was initially focused on the characterization of potential fluoride, lead and barium contamination in soil, ground water and sediments at the Site. The scope was subsequently expanded to include the characterization of potential cadmium and PCB contamination in lagoon soils, Site ground water and an off-site potable well.

1.2 Site Description

The facility is approximately ten acres in size, and is located approximately four miles northeast of the City of Port Jervis. The facility is located in the Neversink River Valley, and is bordered on the west by Route 209 and on the east by a tributary to the Neversink River.

1.3 Site History

From 1959 to approximately 1970, the facility was owned and operated by Empire Tube Company (ETC), a manufacturer of black and white picture tubes. Hydrofluoric acid was used in the manufacturing process to remove carbon and potassium silicate from the inside of the picture tubes. During this period, industrial wastewater was discharged to a lagoon adjacent to the northeastern corner of the plant building. The lagoon was approximately 150 feet in diameter and 15 feet deep. C&D Batteries, Division of Eltra Corporation began operations at the facility in the mid -1970s. C&D manufactures industrial lead batteries used primarily in forklifts. From the mid - 1970s until approximately 1982, C&D discharged non-contact cooling water into the lagoon, which resulted in the accumulation of approximately one to two feet of water at the bottom of the lagoon.

1.4 Prior Investigation Activities

In 1981, with an interest to expand the plant building over the former lagoon, C&D conducted an investigation to determine the possible nature and extent of soil and ground water contamination at the Site. Elevated fluoride concentrations were detected in ground water and soil samples collected in the vicinity of the former lagoon. In 1983, the Site was classified as a Class 2a Site by the NYSDEC. In July 1990, additional ground water monitoring was requested by the NYSDEC. Results indicated that fluoride levels in the ground water exceeded the New York State ground water standards and were ten times greater than background levels. The Site was subsequently reclassified as a Class 2 Site.

A brief chronology of the previous investigations performed at the Site is as follows:

May 1964: ETC's waste disposal system was inspected by the New York State Department of Health (NYSDOH), initiating monthly sampling of surface water and ground water. Samples collected from a spring emanating from a bank of the lagoon contained, on average, approximately 100 mg/l of fluoride. Samples collected from a nearby production well exhibited fluoride levels from non-detect to 5.5 mg/L and a tributary of the Neversink River contained fluoride at 8.0 mg/L.

September 1966: A complaint was filed by NYSDOH regarding the discharge of untreated or inadequately treated sewage, industrial wastes and other wastes into the waters of the State of New York. The complaint stemmed from the discharge of industrial wastes containing concentrations of approximately 2,500 ppm fluoride and unidentified concentrations of barium and silicates. These discharges had exceeded water quality standards since February 1, 1963.

October 1981: The NYSDEC directed C&D to conduct soil sampling in the lagoon.

December 1981 - March 1982: With an interest to expand the plant building over the former lagoon, C&D retained Environmental Resources Management, Inc. (ERM) to perform a hydrogeologic assessment of the former lagoon and vicinity. The voluntary investigation was undertaken to determine whether or not the former lagoon could be filled without posing an adverse environmental effect on the Site and the surrounding area. Monitoring wells MW-6 through MW-13 were installed during this investigation.

Soil samples collected from the bottom of the former lagoon had fluoride concentrations ranging from 28 to 358 mg/Kg and levels of lead, cadmium and zinc exceeding the common range of inorganics typically found in soil. Ground water samples indicated that water in the vicinity of the former lagoon was of "acceptable quality", with the exception of fluoride concentrations (13 to 30 mg/l), which exceeded the New York State sanitary code for fluoride (2.2 mg/l). Fluoride concentrations in two surface water samples, (spring near the tributary northeast of the lagoon and downstream near railroad embankment) were well below the NYSDEC surface water standard. These data indicated that surface water quality in the tributary had not been impacted with respect to fluoride.

The results of the investigation indicated that fluoride was present in both the ground water downgradient of the former lagoon and in soils at the bottom of the former lagoon. Lead was found in only one downgradient well (CD-2) at a concentration above the NYSDEC ground water standard. Additionally, ERM observed that fluoride and barium levels in subsurface soil and ground water attenuated significantly with distance from the former lagoon.

November 1983: The Site was classified as a Class 2a Site in the New York Registry of Inactive Hazardous Waste Sites.

July 1988 - January 1989: A Phase II investigation was conducted by Gibbs & Hill (G&H), which was contracted by the NYSDEC. In addition to a historical record search, ground water, surface water and sediment samples were collected and analyzed. The G&H Phase II investigation reported that there was no evidence of contamination or the migration of contamination from the Site.

July 1990: NYSDEC conducted additional ground water monitoring at the Site. Fluoride levels exceeding background levels by more than ten times were detected. The levels also exceeded the New York Class GA ground water standard for fluoride of 1.5 mg/l. Subsequently, the Site was reclassified as a Class 2 Site and a remedial investigation and feasibility study was recommended.

July 1999: Order on Consent to develop and implement a Remedial Investigation/Feasibility Study was executed between NYSDEC and C&D.

1.5 Nature and Extent of Contamination

Prior to the current RI, fluoride was detected at elevated concentrations in soil and ground water beneath and downgradient of the former lagoon. Additionally, lead was detected at elevated concentrations in lagoon soil and in ground water at one monitoring well location. Therefore, the NYSDEC requested that fluoride and metals (lead and barium) concentrations in the former lagoon soils and on-site ground water be further characterized, in addition to sediments from the tributary to the Neversink River.

2.0 REMEDIAL INVESTIGATION ACTIVITIES

Activities completed during the Remedial Investigation included:

- The development of all on-site monitoring wells (August 11 & 12, 1999) and measurement of ground water levels in the wells (August 10 & 27, 1999);
- In-situ hydraulic conductivity testing of monitoring wells MW-6 through MW-10, MW-12 and MW-13 (August 27, 1999);
- The collection of ground water samples from seven on-site monitoring wells (MW-6, MW-7, MW-8, MW-9, MW-10, MW-12, MW-13) for laboratory analyses (September 9, 1999, January 13, 2000 and March 27, 2000);
- Collection of samples from the Swartwout potable well in February 2000 and March 2000.
- The installation of ten test pits (TP-1 through TP-10) within the former lagoon for laboratory analyses (August 25 & 26, 1999);
- The collection of ten surface soil samples within the former lagoon for laboratory analysis and field screening of lagoon surface soils with a gamma scintillation counter (January 13-14, 2000);
- The installation of six subsurface borings (SB-1 through SB-6) within the former lagoon for laboratory analyses (March 27 & 28, 2000);
- The collection of sediment samples (SED-1 through SED-4) for laboratory analyses (August 10, 1999);
- The collection of two background surface soil samples (SS-UP-01 & SS-UP-02) (August 10, 1999) and two surface soil samples from the former railroad bed (RR-SS-01 & RR-SS-02) (August 10, 1999).

Techniques and methods specified in the NYSDEC approved Work Plan were used for performing all field investigations and laboratory testing.

2.1 Monitoring Well Development

With the exception of monitoring well MW-11, which was dry, all monitoring wells were developed on August 11 & 12, 1999, to remove the residual formational silts and clays from the well formations. The wells were developed using a Waterra inertial pump with dedicated tubing, as outlined in the Work Plan. The pH, specific conductivity, and turbidity of the well development water was measured and recorded at regular intervals. Well development continued until a turbidity of less than, or equal to, 50 Nephelometric Turbidity Units (NTUs) was achieved, or until an amount of ground water equivalent to at least 10 well volumes was

removed from the formation and other field parameters were stabilized. Well development data are presented in Appendix A.

2.2 Measurement of Ground water Levels and Ground water Flow Direction

Ground water level measurements were taken on August 10 & 27, 1999, January 14, 2000 and March 27, 2000. The August 27, 1999 measurements were taken prior to conducting the hydraulic conductivity testing. Water level measurements were collected in accordance with procedures outlined in the Work Plan. Ground water elevation data are presented in Table 1. The ground water contour maps for August 1999 and March 2000 are presented in Figures 3 and 4, respectively. Ground water flow direction is discussed in Section 3.0.

2.3 Hydraulic Conductivity Testing

In-situ hydraulic conductivity testing was performed in wells MW-6 through MW-10, MW-12 and MW-13 on August 27, 1999, so that net ground water flow rates could subsequently be estimated and potential rates of contaminant transport could be assessed. Hydraulic conductivity testing consisted of in-situ slug and bail tests used in conjunction with pressure transducers. The testing was performed in accordance with methods described in the NYSDEC approved Sampling and Analysis Plan. Hydraulic conductivity data are summarized in Table 2 and are provided in Appendix B. Hydraulic conductivity data are further discussed in Section 3.0.

2.4 Ground water Sampling

Ground water samples were collected from seven on-site monitoring wells (MW-6, MW-7, MW-8, MW-9, MW-10, MW-12, MW-13) on September 9, 1999, January 13, 2000 and March 27, 2000. Samples could not be collected from monitoring well MW-11 in September 1999 and January 2000, because the well was dry. A sample for PCB analysis was collected from MW-11 in March 2000. The sampling was performed in accordance with methods described in the Sampling and Analysis Plan.

In September 1999, analyses for barium and lead were performed on both the filtered and unfiltered samples. During the September 1999 sampling event, samples collected from monitoring wells MW-6 and MW-7 (both downgradient of the former lagoon) were analyzed for the full suite of TCL/TAL parameters. Samples collected from the remaining monitoring wells (MW-8, MW-9, MW-10, MW-12, MW-13) were analyzed for barium, lead, and fluoride, only.

All ground water monitoring well samples collected during the January 2000 sampling event were analyzed for cadmium and PCBs. The January samples (1st flush sample and 10-minute sample) from the Swartwout residential well were analyzed for the NYSDEC TCL/TAL parameters. The 10-minute sample was also analyzed for fluoride. Because of laboratory derived PCB contamination of the January 2000 ground water and Swartwout well, the ground water and Swartwout well samples for PCBs were re-collected in March 2000.

Samples collected in September 1999 were analyzed at Chemtech in Englewood, New Jersey. Samples collected in January 2000 were analyzed by SCI LABs (Latham, New York) and the

March 2000 samples were analyzed at Severn Trent Laboratory, Colchester, Vermont and duplicate samples (Swartwout well samples and MW-7) from the March sampling event were sent to SCI LAB for analysis. The results of the analyses are presented in Tables 3 through 8. Ground water data are graphically presented in Drawing No. 1. Ground water data are further discussed in Section 4.0.

2.5 Lagoon Surface Soil and Subsurface Soil Sampling

The initial sub-surface lagoon soil samples were collected from ten test pits (TP-1 through TP-10) within the former lagoon on August 25 & 26, 1999. Test pits were advanced using a trackhoe and samples were collected from the bucket of the backhoe. The initial sub-surface lagoon samples were not collected using a drill rig/split spoons because of the high percentage of gravel in the lagoon soils. It was anticipated that the split spoons would exhibit poor recovery because of the gravel in the lagoon soils. The bucket of the trackhoe was cleaned between samples by brushing out loose soil. The samples were collected from the center of the bucket to avoid material that was in contact with the walls of the bucket. A cross section of the sub-surface geology through the lagoon to monitoring well MW-6 is provided in Figure 2.

One sample collected from test pit TP-4 (TP-4 10') and TP-9 (TP-9 0') were sent for laboratory analyses of the full suite of TCL/TAL parameters. All other test pit samples were submitted for laboratory analyses of barium, fluoride and lead. Selected samples were analyzed for total matrix cadmium and lead and TCLP cadmium and lead. All samples were sent to Chemtech in Englewood, New Jersey. The August 1999 lagoon test pit fluoride, lead, cadmium, barium, PCB and TCLP cadmium and lead data are presented in Table 9 and are summarized in Drawing No. 2. The TCL organic data from TP-4 (10') and TP-9 (0') are summarized in Table 10.

In response to the elevated aroclor 1254 and cadmium concentration reported in the TP-9 surface sample collected in August 1999, ten surface soil samples were collected from the lagoon in January 2000 and submitted to SCI LAB for PCB and cadmium analysis. Samples were collected from the surface to a depth of twelve inches using a shovel and dedicated trowels. The shovel was decontaminated between samples following the procedures detailed in Section 2.8. Data are presented in Table 12 and summarized in Drawing No. 3

Because of the elevated Aroclor 1254 and cadmium concentrations detected in the January 2000 lagoon surface soil samples, six subsurface soil borings (SB-1 through SB-6) were installed within the former lagoon on March 27 & 28, 2000. Borings were installed with a drill rig and continuous split spoon samples were collected from one foot below the ground surface to the top of the ground water table. Because of the high percentage of gravel in the lagoon sub-surface soils, sample recovery in the split spoons was limited.

Sub-surface boring samples were sent to SCI-LAB. All samples were extracted for possible subsequent PCB analysis. Initially, three samples from each boring the 1'-3' core sample, the 3'-5' core sample and a sample from the core collected at or just above the ground water table were submitted for PCB analysis. The sample at or just above the ground water table was also submitted for analysis of cadmium and lead. Based on the results of the initial samples, additional samples from borings SB-1, SB-3 and SB-4 were submitted for PCB analysis. The

samples were sent to SCI LAB in Latham, New York. The results of the subsurface soil sample analyses are presented in Table 13 and on Drawing No. 4.

2.6 Sediment Sampling

Four sediment samples (SED-1 through SED-4) were collected from the tributary of the Neversink River on August 10, 1999. Samples were collected in accordance with the methods described in the Sampling and Analysis Plan. The sediment samples were collected as surficial (0-6 inches). Each sediment sample location was collected as an individual sample and was thoroughly homogenized before filling the sample containers. The samples were sent for laboratory analysis of barium, fluoride and lead to Chemtech in Englewood, New Jersey. The results of the analyses are presented in Table 18.

2.7 Surface Soil Sampling

Two background surface soil samples (SS-UP-01 & SS-UP-02) were collected from areas upgradient of the former lagoon on August 10, 1999, in an effort to define site-specific background levels of naturally occurring constituents. The samples were sent for laboratory analyses of the full suite of TCL/TAL parameters. Data are summarized in Table 10.

Two surface soil samples were also collected from the former railroad bed (RR-SS-01 & RR-SS-02) during this sampling event. These samples were sent for laboratory analysis of barium, fluoride and lead. Data are presented in Table 9.

2.8 Decontamination

All non-disposable sampling equipment was decontaminated prior to and after the field activities. All disposable sampling equipment was discarded between samples. The purpose of the equipment decontamination was to minimize the potential for compromising data validity by reducing the possibility of cross-contamination.

Prior to drilling the first lagoon shallow subsurface boring, the equipment used in drilling was cleaned to remove possible contaminants. All equipment that could come in contact with the soil, as well as water tanks, drill tools, iron casings, pumps and hoses was initially cleaned. While working at the Site, the drilling equipment was decontaminated between boring locations to prevent cross-contamination. The back end of the drill rig and all drilling tools were decontaminated before leaving the Site. The cleaning process included the use of a high-pressure steam cleaner. Clean, potable water was used for decontamination of drilling equipment and in drilling procedures.

Non-dedicated sampling equipment including split spoons, shovels, trowels and hand augers, were decontaminated between locations following the procedures detailed below:

- Non-phosphate detergent wash;
- Tap water rinse;
- Laboratory-grade Hexane; and

- Distilled/deionized water rinse.

2.9 Data Usability Report

A Data Usability Summary Report (DUSR) was prepared by Environmental Resources Management for all analytical data generated during the September 1999 sampling event. The DUSR was completed following NYSDEC guidance. The DUSR and the laboratory reporting sheets are provided in Appendix C. The DUSR indicated that although some data were considered estimated, all data were valid and useable, and of sufficient quality to make informed decisions on ground water, soil and sediment quality.

The data for the January 2000 and March 2000 sampling events were reviewed for data quality by a Delaware Engineering chemist. Laboratory reporting sheets for the January 2000 data and the March 2000 data are provided in Appendix D. The data review indicated that with the exception of the January 2000 ground water and Swartwout well PCB and dieldrin results, all data were considered valid and usable. The January MW-7, MW-13 and the Swartwout potable well PCB data were rejected because of laboratory contamination. The dieldrin data were rejected because the reported results were actually a co-eluting PCB peak from the laboratory related PCB contamination. The methylene chloride reported in the August 1999 TP-9 (0') sample is considered laboratory derived and not related to the Site.

3.0 GEOLOGY AND HYDROGEOLOGY

3.1 Regional Geology and Hydrogeology

The C&D facility is located in the Valley and Ridge physiographic province. This province is characterized by the presence of folded Paleozoic sedimentary rocks that include sandstone, shale and limestone. The long axis of the folds generally trends northeast to southwest, resulting in a marked parallelism of ridges oriented in this direction. The Neversink Valley is part of a large trough developed over soluble limestone of Devonian Age.

The facility and surrounding area is underlain by a glacially derived coarsening downward sand and gravel outwash. A thin layer of fine sandy and silty soil overlies some of the surface of this sand and gravel aquifer, mostly in the low flat areas. The irregular thickness of the deposit ranges from less than 10 feet to approximately 150 feet. This unit is an unconsolidated principal aquifer yielding from 10 to 100 gallons per minute.

During post-glacial time, the Neversink River has eroded the older glacial deposits forming the existing floodplain. Remnants of the older glacial deposits remain along the sides of the valley as flat-topped benches or terraces elevated above the present Neversink floodplain. It is these older, coarser-grained terrace deposits which underlie the C&D Site.

3.2 Site Geology and Hydrogeology

The C&D facility is located in the Neversink River Valley, about four miles northeast of the confluence of the Neversink and Delaware Rivers at the City of Port Jervis. The plant is located on a river terrace approximately 35 feet above the elevation of the Neversink River. The topography on the terrace is relatively flat and the slopes extending to the valley floor are steep. A small tributary of the Neversink River is located on the valley floor just east of the facility.

Data from previous soil borings at the Site demonstrated that the soils underlying the facility are predominantly sands and cobbles, with the cobbles becoming more abundant with depth. Coarse deposits of sand, gravel, and small cobbles were encountered at MW-6, MW-12 and MW-13, which were similar to the materials found in borings CD-2 through CD-5 (as presented in the ERM 1982 reports), near the former lagoon. Wells MW-7 through MW-10, on the other hand, are located on a flat-topped bench about 10 feet below the terrace on which wells MW-4 through MW-6 are located. The material underlying wells MW-7 through MW-10 becomes finer grained in a southwesterly direction, as is observed by comparing the logs of MW-7 through MW-10. The sands and gravels that constitute the stratigraphic column at MW-7 change horizontally into well-sorted, fine sand and silt containing thin clay horizons at MW-10. Boring Logs and Monitoring well logs (as presented in the ERM 1982 reports) are provided in Appendix D.

A cross section depicting sub-surface conditions beneath the lagoon and extending through monitoring well MW-6 is provided in Figure 2.

Ground water flow at the Site is southeast towards the unnamed stream (tributary of the Neversink River), which flows east of the Site. The ground water gradient at the Site is approximately 0.0048 ft/ft, based on a flow path roughly extending from monitoring well MW-13 to MW-8 (flow path length of approximately 465 ft).

Horizontal ground water flow dominates within saturated zones. It is anticipated that vertical flow dominates within unsaturated and tension-saturated zones (Freeze and Cherry, 1979). A horizontal ground water flow velocity was calculated for the unconfined shallow water-bearing zone. The ground water flow velocities were calculated using a version of Darcy's law adjusted to account for effective porosity:

$$V = K I/n$$

where:

- V = ground water flow velocity
- K = hydraulic conductivity = 2.0×10^{-2} cm/sec (56.7 feet/day)
- I = hydraulic gradient (the change in head divided by distance) = 0.0048 ft./ft.
- n = effective porosity = 0.40

The horizontal ground water flow velocity within the shallow unconfined overburden unit was estimated for a flow path from the center of the lagoon to monitoring well MW-7, which is approximately 260 feet long. Using the mean horizontal hydraulic conductivity of 2.0×10^{-2} cm/sec (56.7 feet/day) and an estimated effective porosity of forty (40) percent, a net horizontal ground water flow velocity of 2.4×10^{-4} cm/sec (0.68 feet/day) was estimated. Based on a ground water flow velocity of 0.68 feet/day, it would take approximately 1.047 years for ground water from the lagoon to reach monitoring well MW-7.

Ground water contour maps for August 1999 and March 2000 are presented in Figures 3 and 4, respectively. Ground water elevations for August 1999, September 1999, January 2000 and March 2000 are provided in Table 1. The data demonstrate that the ground water flow is consistently to the east-southeast. However, ground water elevations at MW-7 are consistently higher than at MW-6 and this condition appears to be most pronounced during high water conditions.

4.0 SITE ENVIRONMENTAL CONDITIONS

4.1 Ground water Analytical Data

Ground water samples were collected from seven on-site monitoring wells (MW-6, MW-7, MW-8, MW-9, MW-10, MW-12, MW-13) on September 9, 1999, January 13, 2000 and March 27, 2000. The September 9, 1999, January 13, 2000 and March 27, 2000 data are summarized in Tables 3 through 7 and presented in Drawing 3.

During the September 1999 sampling event, samples collected from MW-6 and MW-7 were analyzed for the full suite of NYSDEC TAL/TCL parameters. Samples collected from MW-8, MW-9, MW-10, MW-12 and MW-13 were analyzed for barium, lead, and fluoride, only. All samples collected during the January 2000 sampling event were analyzed for cadmium and PCBs. All samples collected during the March 2000 sampling event were analyzed for PCBs.

4.1.1 Inorganic Data

The September 1999 ground water inorganic data (Table 3) demonstrated that fluoride was the only compound consistently above the NYSDEC ground water standard. Fluoride was detected in the MW-7, MW-8, MW-9 and MW-10 ground water samples at concentrations above the NYSDEC ground water standard of 1,500 ug/L.

With the exception of the MW-6 total matrix lead concentration, downgradient ground water lead concentrations were generally consistent with upgradient (MW-12, MW-13) concentrations. Lead was detected in the September 1999 MW-6 total matrix ground water sample at a concentration of 29.4 ug/L, which is only slightly above the ground water standard of 25 ug/L. However, lead was not detected (at a reporting limit of 3 ug/L) in the field filtered MW-6 ground water sample.

The MW-6 field filtered data indicate that the lead detected in the total matrix sample is to a considerable extent related to the sample sediment load. The MW-6 field filtered sample was filtered through a 0.45-micron filter prior to preservation in the field. The filtered samples contained essentially no suspended sediment, whereas the unfiltered samples contained some sediment load, albeit varying in amount and grain size. Sediment present in a sample will have metal ions both sorbed to its surface and as an integral component of the sediment itself. When sediment-laden samples are preserved with acid in the field (per standard protocol), and when samples are prepared in the laboratory via hot acid digestion (also per standard protocol), metals will be desorbed from the sediment matrix, resulting in reported ground water metals concentrations that are higher than is actually dissolved in the ground water.

Iron was detected in the MW-6 and MW-7 ground water samples and manganese was detected in the MW-7 ground water sample at concentrations slightly higher than the ground water standards. However, iron and manganese are not considered compounds of concern. The exceedance of the iron and manganese standards does not represent a public or environmental health threat, primarily because of the ubiquitous nature of these elements in the environment,

and the fact that the standard is based on aesthetics (taste, staining, etc.). The concentrations of iron and manganese detected in the samples taken from the Site appear to be naturally occurring

The cadmium analytical data for the ground water samples collected in January 2000 demonstrated that cadmium present in the lagoon soils has not had a significant impact on ground water quality. All ground water cadmium results were significantly below the ground water standard of 5 ug/L. Cadmium was detected in the ground water samples from monitoring wells MW-6, MW-7 and MW-10 at 0.99 ug/L, 1.6 ug/L and 0.88 ug/L, respectively, which is above the background ground water level of non-detect at a reporting limit of 0.33 ug/L.

4.1.2 Volatile and Semi-Volatile Organic Compound and Pesticide/PCB Data

No volatile or semi-volatile compounds or pesticides/PCBs were detected in the samples collected from MW-6 and MW-7 on September 9, 1999. However, because elevated PCB levels were detected in the August 1999 TP-4 and TP-9 test pit soil samples, ground water samples were collected from all on-site monitoring wells in January 2000 and analyzed for PCBs. Additionally, at the request of the NYSDEC, two samples (1st flush and 10-minute flush) were collected from the Swartwout residence potable well in February 2000 and analyzed for the NYSDEC TCL/TAL parameters. The 10-minute flush sample was also analyzed for fluoride.

Aroclor 1254 was detected in the January 2000 samples collected from wells MW-7, MW-13 and the February 2000 samples from the Swartwout potable well at concentrations exceeding the NYSDEC ground water standard. However, the PCBs detected at these locations were the result of cross-contamination in the laboratory and all monitoring wells were re-sampled and analyzed for PCBs in March 2000.

The PCB reporting limit for the September 1999 and January 2000 ground water samples was 1.0 ug/L, which is the contract required detection limit for PCB analyses by the NYSDEC, ASP, CLP, 95-3 method. Method 95-3 is the analytical procedure required by NYSDEC for remedial investigations. However, the 1.0 ug/L reporting limit is above the NYSDEC ground water standard of 0.09 ug/L and the New York State Department of Health drinking water standard of 0.5 ug/L. Therefore, the March 2000 samples were analyzed by USEPA Method 8082 (SW-846 Test Methods For the Evaluation of Solid Waste) with a reporting limit of 0.05 ug/L.

Aroclor 1254 was detected in the March 2000 ground water samples from monitoring wells MW-6 and MW-7 only. The reported aroclor 1254 concentration in both monitoring wells was below the NYSDOH drinking water standard (0.5 ug/L). The MW-6 aroclor 1254 concentration (0.24 ug/L) was above the ground water standard (0.09 ug/L). The average MW-7 concentration (0.08 ug/L) was below the ground water standard. Three samples from monitoring well MW-7 were collected and submitted for analysis, an original and a duplicate to Severn Trent and a split sample to SCI LAB: the results for the three samples were 0.067 ug/L, 0.084 ug/L and 0.090 ug/L, respectively. PCBs were not detected at or above the laboratory reporting limit (0.05 ug/L) in the March 2000 samples from wells MW-12, MW-13, MW-8, MW-9, MW-10 and the Swartwout potable well.

Collectively, the ground water data demonstrate that PCBs from the lagoon have not significantly impacted ground water quality. Only one of five downgradient monitoring wells exhibited a PCB concentration above the ground water standard and all monitoring well PCB concentrations were less than the drinking water standard.

To summarize, no NYSDEC TAL/TCL volatile organic, semi-volatile organic or pesticide compounds were detected above the respective New York State ground water standards in the MW-6 and MW-7 monitoring wells. Only one of five downgradient monitoring wells exhibited a PCB concentration above the ground water standard and all monitoring well PCB concentrations were less than the drinking water standard. Therefore, volatile organic, semi-volatile organic, pesticides and PCBs are not a concern in ground water at the Site.

4.2 Swartwout Potable Well

The Swartwout residence is located approximately 500 feet east southeast of the lagoon between the C&D plant and the tributary to the Neversink River. In February 2000 two water samples were collected from the Swartwout potable well. One sample was collected immediately following turning on the kitchen tap (1st flush sample) and the second was collected after allowing the water to run for ten minutes (10-minute sample). Both samples were collected from the kitchen tap following removal of the faucet strainer. The samples were analyzed for the NYSDEC TCL/TAL parameters, the 10-minute sample was also analyzed for fluoride. Analytical results are summarized in Table 8.

The inorganic data for the Swartwout well 1st flush and 10-minute samples demonstrated that no metals detected at elevated concentrations in the lagoon soils (barium, cadmium, chromium, copper, lead, silver and zinc) were above either the NYSDEC ground water standard or the New York State Department of Health drinking water standard. In the 1st flush and 10-minute samples, cadmium, chromium, copper, lead, silver and zinc were not detected at or above the reporting limit. In both samples barium was detected at a concentration of 0.12 mg/L which is well below the NYSDEC ground water standard (1 mg/L) and the New York State Department of Health drinking water standard (2 mg/L). These data indicate that the former lagoon has not impacted the Swartwout potable well water quality with respect to metals.

Fluoride was detected in the Swartwout well (10-minute sample) at 3.85 mg/L. This value slightly exceeds the New York State Department of Health drinking water standard (2.2 mg/L) and the NYSDEC ground water standard (1.5 mg/L) but does not exceed the United States Environmental Protection Agency (USEPA) National Primary Drinking Water Standard (4.0 mg/L). The Site upgradient monitoring well fluoride concentrations were 0.521 mg/L (MW-12) and 0.642 mg/L (MW-13). These data indicate the former lagoon may have impacted the Swartwout well water quality with respect to fluoride. However, as noted the reported concentration is below the USEPA drinking water standard.

The Swartwout well volatile organic results showed that methylene chloride was detected in both the 1st flush and ten minute samples at 5 ug/L, which is the ground water and drinking water standard. Methylene chloride is a common laboratory contaminant and the detection of this compound is most likely related to laboratory contamination. Toluene was detected in the 10-

minute sample at an estimated concentration of 3 ug/L (below the practical quantitation limit but above the instrument detection limit), which is below both the ground water standard and the drinking water standard. Because the toluene concentration in the 10-minute is below the PQL and because toluene was not detected in the 1st flush sample, the validity of the toluene reported in the ten minute is in question.

The toluene and methylene chloride detected in the Swartwout samples are not considered related to the C&D former lagoon. Neither methylene chloride nor toluene was detected in the volatile organic samples from monitoring wells MW-6 and MW-7. Toluene was not detected in the lagoon soil samples from TP-4 (10') or TP-9 (0'). Although methylene chloride was detected in the TP-9 (0') sample at an estimated concentration of 7.4 ug/Kg (which is below the NYSDEC RSCO of 100 ug/Kg) methylene chloride is a common contaminant. Although methylene chloride was not detected in the laboratory method blank associated with this sample, laboratory contamination is a random artifact and the reported methylene chloride in sample TP-9 (0') is considered laboratory derived.

No semi-volatile organic or pesticide compounds were detected in either the 1st flush or 10-minute samples. Although dieldrin was reported at a concentration of 0.1 ug/L in both samples collected in February 2000, review of the data indicated that the reported dieldrin concentration was incorrect and was actually associated with Aroclor 1254 which was present due to laboratory contamination.

Aroclor 1254 was detected in the 1st flush and 10 minute samples collected from the Swartwout potable well in February 2000 at concentrations exceeding the NYSDEC ground water standard. However, the PCBs detected at these locations were the result of cross-contamination in the laboratory and all monitoring wells were re-sampled and analyzed for PCBs in March 2000.

The March 2000 1st flush samples and 10-minute samples collected from the Swartwout potable well were submitted for PCB analysis. Samples were submitted to Severn Trent Laboratory and split samples were submitted to SCI LAB. Analytical results from both labs indicated that no PCBs were detected at or above the laboratory reporting limit (0.05 ug/L Severn Trent; 0.065 ug/L SCI LAB). These data indicate that soils in the former lagoon have not impacted water quality in the Swartwout well with respect to PCBs.

4.3 Lagoon Soil Analytical Data

Sub-surface soil samples were collected from ten test pits (TP-1 through TP-10) on August 25 & 26, 1999. Two samples, one collected from TP-4 (10' interval) and a second from TP-9 (0' interval) were sent for laboratory analysis of the full suite of TCL/TAL parameters. Samples collected from the remaining test pits, and the remaining intervals of TP-4 and TP-9, were sent for laboratory analysis of barium, fluoride and lead. Selected samples were analyzed for total cadmium, TCLP cadmium and TCLP lead. Samples were generally collected at 0', 2', 4', 6', 8', 10' and 12', or until refusal was encountered.

Based on data from the August 1999 sampling, the decision was made to collect ten surface soil samples from the lagoon. Samples were collected on January 14, 2000 and were analyzed for

cadmium and PCBs. Sub-surface soil borings were also collected from six soil borings (SB-1 through SB-6) on March 27 & 28, 2000. Selected samples were sent for laboratory analysis of PCBs, and samples at the ground water interface were analyzed for cadmium and lead.

Test pit data are summarized in Table 9 and 10, surface soil data in Table 12 and soil boring data in Table 13. A summary of the Test pit and soil boring cadmium and lead data are provided in Table 11. A summary of lead, cadmium, fluoride and PCB data by depth are presented in Tables 14, 15, 16 and 17, respectively. Test pit data are depicted in Drawing No. 2, surface soil data in Drawing No. 3 and soil boring data in Drawing 4.

4.3.1 Inorganic Data

The TP-4 (10') and TP-9 (0') samples exhibited barium, cadmium, chromium, copper, lead, silver and zinc concentrations that were above the NYSDEC Recommended Soil Cleanup Objective (RSCO) or the Site background and Eastern USA background concentrations. The TP-9 (0') lagoon soil mercury concentration was also above the NYSDEC RSCO, however the deeper TP-4 (10') mercury value was not significantly higher than the RSCO.

The test pit samples demonstrate that barium, cadmium and lead are present in lagoon soils at concentrations above the RSCO (Barium 300 mg/Kg Cadmium 10 mg/Kg; Lead Site Background 10.9 mg/Kg) at depths up to 12 feet (below surface of lagoon). Data from lagoon soil boring samples collected immediately above the ground water table confirm elevated cadmium levels at depth in lagoon soils.

The USEPA (Identification of Dangerous Levels of Lead; 40 CFR Part 745) considers lead an exposure hazard if concentrations in bare soil in children's play areas is 400 mg/Kg or higher or the average lead concentration in bare soil in the rest of the yard exceeds 1200 mg/Kg. Although the average lagoon surface soil concentration (2,237.7 mg/Kg Table 14) exceeds these values, the C&D Site is an industrial facility with no routine exposure to the lagoon sediments. As noted in Section 4.1, downgradient ground water data indicate that lagoon soils have not had a significant impact on ground water lead concentrations.

Samples at depth collected from TP-1 (12'), TP-4 (10'), TP-8 (12') and TP-10 (6') failed TCLP analysis for cadmium and a sample collected from TP-4 (10') failed TCLP analysis for lead. However, the TCLP method does not accurately represent or predict the mass of cadmium or lead that would be desorbed from the lagoon soils and become dissolved in the ground water. The TCLP method was designed to mimic leaching conditions in a municipal landfill and does not apply to the C&D former lagoon. This is supported by the ground water data from on-site downgradient monitoring wells.

As discussed in section 4.1, all downgradient monitoring well ground water cadmium concentrations were below the NYSDEC ground water standard, although concentrations were slightly higher than upgradient background ground water concentrations. All downgradient monitoring well ground water lead concentrations, except MW-6, were below the ground water standard and consistent with background concentrations. The MW-6 total matrix lead concentration was only slightly above the ground water standard and the field-filtered value was

below the ground water standard and less than the total matrix background concentrations. Data indicate that the lagoon soils have not significantly impacted downgradient ground water quality with respect to either cadmium or lead.

Fluoride was detected in each test pit at concentrations above the levels reported in the shallow (6-12") samples collected along the railroad tracks which are considered representative of Site background fluoride concentrations (<10.19 to <10.42 mg/Kg). In most test pits elevated fluoride concentrations were detected at depth. The test pit soil boring sample fluoride data are depicted in Drawing 2. Test pits 7, 8, 9 and 10 had the highest fluoride concentrations. In test pit 7 concentrations ranged from 164 mg/Kg at the surface to 65.4 mg/Kg at twelve feet. Fluoride concentrations in test pit 8 ranged from 327 mg/Kg at the surface to 88.5 mg/Kg at twelve feet. Fluoride concentrations in test pit 9 ranged from 278 mg/Kg at the surface to 29.1 mg/Kg at 10 feet. The fluoride concentrations in test pit 10 ranged from non-detect at a reporting limit of 12.9 mg/Kg to 88 mg/Kg at ten feet.

4.3.2 *Semi-Volatile Organic Compound and Pesticide/PCB Data*

Subsurface samples collected from TP-4 (10' interval) and TP-9 (0' interval) were analyzed for the full suite of NYSDEC TAL/TCL semi-volatile organic and pesticide/PCB compounds.

Several NYSDEC TCL semi-volatile organic compounds were detected in samples TP-4 (10' interval). However, with the exception of benzo(a)pyrene (100 ug/Kg), which was detected above the RSCO (61 ug/Kg), no semi-volatile organic compounds were detected in the TP-4 (10') sample at or above the NYSDEC RSCO. Two semi-volatile organic compounds, di-n-butylphthalate and bis(2-ethylhexyl)phthalate were detected at a low concentration in the TP-9 (0') sample. Both compounds were well below the respective NYSDEC RSCO. These data indicate the TCL semi-volatile organic compounds are not a concern in the former lagoon.

Aroclor 1254 was detected in TP-4 (10' interval) and TP-9 (0' interval) at concentrations of 6.5 mg/Kg and 40 mg/Kg, respectively. While the sample collected from TP-9 (0' interval) exceeded the NYSDEC RSCO, the sample collected from TP-4 (10' interval) did not. To determine the extent of PCBs in the lagoon, ten surface soil samples were collected and six sub-surface borings were advanced in the lagoon. In each sub-surface boring, continuous two-foot split spoon samples were collected from one foot below the ground surface to the top of the water table.

The surface soil (0-12") PCB aroclor 1254 concentrations ranged from 34 mg/Kg to 1,100 mg/Kg, all of which are above the NYSDEC surface soil RSCO of 1 mg/Kg and the sub-surface RSCO of 10 mg/Kg. Cadmium concentrations ranged from 32 mg/Kg to 46,000 mg/Kg, which exceed the RSCO of 1.0 mg/Kg.

The soil boring data demonstrated that PCB concentrations at depth (below 3') in borings SB-2, SB-5 and SB-6 were below the sub-surface RSCO of 10 mg/Kg. In borings SB-3 and SB-4 concentrations below 3' ranged from 1.2 mg/Kg to 15 mg/Kg (SB-3) and 2.3 mg/Kg to 31 mg/Kg. Overall, sub-surface lagoon soil PCB concentrations are not significantly elevated with

respect to the sub-surface RSCO. Data indicate that the significant mass of PCBs in the lagoon soils are concentrated in the surface soils.

4.3.3 Volatile Organic Compound Data

Methylene chloride was detected in the TP-9 (0') sample at an estimated concentration (7.4 ug/Kg), which is below the NYSDEC RSCO of 100 ug/Kg. Methylene chloride is a common contaminant and although it was not detected in the laboratory method blank associated with this sample, laboratory contamination is a random artifact and the reported methylene chloride in sample TP-9 (0') is potentially laboratory derived. No other volatile organic compounds were detected at or above the laboratory reporting limit in either TP-4 (10') or TP-9 (0'). These data indicate that volatile organics are not a concern in the former lagoon.

4.3.4 Gamma Radiation Screening

On January 13, 2000 and January 14, 2000 surface soils in the lagoon were screened with a Victoreen Model 190 Gamma Scintillation Probe for gamma radiation. Surface soils at a total of ten locations were screened along with a background area outside the lagoon.

The initial screening performed on January 13, 2000 produced erratic readings, believed to be caused by extremely cold temperatures and damp atmospheric conditions. Three surface soil locations gave readings between 890 micro rems/hr to 1.15 milli rems/hr. However, the readings could not be duplicated. Second readings at these locations resulted in readings equivalent to background (1.9 micro rems/hr to 3.0 micro rems/hr).

The gamma scintillation screening was repeated on January 14, 2000. Readings at all ten locations, including the areas which exhibited erratic readings on January 13, 2000, were between 2 micro rems/hr to 4 micro rems/hr, which is equivalent to the background readings.

4.4 Sediment Analytical Data

Sediment samples were collected from four locations (SED-1, SED-2, SED-3, SED-4) on August 10, 1999. The samples were sent for laboratory analyses of barium, fluoride and lead. Data are summarized in Table 18.

Sediment criteria for metals are provided in the *Technical Guidance for Screening Contaminated Sediments* (NYSDEC, November 1993). Of the three analytes analyzed, only lead has established sediment criteria: a lowest effect level (31.0 mg/Kg) and a severe effect level (110 mg/Kg). If the lowest effect level criterion is exceeded, the impact is considered moderate. If the severe effect level criterion is exceeded, the sediment is considered severely impacted. The upgradient SED-1 sediment sample exceeded the lowest effect level for lead. The downstream SED-3 sample also exhibited a lead concentration above the lowest effect level; however, the concentration was less than the upstream value. The SED-2 lead concentration was below the low effect level. Sediment sample SED-4 exceeded the severe effect level for lead. Sample SED-4 was collected downstream of the former railroad line. The elevated concentration in

SED-4 is potentially due to its proximity to the abandoned rail line. These data indicate that the Site has not had a significant impact on stream sediment quality with respect to lead.

There is no NYSDEC sediment criteria for fluoride. Fluoride was not detected at or above the laboratory reporting limit in upgradient sample SED-1 or downgradient sample SED-2. The reporting for SED-1 was high because of the low percent solids content. Fluoride was detected in the SED-3 and SED-4 samples. The SED-4 fluoride concentration was less than the SED-3 value, which supports the observation that the lead detected in the SED-4 sample may potentially be related to the former railroad line and not the lagoon.

Fluoride and lead are both contaminants found in the soil within the former lagoon. Fluoride is considerably more mobile in the environment than lead. If the lagoon was the source of the lead reported in the SED-4 sediment sample, the SED-4 fluoride concentration would also most likely be higher than the SED-3 reported fluoride concentration. The SED-4 fluoride concentration was only slightly higher than the SED-2 reporting limit, indicating that the sediments in the vicinity of SED-4 have not been significantly impacted with respect to fluoride.

The barium concentration in the upgradient sample was 90.1 mg/Kg was greater than the concentrations detected in samples SED-2, SED-3 or SED-4, 37.3 mg/Kg, 67.7 mg/Kg and 15.6 mg/Kg, respectively. These data indicate the detected barium is not attributable to the lagoon and that the stream sediments have not been impacted with respect to barium.

To summarize, fluoride was detected in the sediment sample SED-3 at a concentration above the upstream SED-1 reporting limit. The SED-4 fluoride value was only slightly above the SED-2 reporting limit and indicates that sediments in the vicinity of SED-4 have not been significantly impacted with respect to fluoride. Barium was also detected in the sediment samples collected from the Site, but the upgradient sample, SED-1, had the highest concentration of any sample, suggesting that the barium is attributable to background conditions and not the lagoon. The data indicate that the lead detected in the SED-4 sample may be related to the former railroad line.

The stream sediment data demonstrate that the Site has not had a significant impact on stream sediment quality with respect to lead or barium. With the possible exception of the SED-3 fluoride value, data indicate that stream sediments have not been significantly impacted with respect to fluoride.

The sediment samples were not analyzed for cadmium and PCBs, which are two compounds of concern at the Site. However, sediment samples will be collected and analyzed for PCBs and cadmium as part of the proposed additional Operable Unit 2 RI. NYSDEC has divided the Site into two operable units. Operable Unit 2 will included the sediments in the unnamed tributary to the Neversink River.

5.0 FATE AND TRANSPORT

Parameters detected in soil from the former lagoon at levels above the NYSDEC RSCOs include barium, cadmium, chromium, copper, lead, silver, zinc and aroclor 1254. However, the data presented in the preceding sections indicate that the fluoride was the only analyte consistently detected above the ground water standard in the downgradient monitoring wells. Fluoride was detected in four (MW-7, MW-8, MW-9, MW-10) of the five downgradient monitoring wells at concentrations exceeding the NYSDEC ground water standard (1.5 mg/L). Lead and PCBs were only detected in one downgradient well (MW-6), at concentrations only slightly above the NYSDEC ground water standards.

This section discusses the fate and transport characteristics of the compounds of concern in the various Site media. Fate and transport is controlled by the physical/chemical characteristics of the compounds (i.e., water solubility, oxidation state, etc.) and the physical characteristics of the Site, including but not limited to ground water flow rates and direction, sub-surface soil types, soil permeability, organic carbon content, and cultural features (drainage patterns, etc.).

5.1 Water Solubility

Water solubility is the degree to which a compound dissolves in water. Water solubility is useful in estimating contaminant fate and transport and is directly related to sorption, which will be discussed in the following section. Highly water-soluble compounds tend to weakly sorb to soils, and subsequently leach from the soils rapidly. Highly water-soluble compounds also tend to be less volatile and more readily biodegradable than less water-soluble constituents. Water solubility is influenced by several environmental parameters, including temperature and pH.

The water solubility of polychlorinated biphenyls, of which Aroclor 1254 is one congener, is 3.1×10^{-2} mg/l, indicating that it is a relatively insoluble compound. Fluoride is a more soluble ion. The water solubility of barium, cadmium and lead depend on the oxidation states of the metals.

5.2 Organic Carbon Partition Coefficients (K_{oc})

The organic carbon partition coefficient (K_{oc}) provides a measure of how an organic compound will partition between the organic carbon fraction of a soil and the water surrounding the soil. Typically, almost all of the adsorption of organic chemicals by a soil is due to the organic carbon content of the soil. Chemicals with high values of K_{oc} tend to sorb strongly to the organic carbon fraction of the soil, and subsequently, have less of a tendency to migrate into the surrounding ground or surface water. Chemicals with low values of K_{oc} tend to sorb weakly to the organic carbon fraction of the soil, and subsequently, have the potential to migrate into the ground or surface water. K_{oc} is chemical-specific, largely independent of soil properties, and ranges in value from 1 to 10^7 . K_{oc} can be related to water solubility (S) by the following relationship:

$$\text{Log } K_{oc} = -0.54 \log S + 0.44$$

Aroclor 1254 is the only organic compound of concern at the Site, and was found at the highest concentrations in the top one to two feet of soil in the former lagoon. The top six to twelve inches of soil in the lagoon is a highly organic black loam. The K_{oc} of Aroclor 1254 is 5.3×10^5 ml/g, which indicates that it will tend to sorb strongly to the organic carbon fraction of the soil, and subsequently, have less of a tendency to migrate into the surrounding ground or surface water. The results of ground water sampling confirm this generally non-migratory behavior. Only one monitoring well, MW-6, exhibited a PCB concentration (0.24 ug/L) above the NYSDEC ground water standard (0.09 ug/L). The MW-6 PCB concentration was below the New York State Department of Health drinking water standard (0.5 ug/L).

Although the data indicate that PCBs are relatively insoluble and strongly sorb to organic matter any insignificant quantity that would dissolve in ground water would migrate along the ground water table. However, sorption of chemicals to soil organic matter will retard the movement of dissolved phase chemicals (V_s) relative to the rate of ground water flow (V) and the ratio is defined as the retardation factor. The retardation factor can be calculated via the following formula:

$$R = V/V_s = 1 + K_d(d_b/n) \text{ and}$$

$$K_d = K_{oc} \times \text{Organic Carbon Content (OC milligrams organic carbon/milligram of soil)}$$

Where K_d is the partition coefficient (cm^3/g), d_b is the bulk density (g/cm^3) and n is the porosity. The velocity of the dissolved phase relative to ground water can be calculated by rearrangement of the above equation:

$$V_s = V / (1 + K_d(d_b/n))$$

The organic carbon content of 0.2 percent (2,000 mg/Kg) was used for calculating the K_d .

As stated in Section 3.0, it is estimated that it would take approximately 1.47 years for ground water from the lagoon to reach monitoring well MW-7. Because of chemical sorption to soil organic matter, it would take significantly longer for aroclor 1254 to reach MW-7.

Compound	Ground water Velocity ft/day	K_d Cm^3/g	Bulk Density g/cm^3	Porosity	Chemical Flow Rate ft/year	Time to Reach MW-7 in Years
Aroclor 1254	0.68 ft/day	1060	1	0.4	0.094	2777

Based on the equations above, the estimated travel time for dissolved phase aroclor 1254 to migrate from the lagoon to monitoring well MW-7 is approximately 2777 years. However, this equation assumes movement of dissolved phase only. Analytical data indicates that low concentrations of aroclor 1254 have been detected in monitoring wells MW-6 and MW-7. It is probable that the aroclor 1254 detected in ground water samples from MW-6 and MW-7 is associated with sorbtion of aroclor 1254 to colloidal material and the transport of colloids along the ground water table. The high porosity of the gravelly sands located beneath the Site most likely facilitates the movement of colloidal material.

While barium, cadmium, chromium, copper, lead, silver, zinc and fluoride are not organic compounds, and therefore will not be discussed in terms of K_{oc} , a discussion of adsorption potential is still appropriate. The metals will be discussed in terms of the adsorption (or distribution) coefficient (K_d), and fluoride will be discussed in terms of sorption resulting from charged particle interactions.

The adsorption coefficient is defined as the ratio of the concentration of the compound adsorbed on the soil surface to the equilibrium concentration of the compound in the surrounding water. Adsorption coefficients for the elements present at elevated concentrations in the lagoon soils are presented below.

ELEMENT	ADSORPTION COEFFICIENT	SORPTION TENDENCY
*Barium	Not Available	Weakly to Moderately Sorbed
Cadmium	1.3 – 27	Weakly Sorbed
Chromium	470 – 150,000	Weakly to Highly Sorbed
Copper	1.4 – 333	Weakly to Moderately Sorbed
Lead	4.5 – 7,640	Weakly to Moderately Sorbed
Silver	10 – 1,000	Weakly to Moderately Sorbed
Zinc	0.1 – 8,000	Weakly to Moderately Sorbed

* Weakly to Moderately sorbed based on data from Dragun (1988).

Cadmium has a K_d in the range of 1.3 – 27 ml/g, which suggests it sorbs weakly to soil organic matter. Barium, chromium, copper, lead, silver and zinc sorb weakly to moderately to soil organic matter.

Because cadmium tends to sorb to soils weakly, yet has not been detected in the ground water, it is assumed that the cadmium is present at the Site in an insoluble form. Barium, chromium, copper, silver and zinc tend to sorb to soils weakly to moderately, yet were not detected in the ground water, it is assumed that these elements present at the Site are either in an insoluble form or sorbed to the soil.

It is also assumed that the majority of the lead present at the Site is either in an insoluble form or sorbed to the soil, since it tends to sorb to soils weakly to moderately. Lead was detected in only the total matrix ground water sample from monitoring well (MW-6). Lead was not detected in the field filtered sample from monitoring well MW-6. These data indicate that the lead reported in the MW-6 total matrix sample is most likely sorbed to colloidal material or sediments.

Fluoride is an anion and in general anions are not strongly sorbed to soil particles. Most soils in the northeast contain a significantly greater number of negative surface charges than positive surface charges. Since fluoride is an anion with a net negative charge, repulsion between the soil particles and fluoride will occur. This results in fluoride being mobile in ground water. Results of ground water sampling confirm this assumption, as barium was not detected in any of the filtered samples while fluoride was detected at elevated concentrations in both the filtered and unfiltered samples.

5.3 Hydraulic Conductivity

In-situ hydraulic conductivity tests were conducted in seven monitoring wells, MW-6 through MW-10, MW-12 and MW-13 on August 27, 1999. (In-situ conductivity tests were also conducted in wells MW-6 through MW-10 in 1989.) The test results are summarized in Table 1 and the supporting data sheets are included as Appendix B. (Hydraulic conductivity was calculated using the Hvorslev method.) The results indicate that the horizontal hydraulic conductivity at the Site ranges from 9.3×10^{-2} cm/sec in well MW-12 to 2.2×10^{-3} cm/sec in well MW-13. (Note: MW-12 is screened from 50 to 55 feet, while MW-13 is screened from 27 to 37 feet.) Data indicate that the formation is very permeable.

5.4 Ground water Gradients and Flow Direction

Based on the findings of the Hydrogeologic Assessments performed by ERM (1982), it was determined that both the former lagoon and the Neversink tributary have had an influence on the hydraulics of the Site. Currently, however, the primary influence is from the tributary, which flows east of the lagoon. Consequently, ground water flow at the Site is toward the tributary, with the water table sloping toward the tributary and the ground water gradient increasing as the tributary is approached.

Grain size variations in the unconsolidated sediments downgradient from the lagoon also influence ground water flow patterns at the Site. Ground water flow in the vicinity of MW-6, MW-7 and MW-12 is enhanced by the presence of coarse-grained sand and gravel deposits, while flow in the vicinity of MW-8, MW-9, MW-10 and MW-13 is impeded by the presence of finer grained sand and silt deposits.

During the period when discharges were made to the lagoon a ground water mound formed immediately adjacent and beneath the lagoon. This mounding resulted in steepened ground water gradients in the downgradient directions from the lagoon, producing a limited radial pattern of flow from the lagoon. While this flow pattern is no longer occurring, it may explain some of the sampling results.

The detection of lead and aroclor 1254, but not fluoride in the MW-6 ground water sample at concentrations above the ground water standards is enigmatic. Fluoride is considerably more mobile in the environment than either lead or aroclor 1254, and fluoride has been detected at elevated concentrations in ground water from monitoring wells MW-7, MW-8, MW-9 and MW-10. Aroclor 1254 and lead have not been detected above the ground water standard in these wells.

The historical mounding from the lagoon created a direct flow path from the lagoon to monitoring well MW-6. Lead and aroclor 1254 may have migrated along the ground water table via sorbtion to colloids and soil particles, which remain within the influence of monitoring well MW-6. Currently, monitoring well MW-6 appears to be primarily located cross gradient of the lagoon, without a direct flow path and therefore MW-6 ground water fluoride concentrations are consistent with background levels.

5.5 Fate and Transport Summary

- Fluoride is a very soluble anion. Therefore, it is considered reasonable that the filtered and unfiltered ground water samples exhibited elevated fluoride concentrations.
- The K_{oc} of Aroclor 1254 is relatively high, indicating that it will tend to sorb strongly to the organic carbon fraction of the soil. Therefore, it is considered reasonable that PCBs were detected at relatively higher concentrations in the highly organic surface soils of the former lagoon soils and sparingly detected in the ground water.
- Since the barium, cadmium, chromium, copper, silver and zinc have not been detected in the ground water, it is assumed that they are present at the Site in an insoluble form or are sorbed to the soils. The aroclor 1254 detected in ground water from monitoring wells MW-6 and MW-7 may be associated with the movement of colloidal material, with sorbed aroclor 1254, along the ground water table.
- The lead and aroclor 1254 detected in monitoring well MW-6 may be related to the historical mounding within the lagoon. This mounding most likely resulted in the movement of ground water from the lagoon toward monitoring well MW-6. Fluoride concentrations in MW-6 are currently consistent with background concentrations, indicating there is currently not a ground water flow path from the lagoon to MW-6. This indicates that the lead and aroclor 1254 detected in the MW-6 ground water sample are associated with minor residual sorbtion to saturated zone soils in the vicinity of MW-6 and that there is not any continuing migration of aroclor 1254 and lead from the lagoon to MW-6. The MW-6 lead and aroclor 1254 concentrations are not indicative of the leading edge of a ground water plume and there is not a significant continuing source of lead and aroclor 1254 located in the vicinity of MW-6.
- Both the former lagoon and the Neversink tributary have had an influence on the hydraulics of the Site. Currently, the primary influence is the tributary, which flows east of the lagoon. Ground water flows toward the tributary with a gradient of approximately one-percent.
- In the past, discharges to the lagoon created mounding of and limited radial flow from, the lagoon. While this flow pattern is no longer occurring, it may explain some of the sampling results.
- Grain size variations in the subsurface also influence ground water flow patterns at the Site. The area in the vicinity of MW-6, MW-7 and MW-12 is primarily coarse-grained sand and

6.0 SUMMARY AND CONCLUSIONS

Parameters detected in soil from the former lagoon at levels above the NYSDEC RSCOs include barium, cadmium, chromium, copper, lead, silver, zinc and aroclor 1254. However, the data presented in the preceding sections indicate that the fluoride was the only analyte consistently detected above the ground water standard in the downgradient monitoring wells. Fluoride was detected in four (MW-7, MW-8, MW-9, MW-10) of the five downgradient monitoring wells at concentrations exceeding the NYSDEC ground water standard (1.5 mg/L). Lead and PCBs were detected in one downgradient well (MW-6) at concentrations only slightly above the NYSDEC ground water standards.

6.1 Lagoon Soil Data

The lagoon surface soil (0-12") PCB aroclor 1254 concentrations ranged from 34 mg/Kg to 1,100 mg/Kg, all of which are above the NYSDEC surface soil RSCO of 1 mg/Kg and the sub-surface RSCO of 10 mg/Kg. Surface soil cadmium concentrations ranged from 32 mg/Kg to 46,000 mg/Kg, which exceed the RSCO of 10 mg/Kg.

The test pit samples demonstrate that barium, cadmium and lead are present in lagoon soils at concentrations above the RSCO at depths up to 14 feet. Data from lagoon soil boring samples collected immediately above the ground water table confirm high cadmium levels at depth in lagoon soils. The USEPA (Identification of Dangerous Levels of Lead; 40 CFR Part 745) considers lead an exposure hazard if concentrations in bare soil in children's play areas is 400 mg/Kg or higher or the average lead concentration in bare soil in the rest of the yard exceeds 1200 mg/Kg. Although the average lagoon surface soil concentration (2,237.7 mg/Kg) exceeds these values, the C&D Site is an industrial facility with no routine exposure to the lagoon sediments. As noted in Section 4.1, downgradient ground water data indicate that lagoon soils have not had a significant impact on ground water lead concentrations.

Fluoride was consistently detected in each test pit at concentrations above the levels reported in the shallow (6-12") samples collected along the railroad tracks which are considered representative of Site background fluoride concentrations (<10.19 to <10.42 mg/Kg). In most test pits elevated fluoride concentrations were detected at depth.

The soil boring data demonstrated that PCB concentrations at depth (below 3') in borings SB-2, SB-5 and SB-6 were below the sub-surface RSCO of 10 mg/Kg. In borings SB-3 and SB-4 concentrations below 3' ranged from 1.2 mg/Kg to 15 mg/Kg (SB-3) and 2.3 mg/Kg to 31 mg/Kg, respectively. Overall, sub-surface lagoon soil PCB concentrations are not significantly elevated with respect to the sub-surface RSCO. These data indicate that the significant mass of PCBs in the lagoon soils are concentrated in the surface soils.

6.2 Ground Water Data

The ground water data indicate that fluoride is the only compound consistently detected above the ground water standard in ground water from the on-site monitoring wells. Fluoride was

detected in four (MW-7, MW-8, MW-9, MW-10) of the five downgradient monitoring wells at concentrations above the ground water standard (1.5 mg/L).

The metals data from monitoring wells MW-6 and MW-7 indicate that the barium, cadmium, chromium, copper, silver and zinc reported in the lagoon soils has not impacted ground water downgradient of the lagoon. Lead was detected in the total matrix MW-6 ground water sample at a concentration above the ground water standard. However, lead was not detected in the MW-6 field filtered sample at a 3 ug/L reporting limit, indicating that the lead detected in the MW-6 total matrix sample is associated with the sample sediment load and that lead is not currently migrating as a dissolved species in the ground water.

The lead and aroclor 1254 detected in monitoring well MW-6 may be related to the historical mounding within the lagoon. This mounding most likely resulted in the movement of ground water from the lagoon toward monitoring well MW-6. Fluoride concentrations in MW-6 are currently consistent with background concentrations, indicating there is currently not a ground water flow path from the lagoon to MW-6. This indicates that the lead and aroclor 1254 detected in the MW-6 ground water sample are associated with minor residual sorption to saturated zone soils in the vicinity of MW-6 and that there is not any continuing migration of aroclor 1254 and lead from the lagoon to MW-6. The MW-6 lead and aroclor 1254 concentrations are not indicative of the leading edge of a ground water plume and there is not a significant continuing source of lead and aroclor 1254 located in the vicinity of MW-6.

Cadmium was detected in the ground water samples from monitoring wells MW-6, MW-7 and MW-10 at 0.99 ug/L, 1.6 ug/L and 0.88 ug/L, respectively, which is above the background (MW-11, MW-12 and MW-13) concentration of non-detect at 0.33 ug/L. However, all ground water cadmium results were significantly below the ground water standard of 5 ug/L. The cadmium analytical data for the ground water samples collected in January 2000 demonstrate that cadmium present in the lagoon soils has not had a significant impact on ground water quality.

Aroclor 1254 was detected in the March 2000 ground water samples from monitoring wells MW-6 and MW-7. Three samples from monitoring well MW-7 were collected and submitted for analysis, an original and a duplicate to Severn Trent and a triplicate sample to SCI LAB: the results for the three samples were 0.067 ug/L, 0.084 ug/L and 0.090 ug/L. The average MW-7 concentration (0.08 ug/L) was below the NYSDEC ground water standard. The MW-6 aroclor 1254 concentration (0.24 ug/L) was above the NYSDEC ground water standard (0.09 ug/L). However, the reported aroclor 1254 concentration in both monitoring wells was below the NYSDOH drinking water standard (0.5 ug/L). PCBs were not detected at or above the laboratory reporting limit (0.05 ug/L) in the March 2000 samples from either downgradient monitoring wells MW-8, MW-9, MW-10 or the Swartwout potable well.

PCBs were not detected at or above the laboratory reporting limit (0.05 ug/L) in the March 2000 samples from wells downgradient monitoring wells MW-8, MW-9, MW-10 and the Swartwout potable well.

Collectively, the ground water data demonstrate that PCBs from the lagoon have not significantly impacted ground water quality. Only one of five downgradient monitoring wells exhibited a PCB concentration above the ground water standard and all monitoring well PCB concentrations were less than the drinking water standard.

6.3 Swartwout Potable Well Data

The Swartwout well potable data indicate that with the exception of fluoride, contaminants associated with the former lagoon have not impacted water quality in the Swartwout potable well. Fluoride was detected in the Swartwout well (10-minute sample) at 3.85 mg/L. This exceeds the New York State Department of Health drinking water standard (2.2 mg/L) and the NYSDEC ground water standard (1.5 mg/L) but does not exceed the United States Environmental Protection Agency (USEPA) National Primary Drinking Water Standard (4.0 mg/L). The Site upgradient monitoring well fluoride concentrations were 0.521 mg/L (MW-12) and 0.642 mg/L (MW-13). These data indicate the former lagoon may have impacted the Swartwout well water quality with respect to fluoride. However, as noted the reported concentration is below the USEPA National Primary Drinking Water Standard.

6.4 Stream Sediment Data

Fluoride was detected in the sediment sample SED-3 at a concentration above the upstream SED-1 reporting limit. The SED-4 fluoride value was only slightly above the SED-2 reporting limit and indicates that sediments in the vicinity of SED-4 have not been significantly impacted with respect to fluoride. Barium was also detected in the sediment samples collected from the Site, but the upgradient sample, SED-1, had the highest concentration of any sample. This suggests that the detected barium concentrations are associated with background conditions and not the lagoon. The data indicate that the lead detected in the SED-4 sample may be related to the former railroad line.

The stream sediment data demonstrate that the Site has not had a significant impact on stream sediment quality with respect to lead or barium. With the possible exception of the SED-3 fluoride value, the data indicate that stream sediments have not been significantly impacted with respect to fluoride.

7.0 REFERENCES

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TABLES

Table 1
Ground Water Elevation Data
C & D Technologies, Inc. Facility
Huguenot, New York

Monitoring Well	Ground Water Measuring Point	August, 27 1999		September, 9 1999		January, 14 2000		March, 27 2000	
		Water Level	Elevation	Water Level	Elevation	Water Level	Elevation	Water Level	Elevation
MW-6	472.37	32.24	440.13	32.78	439.59	29.14	443.23	28.79	443.58
MW-7	461.18	21.03	440.15	21.11	440.07	17.28	443.90	16.63	444.55
MW-8	463.4	23.71	439.69	23.72	439.68	20.35	443.05	19.81	443.59
MW-9	464.7	25.01	439.69	25.18	439.52	21.77	442.93	21.28	443.42
MW-10	464.75	25.11	439.64	25.31	439.44	21.96	442.79	21.4	443.35
MW-12	473.95	33.3	440.65	33.54	440.41	29.11	444.84	28.44	445.51
MW-13	472.86	31.82	441.04	32.1	440.76	27.66	445.20	27.04	445.82

Measuring Point Elevations based on 1988 ERM Survey Report (Elevation is mean sea level in feet using National Geodetic Data of 1929)

Table 2
Monitoring Well Hydraulic Conductivity Data
C & D Technologies, Inc. Facility
Huguenot, New York
August 1999

Monitoring Well	Hydraulic Conductivity(cm/s)	Hydraulic Conductivity(ft/d)	Screened Interval ft. Below Grade	Elevation Top of Screen	Elevation Bottom of Screen
MW-6	7.71E-03	2.18E+01	32.5-42.5	437.77	427.77
MW-7	1.27E-02	3.61E+01	19-29	441.65	431.65
MW-8	4.11E-03	1.17E+01	23-33	438.25	428.35
MW-9	1.74E-02	4.93E+01	23-33	439.15	429.15
MW-10	2.77E-03	7.84E+00	25-35	437.21	427.21
MW-12	8.30E-02	2.35E+02	50-55	426.3	421.3
MW-13	2.16E-03	6.13E+00	27-37	443	433
Average	2.63E-02	7.47E+01			

Table 3
Remedial Investigation
Analytical Data Summary - Ground Water Samples
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: September 9, 1999

Analyte	Sample ID	INORGANICS										NYSDEC GW Standard
		MW-6	MW-7	X-6	MW-8	MW-9	MW-10	MW-12	MW-13			
Aluminum	240	332										NS
Antimony	5.0 U	6.0 U										3
Arsenic	6.0 U	17.9 B	17.7 B	26.7 B	28.5 B	124 B	56.8 B	24.7 B				25
Barium	13.0 B	6.2 B	7.0 B	14.0 B	19.1 B	51.8 B	18.4 B	19.9 B				1,000
Barium (Dissolved)	10.7 B	1.0 U										1,000
Beryllium	1.0 U	1.0 U										3 (GV)
Cadmium	1.0 U	1.0 U										5
Calcium	8760	15500										NS
Chromium	2.2 B	1.3 B										50
Cobalt	2.0 U	3.3 B										NS
Copper	33.3	43.9										200
Iron	663	399										300
Lead	29.4	15.4	10.2	17.5	20.5	13.1	17.7	5.2				25
Lead (Dissolved)	3.0 U	3.0 U	4.4	3.0 U	3.0 U	3.0 U	6.8	3.0 U				25
Magnesium	2030 B	3060 B										35000 (GV)
Manganese	22.3	6690										300
Mercury	0.20 U	0.20 U										2
Nickel	2.0 U	2.5 B										NS
Potassium	681 BE	16300 E										NS
Selenium	5.0 U	5.0 U										10
Silver	1.0 U	1.1 B										50
Sodium	6390 E	13700 E										20,000
Thallium	7.0 U	7.0 U										0.5 (GV)
Vanadium	2.0 U	2.0 U										NS
Zinc	58.8	71.5										2,000
Cyanide	4.0 U	4.0 U										200
Fluoride	319	10900	10700	5350	6490	3340	521	642				1,500
Fluoride (Dissolved)	264	10800	10300	5120	6390	3320	501	636				1,500

All results expressed in ug/L.
Standard Inorganic Data Qualifiers have been applied.
GV indicates Guidance Value.
NS indicates No Standard.

Table 4
Remedial Investigation
Analytical Data Summary - Ground Water Samples
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: September 9, 1999

<i>VOLATILE ORGANIC COMPOUNDS</i>			
Compound	Sample ID	MW-6	MW-7
Chloromethane		10 U	10 U
Bromomethane		10 U	10 U
Vinyl Chloride		10 U	10 U
Chloroethane		10 U	10 U
Methylene Chloride		10 U	10 U
Acetone		10 U	10 U
Carbon Disulfide		10 U	10 U
1,1-Dichloroethene		10 U	10 U
1,1-Dichloroethane		10 U	10 U
trans-1,2-Dichloroethene		10 U	10 U
cis-1,2-Dichloroethene		10 U	10 U
Chloroform		10 U	10 U
1,2-Dichloroethane		10 U	10 U
2-Butanone		10 U	10 U
1,1,1-Trichloroethane		10 U	10 U
Carbon Tetrachloride		10 U	10 U
Bromodichloromethane		10 U	10 U
1,2-Dichloropropane		10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U
Trichloroethene		10 U	10 U
Dibromochloromethane		10 U	10 U
1,1,2-Trichloroethane		10 U	10 U
Benzene		10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U
Bromoform		10 U	10 U
4-Methyl-2-Pentanone		10 U	10 U
2-Hexanone		10 U	10 U
Tetrachloroethene		10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U
Toluene		10 U	10 U
Chlorobenzene		10 U	10 U
Ethylbenzene		10 U	10 U
Styrene		10 U	10 U
m- & p-Xylene		10 U	10 U
o-Xylene		10 U	10 U

All results expressed in ug/L.

U indicates not detected at the listed concentration. J indicates estimated concentration

Table 5
Remedial Investigation
Analytical Data Summary - Ground Water Samples

C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: September 9, 1999

<i>SEMIVOLATILE ORGANIC COMPOUNDS</i>			
Sample ID	MW-6	MW-7	
Compound			
Phenol	10 U	10 U	
bis(2-Chloroethyl)Ether	10 U	10 U	
2-Chlorophenol	10 U	10 U	
1,3-Dichlorobenzene	10 U	10 U	
1,4-Dichlorobenzene	10 U	10 U	
1,2-Dichlorobenzene	10 U	10 U	
2-Methylphenol	10 U	10 U	
2,2'-oxybis(1-Chloropropane)	10 U	10 U	
4-Methylphenol	10 U	10 U	
N-Nitroso-di-n-propylamine	10 U	10 U	
Hexachloroethane	10 U	10 U	
Nitrobenzene	10 U	10 U	
Isophorone	10 U	10 U	
2-Nitrophenol	10 U	10 U	
2,4-Dimethylphenol	10 U	10 U	
2,4-Dichlorophenol	10 U	10 U	
1,2,4-Trichlorobenzene	10 U	10 U	
Naphthalene	10 U	10 U	
4-Chloroaniline	10 U	10 U	
Hexachlorobutadiene	10 U	10 U	
bis(2-Chloroethoxy)methane	10 U	10 U	
4-Chloro-3-Methylphenol	10 U	10 U	
2-Methylnaphthalene	10 U	10 U	
Hexachlorocyclopentadiene	10 U	10 U	
2,4,6-Trichlorophenol	10 U	10 U	
2,4,5-Trichlorophenol	25 U	25 U	
2-Chloronaphthalene	10 U	10 U	
2-Nitroaniline	25 U	25 U	
Dimethylphthalate	10 U	10 U	
Acenaphthylene	10 U	10 U	
2,6-Dinitrotoluene	10 U	10 U	
3-Nitroaniline	25 U	25 U	
Acenaphthene	10 U	10 U	

Table 5 Continued
Remedial Investigation
Analytical Data Summary - Ground Water Samples

C & D Technologies, Inc. Facility
Huguenot, New York
Sample Date: September 9, 1999

<i>SEMIVOLATILE ORGANIC COMPOUNDS (continued)</i>		
2,4-Dinitrophenol	25 U	25 U
4-Nitrophenol	25 U	25 U
Dibenzofuran	10 U	10 U
2,4-Dinitrotoluene	10 U	10 U
Diethylphthalate	1.3 J	10 U
4-Chlorophenyl-phenylether	10 U	10 U
Fluorene	10 U	10 U
4-Nitroaniline	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	25 U
N-Nitrosodiphenylamine	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U
Hexachlorobenzene	10 U	10 U
Pentachlorophenol	25 U	25 U
Phenanthrene	10 U	10 U
Anthracene	10 U	10 U
Carbazole	10 U	10 U
Di-n-butylphthalate	10 U	10 U
Fluoranthene	10 U	10 U
Pyrene	10 U	10 U
Butylbenzylphthalate	10 U	10 U
3,3'-Dichlorobenzidine	10 U	10 U
Benzo(a)anthracene	10 U	10 U
Chrysene	10 U	10 U
bis(2-Ethylhexyl)phthalate	10 U	10 U
Di-n-octylphthalate	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U
Benzo(a)pyrene	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U

All results expressed in ug/L.

U indicates not detected at the listed concentration. J indicates estimated concentration

Table 6
Remedial Investigation
Analytical Data Summary - Ground Water Samples

C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: September 9, 1999

<i>PESTICIDES/PCBs</i>			
Compound	Sample ID	MW-6	MW-7
alpha-BHC		0.050 U	0.050 U
beta-BHC		0.050 U	0.050 U
delta-BHC		0.050 U	0.050 U
gamma-BHC (Lindane)		0.050 U	0.050 U
Heptachlor		0.050 U	0.050 U
Aldrin		0.050 U	0.050 U
Heptachlor epoxide		0.050 U	0.050 U
Endosulfan I		0.050 U	0.050 U
Dieldrin		0.10 U	0.10 U
4,4'-DDE		0.10 U	0.10 U
Endrin		0.10 U	0.10 U
Endosulfan II		0.10 U	0.10 U
4,4'-DDD		0.10 U	0.10 U
Endosulfan sulfate		0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 U
Methoxychlor		0.50 U	0.50 U
Endrin ketone		0.10 U	0.10 U
Endrin aldehyde		0.10 U	0.10 U
alpha-Chlordane		0.050 U	0.050 U
gamma-Chlordane		0.050 U	0.050 U
Toxaphene		5.0 U	5.0 U
Aroclor-1016		1.0 U	1.0 U
Aroclor-1221		2.0 U	2.0 U
Aroclor-1232		1.0 U	1.0 U
Aroclor-1242		1.0 U	1.0 U
Aroclor-1248		1.0 U	1.0 U
Aroclor-1254		1.0 U	1.0 U
Aroclor-1260		1.0 U	1.0 U

All results expressed in ug/L.
U indicates not detected at the listed concentration. J indicates estimated concentration

Table 7
Remedial Investigation
Ground Water Analytical Data Summary
C & D Technologies, Inc. Facility
Huguenot, New York
Sample Dates: January 13, 2000 and March 27, 2000

	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	NYSDEC Ground Water Standard
January 2000									
PCBs (ug/L)									
Aroclor-1016	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	0.09*
Aroclor-1221	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	0.09*
Aroclor-1232	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	0.09*
Aroclor-1242	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	0.09*
Aroclor-1248	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	0.09*
Aroclor-1254	<1.0	<1.1	<1.0	<1.0	<1.0	NA	<1.0	<1.4	0.09*
Aroclor-1260	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	0.09*
Metals (ug/L)									
Cadmium	0.99	1.6	<0.33	<0.33	0.88	NA	<0.33	<0.33	5
March 2000									
Aroclor-1016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09*
Aroclor-1221	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09*
Aroclor-1232	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09*
Aroclor-1242	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09*
Aroclor-1248	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09*
Aroclor-1254	0.24	0.067/0.084/0.09**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09*
Aroclor-1260	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09*
NA indicates not analyzed									
* Standard applies to the sum of each of the Aroclors									
** Severn Trent / Severn Trent duplicate / SCI LAB Split									

Table 8
Remedial Investigation
Analytical Data Summary
Swartwout (SWT) Potable Well
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: February 2000/ March 2000

Parameter	1st Flush SWT. Well	10 min. SWT. Well	*NYSDEC Ground Water Standard	*NYSDOH Drinking Water Standard
Metals/Cyanide (mg/L)				
Aluminum	0.062	0.075	NS	
Antimony	<0.06	<0.06		
Arsenic	<0.01	0.024	0.025	0.05
Barium	0.12	0.12	1	2
Beryllium	<0.004	<0.004		
Cadmium	<0.005	<0.005		
Calcium	22.8	24.2	NS	NS
Chromium	<0.01	<0.01		
Cobalt	<0.05	<0.05		
Copper	<0.020	<0.020		
Iron	0.12	0.13	0.3	0.3
Lead	<0.005	<0.005		
Magnesium	3.6	3.3	35 (GV)	NS
Manganese	0.034	0.038	0.3	
Mercury	<0.0002	<0.0002		
Nickel	<0.03	<0.03		
Potassium	0.5	0.5	NS	NS
Selenium	<0.005	<0.005		
Silver	<0.01	<0.01		
Sodium	20.9	21.1	20	NS
Thallium	<0.02	<0.02		
Vanadium	<0.05	<0.05		
Zinc	<0.02	<0.02		
Cyanide	<0.01	<0.01		
Volatile Organics (ug/L)				
Chloromethane	<10	<10		
Bromomethane	<10	<10		
Vinyl Chloride	<10	<10		
Chloroethane	<10	<10		
Trichlorofluoromethane	<10	<10		
Iodomethane	<5	<5		

Table 8
Remedial Investigation
Analytical Data Summary
Swartwout (SWT) Potable Well
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: February 2000/ March 2000

Parameter	1st Flush	10 min.	*NYSDEC	*NYSDOH
	SWT. Well	SWT. Well	Ground Water Standard	Drinking Water Standard
Methylene Chloride	5 J	5 J	5	5
Acrylonitrile	<10	<10		
Acetone	<10	<10		
Carbon Disulfide	<5	<5		
1,1-Dichloroethene	<5	<5		
Vinyl Acetate	<10	<10		
1,1-Dichloroethane	<5	<5		
trans-1,2-Dichloroethene	<5	<5		
cis-1,2-Dichloroethylene	<5	<5		
Chloroform	<5	<5		
Bromochloromethane	<5	<5		
1,2-Dichloroethane	<5	<5		
2-Butanone	<10	<10		
1,1,1-Trichloroethane	<5	<5		
Carbon Tetrachloride	<5	<5		
Bromodichloromethane	<5	<5		
1,2-Dichloropropane	<5	<5		
cis-1,3-Dichloropropene	<5	<5		
Trichloroethene	<5	<5		
Dibromochloromethane	<5	<5		
1,1,2-Trichloroethane	<5	<5		
Dibromomethane	<5	<5		
Benzene	<5	<5		
trans-1,3-Dichloropropene	<5	<5		
Bromoform	<5	<5		
4-Methyl-2-Pentanone	<10	<10		
2-Hexanone	<10	<10		
Tetrachloroethene	<5	<5		
1,1,1,2-Tetrachloroethane	<5	<5		
1,2-Dibromoethane	<5	<5		
Toluene	<5	3 J	5	5
Chlorobenzene	<5	<5		
1,3,5-Trimethylbenzene	<5	<5		

Table 8
Remedial Investigation
Analytical Data Summary
Swartwout (SWT) Potable Well
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: February 2000/ March 2000

Parameter	1st Flush SWT. Well	10 min. SWT. Well	*NYSDEC Ground Water Standard	*NYSDOH Drinking Water Standard
Ethylbenzene	<5	<5		
Styrene	<5	<5		
Total Xylenes	<15	<15		
1,1,2,2-Tetrachloroethane	<5	<5		
1,3-Dichlorobenzene	<5	<5		
1,4-Dichlorobenzene	<5	<5		
1,2-Dichlorobenzene	<5	<5		
1,2-Dibromo-3-Chloropropane	<10	<10		
**Pesticide/PCBs (ug/L)				
PCB-1016	<1.0/<0.05	<1.0/<0.05		
PCB-1221	<1.0/<0.05	<1.0/<0.05		
PCB-1232	<1.0/<0.05	<1.0/<0.05		
PCB-1242	<1.0/<0.05	<1.0/<0.05		
PCB-1248	<1.0/<0.05	<1.0/<0.05		
PCB-1254	<1.5/<0.05	<1.4/<0.05		
PCB-1260	<1.0/<0.05	<1.0/<0.05		
Aldrin	<0.05	<0.05		
alpha-BHC	<0.05	<0.05		
beta-BHC	<0.05	<0.05		
gamma-BHC (Lindane)	<0.05	<0.05		
delta-BHC	<0.05	<0.05		
Chlordane	<0.5	<0.5		
4,4'-DDT	<0.05	<0.05		
4,4'-DDE	<0.05	<0.05		
4,4'-DDD	<0.05	<0.05		
Dieldrin	0.1R	0.1R		
Endosulfan I	<0.05	<0.05		
Endosulfan II	<0.05	<0.05		
Endosulfan sulfate	<0.05	<0.05		
Endrin	<0.05	<0.05		
Endrin aldehyde	<0.05	<0.05		
Heptachlor	<0.05	<0.05		

Table 8
Remedial Investigation
Analytical Data Summary
Swartwout (SWT) Potable Well
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: February 2000/ March 2000

Parameter	1st Flush SWT. Well	10 min. SWT. Well	*NYSDEC Ground Water Standard	*NYSDOH Drinking Water Standard
Heptachlor epoxide	<0.05	<0.05		
Toxaphene	<5.0	<5.0		
Methoxychlor	<0.05	<0.05		
Semi-Volatile Organics (ug/L)				
bis(2-Chloroethyl)ether	<10	<10		
Benzyl Alcohol	<10	<10		
bis(2-Chloroisopropyl)ether	<10	<10		
N-Nitroso-di-n-propylamine	<10	<10		
Hexachloroethane	<10	<10		
Nitrobenzene	<10	<10		
Isophorone	<10	<10		
Bis(2-Chloroethoxy)-methane	<10	<10		
Benzoic Acid	<10	<10		
1,2,4-Trichlorobenzene	<10	<10		
Naphthalene	<10	<10		
4-Chloroaniline	<10	<10		
Hexachlorobutadiene	<10	<10		
2-MethylNaphthalene	<10	<10		
Hexachlorocyclopentadiene	<10	<10		
2-Chloronaphthalene	<10	<10		
2-Nitroaniline	<25	<25		
Dimethyl Phthalate	<10	<10		
2,6-Dinitrotoluene	<10	<10		
Acenaphthylene	<10	<10		
3-Nitroaniline	<25	<25		
Acenaphthene	<10	<10		
2,4-Dinitrotoluene	<10	<10		
Dibenzofuran	<10	<10		
Diethylphthalate	<10	<10		
4-Chlorophenyl-phenylether	<10	<10		
Fluorene	<10	<10		
4-Nitroaniline	<25	<25		

Table 8
Remedial Investigation
Analytical Data Summary
Swartwout (SWT) Potable Well
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: February 2000/ March 2000

Parameter	1st Flush SWT. Well	10 min. SWT. Well	*NYSDEC Ground Water Standard	*NYSDOH Drinking Water Standard
Phenol	<10	<10		
N-Nitrosodiphenylamine	<10	<10		
4-Bromophenyl-phenylether	<10	<10		
Hexachlorobenzene	<10	<10		
Phenanthrene	<10	<10		
Anthracene	<10	<10		
Di-n-butylphthalate	<10	<10		
Fluoranthene	<10	<10		
Pyrene	<10	<10		
Benzidine	<10	<10		
Butylbenzylphthalate	<10	<10		
3,3'-Dichlorobenzidine	<10	<10		
Benzo(a)anthracene	<10	<10		
Chrysene	<10	<10		
bis(2-Ethylhexyl)phthalate	<10	<10		
Di-n-octylphthalate	<10	<10		
Benzo(b)fluoranthene	<10	<10		
Benzo(k)fluoranthene	<10	<10		
Benzo(a)pyrene	<10	<10		
Indeno(1,2,3-cd)pyrene	<10	<10		
Dibenz(a,h)anthracene	<10	<10		
Benzo(g,h,i)perylene	<10	<10		
2-Chlorophenol	<10	<10		
2-Nitrophenol	<10	<10		
2,4-Dimethylphenol	<10	<10		
2,4-Dichlorophenol	<10	<10		
4-Chloro-3-methylphenol	<10	<10		
2,4,6-trichlorophenol	<10	<10		
2,4-Dinitrophenol	<25	<25		
4-Nitrophenol	<25	<25		
2-Methyl-4,6-dinitrophenol	<25	<25		
2,4,5-Trichlorophenol	<25	<25		
Pentachlorophenol	<25	<25		

Table 8
Remedial Investigation
Analytical Data Summary
Swartwout (SWT) Potable Well
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Date: February 2000/ March 2000

Parameter	1st Flush SWT. Well	10 min. SWT. Well	*NYSDEC Ground Water Standard	*NYSDOH Drinking Water Standard
2-Methylphenol (o-Cresol)	<10	<10		
4-Methylphenol (p-Cresol)	<10	<10		
Fluoride (mg/L)	NA	3.85	1.5	2.2
NA indicates not analyzed R indicates rejected value based on data validation * Standard provide only for compounds which were detected at or above the reporting limit ** First Result for PCBs is February 2000 Second Result is March 2000 Resampling Data				

Table 9
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 25 and 26, 1999

	TP-1 (0)	TP-1 (2)	TP-1 (4)	TP-1 (6)		TP-1 (12)
Barium	1760	766	1930	315		1750
Cadmium						600
Lead	291	80.6	1470	24.9		1380
Fluoride	37.4	17.6	25.3	14.2		28.2
% Solids	91.3	95.2	94.8	96.3		87.9
TCLP Lead						2.08
TCLP Cadmium						2.58
	TP-2 (0)	TP-2 (2)	TP-2 (4)	TP-2 (6)		
Barium	1640	611	2000	1090		
Lead	2710	686	596	1960		
Fluoride	< 11.69	< 10.56	15.2	14.1		
% Solids	85.5	94.6	92.6	91.2		
	TP-3 (0)	TP-3 (2)	TP-3 (4)	TP-3 (6)	TP-3 (10)	
Barium	1160	128	121	257	513	
Lead	1820	8.4	72.5	13.0	550	
Fluoride	< 11.26	< 10.28	27.0	13.7	34.5	
% Solids	88.8	97.2	93.0	94.9	92.2	
	TP-4 (0)	TP-4 (2)	TP-4 (4)	TP-4 (6)	TP-4 (10)	X-2
Barium	4670	1060	1100	701	2280	3180
Cadmium					1230	
Lead	1950	9350	7190	13000	6830	6670
Fluoride	< 15.45	< 11.98	22.1	24.2	31.5	21.8
% Solids	61.7	83.4	87.3	79.4	77.5	79.3
TCLP Lead					5.46	
TCLP Cadmium					3.76	
	TP-5 (0)	TP-5 (2)	TP-5 (4)	TP-5 (6)		TP-5 (12)
Barium	4490	1640	1180	944		231
Lead	1360	123	207	326		38.2
Fluoride	25.7	24.1	35.2	34.9		42.8
% Solids	88.2	94.6	93.0	93.4		94.2
	TP-6 (0)	TP-6 (2)	TP-6 (4)	TP-6 (6)	X-3	TP-6 (12)
Barium	2660	2150	888	365	354	465
Lead	1320	1740	35.4	19.7	20.9	39.6
Fluoride	24.1	34.2	13.5	< 10.41	< 10.47	20.7
% Solids	88.8	89.5	97.0	96.0	95.5	93.9

Table 9
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 25 and 26, 1999

	TP-7 (0)	TP-7 (2)	TP-7 (4)	TP-7 (6)	TP-7 (12)	
Barium	4980	2600	2610	2590	1700	
Cadmium					354	
Lead	856	560	294	226	170	
Fluoride	164	100	126	133	65.4	
% Solids	85.8	91.4	89.1	91.4	91.3	
TCLP Lead					0.0358	
TCLP Cadmium					0.608	
	TP-8 (0)	TP-8 (2)	TP-8 (4)	TP-8 (6)	TP-8 (12)	
Barium	4660	3700			3150	
Cadmium					1350	
Lead	3970	667			1050	
Fluoride	327	74.1	105	84.1	88.5	
% Solids	50.7	88.5	86.3	92.7	92.9	
TCLP Lead					0.12	
TCLP Cadmium					4.07	
	TP-9 (0)	TP-9 (2)	TP-9 (4)	TP-9 (6)	TP-9 (10)	
Barium	4630	5930	4450	3000	1850	
Cadmium	37700				207	
Lead	6640	2920	1940	1020	313	
Fluoride	278	153	83.0	52.2	29.1	
% Solids	46.1	77.5	79.3	85.2	83.0	
TCLP Lead	0.405				0.0275	
TCLP Cadmium	40				0.656	
	TP-10 (0)	X-4	TP-10 (2)	TP-10 (4)	TP-10 (6)	TP-10 (10)
Barium	1100	4680	5430	7710	6640	3750
Cadmium					1060	805
Lead	1460	4270	3220	1470	2040	537
Fluoride	< 12.90	< 15.46	25.9	33.7	26.3	88.0
% Solids	77.5	64.7	72.3	83.0	87.1	83.9
TCLP Lead					0.293	0.0257
TCLP Cadmium				1.28		0.307
	SS-RR-01 (6-12")	SS-RR-02 (6-12")				
Barium	27.6	26.5				
Lead	311	57.0				
Fluoride	< 10.19	< 10.42				
% Solids	98.1	95.9				

Table 9
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 25 and 26, 1999

Notes:

- 1) Soil results expressed in milligrams per kilogram (mg/Kg) and TCLP results in mg/L.
- 2) The NYSDEC Recommended Soil Cleanup Objective (RSCO) for barium is 300 mg/Kg or site background.
- 3) The NYSDEC Recommended Soil Cleanup Objective (RSCO) for lead is site background.
- 4) The NYSDEC Recommended Soil Cleanup Objective (RSCO) for cadmium is 10 mg/Kg or site background
- 5) The Toxicity Characteristic Leaching Procedure Regulatory Limit for cadmium is 1 mg/L
- 6) The Toxicity Characteristic Leaching Procedure Regulatory Limit for lead is 5 mg/L
- 4) Sample X-2 is a blind field duplicate of sample TP-4 (10).
- 5) Sample X-3 is a blind field duplicate of sample TP-6 (6).
- 6) Sample X-4 is a blind field duplicate of sample TP-10 (0).
- 7) Values in bold exceed the NYSDEC RSCO and/or the site background or the TCLP Regulatory Value

Table 10
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 10, 25 and 26, 1999

<i>INORGANICS</i>						
Sample ID	TP-4 (10)	TP-9 (0)	SS-UP-01 (6-12")	SS-UP-02 (6-12")	NYS RSCO	Eastern USA Background Concentration
Analyze	<i>BACKGROUND SOIL SAMPLES</i>					
Aluminum	6800	9970	5050	4570	SB	33,000
Antimony	8.0 B	11.6 B	1.5 B	0.89 B	SB	
Arsenic	6.8	7.2	2.8	3.1	7.5 or SB	3--12
Barium	2280	4630	15.1 B	15.3 B	300 or SB	15--600
Beryllium	0.28 B	0.74 B	0.34 B	0.32 B	0.16 or SB	0--1.75
Cadmium	1260	37700	0.1 U	0.1 U	10	0.1--1
Calcium	2510	20600	273 B	269 B	SB	130-35,000
Chromium	230	180	7.4	6.5	50	1.5--50
Cobalt	7.0 B	2.9 B	5.5	3.8 B	30 or SB	2.5--60
Copper	184	304	11.5	10.7	25 or SB	1--50
Iron	15700	15400	12600	10300	2,000 or SB	2,000--550,000
Lead	6830	6640	9.5	12.3	SB	200--300
Magnesium	2730	7690	1870	1580	SB	100-5,000
Manganese	239	237	255	217	SB	50--5,000
Mercury	0.18	1.6	0.1 U	0.1 U	0.1	0.001--0.2
Nickel	16.8	22.2	11.3	9.3	13 or SB	0.5--25
Potassium	531 BE	869 BE	229 B	175 B	SB	8,500--43,000
Selenium	1.3 U	2.2 U	0.49 U	0.51 U	2 or SB	0.1--3.9
Silver	1.3 B	14.4	0.1 U	0.1 U	SB	
Sodium	187 BE	418 BE	86.6 B	98.5 B	SB	6,000--8,000
Thallium	1.8 U	3.0 U	0.68 U	0.7 U	SB	
Vanadium	17.5	10.8 B	6.7	6.5	150 or SB	1--300
Zinc	3250	106000	34.9	29.5	20 or SB	9--50

All results expressed in mg/Kg.

NYS RSCO - The values listed represent the New York State Recommended Soil Cleanup Objectives.

SB indicates "Site Background."

Bolded concentration is above the RSCO or Site Background

U indicates not detected at or above listed value. B indicates estimated value below Contract Required Detection Limit but above the instrument detection limit.

Table 10
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 10, 25 and 26, 1999

<i>VOLATILE ORGANIC COMPOUNDS</i>					
Sample ID	TP-4 (10)	TP-9 (0)	SS-UP-01 (6-12")	SS-UP-02 (6-12")	NYSDEC RSCO
Compound	<i>BACKGROUND SOIL SAMPLES</i>				
Chloromethane	13 U	22 U	3.4 U	3.4 U	100
Bromomethane	13 U	22 U	3.9 U	3.9 U	
Vinyl Chloride	13 U	22 U	1.9 U	1.9 U	
Chloroethane	13 U	22 U	5.1 U	5.1 U	
Methylene Chloride	13 U	7.4 J	1 U	1 U	
Acetone	13 U	22 U	5.1 U	5.1 U	
Carbon Disulfide	13 U	22 U	5.1 U	5.1 U	
1,1-Dichloroethene	13 U	22 U	2 U	2 U	
1,1-Dichloroethane	13 U	22 U	1.3 U	1.3 U	
trans-1,2-Dichloroethene	13 U	22 U	4.3 U	4.3 U	
cis-1,2-Dichloroethene	13 U	22 U	1.8 U	1.8 U	
Chloroform	13 U	22 U	1.2 U	1.2 U	
1,2-Dichloroethane	13 U	22 U	4.1 U	4.1 U	
2-Butanone	13 U	22 U	5.1 U	5.1 U	
1,1,1-Trichloroethane	13 U	22 U	0.9 U	0.9 U	
Carbon Tetrachloride	13 U	22 U	4.1 U	4.1 U	
Bromodichloromethane	13 U	22 U	1 U	1 U	
1,2-Dichloropropane	13 U	22 U	2.4 U	2.4 U	
cis-1,3-Dichloropropene	13 U	22 U	1 U	1 U	
Trichloroethene	13 U	22 U	2.6 U	2.6 U	
Dibromochloromethane	13 U	22 U	0.7 U	0.7 U	
1,1,2-Trichloroethane	13 U	22 U	1.3 U	1.3 U	
Benzene	13 U	22 U	1 U	1 U	
trans-1,3-Dichloropropene	13 U	22 U	1 U	1 U	
Bromoform	13 U	22 U	0.5 U	0.5 U	
4-Methyl-2-Pentanone	13 U	22 U	5.1 U	5.1 U	
2-Hexanone	13 U	22 U	5.1 U	5.1 U	
Tetrachloroethene	13 U	22 U	1.1 U	1.1 U	
1,1,2,2-Tetrachloroethane	13 U	22 U	1.6 U	1.6 U	
Toluene	13 U	22 U	1.3 U	1.3 U	
Chlorobenzene	13 U	22 U	1.1 U	1.1 U	
Ethylbenzene	13 U	22 U	1.1 U	1.1 U	
Styrene	13 U	22 U	0.2 U	0.2 U	
m- & p-Xylene	13 U	22 U	2.3 U	2.3 U	
o-Xylene	13 U	22 U	1.2 U	1.2 U	

Table 10
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 10, 25 and 26, 1999

<i>SEMIVOLATILE ORGANIC COMPOUNDS</i>						
Compound	Sample ID	TP-4 (10)	TP-9 (0)	SS-UP-01 (6-12")	SS-UP-02 (6-12")	NYSDEC RSCO
				<i>BACKGROUND SOIL SAMPLES</i>		
Phenol		430 U	720 U	13 U	13 U	
bis(2-Chloroethyl)Ether		430 U	720 U	14 U	14 U	
2-Chlorophenol		430 U	720 U	44 U	44 U	
1,3-Dichlorobenzene		430 U	720 U	5.1 U	5.1 U	
1,4-Dichlorobenzene		430 U	720 U	11 U	11 U	
1,2-Dichlorobenzene		430 U	720 U	20 U	20 U	
2-Methylphenol		430 U	720 U	65 U	65 U	
2,2'-oxybis(1-Chloropropane)		430 U	720 U	10 U	10 U	
4-Methylphenol		430 U	720 U	68 U	68 U	
N-Nitroso-di-n-propylamine		430 U	720 U	13 U	13 U	
Hexachloroethane		430 U	720 U	18 U	18 U	
Nitrobenzene		430 U	720 U	6.4 U	6.4 U	
Isophorone		430 U	720 U	9.8 U	9.8 U	
2-Nitrophenol		430 U	720 U	110 U	110 U	
2,4-Dimethylphenol		430 U	720 U	30 U	30 U	
2,4-Dichlorophenol		430 U	720 U	85 U	85 U	
1,2,4-Trichlorobenzene		430 U	720 U	8.8 U	8.8 U	
Naphthalene		430 U	720 U	6.1 U	6.1 U	
4-Chloroaniline		430 U	720 U	68 U	68 U	
Hexachlorobutadiene		430 U	720 U	10 U	10 U	
bis(2-Chloroethoxy)methane		430 U	720 U	19 U	19 U	
4-Chloro-3-Methylphenol		430 U	720 U	68 U	68 U	
2-Methylnaphthalene		430 U	720 U	58 U	58 U	
Hexachlorocyclopentadiene		430 U	720 U	9.4 U	9.4 U	
2,4,6-Trichlorophenol		430 U	720 U	43 U	43 U	
2,4,5-Trichlorophenol		1000 U	1700 U	89 U	89 U	
2-Chloronaphthalene		430 U	720 U	5.7 U	5.7 U	
2-Nitroaniline		1000 U	1700 U	120 U	120 U	
Dimethylphthalate		430 U	720 U	10 U	10 U	
Acenaphthylene		430 U	720 U	7.4 U	7.4 U	
2,6-Dinitrotoluene		430 U	720 U	16 U	16 U	
3-Nitroaniline		1000 U	1700 U	130 U	130 U	
Acenaphthene		430 U	720 U	6.1 U	6.1 U	
2,4-Dinitrophenol		1000 U	1700 U	160 U	160 U	
4-Nitrophenol		1000 U	1700 U	33 U	33 U	

Table 10
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 10, 25 and 26, 1999

<i>SEMIVOLATILE ORGANIC COMPOUNDS (continued)</i>						
Compound	Sample ID	TP-4 (10)	TP-9 (0)	SS-UP-01 (6-12")	SS-UP-02 (6-12")	NYSDEC RSCO
				<i>BACKGROUND SOIL SAMPLES</i>		
Dibenzofuran		430 U	720 U	53 U	53 U	
2,4-Dinitrotoluene		430 U	720 U	9.1 U	9.1 U	
Diethylphthalate		430 U	720 U	8.4 U	8.4 U	
4-Chlorophenyl-phenylether		430 U	720 U	9.1 U	9.1 U	
Fluorene		430 U	720 U	6.4 U	6.4 U	
4-Nitroaniline		1000 U	1700 U	180 U	180 U	
4,6-Dinitro-2-methylphenol		1000 U	1700 U	210 U	210 U	
N-Nitrosodiphenylamine		430 U	720 U	12 U	12 U	
4-Bromophenyl-phenylether		430 U	720 U	23 U	23 U	
Hexachlorobenzene		430 U	720 U	15 U	15 U	
Pentachlorophenol		1000 U	1700 U	110 U	110 U	
Phenanthrene		300 J	720 U	13 U	13 U	50000
Anthracene		83 J	720 U	83 U	83 U	50000
Carbazole		430 U	720 U	50 U	50 U	
Di-n-butylphthalate		430 U	450 J	27 U	27 U	8100
Fluoranthene		330 J	720 U	11 U	11 U	50000
Pyrene		270 J	720 U	9.8 U	9.8 U	50000
Butylbenzylphthalate		430 U	720 U	12 U	12 U	
3,3'-Dichlorobenzidine		430 U	720 U	140 U	140 U	
Benzo(a)anthracene		120 J	720 U	11 U	11 U	224 or MDL
Chrysene		150 J	720 U	18 U	18 U	400
bis(2-Ethylhexyl)phthalate		430 U	790	63 U	63 U	50000
Di-n-octylphthalate		430 U	720 U	17 U	17 U	
Benzo(b)fluoranthene		110 J	720 U	100 U	100 U	1100
Benzo(k)fluoranthene		110 J	720 U	98 U	98 U	1100
Benzo(a)pyrene		100 J	720 U	14 U	14 U	61 or MDL
Indeno(1,2,3-cd)pyrene		49 J	720 U	26 U	26 U	3200
Dibenz(a,h)anthracene		430 U	720 U	50 U	50 U	
Benzo(g,h,i)perylene		49 J	720 U	8.4 U	8.4 U	50000

Table 10
Remedial Investigation
Analytical Data Summary - Soil Samples (Test Pit Data)
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: August 10, 25 and 26, 1999

<i>PESTICIDES/PCBs</i>					
Sample ID	TP-4 (10)	TP-9 (0)	SS-UP-01 (6-12")	SS-UP-02 (6-12")	NYSDEC RSCO
Compound	<i>BACKGROUND SOIL SAMPLES</i>				
alpha-BHC	2.2 U	3.6 U	1.0 U	1.0 U	
beta-BHC	2.2 U	3.6 U	1.0 U	1.0 U	
delta-BHC	2.2 U	3.6 U	1.0 U	1.0 U	
gamma-BHC (Lindane)	2.2 U	3.6 U	1.0 U	1.0 U	
Heptachlor	2.2 U	3.6 U	1.0 U	1.0 U	
Aldrin	2.2 U	3.6 U	1.0 U	1.0 U	
Heptachlor epoxide	2.2 U	3.6 U	1.0 U	1.0 U	
Endosulfan I	2.2 U	3.6 U	1.0 U	1.0 U	
Dieldrin	4.3 U	7.2 U	2.4 U	2.4 U	
4,4'-DDE	4.3 U	7.2 U	2.4 U	2.4 U	
Endrin	4.3 U	7.2 U	2.4 U	2.4 U	
Endosulfan II	4.3 U	7.2 U	2.4 U	2.4 U	
4,4'-DDD	4.3 U	7.2 U	2.4 U	2.4 U	
Endosulfan sulfate	4.3 U	7.2 U	2.4 U	2.4 U	
4,4'-DDT	4.3 U	7.2 U	2.4 U	2.4 U	
Methoxychlor	22 U	36 U	10 U	10 U	
Endrin ketone	4.3 U	7.2 U	2.4 U	2.4 U	
Endrin aldehyde	4.3 U	7.2 U	2.4 U	2.4 U	
alpha-Chlordane	2.2 U	3.6 U	1.0 U	1.0 U	
gamma-Chlordane	2.2 U	3.6 U	1.0 U	1.0 U	
Toxaphene	220 U	360 U	67 U	68 U	
Aroclor-1016	43 U	72 U	17 U	17 U	
Aroclor-1221	86 U	140 U	22 U	22 U	
Aroclor-1232	43 U	72 U	17 U	17 U	
Aroclor-1242	43 U	72 U	17 U	17 U	
Aroclor-1248	43 U	72 U	17 U	17 U	
Aroclor-1254	6500 D	40000 D	17 U	17 U	
Aroclor-1260	43 U	72 U	17 U	17 U	

All results expressed in ug/Kg.

U indicates not detected at or above listed concentration, J indicates estimated value, D indicates value from diluted analysis.

RSCO listed only for detected compounds

PCB RSCO surface (0'-2') 1.0 ug/Kg: sub-surface PCBs 10 ug/Kg

Table 11
Remedial Investigation
Analytical Data Summary
Test Pit and Boring Data
C & D Technologies, Inc. Facility
Huguenot, New York

TOTAL AND TCLP CADMIUM AND LEAD DATA

SAMPLE	DEPTH	CADMIUM TOTAL	CADMIUM TCLP
		mg/Kg	mg/L
TP-9 (0)	0	37700	40
TP-10 (6)	6	1060	1.28
SB-5	9.5	29.1	
TP-10 (10)	10	805	0.307
TP-4 (10)	10	1230	3.76
TP-9 (10)	10	207	0.656
SB-4	11.5	1340	
SB-2	12	16.1	
TP-1 (12)	12	600	2.58
TP-7 (12)	12	354	0.608
TP-8 (12)	12	1350	4.07
SB-1	13.5	21.5	
SB-3	14	659	
SB-6	15.5	1.2	

SAMPLE	DEPTH	LEAD TOTAL	LEAD TCLP
		mg/Kg	mg/L
TP-9 (0)	0	6640	0.405
TP-10 (6)	6	2040	0.293
SB-5	9.5	377	
TP-10 (10)	10	537	0.0257
TP-4 (10)	10	6830	5.46
TP-9 (10)	10	313	0.0275
SB-4	11.5	317	
SB-2	12	43.5	
TP-1 (12)	12	1380	2.08
TP-7 (12)	12	170	0.0358
TP-8 (12)	12	1050	0.12
SB-1	13.5	27.2	
SB-3	14	217	
SB-6	15.5	11.4	

Cadmium TCLP Regulatory Limit is 1 mg/L
Lead TCLP Regulatory Limit is 5 mg/L
NYSDEC RSCO For Cadmium is 10 mg/Kg
NYSDEC RSCO For Lead is Site Background (10.9 mg/Kg)

Table 12
Remedial Investigation
Analytical Data Summary
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: January 13, 2000

LAGOON SURFACE SOIL SAMPLES

PCBs (ug/Kg)	SS-1-0100	SS-2-0100	SS-3-0100	SS-4-0100	SS-5-0100	SS-6-0100	SS-7-0100	SS-8-0100	SS-9-0100	SS-10-0100	X-1(Field Dup SS-10-0100)
Aroclor-1016	<2,300	<2,200	<2,700	<1,600	<2,300	<2,100	<1,600	<2,100	<1,900	<1,600	<1,700
Aroclor-1221	<4,600	<4,400	<5,400	<3,200	<4,600	<4,200	<3,200	<4,200	<3,800	<3,200	<3,400
Aroclor-1232	<2,300	<2,200	<2,700	<1,600	<2,300	<2,100	<1,600	<2,100	<1,900	<1,600	<1,700
Aroclor-1242	<2,300	<2,200	<2,700	<1,600	<2,300	<2,100	<1,600	<2,100	<1,900	<1,600	<1,700
Aroclor-1248	<2,300	<2,200	<2,700	<1,600	<2,300	<2,100	<1,600	<2,100	<1,900	<1,600	<1,700
Aroclor-1254	460,000	460,000	550,000	170,000	470,000	380,000	34,000	1,100,000	470,000	110,000	87,000
Aroclor-1260	<2,300	<2,200	<2,700	<1,600	<2,300	<2,100	<1,600	<2,100	<1,900	<1,600	<1,700
Cadmium (mg/Kg)	10,400	13,600	46,200	5,410	4,320	1,140	32.5	477	880	324	386

NYSDEC recommended soil cleanup objective for surface soil PCBs is 1000 ug/Kg.

NYSDEC recommended soil cleanup objective for cadmium is 10 mg/Kg.

Table 13
Remedial Investigation
Analytical Data Summary - Lagoon Sub-Surface Soil Boring Samples
Summary Aroclor 1254 and Cadmium Data
C & D Technologies, Inc. Facility
Huguenot, New York

Sample Dates: March 27 through March 28, 2000

Sample	Aroclor 1254	Cadmium	Lead
SB-1 (2'-2.5')	71		
SB-1 (3.5-4')	580		
SB-1(5.5'-6')	16		
SB-1 (7.5'-8')	5		
SB-1 (9.5'-10')	11		
SB-1 (11.5'-12')	26		
SB-1 (13.5'-14')	6.3	21.5	27.2
SB-2 (2'-2.5')	120		
SB-2 (3.5'-4')	<1		
SB-2 (12'-12.5')	<1.1	16.1	43.5
SB-3 (2'-2.5')	160		
SB-3 (3.5-4')	1.5		
SB-3 (12'-12.5')	1.2		
SB-3 (13.5'-14')	14		
SB-3 (14'-14.5')	15	659	217
SB-4 (2'-2.5')	11		
SB-4 (5.5'-6')	2.3		
SB-4 (7.5'-8')	14		
SB-4 (9.5'-10')	12		
SB-4 (11.5'-12')	31	1340	317
SB-5 (2'-2.5')	11		
SB-5 (3.5'-4')	<1		
SB-5 (9.5'-10')	<1.0	29.1	377
SB-6 (7.5'-8')	<1.1		
SB-6 (15.5'-16')	<1.1	1.2	11.4
NYSDEC recommended soil cleanup objective for cadmium, lead, and subsurface PCBs is 10 mg/Kg, site background and 10 mg/Kg, respectively. All results mg/Kg.			

Table 14

**Remedial Investigation
Summary Lagoon Lead Test Pit and Soil Boring Data By Depth**

**C & D Technologies, Inc. Facility
Huguenot, New York**

	0-1'	1-3'	3-5'	5-7'	7-9'	9-11'	11-13'	13-15'	15-17'
TP-1	291.0	80.6	1,470.0	24.9			1,380.0		
TP-2	2,710.0	686.0	596.0	1,960.0					
TP-3	1,820.0	8.4	72.5	13.0		550.0			
TP-4	1,950.0	9,350.0	7,190.0	13,000.0		6,830.0			
TP-5	1,360.0	123.0	207.0	326.0			38.2		
TP-6	1,320.0	1,740.0	35.4	19.7			39.6		
TP-7	856.0	560.0	294.0	226.0			170.0		
TP-8	3,970.0	667.0					1,050.0		
TP-9	6,640.0	2,920.0	1,940.0	1,020.0			313.0		
TP-10	1,460.0	3,220.0	1,470.0	2,040.0			537.0		
SB-1								27.2	
SB-2							43.5		
SB-3								217.0	
SB-4							317.0		
SB-5						377.0			
SB-6									11.4
Average	2,237.7	1,935.5	1,475.0	2,070.0		2,585.7	432.0	122.1	11.4
All concentrations expressed in mg/Kg NYSDEC RSCO for lead is Site background (10.9 mg/Kg)									

Table 15

Remedial Investigation
 Summary Lagoon Cadmium Surface Soil, Test Pit and Soil Boring Data By Depth

C & D Technologies, Inc. Facility
 Huguenot, New York

	0-1'	1-3'	3-5'	5-7'	7-9'	9-11'	11-13'	13-15'	15-16'
TP-1							600		
TP-2									
TP-3									
TP-4						1,230			
TP-5									
TP-6									
TP-7							354		
TP-8							1,350		
TP-9	37,700					207			
TP-10				1,060		805			
SB-1								21.5	
SB-2							16.1		
SB-3								659	
SB-4							1,340		
SB-5						29.1			
SB-6									1.2
SS-1-0100	10,400								
SS-2-0100	13,600								
SS-3-0100	46,200								
SS-4-0100	5,410								
SS-5-0100	4,320								
SS-6-0100	1,140								
SS-7-0100	32.5								
SS-8-0100	477								
SS-9-0100	880								
SS-10-0100	324								
Average	10,953.0			1,060.0		567.8	732.0	340.3	1.2
Average Concentration Cadmium 1 foot to 17 feet	590.2								
All concentrations expressed in mg/Kg									
NYSDEC RSCO for Cadmium is 10 mg/Kg									

Table 16

**Remedial Investigation
Summary Lagoon Fluoride Test Pit Data By Depth**

**C & D Technologies, Inc. Facility
Huguenot, New York**

	0-1'	1-2'	2-4'	4-6'	6-10'	10 -12'
TP-1	37.4	17.6	25.3	14.2	34.5	28.2
TP-2	5.8	5.28	15.2	14.1	31.5	42.8
TP-3	5.6	5.14	27	13.7	29.1	20.7
TP-4	7.7	6	22.1	24.2	88	65.4
TP-5	25.7	24.1	35.2	34.9		88.5
TP-6	24.1	34.2	13.5	5.2		
TP-7	164	100	126	133		
TP-8	327	74.1	105	84.1		
TP-9	278	153	83	52.2		
TP-10	6.45	25.9	33.7	26.3		
Average	88.175	44.532	48.6	40.19	45.775	49.12
All results expressed in mg/Kg Analysis based on distilled water leach of soil and analysis of leachate for fluoride Half the Detection limit listed for values that were non-detect						

Table 17

Remedial Investigation
 Summary Lagoon PCB Surface Soil, Test Pit and Soil Boring Data By Depth

C & D Technologies, Inc. Facility
 Huguenot, New York

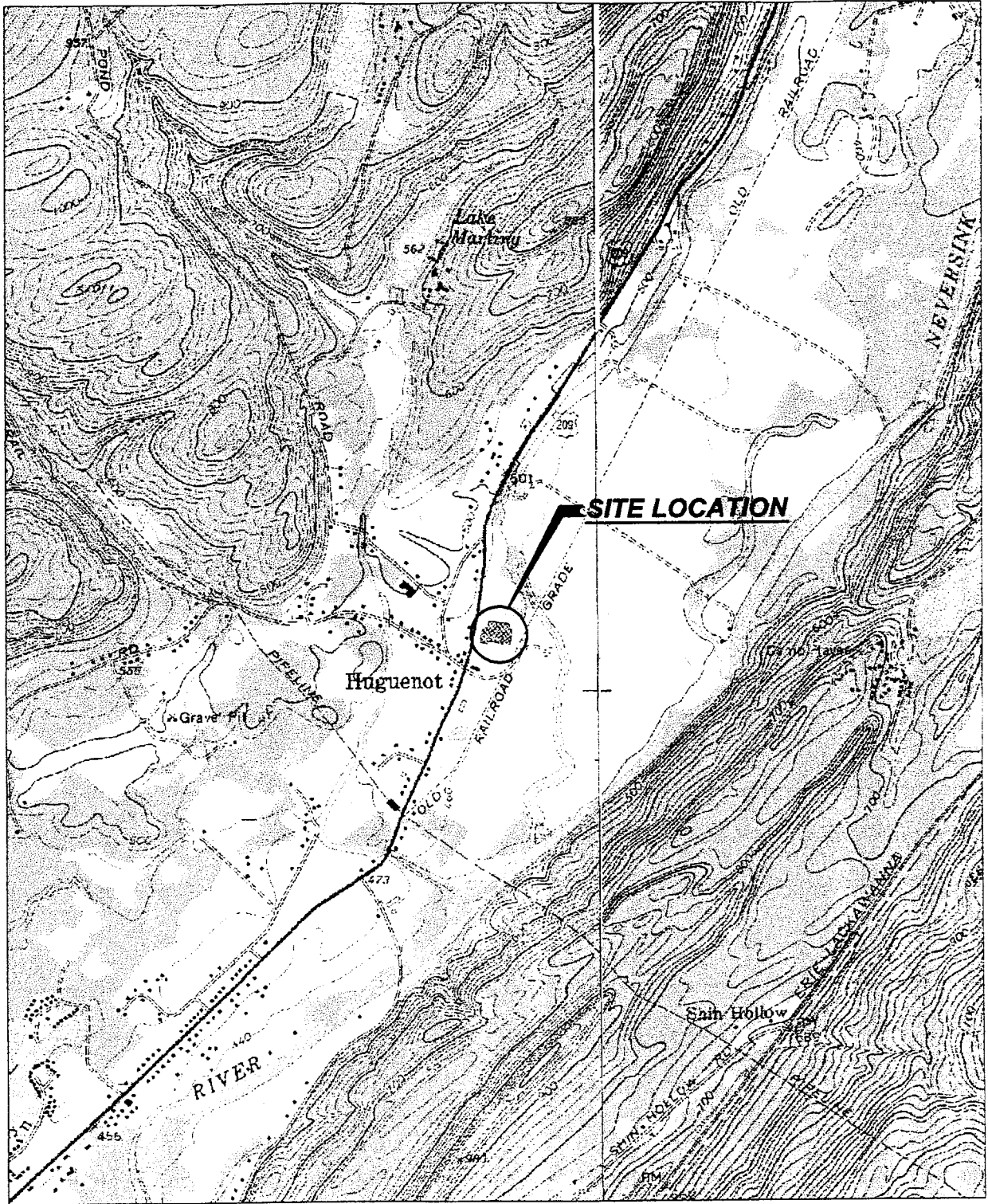
	0-1'	1-3'	3-5'	5-7'	7-9'	9-11'	11-13'	13-15'	15-16'
SB-1		71	580	16	5	11	26	6.3	
SB-2		120	0.5				0.55		
SB-3		160	1.5				1.2	14.5	
SB-4		11		2.3	14	12	31		
SB-5		11	0.5			0.5			
SB-6					0.55				0.55
SS-1-0100	460								
SS-2-0100	460								
SS-3-0100	550								
SS-4-0100	170								
SS-5-0100	470								
SS-6-0100	380								
SS-7-0100	34								
SS-8-0100	1,100								
SS-9-0100	470								
SS-10-0100	110								
Average	420.4	74.6	145.6	9.2	6.5	7.8	14.7	10.4	0.6
All values expressed in mg/Kg NYSDEC RSCO for PCBs Surface (0-2') 1 mg/Kg, Sub-surface 10 mg/Kg Half the detection limit listed as concentration for samples reported as non-detect									

Table 18
Remedial Investigation
Analytical Data Summary - Sediment Samples
C & D Technologies, Inc. Facility
Huguenot, New York

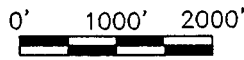
Sample Dates: August 25 and 26, 1999

	SED-1	SED-2	X-1	SED-3	SED-4	NYSDEC Sediment Criteria	
						Low Effect Level	Severe Effect Level
Barium	90.1	37.3	25.0 B	67.7 B	15.6 B	NA	NA
Lead	88.4	24.9	10.6	58.3	195	31	110
Fluoride	< 37.27	< 16.56	< 13.44	53.9	17.74	NA	NA
% Solids	26.8	60.4	74.4	21.7	64.9		
Results expressed in milligrams per kilogram (mg/Kg).							
Sample X-1 is a blind field duplicate of sample SED-2.							
NA-Not Available							

FIGURES



MAP REFERENCE:
 PORT JERVIS NORTH & OTISVILLE
 USGS QUAD MAPPING



FILENAME: LOCATION.DWG

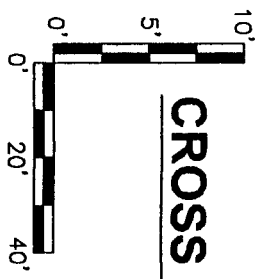
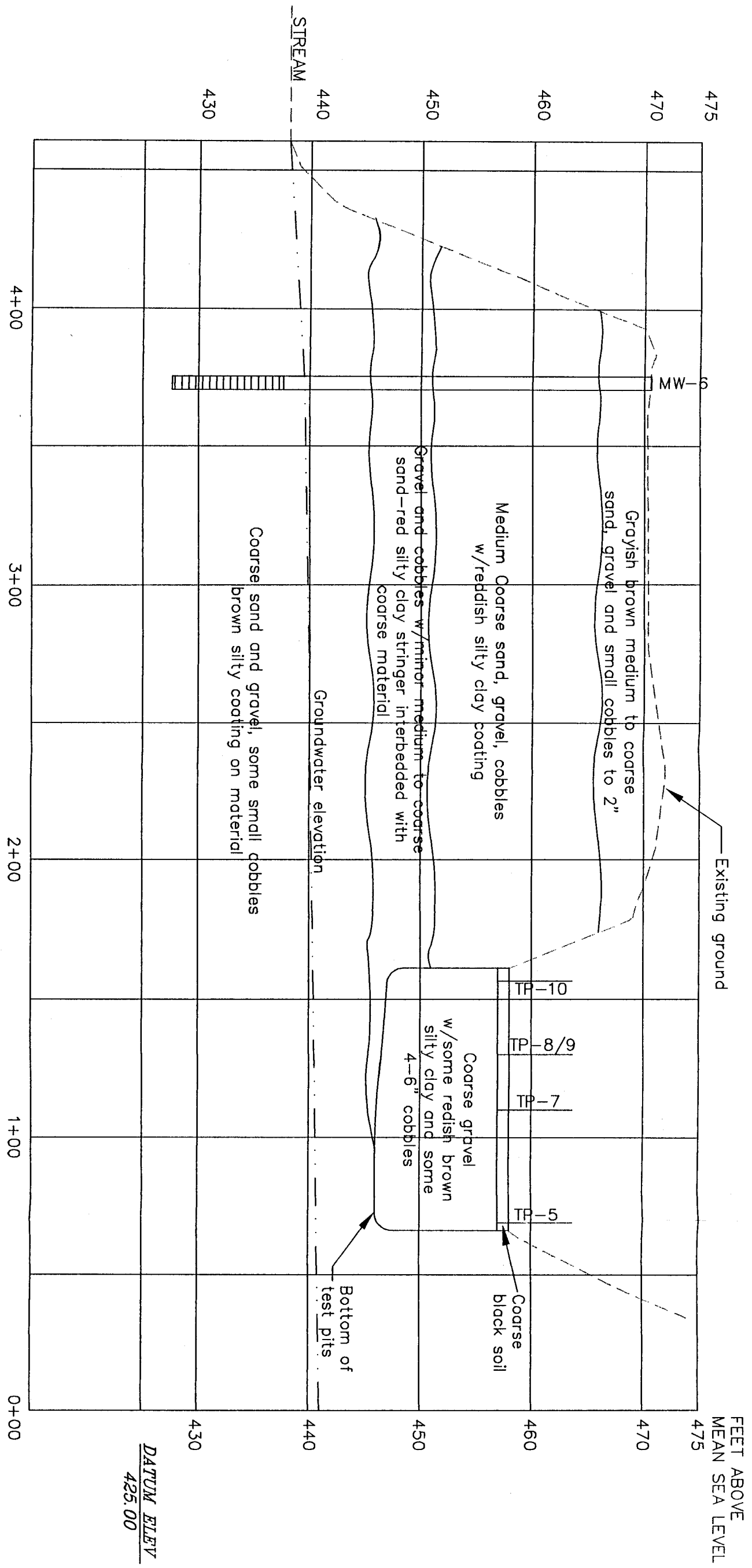
**DELAWARE
 ENGINEERING, P.C.**

28 Madison Avenue Extension Phone 518-452-1290
 Albany, New York 12203 FAX 518-452-1335

SITE LOCATION MAP

C & D TECHNOLOGIES
 NYS ROUTE 209
 HUGUENOT, NEW YORK

MAY 26, 00



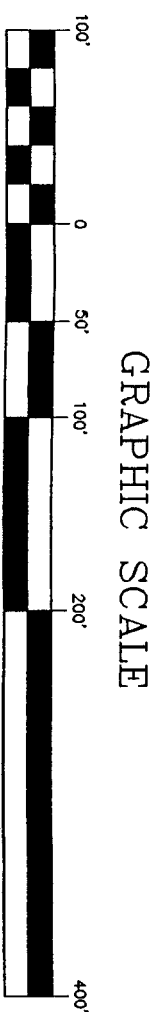
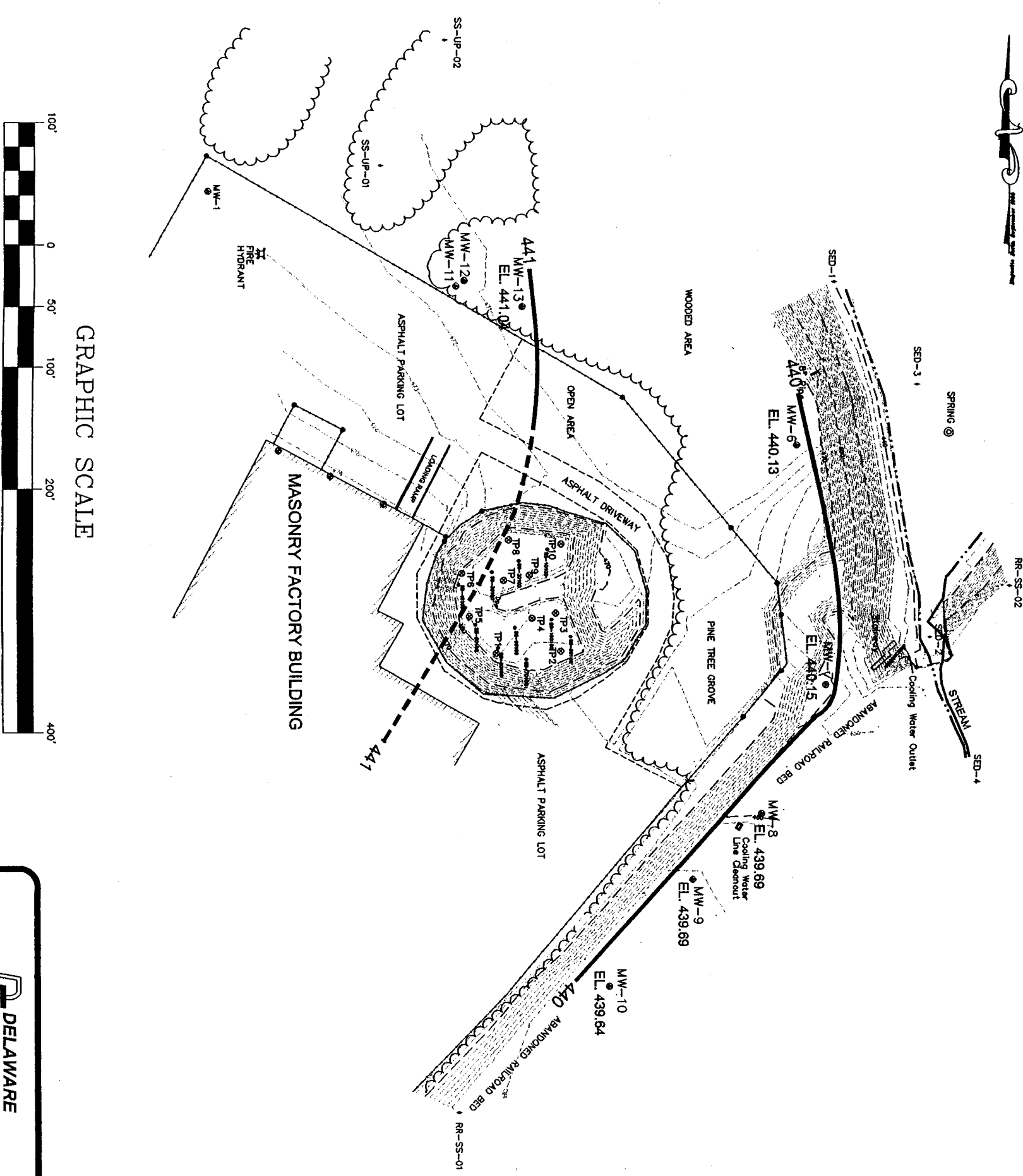
CROSS SECTION

**FIGURE 2
CROSS SECTION**

28 Madison Avenue Extension
Albany, New York 12203
Phone 518-452-1280
FAX 518-452-1335

**DELAWARE
ENGINEERING, P.C.**

C & D TECHNOLOGIES
HUGUENOT FACILITY
NYS ROUTE 209
HUGUENOT, NEW YORK



LEGEND

- ◆ = SOIL SAMPLE
- ⊗ = TEST PIT
- ⊙ = MONITORING WELL
- ⊛ = FIRE HYDRANT
- = FENCE POST
- = CHAIN LINK FENCE
- ⊙ = 1ST FLOOR ELEVATION
- = EDGE OF PAVEMENT
- ~ = TREE LINE
- ~ = CONTOUR LINE
- ~ = INDEX CONTOUR LINE
- 445 = ELEVATION
- = GROUNDWATER CONTOUR & ELEVATION
- - - = INFERRED GROUNDWATER CONTOUR

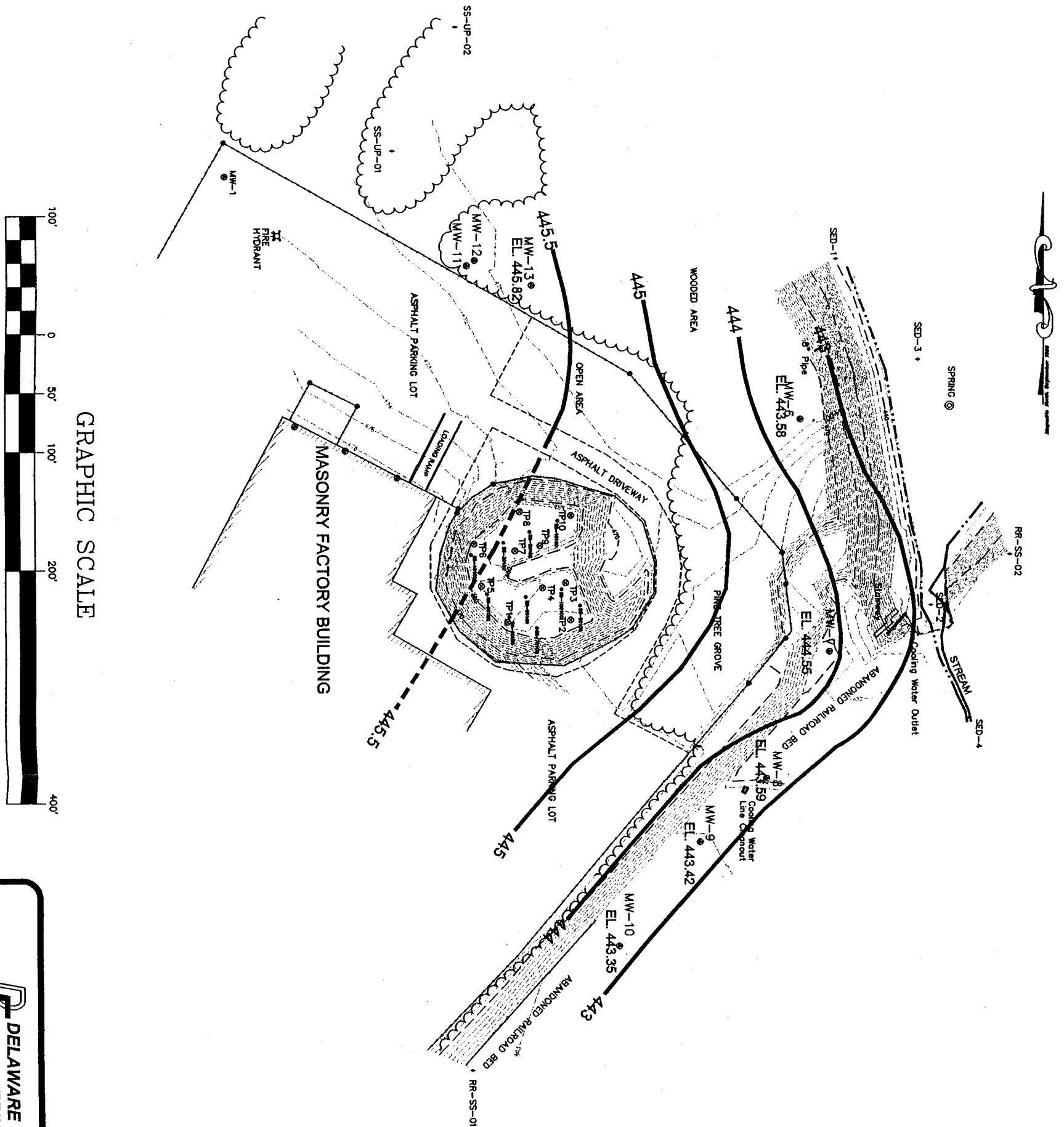
NOTES:

Datum : Based on ground elevation of MW-1
Contour Interval = 1'

FIGURE No. 3
AUGUST 1999
GROUNDWATER CONTOUR MAP

DELAWARE ENGINEERING, P.C.
28 Madison Avenue Extension
Albany, New York 12203
Phone 518-452-1290
FAX 518-452-1335

SITE AT
C & D TECHNOLOGIES
NYS ROUTE 209
HUGUENOT, NEW YORK
MAY 22, 2000



LEGEND

- ◆ = SOIL SAMPLE
- ⊗ = TEST PIT
- ⊙ = MONITORING WELL
- ⊕ = FIRE HYDRANT
- = FENCE POST
- = CHAIN LINK FENCE
- = 1ST FLOOR ELEVATION
- = EDGE OF PAVEMENT
- = TREE LINE
- = CONTOUR LINE
- = INDEX CONTOUR LINE
- 465 = ELEVATION
- = GROUNDWATER CONTOUR & ELEVATION
- - - = INFERRED GROUNDWATER CONTOUR

NOTES:

Datum : Based on ground elevation of MW-1.
 Contour Interval = 1'

GRAPHIC SCALE

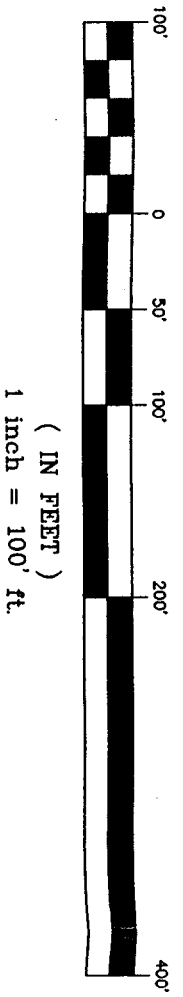


FIGURE No. 4
MARCH 2000
GROUNDWATER CONTOUR MAP

DELAWARE ENGINEERING, P.C.
 28 Madison Avenue Extension
 Albany, New York 12203
 Phone 518-452-1290
 FAX 518-452-1335

SITE AT
C & D TECHNOLOGIES
 NYS ROUTE 209
 HUGUENOT, NEW YORK
 MAY 22, 2000

APPENDIX A

WELL DEVELOPMENT FIELD DATA SHEETS

WELL DEVELOPMENT LOG

Date 11 AUG 99

Site Name C&D Technologies

Well Identification MW-6

Physical Condition of Well FAIR/POOR

Depth to Water 31.87 feet

Total Depth 44.95 feet

44.95' after development

Well Diameter 2 inches

1 Well Volume 2.1 gallons

Purge Time: Start 15:33

Stop 15:59

Total Volume Purged 20 gallons

Development Method Used WATERRA INERTIAL PUMP w/ DEDICATED TUBING

Purge Water Characteristics:

Color LIGHT BROWN

Odor NONE

Turbidity MODERATE -> LOW

Presence of NAPL ND

Other —

Disposal Method Purge water containerized pending characterization for disposal purposes.

Time	Depth to Water (feet)	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Cumulative
								Amount Purged (gallons)
1535	31.94	6.22	124	126	8.06	12.7	0.00	2.5
1538	31.94	6.08	97	75	7.61	11.1	0.00	5
1541	31.91	6.03	100	57	7.53	10.8	0.00	7.5
1545	31.92	5.98	96	43	7.58	10.6	0.00	10
1550	31.96	5.89	97	36	7.38	10.6	0.00	12.5
1553	31.93	6.11	96	31	7.46	10.4	0.00	15
1556	31.96	6.13	96	27	7.20	9.9	0.00	17.5
1559	31.94	6.13	96	27	7.16	10.0	0.00	20 22.5

Cumulative
11 AUG 99

WELL DEVELOPMENT LOG

Date 12 AUG 99

Site Name C&D Technologies

Well Identification MW-7

Physical Condition of Well FAIR

ANN 12 AUG 99 Depth to Water ~~31.58~~ feet 20.71'

Total Depth 31.20 feet 31.32' after development

Well Diameter 2 inches

1 Well Volume 1.7 gallons

Purge Time: Start 12:58

Total Volume Purged 10 gallons

Stop 13:16

Development Method Used WATERRA INERTIAL PUMP W/ DEDICATED TUBING

Purge Water Characteristics:

Color NONE

Odor NONE

Turbidity VERY LOW

Presence of NAPL NO

Other —

Disposal Method Purge water containerized pending characterization for disposal purposes.

Time	Depth to Water (feet)	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Amount Purged (gallons)
1302	20.76	6.90	273	29	2.76	14.4	0.01	2
1306	20.78	6.76	252	16	2.50	13.6	0.00	4
1310	20.81	6.83	248	15	2.16	12.7	0.00	6
1313	20.79	6.86	250	9	2.47	12.6	0.00	8
					<u>ANN 2.47</u>			<u>10</u>
					<u>12 AUG 99</u>			<u>12</u>
								<u>14</u>
								<u>16</u>
								<u>18</u>
1316	20.80	6.85	256	13	2.12	12.4	0.00	10

cumulative

ANN 12 AUG 99

WELL DEVELOPMENT LOG

Date 12 AUG 99 Site Name C&D Technologies

Well Identification MW-8

Physical Condition of Well FAIR/POOR

Depth to Water 23.32 feet 23.38' Total Depth 33.68 feet 33.66' after development

Well Diameter 2 inches

1 Well Volume 1.7 gallons

Purge Time: Start 11:58

Stop 12:32

Total Volume Purged 18 gallons

Development Method Used WATERA INERTIAL PUMP w/ DEDICATED TUBING

Purge Water Characteristics:

Color LIGHT YELLOW

Odor NONE

Turbidity LOW MODERATE TO LOW

Presence of NAPL NO

Other ---

Disposal Method Purge water containerized pending characterization for disposal purposes.

Time	Depth to Water (feet)	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Amount Purged (gallons)
1203	23.74	6.67	216	122	8.57	10.5	0.00	2
1206	23.71	6.51	176	123	8.04	12.6	0.00	4
1210	23.71	6.49	178	112	8.05	11.9	0.00	6
1214	23.73	6.52	182	92	7.99	11.8	0.00	8
1218	23.74	6.53	187	85	7.69	11.7	0.00	10
1222	23.71	6.56	188	102	7.61	11.5	0.00	12
1225	23.74	6.63	190	99	7.54	11.5	0.00	14
1229	23.86	6.71	192	99	7.75	11.7	0.00	16
1232	23.81	6.63	191	98	6.34	11.4	0.00	18

cumulative

cont
12 Aug 99

WELL DEVELOPMENT LOG

Date 12 AUG 99

Site Name C&D Technologies

Well Identification MW-10

Physical Condition of Well FAIR/POOR

Depth to Water 24.68 feet 24.76 ^{ann} 12 AUG 99

Total Depth 36.39 feet 36.45 ^{ann} 12 AUG 99 after development

Well Diameter 2 inches

1 Well Volume 1.9 gallons

Purge Time: Start 08:35
Stop 09:15

Total Volume Purged 20 gallons

Development Method Used WATERRA INERTIAL PUMP w/ DEDICATED TUBING

Purge Water Characteristics:

Color DARK GRAY

Odor NONE

Turbidity HIGH

Presence of NAPL NO

Other ---

Disposal Method Purge water containerized pending characterization for disposal purposes.

Time	Depth to Water (feet)	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Amount Purged (gallons)
0832	24.81	6.67	774	492	4.07	13.4	0.03	2
0842	25.06	6.79	806	510	3.15	12.3	0.03	4
0845	25.02	6.87	821	481	3.54	12.3	0.03	6
0849	24.98	6.83	831	497	2.92	11.8	0.03	8
0852	25.02	6.81	836	510	3.14	11.7	0.03	10
0856	24.96	6.79	840	609	3.06	11.6	0.03	12
0905	25.08	6.83	840	354	2.79	11.8	0.03	14
0908	25.09	6.82	841	351	3.24	11.7	0.03	16
0911	25.02	6.81	841	349	2.78	11.6	0.03	18
0915	25.04	6.79	844	319	2.58	11.6	0.03	20

WELL DEVELOPMENT LOG

Date 12 AUG 99

Site Name C&D Technologies

Well Identification MW-9

Physical Condition of Well FAIR/POOR

Depth to Water ~~24.63~~ feet 24.69 ^{GMM} 12 AUG 99

Total Depth 35.06 feet 35.06 after development

Well Diameter 2 inches

1 Well Volume 1.7 gallons

Purge Time: Start 09:55
Stop 10:31

Total Volume Purged 18 gallons

Development Method Used WATERRA INERTIAL PUMP W/ DEDICATED TUBING

Purge Water Characteristics:

Color LIGHT BROWN

Odor NONE

Turbidity MODERATE

Presence of NAPL NO

Other —

Disposal Method Purge water containerized pending characterization for disposal purposes.

GMM
12 AUG 99
10:31

cumulative

Time	Depth to Water (feet)	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Amount Purged (gallons)
09:55	24.72	7.11	321	340	4.08	13.4	0.01	2
10:04	24.75	7.18	333	350	4.83	12.7	0.01	4
10:11	24.76	7.15	329	284	4.24	12.4	0.01	6
10:15	24.78	7.12	325	309	4.54	12.1	0.01	8
10:18	24.76	7.11	325	312	4.37	12.1	0.01	10
10:21	24.78	7.07	321	257	4.33	11.9	0.01	12
10:24	24.77	7.06	320	221	4.76	12.0	0.01	14
10:28	24.76	7.06	318	193	4.69	11.9	0.01	16
10:31	24.79	7.06	320	179	4.27	11.9	0.01	18

WELL DEVELOPMENT LOG

Date 11 AUG 99

Site Name C&D Technologies

Well Identification MW-17

Physical Condition of Well FAIR

Depth to Water 31.39 feet

Total Depth 410.28 feet

Well Diameter 4 inches

1 Well Volume 4458 gallons

Purge Time: Start 12:56

Stop 14:35

Total Volume Purged 60 gallons

42.99' after development

Development Method Used WATERRA INERTIAL PUMP W/ DEDICATED TUBING

Purge Water Characteristics:

Color BROWN → LIGHT BROWN

Odor NONE

Turbidity HIGH (INITIALLY) → MODERATE/LOW

Presence of NAPL NO

Other ---

Disposal Method Purge water containerized pending characterization for disposal purposes.

cumulative

Time	Depth to Water (feet)	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Amount Purged (gallons)
1313	32.41	5.90	216	935	3.16	13.5	0.00	6
1325	32.52	5.61	194	252	4.64	12.4	0.00	12
1333	32.46	5.67	192	127	5.10	12.0	0.00	18
1342	32.48	5.70	195	121	6.02	11.6	0.00	24
1351	32.54	5.74	197	87	6.03	11.7	0.00	30
1401	32.32	5.85	195	77	5.77	12.0	0.00	36
1413	32.41	5.89	196	62	5.80	11.9	0.00	42
1419	32.32	5.88	194	96	6.37	11.9	0.00	48
1427	32.55	5.89	195	71	5.96	11.7	0.00	54
1435	32.52	5.86	195	71	5.31	11.2	0.00	60

WELL DEVELOPMENT LOG

Date 11 AUG 99 and 12 AUG 99

Site Name C&D Technologies

Well Identification MW-11

Physical Condition of Well _____

Depth to Water dry feet

Total Depth 28.65 feet

Well Diameter 4 inches

1 Well Volume _____ gallons

Purge Time: Start ____ : ____

Total Volume Purged _____ gallons

Stop ____ : ____

Development Method Used WATERRA INERTIAL PUMP w/ DEDICATED TUBING

Purge Water Characteristics:

Color _____

Odor _____

Turbidity _____

Presence of NAPL _____

Other _____

Disposal Method Purge water containerized pending characterization for disposal purposes.

Time	Depth to Water (feet)	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Amount Purged (gallons)

NO WATER PRESENT IN WELL
=> UNABLE TO DEVELOP WELL

WELL DEVELOPMENT LOG

Date 11 AUG 99

Site Name C&D Technologies

Well Identification MW-12

Physical Condition of Well FAIR

Depth to Water 32.81 feet

Total Depth 50.06 feet

Well Diameter 4 inches

1 Well Volume 11.2 gallons

Total Volume Purged 120 gallons

Purge Time: Start 10:30

Stop 11:58

50.10' after well development

Development Method Used WATERRA INERTIAL PUMP w/ DEDICATED TUBING

Purge Water Characteristics:

Color BROWN

Odor NONE

Turbidity VERY HIGH

Presence of NAPL NO

Other ---

Disposal Method Purge water containerized pending characterization for disposal purposes.

Cumulative

Time	Depth to Water (feet) *	pH (SU)	Conductivity (umhos/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	Salinity (%)	Amount Purged (gallons)
1042	33.01	6.04	154	>999	1.78	12.2	0.00	12
1053	33.12	5.90	129	>999	2.21	12.2	0.00	24
1101	33.01	5.93	127	>999	2.62	11.6	0.00	36
1110	33.03	5.97	126	>999	2.33	11.3	0.00	48
1118	33.06	5.99	126	>999	2.18	12.1	0.00	60
1125	33.02	5.93	126	>999	2.46	11.3	0.00	72
1133	33.07	5.94	125	>999	2.78	14.2	0.00	84
1143	33.05	6.04	125	>999	2.29	11.4	0.00	96
1151	33.07	6.05	125	>999	2.83	11.5	0.00	108
1158	33.06	5.98	123	>999	2.16	11.6	0.00	120
<u>C&D</u>								
<u>11 AUG 99</u>	33.09							

* EXTREMELY FAST RECOVERY EXHIBITED BY ALL WELLS DEVELOPED C&D 12 AUG 99

APPENDIX B

HYDRAULIC CONDUCTIVITY DATA

Well: MW-7

r (cm): 2.54 (2-inch diameter well.)
 L (cm): 242.93 (Length of screen beneath static water level.)
 R (cm): 6.67 (Radius of sand pack.)
 To (sec): 3.8 (Calculated from information below.)
K (cm/sec): 1.27E-02

Date	Time	water level at time t	water level at equilibrium	water level at equilibrium	reference datum	reference datum	Time	(H-h)/(H-Ho)
		h (ft)	h (cm)	Ho (ft)	Ho (cm)	H (ft)	H (cm)	
27/08/1999	12:06.0	2.64	80.4672	2.16	65.8368	14.66	446.8368	00:00.0 0.9616
27/08/1999	12:06.0	3.67	111.8616	2.16	65.8368	14.66	446.8368	00:00.0 0.8792
27/08/1999	12:07.0	4.23	128.9304	2.16	65.8368	14.66	446.8368	00:01.0 0.8344
27/08/1999	12:07.0	4.69	142.9512	2.16	65.8368	14.66	446.8368	00:01.0 0.7976
27/08/1999	12:08.0	5.33	162.4584	2.16	65.8368	14.66	446.8368	00:02.0 0.7464
27/08/1999	12:08.0	6.43	195.9864	2.16	65.8368	14.66	446.8368	00:02.0 0.6584
27/08/1999	12:09.0	7.9	240.792	2.16	65.8368	14.66	446.8368	00:03.0 0.5408
27/08/1999	12:09.0	9.36	285.2928	2.16	65.8368	14.66	446.8368	00:03.0 0.424
27/08/1999	12:10.0	10.71	326.4408	2.16	65.8368	14.66	446.8368	00:04.0 0.316
27/08/1999	12:10.0	11.73	357.5304	2.16	65.8368	14.66	446.8368	00:04.0 0.2344
27/08/1999	12:11.0	11.81	359.9688	2.16	65.8368	14.66	446.8368	00:05.0 0.228
27/08/1999	12:11.0	11.81	359.9688	2.16	65.8368	14.66	446.8368	00:05.0 0.228
27/08/1999	12:12.0	11.76	358.4448	2.16	65.8368	14.66	446.8368	00:06.0 0.232
27/08/1999	12:12.0	11.68	356.0064	2.16	65.8368	14.66	446.8368	00:06.0 0.2384
27/08/1999	12:13.0	11.64	354.7872	2.16	65.8368	14.66	446.8368	00:07.0 0.2416
27/08/1999	12:13.0	11.68	356.0064	2.16	65.8368	14.66	446.8368	00:07.0 0.2384
27/08/1999	12:14.0	11.81	359.9688	2.16	65.8368	14.66	446.8368	00:08.0 0.228
27/08/1999	12:14.0	11.81	359.9688	2.16	65.8368	14.66	446.8368	00:08.0 0.228
27/08/1999	12:15.0	11.66	355.3968	2.16	65.8368	14.66	446.8368	00:09.0 0.24
27/08/1999	12:15.0	11.46	349.3008	2.16	65.8368	14.66	446.8368	00:09.0 0.256
27/08/1999	12:16.0	11.41	347.7768	2.16	65.8368	14.66	446.8368	00:10.0 0.26
27/08/1999	12:16.0	11.41	347.7768	2.16	65.8368	14.66	446.8368	00:10.0 0.26
27/08/1999	12:17.0	11.43	348.3864	2.16	65.8368	14.66	446.8368	00:11.0 0.2584
27/08/1999	12:17.0	11.43	348.3864	2.16	65.8368	14.66	446.8368	00:11.0 0.2584
27/08/1999	12:18.0	11.45	348.996	2.16	65.8368	14.66	446.8368	00:12.0 0.2568
27/08/1999	12:18.0	11.41	347.7768	2.16	65.8368	14.66	446.8368	00:12.0 0.26
27/08/1999	12:19.0	11.43	348.3864	2.16	65.8368	14.66	446.8368	00:13.0 0.2584
27/08/1999	12:19.0	11.43	348.3864	2.16	65.8368	14.66	446.8368	00:13.0 0.2584
27/08/1999	12:20.0	11.41	347.7768	2.16	65.8368	14.66	446.8368	00:14.0 0.26
27/08/1999	12:20.0	11.43	348.3864	2.16	65.8368	14.66	446.8368	00:14.0 0.2584
27/08/1999	12:21.0	11.43	348.3864	2.16	65.8368	14.66	446.8368	00:15.0 0.2584
27/08/1999	12:21.0	11.45	348.996	2.16	65.8368	14.66	446.8368	00:15.0 0.2568

3.5 0.424
 x 0.37
 4 0.316
 x = 3.75

Well: MW-8

r (cm): 2.54 (2-inch diameter well.)
 L (cm): 283.16 (Length of screen beneath static water level.)
 R (cm): 6.67 (Radius of sand pack.)
 To (sec): 10 (Calculated from information below.)
K (cm/sec): 4.11E-03

Date	Time	water level at time t h (ft)	water level at time t h (cm)	water level at equilibrium Ho (ft)	water level at equilibrium Ho (cm)	reference datum H (ft)	reference datum H (cm)	Time (H-h)/(H-Ho)
27/08/1999	59:47.0	3.1	94.488	2.16	65.8368	14.56	443.7888	00:00.0 0.92419355
27/08/1999	59:48.0	3.15	96.012	2.16	65.8368	14.56	443.7888	00:01.0 0.92016129
27/08/1999	59:48.0	3.1	94.488	2.16	65.8368	14.56	443.7888	00:01.0 0.92419355
27/08/1999	59:49.0	3.1	94.488	2.16	65.8368	14.56	443.7888	00:02.0 0.92419355
27/08/1999	59:49.0	3.1	94.488	2.16	65.8368	14.56	443.7888	00:02.0 0.92419355
27/08/1999	59:50.0	3.1	94.488	2.16	65.8368	14.56	443.7888	00:03.0 0.92419355
27/08/1999	59:50.0	3.1	94.488	2.16	65.8368	14.56	443.7888	00:03.0 0.92419355
27/08/1999	59:51.0	3.13	95.4024	2.16	65.8368	14.56	443.7888	00:04.0 0.92177419
27/08/1999	59:51.0	3.15	96.012	2.16	65.8368	14.56	443.7888	00:04.0 0.92016129
27/08/1999	59:52.0	3.33	101.4984	2.16	65.8368	14.56	443.7888	00:05.0 0.90564516
27/08/1999	59:52.0	3.82	116.4336	2.16	65.8368	14.56	443.7888	00:05.0 0.86612903
27/08/1999	59:53.0	3.87	117.9576	2.16	65.8368	14.56	443.7888	00:06.0 0.86209677
27/08/1999	59:53.0	3.82	116.4336	2.16	65.8368	14.56	443.7888	00:06.0 0.86612903
27/08/1999	59:54.0	3.85	117.348	2.16	65.8368	14.56	443.7888	00:07.0 0.86370968
27/08/1999	59:54.0	4.13	125.8824	2.16	65.8368	14.56	443.7888	00:07.0 0.84112903
27/08/1999	59:55.0	5.05	153.924	2.16	65.8368	14.56	443.7888	00:08.0 0.76693548
27/08/1999	59:55.0	6.02	183.4896	2.16	65.8368	14.56	443.7888	00:08.0 0.68870968
27/08/1999	59:56.0	6.4	195.072	2.16	65.8368	14.56	443.7888	00:09.0 0.65806452
27/08/1999	59:56.0	7.3	222.504	2.16	65.8368	14.56	443.7888	00:09.0 0.58548387
27/08/1999	59:57.0	8.68	264.5664	2.16	65.8368	14.56	443.7888	00:10.0 0.47419355
27/08/1999	59:57.0	10.35	315.468	2.16	65.8368	14.56	443.7888	00:10.0 0.33951613
27/08/1999	59:58.0	11.68	356.0064	2.16	65.8368	14.56	443.7888	00:11.0 0.23225806
27/08/1999	59:58.0	11.73	357.5304	2.16	65.8368	14.56	443.7888	00:11.0 0.22822581
27/08/1999	59:59.0	11.73	357.5304	2.16	65.8368	14.56	443.7888	00:12.0 0.22822581
27/08/1999	59:59.0	11.68	356.0064	2.16	65.8368	14.56	443.7888	00:12.0 0.23225806
27/08/1999	00:00.0	11.46	349.3008	2.16	65.8368	14.56	443.7888	00:13.0 0.25
27/08/1999	00:00.0	11.23	342.2904	2.16	65.8368	14.56	443.7888	00:13.0 0.26854839
27/08/1999	00:01.0	11.68	356.0064	2.16	65.8368	14.56	443.7888	00:14.0 0.23225806
27/08/1999	00:01.0	11.73	357.5304	2.16	65.8368	14.56	443.7888	00:14.0 0.22822581
27/08/1999	00:02.0	11.73	357.5304	2.16	65.8368	14.56	443.7888	00:15.0 0.22822581
27/08/1999	00:02.0	11.56	352.3488	2.16	65.8368	14.56	443.7888	00:15.0 0.24193548
27/08/1999	00:03.0	11.68	356.0064	2.16	65.8368	14.56	443.7888	00:16.0 0.23225806

10 0.474194
 x 0.37
 10.5 0.339516
 x = 10.38683

Well MW-10

r (cm): 2.54 (2-inch diameter well.)
 L (cm): 301.45 (Length of screen beneath static water level.)
 R (cm): 6.67 (Radius of sand pack.)
 To (sec): 14.7 (Calculated from information below.)

K (cm/sec): 2.77E-03

Date	Time	water level at time t		water level at equilibrium		reference datum		Time (H-h)/(H-Ho)
		h (ft)	h (cm)	Ho (ft)	Ho (cm)	H (ft)	H (cm)	
27/08/1999	7:33:01	2.39	72.8472	2.13	64.9224	16.19	493.4712	0:00:00 0.98150782
27/08/1999	7:33:01	2.79	85.0392	2.13	64.9224	16.19	493.4712	0:00:00 0.95305832
27/08/1999	7:33:02	2.89	88.0872	2.13	64.9224	16.19	493.4712	0:00:01 0.94594595
27/08/1999	7:33:02	3.15	96.012	2.13	64.9224	16.19	493.4712	0:00:01 0.92745377
27/08/1999	7:33:03	3.51	106.9848	2.13	64.9224	16.19	493.4712	0:00:02 0.90184922
27/08/1999	7:33:03	3.82	116.4336	2.13	64.9224	16.19	493.4712	0:00:02 0.87980085
27/08/1999	7:33:04	4.03	122.8344	2.13	64.9224	16.19	493.4712	0:00:03 0.86486486
27/08/1999	7:33:04	4.48	136.5504	2.13	64.9224	16.19	493.4712	0:00:03 0.83285917
27/08/1999	7:33:05	4.79	145.9992	2.13	64.9224	16.19	493.4712	0:00:04 0.81081081
27/08/1999	7:33:05	5.1	155.448	2.13	64.9224	16.19	493.4712	0:00:04 0.78876245
27/08/1999	7:33:06	5.53	168.5544	2.13	64.9224	16.19	493.4712	0:00:05 0.75817923
27/08/1999	7:33:06	5.82	177.3936	2.13	64.9224	16.19	493.4712	0:00:05 0.73755334
27/08/1999	7:33:07	6.4	195.072	2.13	64.9224	16.19	493.4712	0:00:06 0.69630156
27/08/1999	7:33:07	6.71	204.5208	2.13	64.9224	16.19	493.4712	0:00:06 0.6742532
27/08/1999	7:33:08	7.2	219.456	2.13	64.9224	16.19	493.4712	0:00:07 0.63940256
27/08/1999	7:33:08	7.58	231.0384	2.13	64.9224	16.19	493.4712	0:00:07 0.61237553
27/08/1999	7:33:09	8.07	245.9736	2.13	64.9224	16.19	493.4712	0:00:08 0.57752489
27/08/1999	7:33:09	8.53	259.9944	2.13	64.9224	16.19	493.4712	0:00:08 0.54480797
27/08/1999	7:33:10	9.02	274.9296	2.13	64.9224	16.19	493.4712	0:00:09 0.50995733
27/08/1999	7:33:10	9.45	288.036	2.13	64.9224	16.19	493.4712	0:00:09 0.47937411
27/08/1999	7:33:11	9.92	302.3616	2.13	64.9224	16.19	493.4712	0:00:10 0.44594595
27/08/1999	7:33:11	10.3	313.944	2.13	64.9224	16.19	493.4712	0:00:10 0.41891892
27/08/1999	7:33:12	10.51	320.3448	2.13	64.9224	16.19	493.4712	0:00:11 0.40398293
27/08/1999	7:33:12	9.81	299.0088	2.13	64.9224	16.19	493.4712	0:00:11 0.45376956
27/08/1999	7:33:13	8.84	269.4432	2.13	64.9224	16.19	493.4712	0:00:12 0.5227596
27/08/1999	7:33:13	8.97	273.4056	2.13	64.9224	16.19	493.4712	0:00:12 0.51351351
27/08/1999	7:33:14	10.35	315.468	2.13	64.9224	16.19	493.4712	0:00:13 0.41536273
27/08/1999	7:33:14	10.66	324.9168	2.13	64.9224	16.19	493.4712	0:00:13 0.39331437
27/08/1999	7:33:15	10.51	320.3448	2.13	64.9224	16.19	493.4712	0:00:14 0.40398293
27/08/1999	7:33:15	10.81	329.4888	2.13	64.9224	16.19	493.4712	0:00:14 0.3826458
27/08/1999	7:33:16	11.17	340.4616	2.13	64.9224	16.19	493.4712	0:00:15 0.35704125
27/08/1999	7:33:16	11.51	350.8248	2.13	64.9224	16.19	493.4712	0:00:15 0.33285917
27/08/1999	7:33:17	11.84	360.8832	2.13	64.9224	16.19	493.4712	0:00:16 0.30938834
27/08/1999	7:33:17	12.22	372.4656	2.13	64.9224	16.19	493.4712	0:00:16 0.28236131

14.5 0.382646
 x 0.37
 15 0.357041
 x = 14.74694

Well: MW-6

r (cm): 2.54 (2-inch diameter well.)
 L (cm): 304.80 (Length of screen beneath static water level.)
 R (cm): 6.67 (Radius of sand pack.)
 To (sec): 5.2 (Calculated from information below.)
K (cm/sec): 7.71E-03

Date	Time	water level at time t		water level at equilibrium		reference datum		Time (H-h)/(H-Ho)
		h (ft)	h (cm)	Ho (ft)	Ho (cm)	H (ft)	H (cm)	
27/08/1999	8:33:05	2.41	73.4568	2.16	65.8368	14.4	438.912	0:00:00 0.97957516
27/08/1999	8:33:06	3.36	102.4128	2.16	65.8368	14.4	438.912	0:00:01 0.90196078
27/08/1999	8:33:06	3.46	105.4608	2.16	65.8368	14.4	438.912	0:00:01 0.89379085
27/08/1999	8:33:07	4.58	139.5984	2.16	65.8368	14.4	438.912	0:00:02 0.80228758
27/08/1999	8:33:07	6.84	208.4832	2.16	65.8368	14.4	438.912	0:00:02 0.61764706
27/08/1999	8:33:08	7.15	217.932	2.16	65.8368	14.4	438.912	0:00:03 0.59232026
27/08/1999	8:33:08	7.99	243.5352	2.16	65.8368	14.4	438.912	0:00:03 0.52369281
27/08/1999	8:33:09	8.35	254.508	2.16	65.8368	14.4	438.912	0:00:04 0.49428105
27/08/1999	8:33:09	8.97	273.4056	2.16	65.8368	14.4	438.912	0:00:04 0.44362745
27/08/1999	8:33:10	9.32	284.0736	2.16	65.8368	14.4	438.912	0:00:05 0.41503268
27/08/1999	8:33:10	10.43	317.9064	2.16	65.8368	14.4	438.912	0:00:05 0.32434641
27/08/1999	8:33:11	10.79	328.8792	2.16	65.8368	14.4	438.912	0:00:06 0.29493464
27/08/1999	8:33:11	11.56	352.3488	2.16	65.8368	14.4	438.912	0:00:06 0.23202614
27/08/1999	8:33:12	13.81	420.9288	2.16	65.8368	14.4	438.912	0:00:07 0.04820261
27/08/1999	8:33:12	14.3	435.864	2.16	65.8368	14.4	438.912	0:00:07 0.00816993
27/08/1999	8:33:13	14.3	435.864	2.16	65.8368	14.4	438.912	0:00:08 0.00816993
27/08/1999	8:33:13	14.3	435.864	2.16	65.8368	14.4	438.912	0:00:08 0.00816993
27/08/1999	8:33:14	13.73	418.4904	2.16	65.8368	14.4	438.912	0:00:09 0.05473856
27/08/1999	8:33:14	14.33	436.7784	2.16	65.8368	14.4	438.912	0:00:09 0.00571895
27/08/1999	8:33:15	14.32	436.4736	2.16	65.8368	14.4	438.912	0:00:10 0.00653595
27/08/1999	8:33:15	14.12	430.3776	2.16	65.8368	14.4	438.912	0:00:10 0.02287582
27/08/1999	8:33:16	14.32	436.4736	2.16	65.8368	14.4	438.912	0:00:11 0.00653595
27/08/1999	8:33:16	14.33	436.7784	2.16	65.8368	14.4	438.912	0:00:11 0.00571895
27/08/1999	8:33:17	14.25	434.34	2.16	65.8368	14.4	438.912	0:00:12 0.0122549
27/08/1999	8:33:17	14.3	435.864	2.16	65.8368	14.4	438.912	0:00:12 0.00816993
27/08/1999	8:33:18	14.3	435.864	2.16	65.8368	14.4	438.912	0:00:13 0.00816993
27/08/1999	8:33:18	14.22	433.4256	2.16	65.8368	14.4	438.912	0:00:13 0.01470588
27/08/1999	8:33:19	14.22	433.4256	2.16	65.8368	14.4	438.912	0:00:14 0.01470588
27/08/1999	8:33:19	14.3	435.864	2.16	65.8368	14.4	438.912	0:00:14 0.00816993
27/08/1999	8:33:20	14.35	437.388	2.16	65.8368	14.4	438.912	0:00:15 0.00408497
27/08/1999	8:33:20	14.35	437.388	2.16	65.8368	14.4	438.912	0:00:15 0.00408497
27/08/1999	8:33:21	14.35	437.388	2.16	65.8368	14.4	438.912	0:00:16 0.00408497

5 0.415033
 x 0.37
 5.5 0.324346
 x = 5.248288

Well: MW-9

r (cm): 2.54 (2-inch diameter well.)
 L (cm): 243.54 (Length of screen beneath static water level.)
 R (cm): 6.67 (Radius of sand pack.)
 To (sec): 2.7 (Calculated from information below.)
K (cm/sec): 1.74E-02

Date	Time	water level at time t	water level at time t	water level at equilibrium	water level at equilibrium	reference datum	reference datum	Time	(H-h)/(H-Ho)
		h (ft)	h (cm)	Ho (ft)	Ho (cm)	H (ft)	H (cm)		
27/08/1999	47:41	3.51	106.9848	2.16	65.8368	13.6	414.528	0:00:00	0.881993007
27/08/1999	47:41	3.82	116.4336	2.16	65.8368	13.6	414.528	0:00:00	0.854895105
27/08/1999	47:42	4.62	140.8176	2.16	65.8368	13.6	414.528	0:00:01	0.784965035
27/08/1999	47:42	5.64	171.9072	2.16	65.8368	13.6	414.528	0:00:01	0.695804196
27/08/1999	47:43	7.4	225.552	2.16	65.8368	13.6	414.528	0:00:02	0.541958042
27/08/1999	47:43	8.74	266.3952	2.16	65.8368	13.6	414.528	0:00:03	0.424825175
27/08/1999	47:44	10.05	306.324	2.16	65.8368	13.6	414.528	0:00:03	0.310314685
27/08/1999	47:44	11.78	359.0544	2.16	65.8368	13.6	414.528	0:00:04	0.159090909
27/08/1999	47:45	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:04	0.163461538
27/08/1999	47:45	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:04	0.163461538
27/08/1999	47:46	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:05	0.163461538
27/08/1999	47:46	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:05	0.163461538
27/08/1999	47:47	11.5	350.52	2.16	65.8368	13.6	414.528	0:00:06	0.183566434
27/08/1999	47:47	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:06	0.163461538
27/08/1999	47:48	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:07	0.163461538
27/08/1999	47:48	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:07	0.163461538
27/08/1999	47:49	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:07	0.163461538
27/08/1999	47:49	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:08	0.163461538
27/08/1999	47:49	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:08	0.163461538
27/08/1999	47:50	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:09	0.163461538
27/08/1999	47:50	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:09	0.163461538
27/08/1999	47:51	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:10	0.163461538
27/08/1999	47:51	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:10	0.163461538
27/08/1999	47:52	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:11	0.163461538
27/08/1999	47:52	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:11	0.163461538
27/08/1999	47:53	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:12	0.163461538
27/08/1999	47:53	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:12	0.163461538
27/08/1999	47:54	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:13	0.163461538
27/08/1999	47:54	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:13	0.163461538
27/08/1999	47:55	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:14	0.163461538
27/08/1999	47:55	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:14	0.163461538
27/08/1999	47:56	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:15	0.163461538
27/08/1999	47:56	11.73	357.5304	2.16	65.8368	13.6	414.528	0:00:15	0.163461538

2.5 0.424825
 x 0.37
 3 0.310315
 x = 2.739389

Well: MW-12

r (cm): 5.08 (4-inch diameter well.)
 L (cm): 152.40 (Length of screen beneath static water level.)
 R (cm): 10.48 (Radius of sand pack.)
 To (sec): 2.4 (Calculated from information below.)
K (cm/sec): 9.30E-02 TRIAL 3 (AW-122)

Date	Time	water level at time t		water level at equilibrium		water level at equilibrium		reference datum		Time (H-h)/(H-Ho)
		h (ft)	h (cm)	Ho (ft)	Ho (cm)	H (ft)	H (cm)	datum	datum	
27/08/1999	9:05:07	3.67	111.8616	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:00 0.89381153
27/08/1999	9:05:08	5.33	162.4584	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:01 0.77707454
27/08/1999	9:05:08	7.61	231.9528	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:01 0.61673699
27/08/1999	9:05:09	9.18	279.8064	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:02 0.50632911
27/08/1999	9:05:09	11.4	347.472	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:02 0.35021097
27/08/1999	9:05:10	13.68	416.9664	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:03 0.18987342
27/08/1999	9:05:10	15.06	459.0288	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:03 0.092827
27/08/1999	9:05:11	16.38	499.2624	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:04 0
27/08/1999	9:05:11	16.38	499.2624	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:04 0
27/08/1999	9:05:12	16.38	499.2624	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:05 0
27/08/1999	9:05:12	16.38	499.2624	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:05 0
27/08/1999	9:05:13	16.38	499.2624	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:06 0
27/08/1999	9:05:13	16.38	499.2624	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:06 0
27/08/1999	9:05:14	16.38	499.2624	2.16	65.8368	16.38	499.2624	16.38	499.2624	0:00:06 0
27/08/1999	9:05:14	16.38								0:00:07 0
27/08/1999	9:05:15	16.38								
27/08/1999	9:05:15	16.38								
27/08/1999	9:05:16	16.38								
27/08/1999	9:05:16	16.38								
27/08/1999	9:05:17	16.38								
27/08/1999	9:05:17	16.38								
27/08/1999	9:05:18	16.38								
27/08/1999	9:05:18	16.38								
27/08/1999	9:05:19	16.38								
27/08/1999	9:05:19	16.38								
27/08/1999	9:05:20	16.38								

2 0.506329
 x 0.37
 2.5 0.350211
 x = 2.436622

Well: MW-13

r (cm): 2.54 (2-inch diameter well.)
 L (cm): 157.89 (Length of screen beneath static water level.)
 R (cm): 6.67 (Radius of sand pack.)
 To (sec): 29.9 (Calculated from information below.)
K (cm/sec): 2.16E-03

Date	Time	water level at time t h (ft)	water level at time t h (cm)	water level at equilibrium Ho (ft)	water level at equilibrium Ho (cm)	reference datum H (ft)	reference datum H (cm)	Time (H-h)/(H-Ho)
27/08/1999	9:17:41	2.21	67.3608	2.16	65.8368	10.43	317.9064	0:00:00 0.99395405
27/08/1999	9:17:42	2.21	67.3608	2.16	65.8368	10.43	317.9064	0:00:01 0.99395405
27/08/1999	9:17:42	2.35	71.628	2.16	65.8368	10.43	317.9064	0:00:01 0.97702539
27/08/1999	9:17:43	2.44	74.3712	2.16	65.8368	10.43	317.9064	0:00:02 0.96614268
27/08/1999	9:17:43	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:02 0.97218863
27/08/1999	9:17:44	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:03 0.97218863
27/08/1999	9:17:44	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:03 0.97218863
27/08/1999	9:17:45	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:04 0.97218863
27/08/1999	9:17:45	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:04 0.97218863
27/08/1999	9:17:46	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:04 0.97218863
27/08/1999	9:17:46	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:05 0.97218863
27/08/1999	9:17:46	2.39	72.8472	2.16	65.8368	10.43	317.9064	0:00:05 0.97218863
27/08/1999	9:17:47	2.48	75.5904	2.16	65.8368	10.43	317.9064	0:00:06 0.96130593
27/08/1999	9:17:47	2.48	75.5904	2.16	65.8368	10.43	317.9064	0:00:06 0.96130593
27/08/1999	9:17:48	2.48	75.5904	2.16	65.8368	10.43	317.9064	0:00:07 0.96130593
27/08/1999	9:17:48	2.51	76.5048	2.16	65.8368	10.43	317.9064	0:00:07 0.95767836
27/08/1999	9:17:49	2.49	75.8952	2.16	65.8368	10.43	317.9064	0:00:08 0.96009674
27/08/1999	9:17:49	2.53	77.1144	2.16	65.8368	10.43	317.9064	0:00:08 0.95525998
27/08/1999	9:17:50	2.61	79.5528	2.16	65.8368	10.43	317.9064	0:00:09 0.94558646
27/08/1999	9:17:50	2.48	75.5904	2.16	65.8368	10.43	317.9064	0:00:09 0.96130593
27/08/1999	9:17:51	2.44	74.3712	2.16	65.8368	10.43	317.9064	0:00:10 0.96614268
27/08/1999	9:17:51	2.44	74.3712	2.16	65.8368	10.43	317.9064	0:00:10 0.96614268
27/08/1999	9:17:52	2.48	75.5904	2.16	65.8368	10.43	317.9064	0:00:11 0.96130593
27/08/1999	9:17:52	2.48	75.5904	2.16	65.8368	10.43	317.9064	0:00:11 0.96130593
27/08/1999	9:17:53	2.66	81.0768	2.16	65.8368	10.43	317.9064	0:00:12 0.93954051
27/08/1999	9:17:53	2.71	82.6008	2.16	65.8368	10.43	317.9064	0:00:12 0.93349456
27/08/1999	9:17:54	2.77	84.4296	2.16	65.8368	10.43	317.9064	0:00:13 0.92623942
27/08/1999	9:17:54	2.82	85.9536	2.16	65.8368	10.43	317.9064	0:00:13 0.92019347
27/08/1999	9:17:55	2.8	85.344	2.16	65.8368	10.43	317.9064	0:00:14 0.92261185
27/08/1999	9:17:55	2.84	86.5632	2.16	65.8368	10.43	317.9064	0:00:14 0.91777509
27/08/1999	9:17:56	2.84	86.5632	2.16	65.8368	10.43	317.9064	0:00:15 0.91777509
27/08/1999	9:17:56	2.89	88.0872	2.16	65.8368	10.43	317.9064	0:00:15 0.91172914
27/08/1999	9:17:57	3.2	97.536	2.16	65.8368	10.43	317.9064	0:00:16 0.87424426

27/08/1999	9:17:57	3.02	92.0496	2.16	65.8368	10.43	317.9064	0:00:16	0.89600967
27/08/1999	9:17:58	2.54	77.4192	2.16	65.8368	10.43	317.9064	0:00:17	0.95405079
27/08/1999	9:17:58	2.57	78.3336	2.16	65.8368	10.43	317.9064	0:00:17	0.95042322
27/08/1999	9:17:59	2.66	81.0768	2.16	65.8368	10.43	317.9064	0:00:18	0.93954051
27/08/1999	9:17:59	2.76	84.1248	2.16	65.8368	10.43	317.9064	0:00:18	0.92744861
27/08/1999	9:18:00	2.57	78.3336	2.16	65.8368	10.43	317.9064	0:00:19	0.95042322
27/08/1999	9:18:00	2.57	78.3336	2.16	65.8368	10.43	317.9064	0:00:19	0.95042322
27/08/1999	9:18:01	2.57	78.3336	2.16	65.8368	10.43	317.9064	0:00:20	0.95042322
27/08/1999	9:18:01	2.66	81.0768	2.16	65.8368	10.43	317.9064	0:00:20	0.93954051
27/08/1999	9:18:02	2.71	82.6008	2.16	65.8368	10.43	317.9064	0:00:21	0.93349456
27/08/1999	9:18:02	2.71	82.6008	2.16	65.8368	10.43	317.9064	0:00:21	0.93349456
27/08/1999	9:18:03	2.72	82.9056	2.16	65.8368	10.43	317.9064	0:00:22	0.93228537
27/08/1999	9:18:03	2.76	84.1248	2.16	65.8368	10.43	317.9064	0:00:22	0.92744861
27/08/1999	9:18:04	2.79	85.0392	2.16	65.8368	10.43	317.9064	0:00:23	0.92382104
27/08/1999	9:18:04	3.07	93.5736	2.16	65.8368	10.43	317.9064	0:00:23	0.88996372
27/08/1999	9:18:05	3.1	94.488	2.16	65.8368	10.43	317.9064	0:00:24	0.88633615
27/08/1999	9:18:05	3.2	97.536	2.16	65.8368	10.43	317.9064	0:00:24	0.87424426
27/08/1999	9:18:06	3.23	98.4504	2.16	65.8368	10.43	317.9064	0:00:25	0.87061669
27/08/1999	9:18:06	3.36	102.4128	2.16	65.8368	10.43	317.9064	0:00:25	0.85489722
27/08/1999	9:18:07	3.77	114.9096	2.16	65.8368	10.43	317.9064	0:00:26	0.80532044
27/08/1999	9:18:07	4.48	136.5504	2.16	65.8368	10.43	317.9064	0:00:26	0.71946796
27/08/1999	9:18:08	4.74	144.4752	2.16	65.8368	10.43	317.9064	0:00:27	0.68802902
27/08/1999	9:18:08	4.77	145.3896	2.16	65.8368	10.43	317.9064	0:00:27	0.68440145
27/08/1999	9:18:09	4.79	145.9992	2.16	65.8368	10.43	317.9064	0:00:28	0.68198307
27/08/1999	9:18:09	4.84	147.5232	2.16	65.8368	10.43	317.9064	0:00:28	0.67593712
27/08/1999	9:18:10	5.28	160.9344	2.16	65.8368	10.43	317.9064	0:00:29	0.62273277
27/08/1999	9:18:10	6.3	192.024	2.16	65.8368	10.43	317.9064	0:00:29	0.49939541
27/08/1999	9:18:11	7.68	234.0864	2.16	65.8368	10.43	317.9064	0:00:30	0.33252721
27/08/1999	9:18:11	8.81	268.5288	2.16	65.8368	10.43	317.9064	0:00:30	0.19588875
27/08/1999	9:18:12	10.12	308.4576	2.16	65.8368	10.43	317.9064	0:00:31	0.03748489
27/08/1999	9:18:12	10.3	313.944	2.16	65.8368	10.43	317.9064	0:00:31	0.01571947
27/08/1999	9:18:13	10.43	317.9064	2.16	65.8368	10.43	317.9064	0:00:32	0
27/08/1999	9:18:13	10.43	317.9064	2.16	65.8368	10.43	317.9064	0:00:32	0
27/08/1999	9:18:14	10.4	316.992	2.16	65.8368	10.43	317.9064	0:00:33	0.00362757
27/08/1999	9:18:14	9.53	290.4744	2.16	65.8368	10.43	317.9064	0:00:33	0.10882709
27/08/1999	9:18:15	9.36	285.2928	2.16	65.8368	10.43	317.9064	0:00:34	0.12938331
27/08/1999	9:18:15	9.18	279.8064	2.16	65.8368	10.43	317.9064	0:00:34	0.15114873
27/08/1999	9:18:16	9.18	279.8064	2.16	65.8368	10.43	317.9064	0:00:35	0.15114873
27/08/1999	9:18:16	9.18	279.8064	2.16	65.8368	10.43	317.9064	0:00:35	0.15114873
27/08/1999	9:18:17	9.18	279.8064	2.16	65.8368	10.43	317.9064	0:00:36	0.15114873
27/08/1999	9:18:17	9.18	279.8064	2.16	65.8368	10.43	317.9064	0:00:36	0.15114873
27/08/1999	9:18:17	9.18	279.8064	2.16	65.8368	10.43	317.9064	0:00:37	0.15114873
27/08/1999	9:18:18	9.18	279.8064	2.16	65.8368	10.43	317.9064	0:00:37	0.15114873
27/08/1999	9:18:18	9.27	282.5496	2.16	65.8368	10.43	317.9064	0:00:37	0.14026602

29.5 0.499395
x 0.37
30 0.332527
x = 29.88772

APPENDIX C

SEPTEMBER 1999 DURS REPORT

**Environmental
Resources
Management**

175 Froehlich Farm Blvd.
Woodbury, NY 11797
(516) 921-4300
(516) 921-5637 (Fax)

12 January 2000

Mr. Ed Fahrenkopf
Delaware Engineering, P.C.
28 Madison Avenue Extension
Albany, New York 12203



RE: C&D Technologies - Huguenot, New York
Data Usability Summary Report (DUSR) for
Chemtech Project Numbers 12956, 13324, 13181, 13182 and 13183

Mr. Fahrenkopf,

Enclosed is your Chemtech data packages along with my Data Usability Summary Reports and the qualified Form I's. Thank you for the work. If you have any questions, comments or require additional information, please give me a call.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew J. Coenen", written over a horizontal line.

Andrew J. Coenen

DATA USABILITY SUMMARY REPORT (DUSR)
C&D TECHNOLOGIES
HUGUENOT, NEW YORK
CHEMTECH PROJECT NUMBERS
12956, 13324, 13181, 13182 and 13183

Deliverables:

The above referenced data summary packages and sample data packages contain all required deliverables as requested on the chain of custodies. The sample specific analyses performed included volatile organic compound (VOC) analysis, semivolatile organic compound (SVOC) analysis, pesticides and polychlorinated biphenyls (Pest/PCB), target analyte list (TAL) metals analysis, barium, lead and fluoride. The data have been evaluated according to the protocols and quality control (QC) requirements of the analytical methods, the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Organic (Inorganic) Data Review (February 1994) and the reviewer's professional judgment.

This report pertains to the following samples:

		<u>Samples</u>		
<u>SDG 12956</u>	<u>SDG 13324</u>	<u>SDG 13181</u>	<u>SDG 13182</u>	<u>SDG 13183</u>
SED-1-	MW-6 -	TP-1 (0) -	TP-6 (0) -	TP-8 (4) -
SED-2 -	MW-7 -	TP-1 (2) -	TP-6 (2) -	TP-8 (6)
SED-3 -	MW-8 (MS/MSD) -	TP-1 (4) -	TP-6 (4) -	TP-8 (12)
SED-4 (MS/MSD) -	MW-9 -	TP-1 (6) -	TP-6 (6) -	TP-4 (4) -
SS-RR-01 (6-12) -	MW-10 -	TP-1 (12) -	TP-6 (12) -	TP-4 (6)
SS-RR-02 (6-12) -	MW-12 -	TP-2 (0)	TP-7 (0) -	TP-5 (0)
X-1 -	MW-13 -	TP-2 (2)	TP-7 (2) -	TP-5 (2) -
SS-UP-01 (6-12) -	X-6 -	TP-2 (4)	TP-7 (4) -	TP-5 (4) -
SS-UP-02 (6-12) -	TB 9/9/99 -	TP-2 (6)	TP-9 (4) -	TP-5 (6) -
		TP-3 (0)	TP-9 (6) -	TP-5 (12) -
		TP-3 (2)	TP-9 (10) -	TP-9 (0) -
		TP-3 (4)	TP-10 (0) (MS/MSD) -	TP-4 (10) MS/MSD -
		TP-3 (6)	TP-10 (2) -	
		TP-3 (10)	TP-10 (4) -	
		TP-4 (0)	TP-10 (6) -	
		TP-4 (2)	TP-10 (10) -	
		X-2	TP-7 (6)	
		X-3	TP-7 (12)	
		X-4	TP-8 (0)	
		TP-9 (2) (MS/MSD)	TP-8 (2)	

Organics

The following items/criteria were reviewed:

- Case narrative and deliverables compliance
- Holding times both technical and procedural and sample preservation (including pH and temperature)
- System Monitoring Compound recoveries, summary and data
- MS/MSD results, recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Field and trip blank data
- Field duplicate results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above have been judged to be in compliance with the analytical methods and with the USEPA criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

Volatiles

- All internal standard area responses for sample SS-UP-01 (6-12) were below QC limits. Similar results were obtained when the sample was reanalyzed (SS-UP-01 (6-12)RE). This is most likely due to a matrix effect. Positive results are considered estimated and flagged "J" while non-detects are flagged "UJ". Both analyses were performed within holding time with the reanalysis demonstrating a lesser deviation from QC criteria. The reanalysis results should therefore be used for sample SS-UP-01 (6-12).
- Sample SS-UP-01 (6-12) exhibited a percent recovery (% R) for the system monitoring compound (SMC) dibromofluoromethane below QC limits (72%; QC limit 80-120%). Sample SS-UP-01 (6-12) was reanalyzed (SS-UP-01 (6-12)RE) within the technical holding time and exhibited a % R above QC limits for SMC 4-bromofluorobenzene (138%; QC limit 74-121%). Both analyses exhibited internal standard

deficiencies as previously noted. Results from the reanalysis (RE) should be used. All positive results for sample SS-UP-01 (6-12) eluting near 4-bromofluorobenzene have been qualified as estimated based on a high bias and flagged "J". All non-detects are not qualified.

- The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL) or 25 percent difference (%D) between the initial calibration average response factor and the continuing calibration verification (CCV) response factor. Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate samples are flagged "UJ".

Calibration	Compound	Deficiency	Associated Samples
ICAL 08/06/99 13:41-16:40	acetone	%RSD=35.5	SS-UP-01 (6-12), SS-UP-02 (6-12)
ICAL 09/01/99 13:46-17:04	chloromethane carbon disulfide 1,1-dichloroethene	%RSD=53.1 %RSD=32.5 %RSD=39.1	TP-9 (0), TP-4 (10), MW-6, MW-7, TB 9/9/99
CCV 08/13/99 @ 15:49	bromomethane chloroethane acetone tetrachloroethene	%D=40.4 %D=26.1 %D=25.4 %D=31.6	SS-UP-01 (6-12), SS-UP-02 (6-12)
CCV 08/15/99 19:50	carbon tetrachloride	%D=26.4	SS-UP-01 (6-12)RE
CCV 09/02/99 @ 19:30	chloromethane	%D=42.9	TP-9 (0), TP-4 (10)

Semivolatiles

- The internal standard area response for perylene-d12 was below QC limits for sample TP-9 (0) (275357; QC lower limit of 559971). Similar results were obtained when the sample was reanalyzed, TP-9 (0)RE (237489). This is most likely due to a matrix effect. Results for compounds using perylene-d12 for quantitation are considered estimated and flagged "J". The initial analysis of sample TP-9 (0) should be used.

- The spike recovery of 1,2,4-trichlorobenzene (109%) was above QC limits in the MS/MSD analysis of sample SS-UP-02 (6-12) (QC limit of 38-107%) for both the MS and MSD. Results may possibly be biased high. Qualification of data is not performed based on MS/MSD results alone. A positive result for 1,2,4-trichlorobenzene in the unspiked sample will be qualified as estimated and flagged "J".
- The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL) or 25 percent difference (%D) between the initial calibration average response factor and the continuing calibration verification (CCV) response factor. Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate samples are flagged "UJ".

Calibration	Compound	Deficiency	Associated Samples
ICAL 09/22/99 15:35-18:50	hexachlorocyclopentadiene	%RSD=47.4	MW-6, MW-7
	2,4-dinitrophenol	%RSD=54.6	
	4,6-dinitro-2-methylphenol	%RSD=39.5	
	di-n-octylphthalate	%RSD=34.9	
CCV 08/19/99 09:24	1,2,4-trichlorobenzene	%D=39.3	SS-UP-01 (6-12)
	4-chloroaniline	%D=90.0	
	3-nitroaniline	%D=70.4	
	3,3'-dichlorobenzidine	%D=48.4	
	dibenz[a,h]anthracene	%D=39.8	
	benzo[g,h,i]perylene	%D=52.2	
CCV 08/31/99 10:01	hexachlorocyclopentadiene	%D=40.6	SS-UP-02 (6-12)
	3-nitroaniline	%D=38.8	
	4-nitroaniline	%D=28.0	
	dibenz[a,h]anthracene	%D=27.6	
CCV 09/22/99 @ 19:56	4,6-dinitro-2-methylphenol	%D=29.3	QC samples only
CCV 09/23/99 @ 13:11	2,4-dinitrophenol	%D=44.1	MW-6, MW-7
	4,6-dinitro-2-methylphenol	%D=28.6	
	benzo[g,h,i]perylene	%D=29.0	

Pesticides/PCBs

- The table below lists field samples that exhibited one or more surrogates outside of the advisory 60%-150% QC limits. Qualification of sample data due to surrogates outside of the advisory QC limits is limited to those samples that exhibit a surrogate outside of QC limits on both GC columns. No qualification of the data is required when surrogates are diluted out. If tetrachloro-m-xylene (TCX) is deficient, pesticide compounds are qualified. If decachlorobiphenyl (DCB) is deficient, PCB Aroclors and Toxaphene are qualified. High recoveries indicate potential high bias in sample results. Positive results only are qualified for high surrogate recoveries. Low recoveries indicate potential low bias. All results are qualified for low surrogate recovery. Positive results are flagged "J" and non-detects "UJ". Note: (-) indicates acceptable surrogate recovery, D indicates sample analyzed at an elevated dilution resulting in the surrogates being diluted out and I indicates interferences identified by the laboratory.

Sample ID	TCX %Recovery RTX-1701	TCX %Recovery RTX-5	DCB %Recovery RTX-1701	DCB %Recovery RTX-5
TP-9 (0)	-	154	214	226
TP-9 (0)DL	D	-	D	222
TP-4 (10)	-	157	223	281
TP-4 (10)DL	D	-	D	236
TP-4 (10)MS	-	-	171	248
TP-4 (10)MSD	-	-	305	299

- The MS/MSD analysis of sample TP-4 (10) indicated the spike recoveries of most compounds were not detectable due to the major Arochlor-1254 presence. Since the MS/MSD results are not used alone to qualify the entire data package, only positive results for these compounds in the unspiked are considered estimated and flagged "J".
- Samples TP-9 (0) and TP-4 (10) were reanalyzed at a 50 fold and 20 fold dilution respectively (indicated by a "DL" suffix) due to the concentration of Arochlor-1254 exceeding the linear calibration range of the instrument in the initial analysis. The laboratory has indicated this with an "E" qualifier on the data sheets (Form I). The secondary dilution analysis results should be used only for those compounds flagged with an "E" qualifier

on the initial analysis Form I. All other results should be used from the initial analyses.

Inorganics

The following items/criteria were reviewed:

- Case narrative and deliverable requirements
- Holding times
- Initial and continuing calibrations
- Lab blank results
- ICP interference check sample analysis
- CRDL standard analysis
- Post-Digestion spike sample analysis
- Laboratory control sample (LCS) results
- Detection limits

The items listed above have been judged to be in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have been evaluated according to the procedures outlined above and qualified accordingly.

Metals

- The ICP serial dilution analysis applicable to samples MW-6, MW-7, MW-8, MW-9, MW-10, MW-12, MW-13 and X-6 exhibited the following metals with percent difference results greater than 10% and initial sample concentrations greater than 50 times the IDL: potassium (10.9%) and sodium (11.5%). Positive results for these metals are considered estimated and flagged "J".
- The ICP serial dilution analysis applicable to samples MW-6-F, MW-7-F, MW-8-F, MW-9-F, MW-10-F, MW-12-F, MW-13-F and X-6-F exhibited the following metals with percent difference results greater than 10% and initial sample concentrations greater than 50 times the IDL: potassium (12.2%) and sodium (11.4%). Positive results for these metals are considered estimated and flagged "J".
- The ICP serial dilution analysis applicable to samples TP-9 (0) and TP-4 (10) exhibited the following metals with percent difference results greater than 10% and initial sample concentrations greater than 50 times the IDL: potassium (10.8%)

and sodium (12.9%). Positive results for these metals are considered estimated and flagged "J".

- The following table lists the maximum concentration of an analyte detected in a blank, the action level and the samples associated with that blank. Note that the action level is five times the **absolute value** of the highest associated blank concentration. Sample concentrations greater than the IDL and less than the action level are reported with a U. Sample concentrations greater than the IDL and greater than the action level are reported unqualified.

Blank	Metal	Concentration	Action Level	Associated Samples
CCV-10 (12956)	aluminum	4.62 ($\mu\text{g} / \text{kg}$)	23.1	SS-UP-01 (6-12), SS-UP-02 (6-12)
PB (13324)	aluminum	4.72 ($\mu\text{g} / \text{L}$)	23.6	MW-6, MW-7, MW-6-F, MW-7-F
CCV-11 (13183)	aluminum	9.04 ($\mu\text{g} / \text{kg}$)	45.2	TP-9 (0), TP-4 (10)
CCV-10 (12956)	antimony	2.62 ($\mu\text{g} / \text{kg}$)	13.1	SS-UP-01 (6-12), SS-UP-02 (6-12)
CCV-5 (13324)	antimony	5.2 ($\mu\text{g} / \text{L}$)	23.6	MW-6, MW-7
CCV-7 (13324)	antimony	5.2 ($\mu\text{g} / \text{L}$)	23.6	MW-6-F, MW-7-F
CCV-10 (12956)	beryllium	0.26 ($\mu\text{g} / \text{kg}$)	1.3	SS-UP-01 (6-12), SS-UP-02 (6-12)
CCV-10 (12956)	chromium	0.20 ($\mu\text{g} / \text{kg}$)	1.0	SS-UP-01 (6-12), SS-UP-02 (6-12)
CCV-10 (13183)	copper	0.52 ($\mu\text{g} / \text{kg}$)	2.6	TP-4 (10)
PB (13183)	copper	0.48 ($\mu\text{g} / \text{kg}$)	2.4	TP-9 (0)
CCV-10 (12956)	potassium	9.14 ($\mu\text{g} / \text{kg}$)	45.7	SS-UP-01 (6-12), SS-UP-02 (6-12)
CCV-10 (13183)	potassium	9.76 ($\mu\text{g} / \text{kg}$)	48.8	TP-4 (10)
PB (13183)	potassium	8.09 ($\mu\text{g} / \text{kg}$)	40.45	TP-9 (0)
CCV-10 (12956)	silver	0.34 ($\mu\text{g} / \text{kg}$)	1.7	SS-UP-01 (6-12), SS-UP-02 (6-12)
CCV-10 (12956)	sodium	9.48 ($\mu\text{g} / \text{kg}$)	47.4	SS-UP-01 (6-12), SS-UP-02 (6-12)

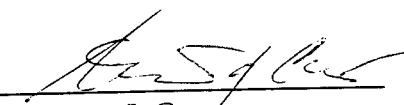
Blank	Metal	Concentration	Action Level	Associated Samples
CCV-7 (13324)	sodium	11.2 ($\mu\text{g} / \text{L}$)	56.0	MW-6-F, MW-7-F
CCV-10 (13183)	sodium	1.90 ($\mu\text{g} / \text{kg}$)	9.5	TP-4 (10)
CCV-11 (13183)	sodium	1.60 ($\mu\text{g} / \text{kg}$)	8.0	TP-9 (0)
CCV-10 (12956)	vanadium	0.42 ($\mu\text{g} / \text{kg}$)	2.1	SS-UP-01 (6-12), SS-UP-02 (6-12)

Note: ICB = initial calibration blank
CCB = continuing calibration blank
PB = preparation blank

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:


Andrew J. Coenen
Project Scientist

Dated: 12 January 2020

**Environmental
Resources
Management**

175 Froehlich Farm Blvd.
Woodbury, NY 11797
(516) 921-4300
(516) 921-5637 (Fax)

24 January 2000

Mr. Ed Fahrenkopf
Delaware Engineering, P.C.
28 Madison Avenue Extension
Albany, New York 12203



RE: C&D Technologies - Huguenot, New York
Data Usability Summary Report (DUSR) for
Chemtech Project Numbers 13941

Mr. Fahrenkopf,

Enclosed is your Chemtech data packages along with my Data Usability Summary Reports and the qualified Form I's. Thank you for the work. If you have any questions, comments or require additional information, please give me a call.

Sincerely,



Andrew J. Coenen

*DATA USABILITY SUMMARY REPORT (DUSR)
C&D TECHNOLOGIES
HUGUENOT, NEW YORK
CHEMTECH PROJECT NUMBER 13941*

Deliverables:

The above referenced data summary package and sample data package for eight soil samples contain all required deliverables as requested on the chain of custodies. The sample specific analyses performed included cadmium analysis by inductively coupled plasma atomic emission spectroscopy (ICP) USEPA method 6010B and Toxicity Characteristic Leaching Procedure (TCLP) analysis by USEPA method 1311 to include lead and cadmium analyzed by method 6010B. Analytical methods follow "*Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.*" The data have been evaluated according to the protocols and quality control (QC) requirements of the analytical methods, the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review (February 1994) and the reviewer's professional judgment.

This report pertains to the following samples:

Samples

TP-1 (12)-
TP-9 (10)-
TP-10 (6)-
TP-10 (10)-
TP-7 (12)-
TP-8 (12)-
TP-9 (0) >
TP-4 (10) -

Inorganics

The following items/criteria were reviewed:

- Case narrative and deliverable requirements
- Holding times and sample preservation
- Detection limits
- Inorganic analysis data sheets (Form I)
- Initial and continuing calibrations

- Lab blank results
- ICP interference check sample analysis
- Matrix spike analysis
- Post-Digestion spike sample analysis
- Lab duplicate analysis results
- Laboratory control sample (LCS) results
- ICP serial dilution analysis

The items listed above have been judged to be in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

Total Cadmium

No qualification of sample results is required.


TCLP Cadmium and Lead

No qualification of sample results is required.

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:


Andrew J. Coenen
Project Scientist

Dated: 24 January 2000

APPENDIX C-1

GROUND WATER DATA SHEETS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-6

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Project No.: 13324ASP Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O84075

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A8088.D

Level: (low/med) _____ Date Received: 9/10/99

% Moisture: not dec. 100 Date Analyzed: 9/13/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

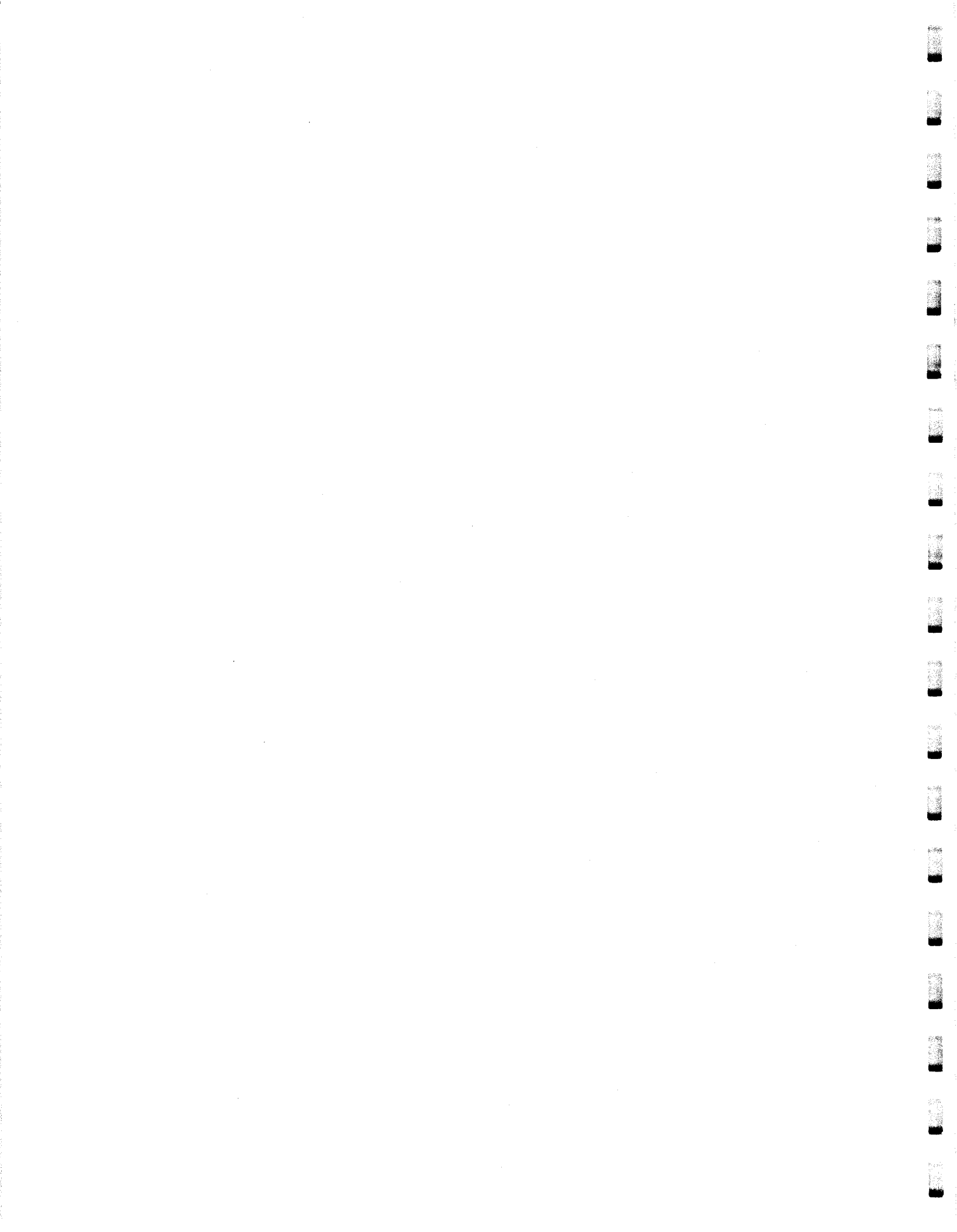
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Methylene Chloride	10		U
67-64-1	Acetone	10		U
75-15-0	Carbon Disulfide	10		U
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1,1-Dichloroethane	10		U
156-60-5	trans-1,2-Dichloroethene	10		U
156-59-4	cis-1,2-Dichloroethene	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Dibromochloromethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-88-3	Toluene	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U

55

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-6

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>DELAWARE ENGINEERING, P.C.</u>
Project No.:	<u>13324ASP</u>	Site:	Location:
Matrix: (soil/water)	<u>WATER</u>	Lab Sample ID:	<u>O84075</u>
Sample wt/vol:	<u>5.0</u> (g/mL) <u>ML</u>	Lab File ID:	<u>A8088.D</u>
Level: (low/med)	<u></u>	Date Received:	<u>9/10/99</u>
% Moisture: not dec.	<u>100</u>	Date Analyzed:	<u>9/13/99</u>
GC Column:	<u>RTX624</u>	ID:	<u>0.53</u> (mm)
Soil Extract Volume:	<u></u> (uL)	Soil Aliquot Volume:	<u></u> (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	<u>ug/L</u>	
1330-20-7	m+ p-Xylenes		10	U
95-47-6	o-xylene		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-6

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1332 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O84075
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A8088.D
 Level: (low/med) _____ Date Received: 9/10/99
 % Moisture: not dec. 100 Date Analyzed: 9/13/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
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9.				
10.				
11.				
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13.				
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26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-7

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Project No.: 13324ASP

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATER

Lab Sample ID: O84076

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

Lab File ID: A8089.D

Level: (low/med) _____

Date Received: 9/10/99

% Moisture: not dec. 100

Date Analyzed: 9/13/99

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
156-59-4	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-88-3	Toluene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-7

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Project No.: 13324ASP Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O84076

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A8089.D

Level: (low/med) _____ Date Received: 9/10/99

% Moisture: not dec. 100 Date Analyzed: 9/13/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
1330-20-7	m+ p-Xylenes	10		U
95-47-6	o-xylene	10		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-7

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1332 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O84076
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A8089.D
 Level: (low/med) _____ Date Received: 9/10/99
 % Moisture: not dec. 100 Date Analyzed: 9/13/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 0 (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.				
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26.				
27.				
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INORGANIC ANALYSIS DATA SHEET

MW-6

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13324

Matrix (soil/water): WATER

Lab Sample ID: 84075S

Level (low/med): LOW

Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	240	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	6.0	U		P
7440-39-3	Barium	13.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	8760			P
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	33.3			P
7439-89-6	Iron	663			P
7439-92-1	Lead	29.4			P
7439-95-4	Magnesium	2030	B		P
7439-96-5	Manganese	22.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.0	U		P
7440-09-7	Potassium	681	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	6390		E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	58.8			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MW-7

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13324

Matrix (soil/water): WATER

Lab Sample ID: 84076S

Level (low/med): LOW

Date Received: 09/10/99

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	332	-		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	6.0	U		P
7440-39-3	Barium	17.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	15500			P
7440-47-3	Chromium	1.3	B		P
7440-48-4	Cobalt	3.3	B		P
7440-50-8	Copper	43.9			P
7439-89-6	Iron	399			P
7439-92-1	Lead	15.4			P
7439-95-4	Magnesium	3060	B		P
7439-96-5	Manganese	6690			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.5	B		P
7440-09-7	Potassium	16300		J E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.1	B		P
7440-23-5	Sodium	13700		J E	P
7440-28-0	Thallium	7.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	71.5			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS

Clarity Before: CLOUDY

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

MW-8

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13324

Matrix (soil/water): WATER

Lab Sample ID: 84077S

Level (low/med): LOW

Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	26.7	B		P
7439-92-1	Lead	17.5			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MW-9

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84080S

Level (low/med): LOW Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	28.5	B		P
7439-92-1	Lead	20.5			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

MW-10

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13324

Matrix (soil/water): WATER

Lab Sample ID: 84081S

Level (low/med): LOW

Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	124	B		P
7439-92-1	Lead	13.1			P

Color Before: COLORLESS

Clarity Before: CLOUDY

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MW-12

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13324

Matrix (soil/water): WATER

Lab Sample ID: 84082S

Level (low/med): LOW

Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	56.8	B		P
7439-92-1	Lead	17.7			P

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

MW-13

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84083S

Level (low/med): LOW Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	24.7	B		P
7439-92-1	Lead	5.2			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

X-6

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84084S

Level (low/med): LOW Date Received: 09/10/99

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	17.7	B		P
7439-92-1	Lead	10.2			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

MW-6-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13324

Matrix (soil/water): WATER

Lab Sample ID: 84086S

Level (low/med): LOW

Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	10.7	B		P
7439-92-1	Lead	3.0	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DISSOLVED

INORGANIC ANALYSIS DATA SHEET

MW-7-F

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84087S

Level (low/med): LOW Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	6.2	B		P
7439-92-1	Lead	3.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:
 Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED

INORGANIC ANALYSIS DATA SHEET

MW-8-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13324

Matrix (soil/water): WATER

Lab Sample ID: 84088S

Level (low/med): LOW

Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	14.0	B		P
7439-92-1	Lead	3.0	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DISSOLVED

INORGANIC ANALYSIS DATA SHEET

MW-9-F

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84091S

Level (low/med): LOW Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	19.1	B		P
7439-92-1	Lead	3.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

MW-10-F

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84092S

Level (low/med): LOW Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	51.8	B		P
7439-92-1	Lead	3.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED

INORGANIC ANALYSIS DATA SHEET

MW-12-F

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84093S

Level (low/med): LOW Date Received: 09/10/99

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	18.4	B		P
7439-92-1	Lead	6.8			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

MW-13-F

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84094S

Level (low/med): LOW Date Received: 09/10/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	19.9	B		P
7439-92-1	Lead	3.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:
 Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

X-6-F

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324

Matrix (soil/water): WATER Lab Sample ID: 84095S

Level (low/med): LOW Date Received: 09/10/99

° Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	7.0	B		P
7439-92-1	Lead	4.4			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Lab Code: CHEM Case No.: 13324ASP SAS No.: _____ SDG No.: MW-6
 Matrix: (soil/water) WATER Lab Sample ID: O84075
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S21513.D
 Level: (low/med) _____ Date Received: 9/10/99
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 9/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/23/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol		10	U
111-44-4	bis(2-Chloroethyl)ether		10	U
95-57-8	2-Chlorophenol		10	U
95-50-1	1,2-Dichlorobenzene		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	Bis(2-chloroisopropyl)ether		10	U
106-44-5	3+4-Methyphenols		10	U
621-64-7	N-Nitroso-di-n-propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	bis(2-Chloroethoxy)methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

IC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13324ASP SAS No.: _____ SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: O84075

Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S21513.D

Level: (low/med) _____ Date Received: 9/10/99

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/12/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/23/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
51-28-5	2,4-Dinitrophenol		25	U
100-02-7	4-Nitrophenol		25	U
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	U
84-66-2	Diethylphthalate		1.3	J
7005-72-3	4-Chlorophenyl-phenylether		10	U
86-73-7	Fluorene		10	U
100-01-6	4-Nitroaniline		25	U
534-52-1	4,6-Dinitro-2-methylphenol		25	U
* 86-30-6	N-Nitrosodiphenylamine		10	U
101-55-3	4-Bromophenyl-phenylether		10	U
118-74-1	Hexachlorobenzene		10	U
87-86-5	Pentachlorophenol		25	U
85-01-8	Phenanthrene		10	U
120-12-7	Anthracene		10	U
86-74-8	Carbazole		10	U
84-74-2	Di-n-butylphthalate		10	U
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylphthalate		10	U
91-94-1	3,3'-Dichlorobenzidine		10	U
56-55-3	Benzo[a]anthracene		10	U
218-01-9	Chrysene		10	U
117-81-7	bis(2-Ethylhexyl)phthalate		10	U
117-84-0	Di-n-octylphthalate		10	U
205-99-2	Benzo[b]fluoranthene		10	U
207-08-9	Benzo[k]fluoranthene		10	U
50-32-8	Benzo[a]pyrene		10	U
193-39-5	Indeno[1,2,3-cd]pyrene		10	U
53-70-3	Dibenz[a,h]anthracene		10	U
191-24-2	Benzo[g,h,i]perylene		10	U

*Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-6

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHE Case No.: 13324AS SAS No.: _____ SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: O84075

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S21513.D

Level: (low/med) _____ Date Received: 9/10/99

% Moisture: 100 decanted: (Y/N) N Date Extracted: 9/12/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/23/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Concentration Units:

Number TICs found: 4 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1. 141-79-7	3-Penten-2-one, 4-methyl-	2.38	39	J
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.21	84	J
3. 109-21-7	Butanoic acid, butyl ester	13.93	5.6	J
4.	Butyl hexadecanoate	25.11	2.4	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13324ASP SAS No.: _____ SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: O84076

Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S21514.D

Level: (low/med) _____ Date Received: 9/10/99

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/12/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/23/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
108-95-2	Phenol		10	U
111-44-4	bis(2-Chloroethyl)ether		10	U
95-57-8	2-Chlorophenol		10	U
95-50-1	1,2-Dichlorobenzene		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	Bis(2-chloroisopropyl)ether		10	U
106-44-5	3+4-Methyphenols		10	U
621-64-7	N-Nitroso-di-n-propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	bis(2-Chloroethoxy)methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13324ASP SAS No.: _____ SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: O84076

Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S21514.D

Level: (low/med) _____ Date Received: 9/10/99

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/12/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/23/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Concentration Units:

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

*Cannot be separated from Diphenylamine

IF
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-7

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Lab Code: CHE Case No.: 13324AS SAS No.: _____ SDG No.: MW-6
 Matrix: (soil/water) WATER Lab Sample ID: O84076
 Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S21514.D
 Level: (low/med) _____ Date Received: 9/10/99
 % Moisture: 100 decanted: (Y/N) N Date Extracted: 9/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/23/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____
 Number TICs found: 6 Concentration Units: _____
 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.19	75	J
2. 74367-33-2	Propanoic acid, 2-methyl-, 2	13.53	2.7	J
3. 2639-63-6	Butanoic acid, hexyl ester	13.92	5.7	J
4.	Butyl hexadecanoate	25.10	3	J
5. 123-95-5	Octadecanoic acid, butyl est	27.28	2.5	J
6. 629-99-2	Pentacosane	28.40	5.3	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-9 0

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13183ASP SAS No.: _____ SDG No.: TP-8(4)

Matrix: (soil/water) SOIL Lab Sample ID: O83051

Sample wt/vol: 30.0 (g/mL G) Lab File ID: S21341.D

Level: (low/med) LOW Date Received: 8/26/99

% Moisture: 54 decanted: (Y/N): N Date Extracted: 8/27/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 9/15/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

JSE
fresh
results

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/Kg
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)ether	720	U
95-57-8	2-Chlorophenol	720	U
95-50-1	1,2-Dichlorobenzene	720	U
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
95-48-7	2-Methylphenol	720	U
108-60-1	Bis(2-chloroisopropyl)ether	720	U
106-44-5	3+4-Methyphenols	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
111-91-1	bis(2-Chloroethoxy)methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U
91-20-3	Naphthalene	720	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-57-6	2-Methylnaphthalene	720	U
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	720	U
208-96-8	Acenaphthylene	720	U
606-20-2	2,6-Dinitrotoluene	720	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	720	U

JSE
3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: CHEMTECH CONSULTING GRUP. Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324PP

Matrix: (soil/water) WATER Lab Sample ID: 84075

Sample wt/vol: 1000 (g/ml) ML Lab File ID: _____

Moisture: decanted: (Y/N) Date received: 09/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/12/99

Concentrated Extract Volume: 10000 (uL) Date analyzed: 09/20/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

EPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: CHEMTECH CONSULTING GRUP. Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13324PP

Matrix: (soil/water) WATER Lab Sample ID: 84076

Sample wt/vol: 1000 (g/ml) ML Lab File ID: _____

% Moisture: decanted: (Y/N) Date received: 09/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/12/99

Concentrated Extract Volume: 10000 (uL) Date analyzed: 09/20/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

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

319-84-6-----alpha-BHC	0.050	U
319-85-7-----beta-BHC	0.050	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
76-44-8-----Heptachlor	0.050	U
309-00-2-----Aldrin	0.050	U
1024-57-3-----Heptachlor epoxide	0.050	U
959-98-8-----Endosulfan I	0.050	U
60-57-1-----Dieldrin	0.10	U
72-55-9-----4,4'-DDE	0.10	U
72-20-8-----Endrin	0.10	U
33213-65-9-----Endosulfan II	0.10	U
72-54-8-----4,4'-DDD	0.10	U
1031-07-8-----Endosulfan sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.50	U
53494-70-5-----Endrin ketone	0.10	U
7421-36-3-----Endrin aldehyde	0.10	U
5103-71-9-----alpha-Chlordane	0.050	U
5103-74-2-----gamma-Chlordane	0.050	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

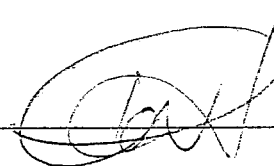
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DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-6
TIME SAMPLED- 1315 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT	UNITS
	METHOD	DATE	TIME	BY		
FLUORIDE	EPA 340.2	09/15/99		SPS	0.319	mg/L

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

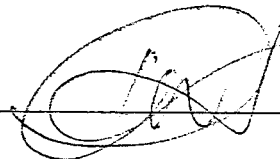
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DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-7
TIME SAMPLED- 1431 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
FLUORIDE . .	EPA 340.2	09/15/99		SPS	10.9 mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

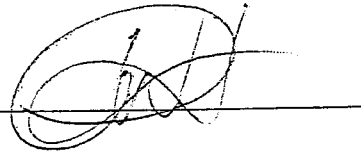
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DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-8
TIME SAMPLED- 1506 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT	UNITS
	METHOD	DATE	TIME	BY		
FLUORIDE	EPA 340.2	09/15/99		SPS	5.35	mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

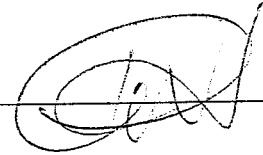
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DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-9
TIME SAMPLED- .1538 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
FLUORIDE	EPA 340.2	09/15/99		SPS	6.49 mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

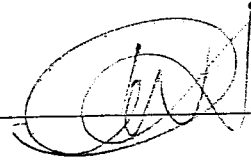
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DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-10
TIME SAMPLED- 1607 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS			RESULT	UNITS
	METHOD	DATE	TIME BY		
FLUORIDE	EPA 340.2	09/15/99	SPS	3.34	mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

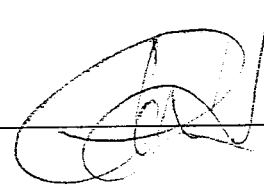
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DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-12
TIME SAMPLED- 1035 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
FLUORIDE	EPA 340.2	09/15/99		SPS	0.521 mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

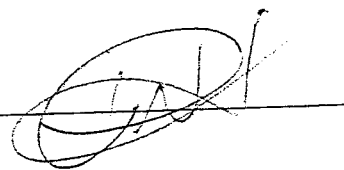
SAMPLE NUMBER- 84083
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-13
TIME SAMPLED- 1156 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
FLUORIDE	EPA 340.2	09/15/99		SPS	0.642	mg/L

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

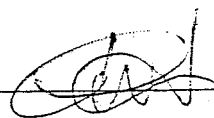
SAMPLE NUMBER- 84084
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- X-6
SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
FLUORIDE --	EPA 340.2	09/15/99		SPS	10.7 mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

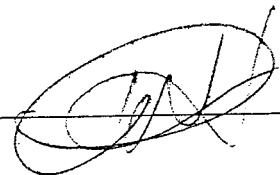
SAMPLE NUMBER- 84086
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-6-F
TIME SAMPLED- 1315 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS			RESULT UNITS
	METHOD	DATE	TIME BY	
FLUORIDE	EPA 340.2	09/15/99	SPS	0.264 mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

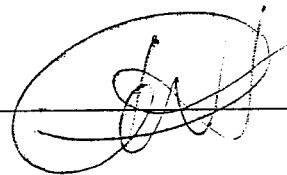
SAMPLE NUMBER- 84087
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-7-F
TIME SAMPLED- 1431 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT	UNITS
	METHOD	DATE	TIME	BY		
FLUORIDE	EPA 340.2	09/15/99		SPS	10.8	mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

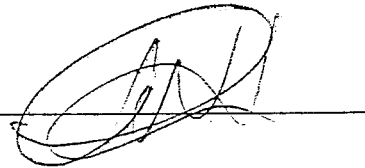
SAMPLE NUMBER- 84088
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-8-F
TIME SAMPLED- 1506 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT	UNITS
	METHOD	DATE	TIME	BY		
FLUORIDE	EPA 340.2	09/15/99	SPS		5.12	mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

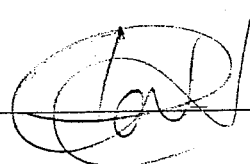
SAMPLE NUMBER- 84091
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-9-F
TIME SAMPLED- 1538 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS			RESULT UNITS
	METHOD	DATE	TIME BY	
FLUORIDE	EPA 340.2	09/15/99	SPS	6.39 mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

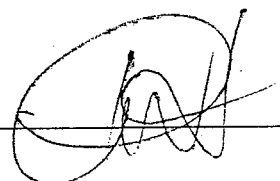
SAMPLE NUMBER- 84092
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-10-F
TIME SAMPLED- 1607 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT	UNITS
	METHOD	DATE	TIME	BY		
FLUORIDE	EPA 340.2	09/15/99	--	SPS	3.32	mg/L

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

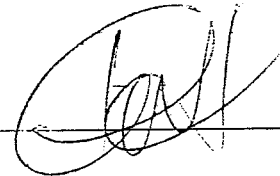
PROJECT # 13324 ASP

SAMPLE NUMBER- 84093 SAMPLE ID- MW-12-F
DATE SAMPLED- 09/09/99 TIME SAMPLED- 1035 SAMPLER- CLIENT
DATE RECEIVED- 09/10/99 TIME RECEIVED- 1130
DELIVERED BY- IMPULSE RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
FLUORIDE	EPA 340.2	09/15/99		SPS	0.501 mg/L

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

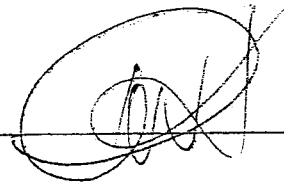
SAMPLE NUMBER- 84094
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- MW-13-F
TIME SAMPLED- 1156 SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT	UNITS
	METHOD	DATE	TIME	BY		
FLUORIDE	EPA 340.2	09/15/99		SPS	0.636	mg/L

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/23/99

PROJECT # 13324 ASP

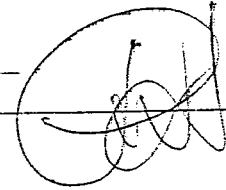
SAMPLE NUMBER- 84095
DATE SAMPLED- 09/09/99
DATE RECEIVED- 09/10/99
DELIVERED BY- IMPULSE

SAMPLE ID- X-6-F
SAMPLER- CLIENT
TIME RECEIVED- 1130
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

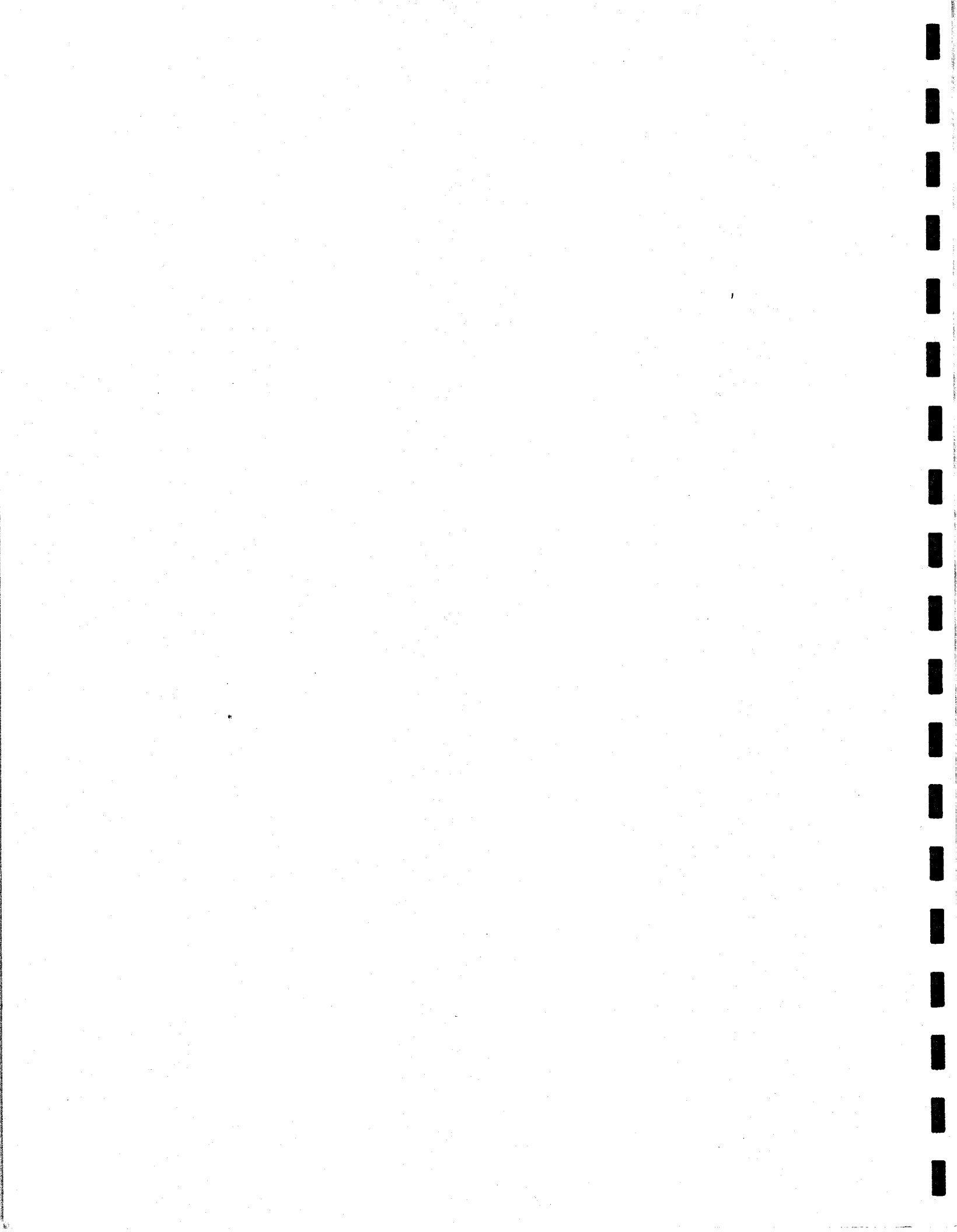
ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
FLUORIDE	EPA 340.2	09/15/99		SPS	10.3 mg/L

LABORATORY DIRECTOR



APPENDIX C-2

TEST PIT DATA SHEETS



INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-1(12)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13941

Matrix (soil/water): SOIL Lab Sample ID. 89277S

Level (low/med): LOW Date Received: 10/28/99

% Solids: 88.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	600			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

000005

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-9(10)

Lab Name: CHEMTECH CONSULTING GROUP Contract:
Lab Code: CHEM Case No.: SAS No.: SDG No.: 13941
Matrix (soil/water): SOIL Lab Sample ID: 89278S
Level (low/med): LOW Date Received: 10/28/99
% Solids: 83.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	207			P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

000006

INORGANIC ANALYSIS DATA SHEET

TP-10(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13941

Matrix (soil/water): SOIL

Lab Sample ID: 89279S

Level (low/med): LOW

Date Received: 10/28/99

% Solids: 87.6

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

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1060			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

000007

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-10(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13941

Matrix (soil/water): SOIL

Lab Sample ID: 89280S

Level (low/med): LOW

Date Received: 10/28/99

% Solids: 86.5

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

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	805			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-7(12)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13941

Matrix (soil/water): SOIL Lab Sample ID: 89281S

Level (low/med): LOW Date Received: 10/28/99

% Solids: 91.6

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

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	354			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

000009

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TF-8(12)

Lab Name: CHEMTECH CONSULTING GROUP Contract:
Lab Code: CHEM Case No.: SAS No.: SDG No.: 13941
Matrix (soil/water): SOIL Lab Sample ID: 89282S
Level (low/med): LOW Date Received: 10/28/99
% Solids: 93.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1350			P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

ANALYSIS REPORT

1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-1(12)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13941T

Matrix (soil/water): SOIL Lab Sample ID: 89277TS

Level (low/med): LOW Date Received: 10/28/99

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2080	-		P
7440-43-9	Cadmium	2580			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: TCLPEXTRACT

ANALYSIS REPORT

1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-9(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13941T

Matrix (soil/water): SOIL

Lab Sample ID: 89278TS

Level (low/med): LOW

Date Received: 10/28/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	27.5			P
7440-43-9	Cadmium	656			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

TCLPEXTRACT

000007

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

TP-10(6)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13941T

Matrix (soil/water): SOIL Lab Sample ID: 89279TS

Level (low/med): LOW Date Received: 10/28/99

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	293			P
7440-43-9	Cadmium	1280			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
TCLPEXTRACT

000008

ANALYSIS REPORT

1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-10(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13941T

Matrix (soil/water): SOIL

Lab Sample ID: 89280TS

Level (low/med): LOW

Date Received: 10/28/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	25.7			P
7440-43-9	Cadmium	307			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

TCLPEXTRACT

000009

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

TP-7(12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13941T

Matrix (soil/water): SOIL

Lab Sample ID: 89281TS

Level (low/med): LOW

Date Received: 10/28/99

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	35.8			P
7440-43-9	Cadmium	608			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

TCLPEXTRACT

ANALYSIS REPORT

1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-8 (12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13941T

Matrix (soil/water): SOIL

Lab Sample ID: 89282TS

Level (low/med): LOW

Date Received: 10/28/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	120			P
7440-43-9	Cadmium	4070			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

TCLPEXTRACT

000011

ANALYSIS REPORT

1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-9(0)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13941T

Matrix (soil/water): SOIL Lab Sample ID: 89283TS

Level (low/med): LOW Date Received: 10/28/99

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	405			P
7440-43-9	Cadmium	40000			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: TCLPEXTRACT

000012

ANALYSIS REPORT

1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-4(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13941T

Matrix (soil/water): SOIL

Lab Sample ID: 89284TS

Level (low/med): LOW

Date Received: 10/28/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	5460			P
7440-43-9	Cadmium	3760			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

TCLPEXTRACT

000013

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB9/9/99

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No.: 13324ASP Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O84085
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A8087.D
 Level: (low/med) _____ Date Received: 9/10/99
 % Moisture: not dec. 100 Date Analyzed: 9/13/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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	10		U
67-64-1	Acetone	10		U
75-15-0	Carbon Disulfide	10		U
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1,1-Dichloroethane	10		U
156-60-5	trans-1,2-Dichloroethene	10		U
156-59-4	cis-1,2-Dichloroethene	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Dibromochloromethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-88-3	Toluene	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB9/9/99

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
Project No.: 13324ASP Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O84085
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A8087.D
Level: (low/med) _____ Date Received: 9/10/99
% Moisture: not dec. 100 Date Analyzed: 9/13/99
GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	Q
1330-20-7	m + p-Xylenes	10	U
95-47-6	o-xylene	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB9/9/99

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1332 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O84085
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A8087.D
 Level: (low/med) _____ Date Received: 9/10/99
 % Moisture: not dec. 100 Date Analyzed: 9/13/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TP-9(0)

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Project No.: 13183ASP Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: O83051

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A7954.D

Level: (low/med) LOW Date Received: 8/26/99

% Moisture: not dec. 54 Date Analyzed: 9/2/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane	22		U
74-83-9	Bromomethane	22		U
75-01-4	Vinyl Chloride	22		U
75-00-3	Chloroethane	22		U
75-09-2	Methylene Chloride	7.4		J
67-64-1	Acetone	22		U
75-15-0	Carbon Disulfide	22		U
75-35-4	1,1-Dichloroethene	22		U
75-34-3	1,1-Dichloroethane	22		U
156-60-5	trans-1,2-Dichloroethene	22		U
156-59-4	cis-1,2-Dichloroethene	22		U
67-66-3	Chloroform	22		U
107-06-2	1,2-Dichloroethane	22		U
78-93-3	2-Butanone	22		U
71-55-6	1,1,1-Trichloroethane	22		U
56-23-5	Carbon Tetrachloride	22		U
75-27-4	Bromodichloromethane	22		U
78-87-5	1,2-Dichloropropane	22		U
10061-01-5	cis-1,3-Dichloropropene	22		U
79-01-6	Trichloroethene	22		U
124-48-1	Dibromochloromethane	22		U
79-00-5	1,1,2-Trichloroethane	22		U
71-43-2	Benzene	22		U
10061-02-6	trans-1,3-Dichloropropene	22		U
75-25-2	Bromoform	22		U
108-10-1	4-Methyl-2-Pentanone	22		U
591-78-6	2-Hexanone	22		U
127-18-4	Tetrachloroethene	22		U
79-34-5	1,1,2,2-Tetrachloroethane	22		U
108-88-3	Toluene	22		U
108-90-7	Chlorobenzene	22		U
100-41-4	Ethylbenzene	22		U
100-42-5	Styrene	22		U

J
J
J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TP-9(0)

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1318 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) SOIL Lab Sample ID: O83051
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: A7954.D
 Level: (low/med) LOW Date Received: 8/26/99
 % Moisture: not dec. 54 Date Analyzed: 9/2/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TP-4(10)

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Project No.: 13183ASP

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) SOIL

Lab Sample ID: O83052

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

Lab File ID: A7955.D

Level: (low/med) LOW

Date Received: 8/26/99

% Moisture: not dec. 23

Date Analyzed: 9/2/99

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane		13	U
74-83-9	Bromomethane		13	U
75-01-4	Vinyl Chloride		13	U
75-00-3	Chloroethane		13	U
75-09-2	Methylene Chloride		13	U
67-64-1	Acetone		13	U
75-15-0	Carbon Disulfide		13	U
75-35-4	1,1-Dichloroethene		13	U
75-34-3	1,1-Dichloroethane		13	U
156-60-5	trans-1,2-Dichloroethene		13	U
156-59-4	cis-1,2-Dichloroethene		13	U
67-66-3	Chloroform		13	U
107-06-2	1,2-Dichloroethane		13	U
78-93-3	2-Butanone		13	U
71-55-6	1,1,1-Trichloroethane		13	U
56-23-5	Carbon Tetrachloride		13	U
75-27-4	Bromodichloromethane		13	U
78-87-5	1,2-Dichloropropane		13	U
10061-01-5	cis-1,3-Dichloropropene		13	U
79-01-6	Trichloroethene		13	U
124-48-1	Dibromochloromethane		13	U
79-00-5	1,1,2-Trichloroethane		13	U
71-43-2	Benzene		13	U
10061-02-6	trans-1,3-Dichloropropene		13	U
75-25-2	Bromoform		13	U
108-10-1	4-Methyl-2-Pentanone		13	U
591-78-6	2-Hexanone		13	U
127-18-4	Tetrachloroethene		13	U
79-34-5	1,1,2,2-Tetrachloroethane		13	U
108-88-3	Toluene		13	U
108-90-7	Chlorobenzene		13	U
100-41-4	Ethylbenzene		13	U
100-42-5	Styrene		13	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TP-4(10)

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No.: 13183ASP Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) SOIL Lab Sample ID: O83052
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: A7955.D
 Level: (low/med) LOW Date Received: 8/26/99
 % Moisture: not dec. 23 Date Analyzed: 9/2/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
1330-20-7	m + p-Xylenes	13		U
95-47-6	o-xylene	13		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TP-4(10)

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1318 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) SOIL Lab Sample ID: O83052
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: A7955.D
 Level: (low/med) LOW Date Received: 8/26/99
 % Moisture: not dec. 23 Date Analyzed: 9/2/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-90

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13183ASP

SAS No.: _____ SDG No.: TP-8(4)

Matrix: (soil/water) SOIL

Lab Sample ID: O83051

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

Lab File ID: S21341.D

Level: (low/med) LOW

Date Received: 8/26/99

% Moisture: 54 decanted: (Y/N): N

Date Extracted: 8/27/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 9/15/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/Kg	Q
51-28-5	2,4-Dinitrophenol		1700	U
100-02-7	4-Nitrophenol		1700	U
132-64-9	Dibenzofuran		720	U
121-14-2	2,4-Dinitrotoluene		720	U
84-66-2	Diethylphthalate		720	U
7005-72-3	4-Chlorophenyl-phenylether		720	U
86-73-7	Fluorene		720	U
100-01-6	4-Nitroaniline		1700	U
534-52-1	4,6-Dinitro-2-methylphenol		1700	U
*86-30-6	N-Nitrosodiphenylamine		720	U
101-55-3	4-Bromophenyl-phenylether		720	U
118-74-1	Hexachlorobenzene		720	U
87-86-5	Pentachlorophenol		1700	U
85-01-8	Phenanthrene		720	U
120-12-7	Anthracene		720	U
86-74-8	Carbazole		720	U
84-74-2	Di-n-butylphthalate		450	J
206-44-0	Fluoranthene		720	U
129-00-0	Pyrene		720	U
85-68-7	Butylbenzylphthalate		720	U
91-94-1	3,3'-Dichlorobenzidine		720	U
56-55-3	Benzo[a]anthracene		720	U
218-01-9	Chrysene		720	U
117-81-7	bis(2-Ethylhexyl)phthalate		790	
117-84-0	Di-n-octylphthalate		720	U
205-99-2	Benzo[b]fluoranthene		720	U
207-08-9	Benzo[k]fluoranthene		720	U
50-32-8	Benzo[a]pyrene		720	U
193-39-5	Indeno[1,2,3-cd]pyrene		720	U
53-70-3	Dibenz[a,h]anthracene		720	U
191-24-2	Benzo[g,h,i]perylene		720	U

*Cannot be separated from Diphenylamine

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-9 0

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Lab Code: CHE Case No.: 13183AS SAS No.: _____ SDG No.: TP-8(4)
 Matrix: (soil/water) SOIL Lab Sample ID: O83051
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S21341.D
 Level: (low/med) LOW Date Received: 8/26/99
 % Moisture: 54 decanted: (Y/N) N Date Extracted: 8/27/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 9/15/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____

JSL
free
12/17

Concentration Units:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 20

CAS Number	Compound Name	RT	Est. Conc	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.38	2500	J
2. 97-88-1	2-Propenoic acid, 2-methyl,	5.55	1500	J
3. 74367-33-2	Propanoic acid, 2-methyl-, 2	13.86	1100	J
4. 109-21-7	Butanoic acid, butyl ester	14.25	1100	J
5. 52663-59-9	1,1'-Biphenyl, 2,2',3,4-tetr	22.70	4000	J
6.	Unknown	22.81	830	J
7.	Unknown	23.21	2000	J
8.	Unknown	23.52	650	J
9.	Unknown	24.24	2200	J
10.	Unknown	24.33	4300	J
11.	Unknown	24.47	900	J
12.	Unknown	24.83	640	J
13.	Unknown	24.91	1500	J
14.	Unknown	25.41	630	J
15.	Unknown	25.54	960	J
16.	Unknown	25.81	1600	J
17.	Unknown	26.35	1000	J
18.	Unknown	26.46	1100	J
19.	Unknown	26.97	1300	J
20.	Unknown	27.61	1400	J
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3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-9 ORE

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13183ASP

SAS No.: _____ SDG No.: TP-8(4)

Matrix: (soil/water) SOIL

Lab Sample ID: O83051RE

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

Lab File ID: S21345.D

Level: (low/med) LOW

Date Received: 8/26/99

% Moisture: 54 decanted: (Y/N): N

Date Extracted: 8/27/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 9/15/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Concentration Units:

(ug/L or ug/Kg) ug/Kg *analysis results*

CAS No.	Compound	(ug/L or ug/Kg)	ug/Kg	Q
108-95-2	Phenol	720	720	U
111-44-4	bis(2-Chloroethyl)ether	720	720	U
95-57-8	2-Chlorophenol	720	720	U
95-50-1	1,2-Dichlorobenzene	720	720	U
541-73-1	1,3-Dichlorobenzene	720	720	U
106-46-7	1,4-Dichlorobenzene	720	720	U
95-48-7	2-Methylphenol	720	720	U
108-60-1	Bis(2-chloroisopropyl)ether	720	720	U
106-44-5	3+4-Methyphenols	720	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	720	U
67-72-1	Hexachloroethane	720	720	U
98-95-3	Nitrobenzene	720	720	U
78-59-1	Isophorone	720	720	U
88-75-5	2-Nitrophenol	720	720	U
105-67-9	2,4-Dimethylphenol	720	720	U
111-91-1	bis(2-Chloroethoxy)methane	720	720	U
120-83-2	2,4-Dichlorophenol	720	720	U
120-82-1	1,2,4-Trichlorobenzene	720	720	U
91-20-3	Naphthalene	720	720	U
106-47-8	4-Chloroaniline	720	720	U
87-68-3	Hexachlorobutadiene	720	720	U
59-50-7	4-Chloro-3-methylphenol	720	720	U
91-57-6	2-Methylnaphthalene	720	720	U
77-47-4	Hexachlorocyclopentadiene	720	720	U
88-06-2	2,4,6-Trichlorophenol	720	720	U
95-95-4	2,4,5-Trichlorophenol	1700	1700	U
91-58-7	2-Chloronaphthalene	720	720	U
88-74-4	2-Nitroaniline	1700	1700	U
131-11-3	Dimethylphthalate	720	720	U
208-96-8	Acenaphthylene	720	720	U
606-20-2	2,6-Dinitrotoluene	720	720	U
99-09-2	3-Nitroaniline	1700	1700	U
83/32-9	Acenaphthene	720	720	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-9 ORE

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Lab Code: CHEM Case No.: 13183ASP SAS No.: _____ SDG No.: TP-8(4)
 Matrix: (soil/water) SOIL Lab Sample ID: O83051RE
 Sample wt/vol: 30.0 (g/mL G) Lab File ID: S21345.D
 Level: (low/med) LOW Date Received: 8/26/99
 % Moisture: 54 decanted: (Y/N): N Date Extracted: 8/27/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 9/15/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/Kg	Q
51-28-5	2,4-Dinitrophenol	1700		U
100-02-7	4-Nitrophenol	1700		U
132-64-9	Dibenzofuran	720		U
121-14-2	2,4-Dinitrotoluene	720		U
84-66-2	Diethylphthalate	720		U
7005-72-3	4-Chlorophenyl-phenylether	720		U
86-73-7	Fluorene	720		U
100-01-6	4-Nitroaniline	1700		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
*86-30-6	N-Nitrosodiphenylamine	720		U
101-55-3	4-Bromophenyl-phenylether	720		U
118-74-1	Hexachlorobenzene	720		U
87-86-5	Pentachlorophenol	1700		U
85-01-8	Phenanthrene	720		U
120-12-7	Anthracene	720		U
86-74-8	Carbazole	720		U
84-74-2	Di-n-butylphthalate	420		J
206-44-0	Fluoranthene	720		U
129-00-0	Pyrene	720		U
85-68-7	Butylbenzylphthalate	720		U
91-94-1	3,3'-Dichlorobenzidine	720		U
56-55-3	Benzo[a]anthracene	720		U
218-01-9	Chrysene	720		U
117-81-7	bis(2-Ethylhexyl)phthalate	840		
117-84-0	Di-n-octylphthalate	720		U
205-99-2	Benzo[b]fluoranthene	720		U
207-08-9	Benzo[k]fluoranthene	720		U
50-32-8	Benzo[a]pyrene	720		U
193-39-5	Indeno[1,2,3-cd]pyrene	720		U
53-70-3	Dibenz[a,h]anthracene	720		U
191-24-2	Benzo[g,h,i]perylene	720		U

*Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-9 ORE

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Lab Code: CHE Case No.: 13183AS SAS No.: _____ SDG No.: TP-8(4)
 Matrix: (soil/water) SOIL Lab Sample ID: O83051RE
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S21345.D
 Level: (low/med) LOW Date Received: 8/26/99
 % Moisture: 54 decanted: (Y/N) N Date Extracted: 8/27/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 9/15/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____
 Number TICs found: 20 Concentration Units: ug/Kg
 (ug/L or ug/Kg) ug/Kg

initial analysis results

CAS Number	Compound Name	RT	Est. Conc	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.38	2800	J
2. 97-88-1	2-Propenoic acid, 2-methyl-,	5.55	1900	J
3. 74367-33-2	Propanoic acid, 2-methyl-, 2	13.86	1100	J
4. 109-21-7	Butanoic acid, butyl ester	14.25	1100	J
5. 52663-58-8	1,1'-Biphenyl, 2,3,4',6-tetr	22.71	3800	J
6.	Unknown	22.81	790	J
7.	Unknown	23.22	1800	J
8.	Unknown	24.25	2200	J
9.	Unknown	24.34	3800	J
10.	Unknown	24.46	910	J
11.	Unknown	24.74	680	J
12.	Unknown	24.83	700	J
13.	Unknown	24.92	1500	J
14.	Unknown	25.42	700	J
15.	Unknown	25.55	970	J
16.	Unknown	25.82	1600	J
17.	Unknown	26.36	990	J
18.	Unknown	26.47	1200	J
19.	Unknown	26.98	1300	J
20.	Unknown	27.63	1400	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-4 10

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13183ASP SAS No.: _____ SDG No.: TP-8(4)

Matrix: (soil/water) SOIL Lab Sample ID: O83052

Sample wt/vol: 30.0 (g/mL G) Lab File ID: S21342.D

Level: (low/med) LOW Date Received: 8/26/99

% Moisture: 23 decanted: (Y/N): N Date Extracted: 8/27/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 9/15/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
108-95-2	Phenol	430		U
111-44-4	bis(2-Chloroethyl)ether	430		U
95-57-8	2-Chlorophenol	430		U
95-50-1	1,2-Dichlorobenzene	430		U
541-73-1	1,3-Dichlorobenzene	430		U
106-46-7	1,4-Dichlorobenzene	430		U
95-48-7	2-Methylphenol	430		U
108-60-1	Bis(2-chloroisopropyl)ether	430		U
106-44-5	3+4-Methyphenols	430		U
621-64-7	N-Nitroso-di-n-propylamine	430		U
67-72-1	Hexachloroethane	430		U
98-95-3	Nitrobenzene	430		U
78-59-1	Isophorone	430		U
88-75-5	2-Nitrophenol	430		U
105-67-9	2,4-Dimethylphenol	430		U
111-91-1	bis(2-Chloroethoxy)methane	430		U
120-83-2	2,4-Dichlorophenol	430		U
120-82-1	1,2,4-Trichlorobenzene	430		U
91-20-3	Naphthalene	430		U
106-47-8	4-Chloroaniline	430		U
87-68-3	Hexachlorobutadiene	430		U
59-50-7	4-Chloro-3-methylphenol	430		U
91-57-6	2-Methylnaphthalene	430		U
77-47-4	Hexachlorocyclopentadiene	430		U
88-06-2	2,4,6-Trichlorophenol	430		U
95-95-4	2,4,5-Trichlorophenol	1000		U
91-58-7	2-Chloronaphthalene	430		U
88-74-4	2-Nitroaniline	1000		U
131-11-3	Dimethylphthalate	430		U
208-96-8	Acenaphthylene	430		U
606-20-2	2,6-Dinitrotoluene	430		U
99-09-2	3-Nitroaniline	1000		U
83-32-9	Acenaphthene	430		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-4 10

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Lab Code: CHEM Case No.: 13183ASP

SAS No.: _____ SDG No.: TP-8(4)

Matrix: (soil/water) SOIL

Lab Sample ID: O83052

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

Lab File ID: S21342.D

Level: (low/med) LOW

Date Received: 8/26/99

% Moisture: 23 decanted: (Y/N): N

Date Extracted: 8/27/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 9/15/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/Kg	Q
51-28-5	2,4-Dinitrophenol		1000	U
100-02-7	4-Nitrophenol		1000	U
132-64-9	Dibenzofuran		430	U
121-14-2	2,4-Dinitrotoluene		430	U
84-66-2	Diethylphthalate		430	U
7005-72-3	4-Chlorophenyl-phenylether		430	U
86-73-7	Fluorene		430	U
100-01-6	4-Nitroaniline		1000	U
534-52-1	4,6-Dinitro-2-methylphenol		1000	U
*86-30-6	N-Nitrosodiphenylamine		430	U
101-55-3	4-Bromophenyl-phenylether		430	U
118-74-1	Hexachlorobenzene		430	U
87-86-5	Pentachlorophenol		1000	U
85-01-8	Phenanthrene		300	J
120-12-7	Anthracene		83	J
86-74-8	Carbazole		430	U
84-74-2	Di-n-butylphthalate		430	U
206-44-0	Fluoranthene		330	J
129-00-0	Pyrene		270	J
85-68-7	Butylbenzylphthalate		430	U
91-94-1	3,3'-Dichlorobenzidine		430	U
56-55-3	Benzo[a]anthracene		120	J
218-01-9	Chrysene		150	J
117-81-7	bis(2-Ethylhexyl)phthalate		430	U
117-84-0	Di-n-octylphthalate		430	U
205-99-2	Benzo[b]fluoranthene		110	J
207-08-9	Benzo[k]fluoranthene		110	J
50-32-8	Benzo[a]pyrene		100	J
193-39-5	Indeno[1,2,3-cd]pyrene		49	J
53-70-3	Dibenz[a,h]anthracene		430	U
191-24-2	Benzo[g,h,i]perylene		49	J

*Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-4 10

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Lab Code: CHE Case No.: 13183AS SAS No.: _____ SDG No.: TP-8(4)
 Matrix: (soil/water) SOIL Lab Sample ID: O83052
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S21342.D
 Level: (low/med) LOW Date Received: 8/26/99
 % Moisture: 23 decanted: (Y/N) N Date Extracted: 8/27/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 9/15/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____
 Number TICs found: 20 Concentration Units: _____
 (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.43	1200	J
2. 97-88-1	2-Propenoic acid, 2-methyl-,	5.59	220	J
3. 74367-33-2	Propanoic acid, 2-methyl-, 2	13.86	220	J
4. 109-21-7	Butanoic acid, butyl ester	14.24	320	J
5. 32598-11-1	1,1'-Biphenyl, 2,3',4',5-tet	22.69	270	J
6.	Unknown	23.21	130	J
7.	Unknown	24.28	390	J
8.	Unknown	24.98	130	J
9.	Unknown	25.51	180	J
10.	Unknown	25.76	330	J
11.	Unknown	26.31	210	J
12.	Unknown	26.39	270	J
13.	Unknown	26.89	200	J
14.	Unknown	27.55	330	J
15.	Unknown	28.78	210	J
16.	Unknown	31.91	210	J
17.	Unknown	32.41	3000	J
18.	Unknown	33.60	130	J
19.	Unknown	34.05	170	J
20.	Unknown	34.77	210	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-9(0)

Lab Name: CHEMTECH CONSULTING GRUP. Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13183PP

Matrix: (soil/water) SOIL Lab Sample ID: 83051

Sample wt/vol: 30.2 (g/ml) G Lab File ID: _____

% Moisture: 54 decanted: (Y/N) N Date received: 08/26/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/27/99

Concentrated Extract Volume: 5000 (uL) Date analyzed: 09/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

319-84-6	alpha-BHC	3.6	U
319-85-7	beta-BHC	3.6	U
319-86-8	delta-BHC	3.6	U
58-89-9	gamma-BHC (Lindane)	3.6	U
76-44-8	Heptachlor	3.6	U
309-00-2	Aldrin	3.6	U
1024-57-3	Heptachlor epoxide	3.6	U
959-98-8	Endosulfan I	3.6	U
60-57-1	Dieldrin	7.2	U
72-55-9	4,4'-DDE	7.2	U
72-20-8	Endrin	7.2	U
33213-65-9	Endosulfan II	7.2	U
72-54-8	4,4'-DDD	7.2	U
1031-07-8	Endosulfan sulfate	7.2	U
50-29-3	4,4'-DDT	7.2	U
72-43-5	Methoxychlor	36	U
53494-70-5	Endrin ketone	7.2	U
7421-36-3	Endrin aldehyde	7.2	U
5103-71-9	alpha-Chlordane	3.6	U
5103-74-2	gamma-Chlordane	3.6	U
8001-35-2	Toxaphene	360	U
12674-11-2	Aroclor-1016	72	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	72	U
53469-21-9	Aroclor-1242	72	U
12672-29-6	Aroclor-1248	72	U
11097-69-1	Aroclor-1254	27800	EJ
11096-82-5	Aroclor-1260	72	U

*UJ result from diluted analysis
for this compound only*

h

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-9(0)DL

Lab Name: CHEMTECH CONSULTING GRUP. Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13183PP

Matrix: (soil/water) SOIL Lab Sample ID: 83051D

Sample wt/vol: 30.2 (g/ml) G Lab File ID: _____

% Moisture: 54 decanted: (Y/N) N Date received: 08/26/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/27/99

Concentrated Extract Volume: 5000 (uL) Date analyzed: 09/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6-----	alpha-BHC	180	U
319-85-7-----	beta-BHC	180	U
319-86-8-----	delta-BHC	180	U
58-89-9-----	gamma-BHC (Lindane)	180	U
76-44-8-----	Heptachlor	180	U
309-00-2-----	Aldrin	180	U
1024-57-3-----	Heptachlor epoxide	180	U
959-98-8-----	Endosulfan I	180	U
60-57-1-----	Dieldrin	360	U
72-55-9-----	4,4'-DDE	360	U
72-20-8-----	Endrin	360	U
33213-65-9-----	Endosulfan II	360	U
72-54-8-----	4,4'-DDD	360	U
1031-07-8-----	Endosulfan sulfate	360	U
50-29-3-----	4,4'-DDT	360	U
72-43-5-----	Methoxychlor	1800	U
53494-70-5-----	Endrin ketone	360	U
7421-36-3-----	Endrin aldehyde	360	U
5103-71-9-----	alpha-Chlordane	180	U
5103-74-2-----	gamma-Chlordane	180	U
8001-35-2-----	Toxaphene	18000	U
12674-11-2-----	Aroclor-1016	3600	U
11104-28-2-----	Aroclor-1221	7200	U
11141-16-5-----	Aroclor-1232	3600	U
53469-21-9-----	Aroclor-1242	3600	U
12672-29-6-----	Aroclor-1248	3600	U
11097-69-1-----	Aroclor-1254	40000	DJ
11096-82-5-----	Aroclor-1260	3600	U

Use circled result only

[Handwritten signature]

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-4 (10)

Lab Name: CHEMTECH CONSULTING GRUP. Contract: _____
 Lab Code: CHEM Case No.: _____ SAS No.: _____ SDG No.: 13183PP
 Matrix: (soil/water) SOIL Lab Sample ID: 83052
 Sample wt/vol: 30.2 (g/ml) G Lab File ID: _____
 % Moisture: 23 decanted: (Y/N) N Date received: 08/26/99
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/27/99
 Concentrated Extract Volume: 5000 (uL) Date analyzed: 09/07/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

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

CAS NO. COMPOUND Q

319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-36-3	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	4600	EJ
11096-82-5	Aroclor-1260	43	U

Use result from diluted analysis for above circled compound

[Signature]

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-4 (10)DL

Lab Name: CHEMTECH CONSULTING GRUP. Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13183PP

Matrix: (soil/water) SOIL Lab Sample ID: 83052D

Sample wt/vol: 30.2 (g/ml) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date received: 08/26/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/27/99

Concentrated Extract Volume: 5000 (uL) Date analyzed: 09/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

319-84-6	alpha-BHC	43	U
319-85-7	beta-BHC	43	U
319-86-8	delta-BHC	43	U
58-89-9	gamma-BHC (Lindane)	43	U
76-44-8	Heptachlor	43	U
309-00-2	Aldrin	43	U
1024-57-3	Heptachlor epoxide	43	U
959-98-8	Endosulfan I	43	U
60-57-1	Dieldrin	86	U
72-55-9	4,4'-DDE	86	U
72-20-8	Endrin	86	U
33213-65-9	Endosulfan II	86	U
72-54-8	4,4'-DDD	86	U
1031-07-8	Endosulfan sulfate	86	U
50-29-3	4,4'-DDT	86	U
72-43-5	Methoxychlor	430	U
53494-70-5	Endrin ketone	86	U
7421-36-3	Endrin aldehyde	86	U
5103-71-9	alpha-Chlordane	43	U
5103-74-2	gamma-Chlordane	43	U
8001-35-2	Toxaphene	4300	U
12674-11-2	Aroclor-1016	860	U
11104-28-2	Aroclor-1221	1700	U
11141-16-5	Aroclor-1232	860	U
53469-21-9	Aroclor-1242	860	U
12672-29-6	Aroclor-1248	860	U
11097-69-1	Aroclor-1254	6500	DJ
11096-82-5	Aroclor-1260	860	U

use above circled compound only

A

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

X-1

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12956

Matrix (soil/water): SOIL Lab Sample ID: 81369S

Level (low/med): LOW Date Received: 08/11/99

Solids: 74.4

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	25.0	B		P
7439-92-1	Lead	10.6			P

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-1(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 82996S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 91.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1760			P
7439-92-1	Lead	291			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-1(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 82997S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 95.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	766	-	-	P
7439-92-1	Lead	80.6	-	-	P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-1(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 82998S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 94.8

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1930			P
7439-92-1	Lead	1470			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-1(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 82999S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 96.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	315			P
7439-92-1	Lead	24.9			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-1(12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13181

Matrix (soil/water): SOIL Lab Sample ID: 83000S

Level (low/med): LOW Date Received: 08/26/99

% Solids: 87.9

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1750			P
7439-92-1	Lead	- 1380		-	P

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-2(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83001S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 85.5

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1640			P
7439-92-1	Lead	2710			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts: --

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-2(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13181

Matrix (soil/water): SOIL Lab Sample ID: 83002S

Level (low/med): LOW Date Received: 08/26/99

% Solids: 94.6

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	611			P
7439-92-1	Lead	686			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: GREY Clarity-After: Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-2(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13181

Matrix (soil/water): SOIL Lab Sample ID: 83003S

Level (low/med): LOW Date Received: 08/26/99

% Solids: 92.6

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2000			P
7439-92-1	Lead	596			P-

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-2(6)

Name: CHEMTECH CONSULTING GROUP

Contract:

Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83004S

Level (low/med): LOW

Date Received: 08/26/99

Solids: 91.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1090			P
7439-92-1	Lead	1960			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-3(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83005S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 88.8

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1160			P
7439-92-1	Lead	1820			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-3(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83006S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 97.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	128			P
7439-92-1	Lead	8.4			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-3(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83007S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 93.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	121	-		P
7439-92-1	Lead -	72.5			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-3(6)

Name: CHEMTECH CONSULTING GROUP

Contract:

Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83008S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 94.9

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	257			P
7439-92-1	Lead	13.0			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: --

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-3(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83009S

Level (low/med): LOW

Date Received: 08/26/99

Solids: 92.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	513	-	-	P
7439-92-1	Lead	550	-	-	P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-4(0)

Name: CHEMTECH CONSULTING GROUP

Contract:

Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83010S

Level (low/med): LOW

Date Received: 08/26/99

Solids: 61.7

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	4670			P
7439-92-1	Lead -	1950			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-4(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83011S

Level (low/med): LOW

Date Received: 08/26/99

Solids: 83.4

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1060			P
7439-92-1	Lead	9350			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

X-2

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83013S

Level (low/med): LOW

Date Received: 08/26/99

Solids: 79.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	3180			P
7439-92-1	Lead	6670			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

X-3

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83014S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 95.5

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	354			P
7439-92-1	Lead	20.9			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: --

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

X-4

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83015S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 64.7

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	4680			P
7439-92-1	Lead	4270			P

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

-- Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-9(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13181

Matrix (soil/water): SOIL

Lab Sample ID: 83016S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 77.5

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	5930			P
7439-92-1	Lead	2920			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-6 (0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83019S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 88.8

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2660			P
7439-92-1	Lead	1320			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-6(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83021S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 97.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	888			P
7439-92-1	Lead	35.4			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-6(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83022S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	365			P
7439-92-1	Lead	19.7			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

--Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-6 (12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83023S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 93.9

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	465			P
7439-92-1	Lead	39.6			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-7(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83024S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 85.8

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	4980			P
7439-92-1	Lead	856			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-7(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13182

Matrix (soil/water): SOIL Lab Sample ID: 83025S

Level (low/med): LOW Date Received: 08/26/99

% Solids: 91.4

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2600			P
7439-92-1	Lead	560			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-7(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83026S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 89.1

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2610			P
7439-92-1	Lead	294			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-9(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13182
Matrix (soil/water): SOIL Lab Sample ID: 83027S
Level (low/med): LOW Date Received: 08/26/99
% Solids: 79.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	4450			P
7439-92-1	Lead	1940			P

Color Before: GREY Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-9(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83028S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 85.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	3000			P
7439-92-1	Lead	1020			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: --

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-9(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83029S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 83.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1850			P
7439-92-1	Lead	313			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-10(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83030S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 77.5

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1100			P
7439-92-1	Lead	1460			P

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-6(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13182

Matrix (soil/water): SOIL Lab Sample ID: 83020S

Level (low/med): LOW Date Received: 08/26/99

% Solids: 89.5

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2150			P
7439-92-1	Lead	1740			P

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-10(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83033S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 72.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	5430	-		P
7439-92-1	Lead	3220			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

Lab Name: CHEMTECH CONSULTING GROUP

TP-10(4)

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83034S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 83.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	7710			P
7439-92-1	Lead	1470			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-10(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83035S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 87.1

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	6640			P
7439-92-1	Lead	2040			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: ..

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-10(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83036S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 83.9

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	3750			P
7439-92-1	Lead	537			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts: --

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-7(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83037S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 91.4

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2590			P
7439-92-1	Lead	226			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts: --

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-7(12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13182

Matrix (soil/water): SOIL

Lab Sample ID: 83038S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 91.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1700			P
7439-92-1	Lead	170			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-8(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13182

Matrix (soil/water): SOIL Lab Sample ID: 83039S

Level (low/med): LOW Date Received: 08/26/99

% Solids: 50.7

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	4660			P
7439-92-1	Lead	3970			P

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-8(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 13182

Matrix (soil/water): SOIL Lab Sample ID: 83040S

Level (low/med): LOW Date Received: 08/26/99

% Solids: 88.5

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	3700			P
7439-92-1	Lead	667			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-9(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 830518

Level (low/med): LOW

Date Received: 08/26/99

Solids: 46.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9970			U
7440-36-0	Antimony	11.6	B		U
7440-38-2	Arsenic	7.2			U
7440-39-3	Barium	4630			U
7440-41-7	Beryllium	0.74	B		U
7440-43-9	Cadmium	37700			U
7440-70-2	Calcium	20600			U
7440-47-3	Chromium	180			U
7440-48-4	Cobalt	2.9	B		U
7440-50-8	Copper	304			U
7439-89-6	Iron	15400			U
7439-92-1	Lead	6640			U
7439-95-4	Magnesium	7690			U
7439-96-5	Manganese	237			U
7439-97-6	Mercury	1.6			CV
7440-02-0	Nickel	22.2			U
7440-09-7	Potassium	869	B	U	U
7782-49-2	Selenium	2.2	U		U
7440-22-4	Silver	14.4			U
7440-23-5	Sodium	418	B	U	U
7440-28-0	Thallium	3.0	U		U
7440-62-2	Vanadium	10.8	B		U
7440-66-6	Zinc	106000			U
	Cyanide	0.43	U		CA

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

00023

8-26/99

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-4(10)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83052S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 77.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6800	-		P
7440-36-0	Antimony	8.0	B		P
7440-38-2	Arsenic	6.8			P
7440-39-3	Barium	2280			P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	1260			P
7440-70-2	Calcium	2510			P
7440-47-3	Chromium	230			P
7440-48-4	Cobalt	7.0	B		P
7440-50-8	Copper	184			P
7439-89-6	Iron	15700			P
7439-92-1	Lead	6830			P
7439-95-4	Magnesium	2730			P
7439-96-5	Manganese	239			P
7439-97-6	Mercury	0.18			CV
7440-02-0	Nickel	16.8			P
7440-09-7	Potassium	531	B	U E	P
7782-49-2	Selenium	1.3	U		P
7440-22-4	Silver	1.3	B		P
7440-23-5	Sodium	187	B	U E	P
7440-28-0	Thallium	1.8	U		P
7440-62-2	Vanadium	17.5			P
7440-66-6	Zinc	3250			P
	Cyanide	0.26	U		CA

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-8(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83041S

Level (low/med): LOW

Date Received: 08/26/99

Solids: 87.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2760			P
7439-92-1	Lead	430			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

FORM I - IN

00005A
9/12/99

LOCATION:

RX TIME 09/20 '99 17:05

NYSDEC - ASP
1

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-8(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83042S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 92.7

Concentration Units (ug/L or mg/Kg dry weight); MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	2530			P
7439-92-1	Lead	332			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

FORM I - IN

0006A
02 09/26/04
ILM03.0

LOCATION:

RX TIME 09/20 '99 17:05

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-8(12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83043S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 92.9

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	3150			P
7439-92-1	Lead	1050			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts: _____

Comments:

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

TP-4(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83044S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 87.3

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1100			P
7439-92-1	Lead	7190			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-4 (6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83045S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 79.4

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	701			P
7439-92-1	Lead	13000			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-5(0)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83046S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 88.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	4490			P
7439-92-1	Lead	1360			P

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-5(2)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83047S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 94.6

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1640			P
7439-92-1	Lead	123			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-5(4)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83048S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 93.0

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	1180			P
7439-92-1	Lead	207			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-5(6)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83049S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 93.4

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	944			P
7439-92-1	Lead	326			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

TP-5(12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 13183

Matrix (soil/water): SOIL

Lab Sample ID: 83050S

Level (low/med): LOW

Date Received: 08/26/99

% Solids: 94.2

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	231			P
7439-92-1	Lead	38.2			P

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

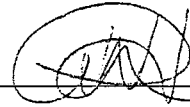
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

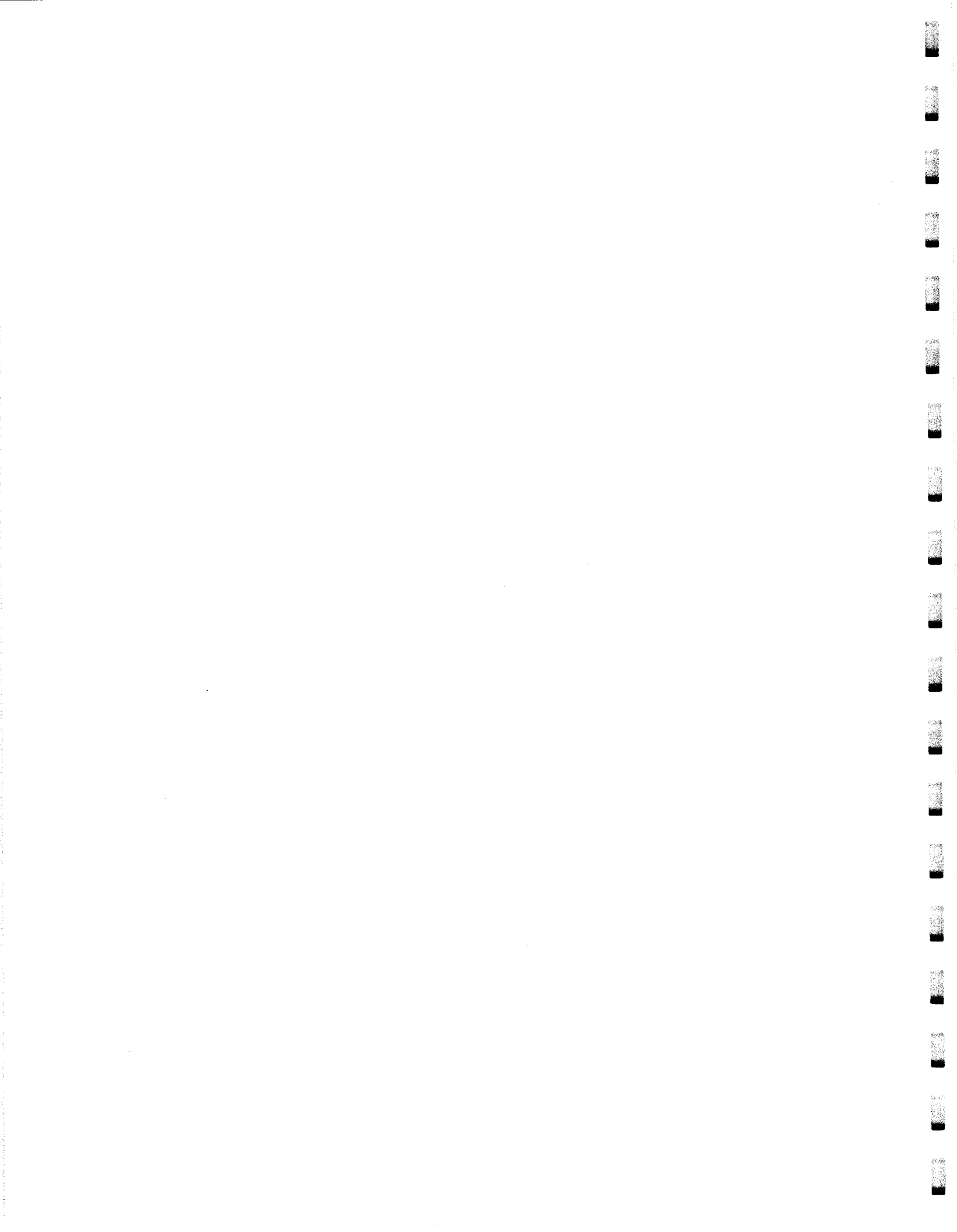
SAMPLE ID- TP-1(0)
TIME SAMPLED- 0915 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	91.34 % --
FLOURIDE	340.2	09/02/99		HNP	37.4 mg/Kg

LABORATORY DIRECTOR _____





REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

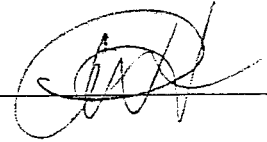
SAMPLE NUMBER- 82997
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-1(2)
TIME SAMPLED- 0920 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	95.19 %
FLOURIDE	340.2	09/02/99		HNP	17.6 mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

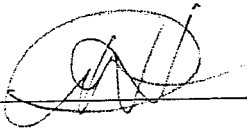
PROJECT # 13181 ASP

SAMPLE NUMBER- 82998
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-1(4)
TIME SAMPLED- 0926 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		RESULT UNITS
		DATE	TIME BY	
-- SOLIDS, PERCENT FLOURIDE	160.3	08/30/99	MJS	94.77 %
	340.2	09/02/99	HNP	25.3 mg/Kg

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REPORT OF ANALYSES

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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

SAMPLE NUMBER- 82999
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-1(6)
TIME SAMPLED- 0930 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	96.30 %
FLOURIDE	340.2	09/02/99		HNP	14.2 mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

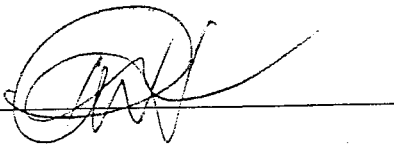
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-1(12)
TIME SAMPLED- 1355 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS			RESULT	UNITS
	METHOD	DATE	TIME BY		
SOLIDS, PERCENT	160.3	-08/30/99	MJS	87.85	%
FLOURIDE	340.2	09/02/99	HNP	28.2	mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

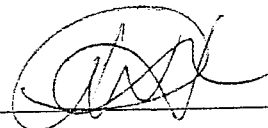
SAMPLE NUMBER- 83001
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-2(0)
TIME SAMPLED- 1025 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	85.49 %
FLOURIDE	340.2	09/02/99		HNP	<11.69 mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

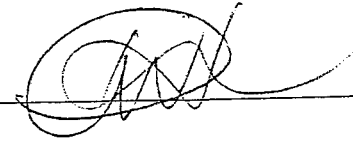
SAMPLE NUMBER- 83002
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-2(2)
TIME SAMPLED- 1030 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT FLOURIDE	160.3	08/30/99		MJS	94.62 %
	340.2	09/02/99		HNP	<10.56 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

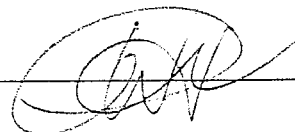
SAMPLE NUMBER- 83003
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-2(4)
TIME SAMPLED- 1035 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	92.63 %
FLOURIDE	340.2	09/02/99		HNP	15.2 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

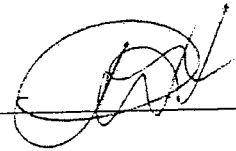
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-2(6)
TIME SAMPLED- 1045 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	91.19 %
FLOURIDE	340.2	09/02/99		HNP	14.1 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

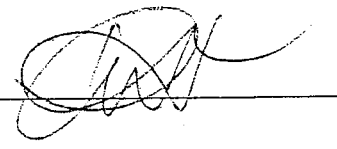
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-3(0)
TIME SAMPLED- 1055 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	88.81 %
FLOURIDE	340.2	09/02/99		HNP	<11.26 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

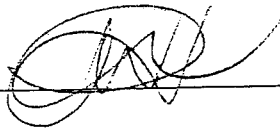
SAMPLE NUMBER- 83006
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-3(2)
TIME SAMPLED- 1100 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	97.21 %
FLOURIDE	340.2	09/02/99		HNP	<10.28 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

SAMPLE NUMBER- 83007
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-3(4)
TIME SAMPLED- 1105 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS			
	METHOD	DATE	TIME BY	RESULT UNITS
SOLIDS, PERCENT	160.3	08/30/99	MJS	93.02 %
FLOURIDE	340.2	09/02/99	HNP	27.0 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

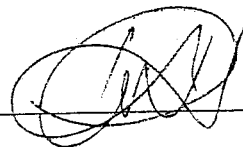
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-3(6)
TIME SAMPLED- 1110 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1 -

ANALYSIS	ANALYSIS			
	METHOD	DATE	TIME BY	RESULT UNITS
SOLIDS, PERCENT	160.3	08/30/99	MJS	94.95 %
FLOURIDE	340.2	09/02/99	HNP	13.7 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

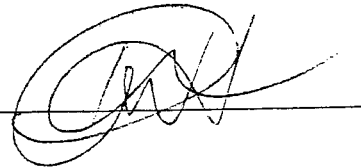
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-3(10)
TIME SAMPLED- 1139 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT	UNITS
	METHOD	DATE	TIME	BY		
SOLIDS, PERCENT	160.3	08/30/99	--	MJS	92.21	%
FLOURIDE	340.2	09/02/99		HNP	34.5	mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

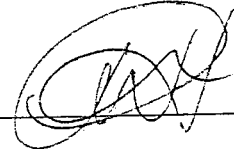
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-4(0)
TIME SAMPLED- 1300 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	61.71 %
FLOURIDE	340.2	09/02/99		HNP	<15.45 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

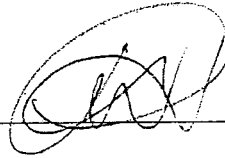
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DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-4(2)
TIME SAMPLED- 1306 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS			
	METHOD	DATE	TIME BY	RESULT UNITS
SOLIDS, PERCENT	160.3	08/30/99	MJS	83.42 %
FLOURIDE	340.2	09/02/99	HNP	<11.98 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

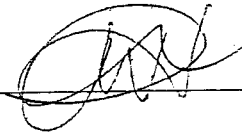
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DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- X-2
SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	79.29 %
FLOURIDE	340.2	09/02/99		HNP	21.8 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
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DATE: 09/17/99

PROJECT # 13181 ASP

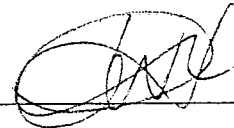
SAMPLE NUMBER- 83014
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- X-3
SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	95.48 %
FLOURIDE	340.2	09/02/99		HNP	<10.47 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
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Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

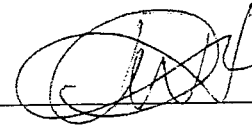
SAMPLE NUMBER- 83015
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- X-4
SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS			
	METHOD	DATE	TIME BY	RESULT UNITS
SOLIDS, PERCENT	160.3	08/30/99	MJS	64.66 %
FLOURIDE	340.2	09/02/99	HNP	<15.46 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13181 ASP

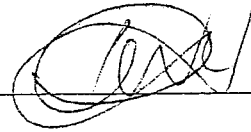
SAMPLE NUMBER- 83016
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-9(2)
TIME SAMPLED- 0902 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		RESULT	UNITS
		DATE	TIME BY		
SOLIDS, PERCENT	160.3	08/30/99	MJS	77.55	%
FLOURIDE	340.2	09/02/99	HNP	153	mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

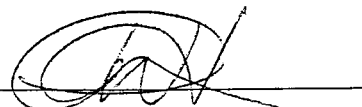
SAMPLE NUMBER- 83019
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-6(0)
TIME SAMPLED- 1445 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	88.79 %
FLOURIDE	340.2	09/02/99		HNP	24.1 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP


SAMPLE NUMBER- 83021
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-6(4)
TIME SAMPLED- 1455 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	97.01 %
FLOURIDE	340.2	09/02/99		HNP	13.5 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

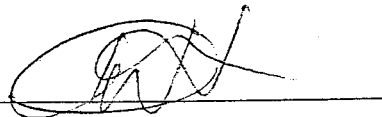
SAMPLE NUMBER- 83022
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-6(6)
TIME SAMPLED- 1500 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	96.00 %
FLOURIDE	340.2	09/02/99		HNP	<10.41 mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

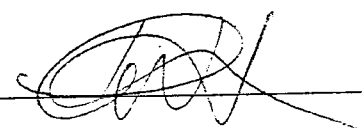
SAMPLE NUMBER- 83023
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-6(12)
TIME SAMPLED- 1513 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	93.94-%
FLOURIDE	340.2	09/02/99		HNP	20.7 mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

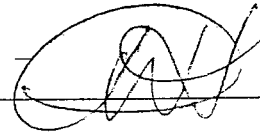
SAMPLE NUMBER- 83024
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-7(0)
TIME SAMPLED- 1519 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	85.79 %
FLOURIDE	340.2	09/02/99		HNP	164 mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

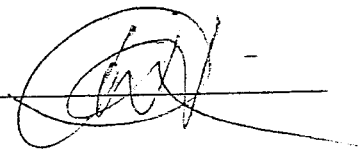
SAMPLE NUMBER- 83025
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-7(2)
TIME SAMPLED- 1523 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		RESULT	UNITS
		DATE	TIME BY		
SOLIDS, PERCENT	160.3	08/30/99	MJS	91.42	%
FLOURIDE	340.2	09/02/99	HNP	100	mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

SAMPLE NUMBER- 83026
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-7(4)
TIME SAMPLED- 1528 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	89.08 %
FLOURIDE	340.2	09/02/99		HNP	126 mg/Kg

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REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

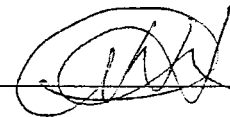
SAMPLE NUMBER- 83027
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-9(4)
TIME SAMPLED- 0907 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	79.25 %
FLOURIDE	340.2	09/02/99		HNP	83.0 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

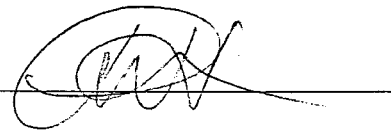
SAMPLE NUMBER- 83029
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-9(10)
TIME SAMPLED- 0928 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99	--	MJS	83.01 %
FLOURIDE	340.2	09/02/99		HNP	29.1 mg/Kg

LABORATORY DIRECTOR



CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
 28 MADISON AVE
 ALBANY, NY 12203-
 Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

SAMPLE NUMBER- 83030
 DATE SAMPLED- 08/26/99
 DATE RECEIVED- 08/26/99
 DELIVERED BY- CHEM

SAMPLE ID- TP-10(0)
 TIME SAMPLED- 0800 SAMPLER- CLIENT
 TIME RECEIVED- 1400
 RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	77.48 %
FLOURIDE	340.2	09/02/99		HNP	<12.90 mg/Kg

LABORATORY DIRECTOR



110 Route 4
 Englewood, New Jersey 07631
 Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
 Bernegat, New Jersey 08005
 Phone: (609) 698-0199 Fax: (609) 698-0310

00025A
 19/09

NYSDOH Certification No. 10624
 NJDEP Certification No. 02548

NJDEP Certification No. 15004

LOCATION:

RX TIME 09/20 '99 18:14

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

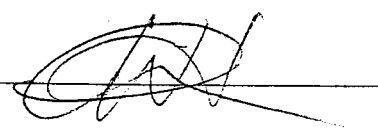
SAMPLE NUMBER- 83020
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-6(2)
TIME SAMPLED- 1450 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	89.48 %
FLOURIDE	340.2	09/02/99		HNP	34.2 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

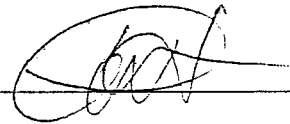
SAMPLE NUMBER- 83033
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-10(2)
TIME SAMPLED- 0813 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	72.30 %
FLOURIDE	340.2	09/02/99		HNP	25.9 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

SAMPLE NUMBER- 83034
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-10(4)
TIME SAMPLED- 0821 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	82.98 %
FLOURIDE	340.2	09/02/99		HNP	33.7 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

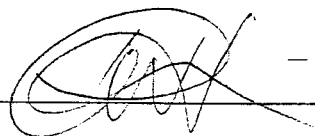
SAMPLE NUMBER- 83035
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-10(6)
TIME SAMPLED- 0828 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	87.11 %
FLOURIDE	340.2	09/02/99		HNP	26.3 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

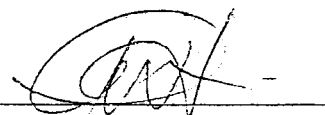
SAMPLE NUMBER- 83036
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-10(10)
TIME SAMPLED- 0850 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	83.90 %
FLOURIDE	340.2	09/02/99		HNP	88.0 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

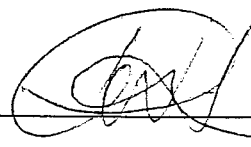
SAMPLE NUMBER- 83037
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-7(6)
TIME SAMPLED- 1531 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	91.39 %
FLOURIDE	340.2	09/02/99		HNP	133 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

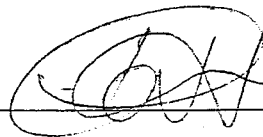
SAMPLE NUMBER- 83038
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-7(12)
TIME SAMPLED- 1545 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	91.32 %
FLOURIDE	340.2	09/02/99		HNP	65.4 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

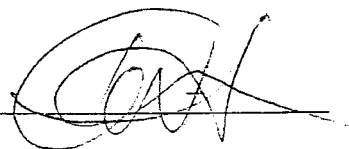
SAMPLE NUMBER- 83039
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-8(0)
TIME SAMPLED- 1554 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		RESULT	UNITS
		DATE	TIME BY		
SOLIDS, PERCENT	160.3	08/30/99	MJS	50.71	%
FLOURIDE	340.2	09/02/99	HNP	327	mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/20/99

PROJECT # 13182 ASP

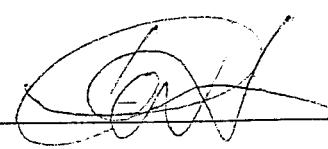
SAMPLE NUMBER- 83040
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-8(2)
TIME SAMPLED- 1617 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	88.48 %
FLOURIDE	340.2	09/02/99		HNP	74.1 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

SAMPLE NUMBER- 83051
DATE SAMPLED- 08/26/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-9(0)
TIME SAMPLED- 0858 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	46.06 %
FLOURIDE	340.2	09/02/99		HNP	278 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

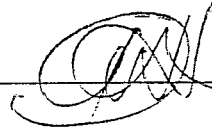
SAMPLE NUMBER- 83052
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-4(10)
TIME SAMPLED- 1335 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		
		DATE	TIME BY	RESULT UNITS
SOLIDS, PERCENT	160.3	08/30/99	MJS	77.45 %
FLOURIDE	340.2	09/02/99	HNP	31.5 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

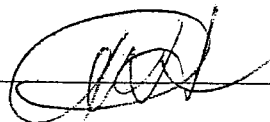
SAMPLE NUMBER- 83041
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-8(4)
TIME SAMPLED- 1622 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	86.26 %
FLOURIDE	340.2	09/02/99		HNP	105 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

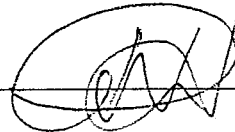
SAMPLE NUMBER- 83042
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-8(6)
TIME SAMPLED- 1626 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	92.68 %
FLOURIDE	340.2	09/02/99		HNP	84.1 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

SAMPLE NUMBER- 83043
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-8(12)
TIME SAMPLED- 1630 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	92.86 %
FLOURIDE	340.2	09/02/99		HNP	88.5 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

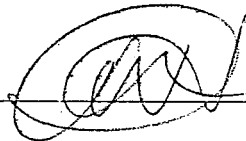
SAMPLE NUMBER- 83044
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-4(4)
TIME SAMPLED- 1309 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	87.34 %
FLOURIDE	340.2	09/02/99		HNP	22.1 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

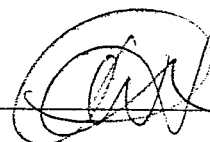
SAMPLE NUMBER- 83045
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-4(6)
TIME SAMPLED- 1315 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		BY	RESULT UNITS
		DATE	TIME		
SOLIDS, PERCENT	160.3	08/30/99		MJS	79.40 %
FLOURIDE	340.2	09/02/99		HNP	24.2 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

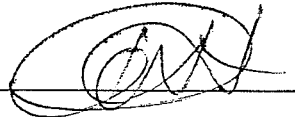
SAMPLE NUMBER- 83046
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-5(0)
TIME SAMPLED- 1406 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	ANALYSIS				RESULT UNITS
	METHOD	DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	88.22 %
FLOURIDE	340.2	09/02/99		HNP	25.7 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

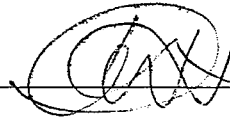
SAMPLE NUMBER- 83047
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-5(2)
TIME SAMPLED- 1410 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	94.57 %
FLOURIDE	340.2	09/02/99		HNP	24.1 mg/Kg

LABORATORY DIRECTOR _____



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

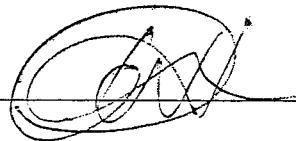
SAMPLE NUMBER- 83048
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-5(4)
TIME SAMPLED- 1414 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	92.99 %
FLOURIDE	340.2	09/02/99		HNP	35.2 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

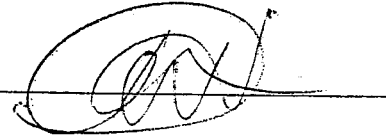
SAMPLE NUMBER- 83049
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-5(6)
TIME SAMPLED- 1422 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	93.44 %
FLOURIDE	340.2	09/02/99		HNP	34.9 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: TONY NOCE

DATE: 09/17/99

PROJECT # 13183 ASP

SAMPLE NUMBER- 83050
DATE SAMPLED- 08/25/99
DATE RECEIVED- 08/26/99
DELIVERED BY- CHEM

SAMPLE ID- TP-5(12)
TIME SAMPLED- 1436 SAMPLER- CLIENT
TIME RECEIVED- 1400
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/30/99		MJS	94.24 %
FLOURIDE	340.2	09/02/99		HNP	42.8 mg/Kg

LABORATORY DIRECTOR



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: ANTHONY M.NOCE

DATE: 09/01/99

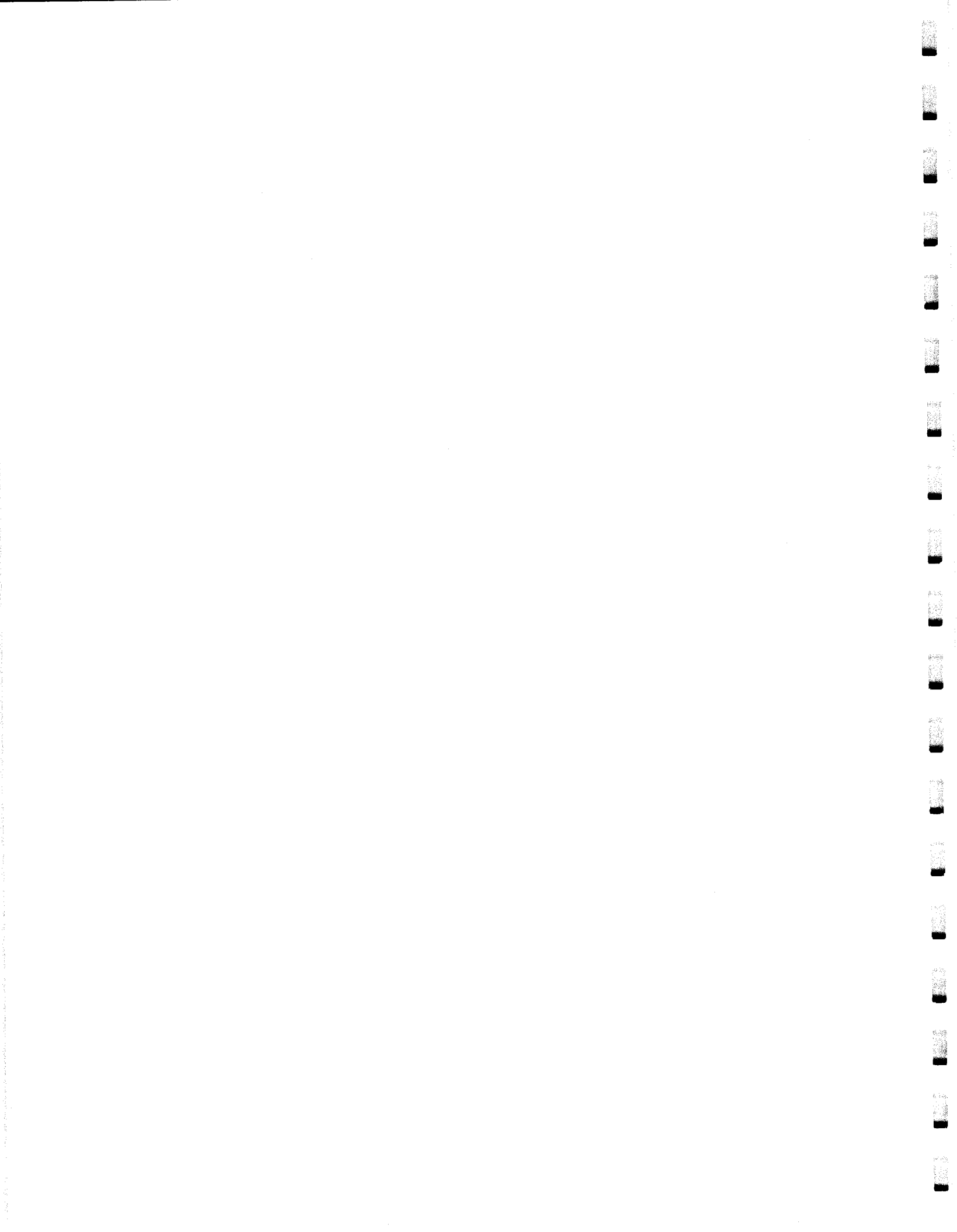
PROJECT # 12956 ASP

SAMPLE NUMBER- 81369
DATE SAMPLED- 08/10/99
DATE RECEIVED- 08/11/99
DELIVERED BY- FEDEX

SAMPLE ID- X-1
SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- SO

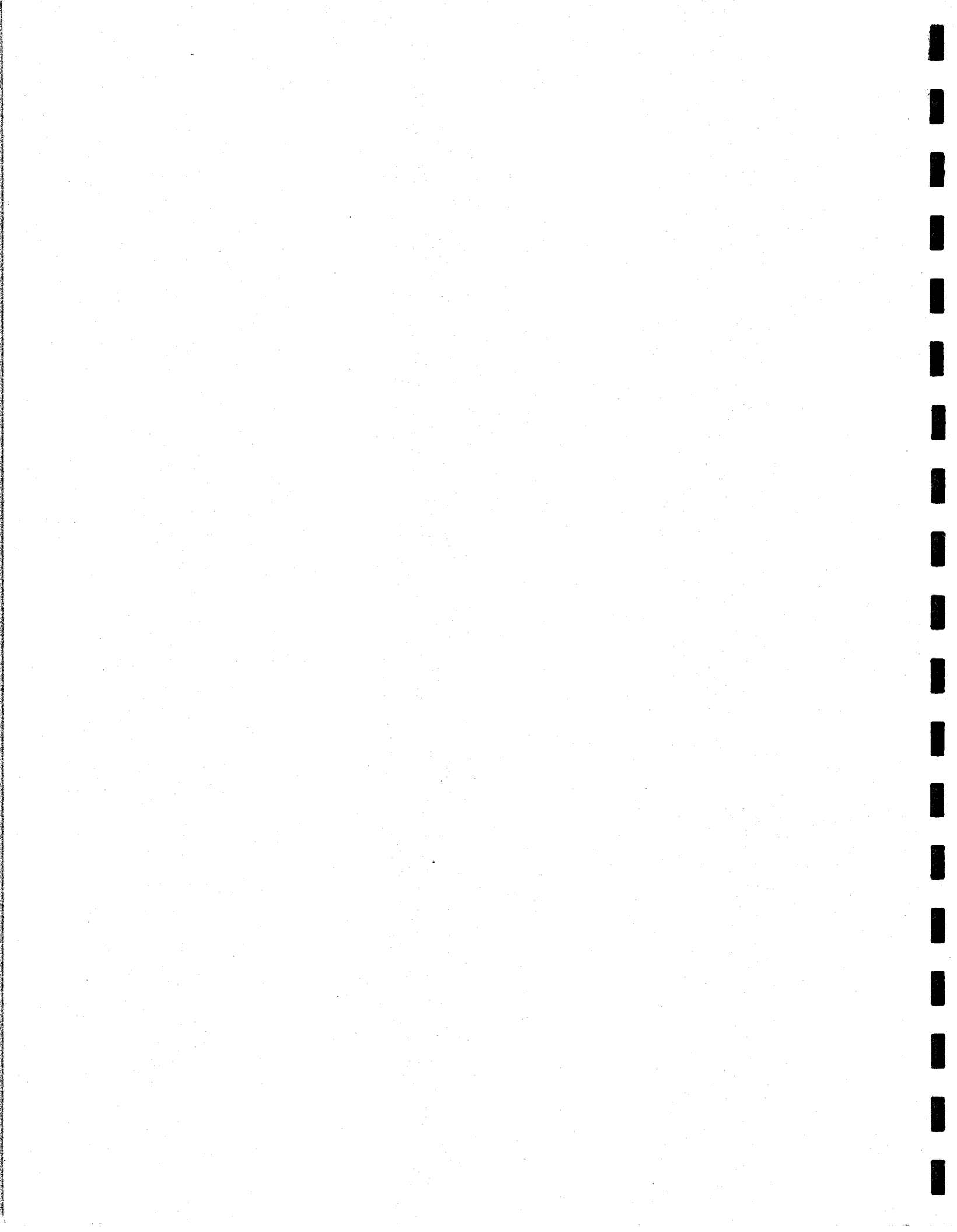
Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/11/99		BP	74.35 %
FLOURIDE	340.2	08/23/99		HNP	<13.44 mg/Kg



APPENDIX C-3

UPGRADIENT SURFACE SOIL DATA SHEETS



Lab Name: CHEMTECHContract: DELAWARE ENGINEERING, P.C.Project No.: 12956ASP

Site: _____

Location: _____

Group: SED-1Matrix: (soil/water) SOILLab Sample ID: O81370Sample wt/vol: 5.0 (g/mL) GLab File ID: P18596.DLevel: (low/med) LOWDate Received: 8/11/99% Moisture: not dec. 2Date Analyzed: 8/13/99GC Column: RTX624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

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

Q

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane		3.4	U
75-01-4	Vinyl Chloride		3.9	U
74-83-9	Bromomethane		3.9	U
75-00-3	Chloroethane		5.1	U
75-35-4	1,1-Dichloroethene		2	U
67-64-1	Acetone		5.1	U
75-15-0	Carbon Disulfide		5.1	U
75-09-2	Methylene Chloride		1	U
156-60-5	trans-1,2-Dichloroethene		4.3	U
75-34-4	1,1-Dichloroethane		1.3	U
156-60-5	cis-1,2-dichloroethene		1.8	U
67-66-3	Chloroform		1.2	U
71-55-6	1,1,1-Trichloroethane		0.9	U
78-93-3	2-Butanone		5.1	U
56-23-5	Carbon Tetrachloride		4.1	U
71-43-2	Benzene		1	U
107-06-2	1,2-Dichloroethane		4.1	U
79-01-6	Trichloroethene		2.6	U
78-87-5	1,2-Dichloropropane		2.4	U
75-27-4	Bromodichloromethane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-88-3	Toluene		1.3	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1.3	U
108-10-1	4-Methyl-2-Pentanone		5.1	U
127-18-4	Tetrachloroethene		1.1	U
124-48-1	Dibromochloromethane		0.7	U
59-78-6	2-Hexanone		5.1	U
108-90-7	Chlorobenzene		1.1	U
100-41-4	Ethylbenzene		1.1	U
1330-20-7	m&p-xylenes		2.3	U
95-47-6	o-xylene		1.2	U
100-42-5	Styrene		0.2	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SS-UP-01 6-12

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1295 Site: _____ Location: _____ Group: SED-1
 Matrix: (soil/water) SOIL Lab Sample ID: O81370
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: P18596.D
 Level: (low/med) LOW Date Received: 8/11/99
 % Moisture: not dec. 2 Date Analyzed: 8/13/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-UP-01 6-12RE

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Project No.: 12956ASP

Site: _____

Location: _____

Group: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: O81370RE

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

Lab File ID: P18612.D

Level: (low/med) LOW

Date Received: 8/11/99

% Moisture: not dec. 2

Date Analyzed: 8/15/99

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

*JS:
use
results*

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/Kg	Q
74-87-3	Chloromethane		3.4	U
75-01-4	Vinyl Chloride		1.9	U
74-83-9	Bromomethane		3.9	U
75-00-3	Chloroethane		5.1	U
75-35-4	1,1-Dichloroethene		2	U
67-64-1	Acetone		5.1	U
75-15-0	Carbon Disulfide		5.1	U
75-09-2	Methylene Chloride		1	U
156-60-5	trans-1,2-Dichloroethene		4.3	U
75-34-4	1,1-Dichloroethane		1.3	U
156-60-5	cis-1,2-dichloroethene		1.8	U
67-66-3	Chloroform		1.2	U
71-55-6	1,1,1-Trichloroethane		0.9	U
78-93-3	2-Butanone		5.1	U
56-23-5	Carbon Tetrachloride		4.1	U
71-43-2	Benzene		1	U
107-06-2	1,2-Dichloroethane		4.1	U
79-01-6	Trichloroethene		2.6	U
78-87-5	1,2-Dichloropropane		2.4	U
75-27-4	Bromodichloromethane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-88-3	Toluene		1.3	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1.3	U
108-10-1	4-Methyl-2-Pentanone		5.1	U
127-18-4	Tetrachloroethene		1.1	U
124-48-1	Dibromochloromethane		0.7	U
591-78-6	2-Hexanone		5.1	U
108-90-7	Chlorobenzene		1.1	U
100-41-4	Ethylbenzene		1.1	U
1330-20-7	m&p-xylenes		2.3	U
95-47-6	o-xylene		1.2	U
100-42-5	Styrene		0.2	U

A

J

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-UP-01 6-12RE

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Project No.: 12956ASP

Site: _____

Location: _____

Group: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: O81370RE

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

Lab File ID: P18612.D

Level: (low/med) LOW

Date Received: 8/11/99

% Moisture: not dec. 2

Date Analyzed: 8/15/99

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

*jd
these
results*

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	<u>ug/Kg</u>	
75-25-2	Bromoform	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	1.6		U

J
↓

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SS-UP-01 6-12RE

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1295 Site: _____ Location: _____ Group: SED-1
 Matrix: (soil/water) SOIL Lab Sample ID: O81370RE
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: P18612.D
 Level: (low/med) LOW Date Received: 8/11/99
 % Moisture: not dec. 2 Date Analyzed: 8/15/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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1/15/13

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-UP-02 6-12

Lab Name: CHEMTECHContract: DELAWARE ENGINEERING, P.C.Project No.: 12956ASP

Site: _____

Location: _____

Group: SED-1Matrix: (soil/water) SOILLab Sample ID: O81371Sample wt/vol: 5.0 (g/mL) GLab File ID: P18597.DLevel: (low/med) LOWDate Received: 8/11/99% Moisture: not dec. 2Date Analyzed: 8/13/99GC Column: RTX624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane	3.4		U
75-01-4	Vinyl Chloride	1.9		U
74-83-9	Bromomethane	3.9		U
75-00-3	Chloroethane	5.1		U
75-35-4	1,1-Dichloroethene	2		U
67-64-1	Acetone	5.1		U
75-15-0	Carbon Disulfide	5.1		U
75-09-2	Methylene Chloride	1		U
156-60-5	trans-1,2-Dichloroethene	4.3		U
75-34-4	1,1-Dichloroethane	1.3		U
156-60-5	cis-1,2-dichloroethene	1.8		U
67-66-3	Chloroform	1.2		U
71-55-6	1,1,1-Trichloroethane	0.9		U
78-93-3	2-Butanone	5.1		U
56-23-5	Carbon Tetrachloride	4.1		U
71-43-2	Benzene	1		U
107-06-2	1,2-Dichloroethane	4.1		U
79-01-6	Trichloroethene	2.6		U
78-87-5	1,2-Dichloropropane	2.4		U
75-27-4	Bromodichloromethane	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
108-88-3	Toluene	1.3		U
10061-02-6	trans-1,3-Dichloropropene	1		U
79-00-5	1,1,2-Trichloroethane	1.3		U
108-10-1	4-Methyl-2-Pentanone	5.1		U
127-18-4	Tetrachloroethene	1.1		U
124-48-1	Dibromochloromethane	0.7		U
591-78-6	2-Hexanone	5.1		U
108-90-7	Chlorobenzene	1.1		U
100-41-4	Ethylbenzene	1.1		U
1330-20-7	m&p-xylenes	2.3		U
95-47-6	o-xylene	1.2		U
100-42-5	Styrene	0.2		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SS-UP-02 6-12

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No. 1295 Site: _____ Location: _____ Group: SED-1
 Matrix: (soil/water) SOIL Lab Sample ID: O81371
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: P18597.D
 Level: (low/med) LOW Date Received: 8/11/99
 % Moisture: not dec. 2 Date Analyzed: 8/13/99
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units:
 (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

SS-UP-01(6-12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 12956

Matrix (soil/water): SOIL

Lab Sample ID: 81370S

Level (low/med): LOW

Date Received: 08/11/99

Solids: 98.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5050			P
7440-36-0	Antimony	1.5	B	U	P
7440-38-2	Arsenic	2.8			P
7440-39-3	Barium	15.1	B		P
7440-41-7	Beryllium	0.34	B	U	P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	273	B		P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	5.5			P
7440-50-8	Copper	11.5			P
7439-89-6	Iron	12600			P
7439-92-1	Lead	9.5			P
7439-95-4	Magnesium	1870			P
7439-96-5	Manganese	255			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	11.3			P
7440-09-7	Potassium	229	B		P
7782-49-2	Selenium	0.49	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	86.6	B		P
7440-28-0	Thallium	0.68	U		P
7440-62-2	Vanadium	6.7			P
7440-66-6	Zinc	34.9			P
	Cyanide	0.20	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SS-UP-02(6-12)

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 12956

Matrix (soil/water): SOIL

Lab Sample ID: 81371S

Level (low/med): LOW

Date Received: 08/11/99

% Solids: 97.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4570			P
7440-36-0	Antimony	0.89	B	U	P
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	15.3	B		P
7440-41-7	Beryllium	0.32	B	U	P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	269	B		P
7440-47-3	Chromium	6.5			P
7440-48-4	Cobalt	3.8	B		P
7440-50-8	Copper	10.7			P
7439-89-6	Iron	10300			P
7439-92-1	Lead	12.3			P
7439-95-4	Magnesium	1580			P
7439-96-5	Manganese	217			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	9.3			P
7440-09-7	Potassium	175	B		P
7782-49-2	Selenium	0.51	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	98.5	B		P
7440-28-0	Thallium	0.71	U		P
7440-62-2	Vanadium	6.5			P
7440-66-6	Zinc	29.5			P
	Cyanide	0.20	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-UP-01

Lab Name: CHEMTECH CONSULTING GRUP. Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12956PP

Matrix: (soil/water) SOIL Lab Sample ID: 81370

Sample wt/vol: 30.3 (g/ml) G Lab File ID: _____

% Moisture: 2 decanted: (Y/N) N Date received: 08/11/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/12/99

Concentrated Extract Volume: 10000 (uL) Date analyzed: 08/17/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.0	U
319-85-7	beta-BHC	1.0	U
319-86-8	delta-BHC	1.0	U
58-89-9	gamma-BHC (Lindane)	1.0	U
76-44-8	Heptachlor	1.0	U
309-00-2	Aldrin	1.0	U
1024-57-3	Heptachlor epoxide	1.0	U
959-98-8	Endosulfan I	1.0	U
60-57-1	Dieldrin	2.4	U
72-55-9	4,4'-DDE	2.4	U
72-20-8	Endrin	2.4	U
33213-65-9	Endosulfan II	2.4	U
72-54-8	4,4'-DDD	2.4	U
1031-07-8	Endosulfan sulfate	2.4	U
50-29-3	4,4'-DDT	2.4	U
72-43-5	Methoxychlor	10	U
53494-70-5	Endrin ketone	2.4	U
7421-93-4	Endrin aldehyde	2.4	U
5103-71-9	alpha-Chlordane	1.0	U
5103-74-2	gamma-Chlordane	1.0	U
8001-35-2	Toxaphene	67	U
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	17	U
53469-21-9	Aroclor-1242	17	U
12672-29-6	Aroclor-1248	17	U
11097-69-1	Aroclor-1254	17	U
11096-82-5	Aroclor-1260	17	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-UP-02

Lab Name: CHEMTECH CONSULTING GRUP. Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12956PP

Matrix: (soil/water) SOIL Lab Sample ID: 81371

Sample wt/vol: 30.2 (g/ml) G Lab File ID: _____

% Moisture: 2 decanted: (Y/N) N Date received: 08/11/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/12/99

Concentrated Extract Volume: 10000 (uL) Date analyzed: 08/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

319-84-6	alpha-BHC	1.0	U
319-85-7	beta-BHC	1.0	U
319-86-8	delta-BHC	1.0	U
58-89-9	gamma-BHC (Lindane)	1.0	U
76-44-8	Heptachlor	1.0	U
309-00-2	Aldrin	1.0	U
1024-57-3	Heptachlor epoxide	1.0	U
959-98-8	Endosulfan I	1.0	U
60-57-1	Dieldrin	2.4	U
72-55-9	4,4'-DDE	2.4	U
72-20-8	Endrin	2.4	U
33213-65-9	Endosulfan II	2.4	U
72-54-8	4,4'-DDD	2.4	U
1031-07-8	Endosulfan sulfate	2.4	U
50-29-3	4,4'-DDT	2.4	U
72-43-5	Methoxychlor	10	U
53494-70-5	Endrin ketone	2.4	U
7421-93-4	Endrin aldehyde	2.4	U
5103-71-9	alpha-Chlordane	1.0	U
5103-74-2	gamma-Chlordane	1.0	U
8001-35-2	Toxaphene	68	U
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	17	U
53469-21-9	Aroclor-1242	17	U
12672-29-6	Aroclor-1248	17	U
11097-69-1	Aroclor-1254	17	U
11096-82-5	Aroclor-1260	17	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-UP-01 6-12

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Project No.: 12956ASP Site: _____ Location: _____ Group: SED-1

Matrix: (soil/water) SOIL Lab Sample ID: O81370

Sample wt/vol: 30.0 (g/mL G) Lab File ID: S20842.D

Level: (low/med) LOW Date Received: 8/11/99

% Moisture: 2 decanted: (Y/N): N Date Extracted: 8/11/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/19/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/Kg	Q
108-95-2	Phenol		13	U
111-44-4	bis(2-Chloroethyl)ether		14	U
108-60-1	Bis(2-chloroisopropyl)ether		10	U
95-57-8	2-Chlorophenol		44	U
95-50-1	1,2-Dichlorobenzene		20	U
541-73-1	1,3-Dichlorobenzene		5.1	U
106-46-7	1,4-Dichlorobenzene		11	U
95-48-7	2-Methylphenol		65	U
65794-96-9	3+4-Methyphenols		68	U
621-64-7	n-Nitroso-di-n-propylamine		13	U
67-72-1	Hexachloroethane		18	U
98-95-3	Nitrobenzene		6.4	U
78-59-1	Isophorone		9.8	U
88-75-5	2-Nitrophenol		110	U
105-67-9	2,4-Dimethylphenol		30	U
111-91-1	bis(2-Chloroethoxy)methane		19	U
120-83-2	2,4-Dichlorophenol		85	U
120-82-1	1,2,4-Trichlorobenzene		8.8	U
91-20-3	Naphthalene		6.1	U
106-47-8	4-Chloroaniline		68	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		68	U
91-57-6	2-Methylnaphthalene		58	U
77-47-4	Hexachlorocyclopentadiene		9.4	U
88-06-2	2,4,6-Trichlorophenol		43	U
95-95-4	2,4,5-Trichlorophenol		89	U
91-58-7	2-Chloronaphthalene		5.7	U
88-74-4	2-Nitroaniline		120	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		7.4	U
606-20-2	2,6-Dinitrotoluene		16	U
99-09-2	3-Nitroaniline		130	U
83-32-9	Acenaphthene		6.1	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-UP-01 6-12

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Project No.: 12956ASP

Site: _____

Location: _____

Group: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: O81370

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

Lab File ID: S20842.D

Level: (low/med) LOW

Date Received: 8/11/99

% Moisture: 2 decanted: (Y/N): N

Date Extracted: 8/11/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 8/19/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
51-28-5	2,4-Dinitrophenol		160	U
100-02-7	4-Nitrophenol		33	U
132-64-9	Dibenzofuran		53	U
121-14-2	2,4-Dinitrotoluene		9.1	U
84-66-2	Diethylphthalate		8.4	U
7005-72-3	4-Chlorophenyl-phenylether		9.1	U
86-73-7	Fluorene		6.4	U
100-01-6	4-Nitroaniline		180	U
534-52-1	4,6-Dinitro-2-methylphenol		210	U
86-30-6	N-Nitrosodiphenylamine		12	U
101-55-3	4-Bromophenyl-phenylether		23	U
118-74-1	Hexachlorobenzene		15	U
87-86-5	Pentachlorophenol		110	U
85-01-8	Phenanthrene		13	U
120-12-7	Anthracene		21	U
86-74-8	Carbazole		50	U
84-74-2	Di-n-butylphthalate		27	U
206-44-0	Fluoranthene		11	U
129-00-0	Pyrene		9.8	U
85-68-7	Butylbenzylphthalate		12	U
91-94-1	3,3'-Dichlorobenzidine		140	U
56-55-3	Benzo[a]anthracene		11	U
218-01-9	Chrysene		18	U
117-81-7	bis(2-Ethylhexyl)phthalate		63	U
117-84-0	Di-n-octylphthalate		17	U
205-99-2	Benzo[b]fluoranthene		100	U
207-08-9	Benzo[k]fluoranthene		98	U
50-32-8	Benzo[a]pyrene		14	U
193-39-5	Indeno [1,2,3-cd] pyrene		26	U
53-70-3	Dibenz[a,h]anthracene		50	U
191-24-2	Benzo[g,h,i]perylene		8.4	U

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SS-UP-01 6-12

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No.: 1295 Site: _____ Location: _____ Group: SED-1
 Matrix: (soil/water) SOIL Lab Sample ID: O81370
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S20842.D
 Level: (low/med) LOW Date Received: 8/11/99
 % Moisture: 2 decanted: (Y/N) N Date Extracted: 8/11/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/19/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____
 Number TICs found: 2 Concentration Units: _____
 (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc	Q
1.	1-Hexacosanal	34.27	670	J
2.	Unknown	37.43	390	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-UP-02 6-12

Lab Name: CHEMTECH

Contract: DELAWARE ENGINEERING, P.C.

Project No.: 12956ASP

Site: _____

Location: _____

Group: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: O81371

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

Lab File ID: S21083.D

Level: (low/med) LOW

Date Received: 8/11/99

% Moisture: 2 decanted: (Y/N): N

Date Extracted: 8/11/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 8/31/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
108-95-2	Phenol		13	U
111-44-4	bis(2-Chloroethyl)ether		14	U
108-60-1	Bis(2-chloroisopropyl)ether		10	U
95-57-8	2-Chlorophenol		44	U
95-50-1	1,2-Dichlorobenzene		20	U
541-73-1	1,3-Dichlorobenzene		5.1	U
106-46-7	1,4-Dichlorobenzene		11	U
95-48-7	2-Methylphenol		65	U
65794-96-9	3 + 4-Methyphenols		68	U
621-64-7	n-Nitroso-di-n-propylamine		13	U
67-72-1	Hexachloroethane		18	U
98-95-3	Nitrobenzene		6.4	U
78-59-1	Isophorone		9.8	U
88-75-5	2-Nitrophenol		110	U
105-67-9	2,4-Dimethylphenol		30	U
111-91-1	bis(2-Chloroethoxy)methane		19	U
120-83-2	2,4-Dichlorophenol		85	U
120-82-1	1,2,4-Trichlorobenzene		8.8	U
91-20-3	Naphthalene		6.1	U
106-47-8	4-Chloroaniline		68	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		68	U
91-57-6	2-Methylnaphthalene		58	U
77-47-4	Hexachlorocyclopentadiene		9.4	U
88-06-2	2,4,6-Trichlorophenol		43	U
95-95-4	2,4,5-Trichlorophenol		89	U
91-58-7	2-Chloronaphthalene		5.7	U
88-74-4	2-Nitroaniline		120	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		7.4	U
606-20-2	2,6-Dinitrotoluene		16	U
99-09-2	3-Nitroaniline		130	U
83-32-9	Acenaphthene		6.1	U

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3/90
[Signature]

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-UP-02 6-12

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.

Project No.: 12956ASP Site: _____ Location: _____ Group: SED-1

Matrix: (soil/water) SOIL Lab Sample ID: O81371

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S21083.D

Level: (low/med) LOW Date Received: 8/11/99

% Moisture: 2 decanted: (Y/N): N Date Extracted: 8/11/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/31/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
51-28-5	2,4-Dinitrophenol		160	U
100-02-7	4-Nitrophenol		33	U
132-64-9	Dibenzofuran		53	U
121-14-2	2,4-Dinitrotoluene		9.1	U
84-66-2	Diethylphthalate		8.4	U
7005-72-3	4-Chlorophenyl-phenylether		9.1	U
86-73-7	Fluorene		6.4	U
100-01-6	4-Nitroaniline		180	U
534-52-1	4,6-Dinitro-2-methylphenol		210	U
86-30-6	N-Nitrosodiphenylamine		12	U
101-55-3	4-Bromophenyl-phenylether		23	U
118-74-1	Hexachlorobenzene		15	U
87-86-5	Pentachlorophenol		110	U
85-01-8	Phenanthrene		13	U
120-12-7	Anthracene		21	U
86-74-8	Carbazole		50	U
84-74-2	Di-n-butylphthalate		27	U
206-44-0	Fluoranthene		11	U
129-00-0	Pyrene		9.8	U
85-68-7	Butylbenzylphthalate		12	U
91-94-1	3,3'-Dichlorobenzidine		140	U
56-55-3	Benzo[a]anthracene		11	U
218-01-9	Chrysene		18	U
117-81-7	bis(2-Ethylhexyl)phthalate		63	U
117-84-0	Di-n-octylphthalate		17	U
205-99-2	Benzo[b]fluoranthene		100	U
207-08-9	Benzo[k]fluoranthene		98	U
50-32-8	Benzo[a]pyrene		14	U
193-39-5	Indeno [1,2,3-cd] pyrene		26	U
53-70-3	Dibenz[a,h]anthracene		50	U
191-24-2	Benzo[g,h,i]perylene		8.4	U

J

J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

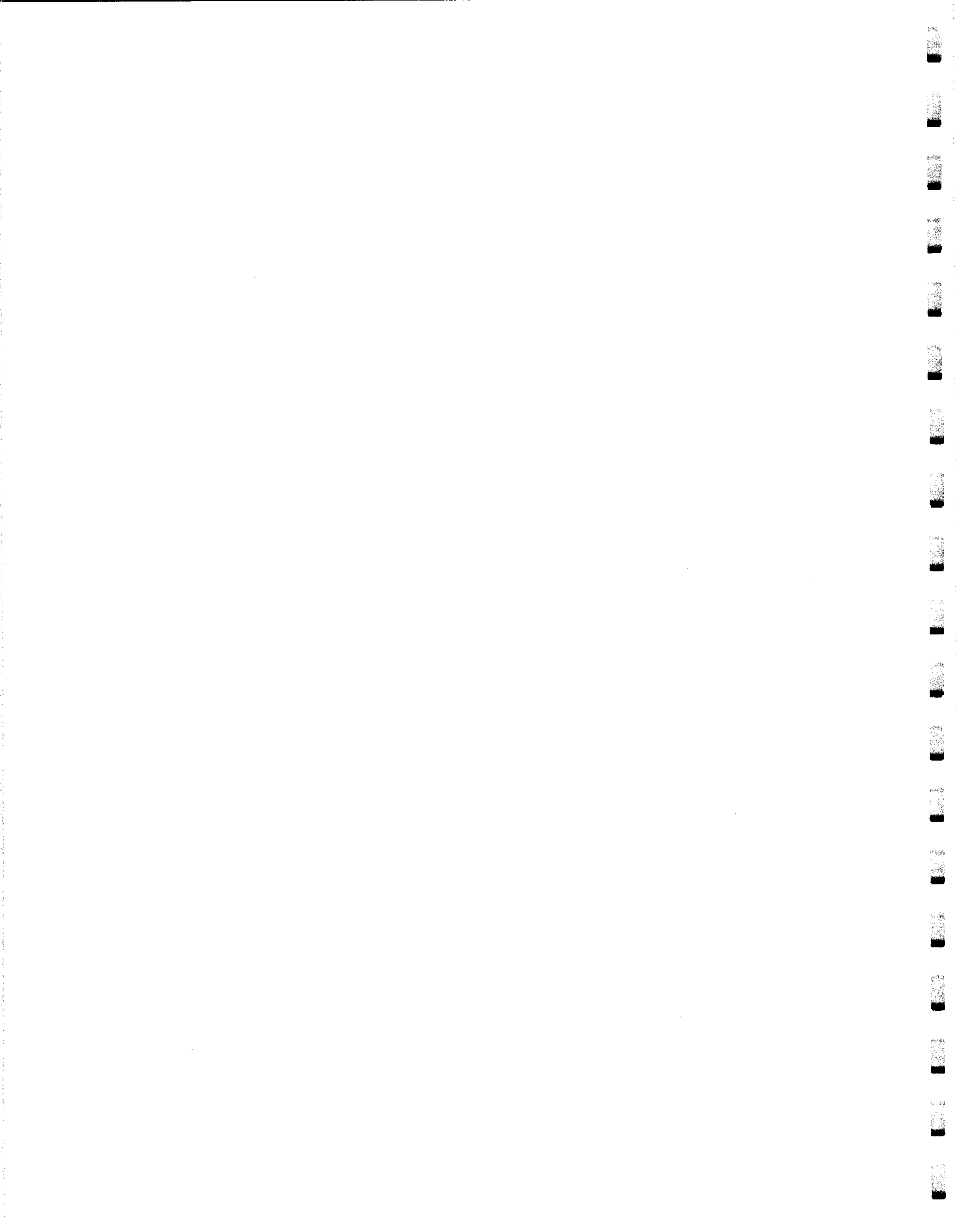
SS-UP-02 6-12

Lab Name: CHEMTECH Contract: DELAWARE ENGINEERING, P.C.
 Project No.: 1295 Site: _____ Location: _____ Group: SED-1
 Matrix: (soil/water) SOIL Lab Sample ID: O81371
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S21083.D
 Level: (low/med) LOW Date Received: 8/11/99
 % Moisture: 2 decanted: (Y/N) N Date Extracted: 8/11/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/31/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

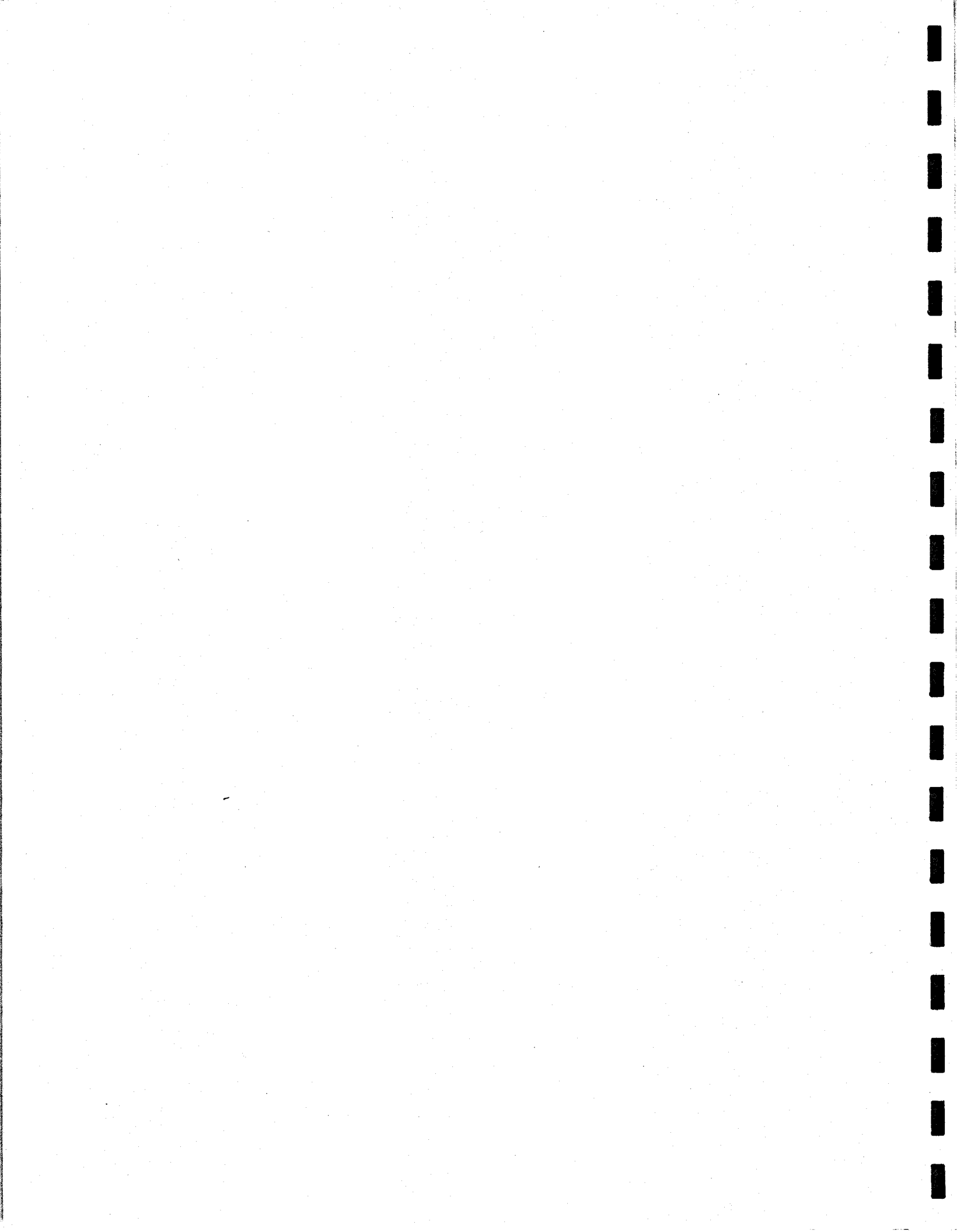
Number TICs found: 19 (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc	Q
1. 2639-63-6	Butanoic acid, hexyl ester	14.20	180	J
2.	Butyl hexadecanoate	25.41	390	J
3. 638-67-5	Tricosane	26.63	180	J
4. 123-95-5	Octadecanoic acid, butyl est	27.59	340	J
5. 646-31-1	Tetracosane	27.68	150	J
6. 822-20-8	1-Heptadecanol, acetate	27.84	150	J
7. 2136-70-1	Ethanol, 2-(tetradecyloxy)-	28.70	490	J
8. 629-78-7	Heptadecane	29.68	160	J
9. 593-45-3	Octadecane	30.65	330	J
10. 629-97-0	Docosane	31.55	140	J
11. 630-06-8	Hexatriacontane	32.46	530	J
12.	Unknown	33.71	290	J
13.	Unknown	34.16	320	J
14.	Unknown	35.53	1100	J
15.	Unknown	35.88	240	J
16.	Unknown	36.21	240	J
17.	Unknown	36.49	330	J
18.	Unknown	36.75	190	J
19.	Unknown	38.52	390	J
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APPENDIX C-4

RAILROAD BED SURFACE SOIL DATA SHEETS



REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: ANTHONY M.NOCE

DATE: 09/01/99

PROJECT # 12956 ASP

SAMPLE NUMBER- 81368
DATE SAMPLED- 08/10/99
DATE RECEIVED- 08/11/99
DELIVERED BY- FEDEX

SAMPLE ID- SS-RR-02(6-12)
TIME SAMPLED- 0733 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		RESULT	UNITS
		DATE	TIME BY		
SOLIDS, PERCENT	160.3	08/11/99	BP	95.91	%
FLOURIDE	340.2	08/23/99	HNP	<10.42	mg/Kg

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

SS-RR-01(6-12)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12956

Matrix (soil/water): SCIL Lab Sample ID: 81367S

Level (low/med): LOW Date Received: 08/11/99

% Solids: 98.1

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	27.0	-		P
7439-92-1	Lead	305			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

000014
9/3/99
ILM03.0

NYSDEC SAMPLE #

INORGANIC ANALYSIS DATA SHEET

SS-RR-02(6-12)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12956

Matrix (soil/water): SOIL Lab Sample ID: 81368S

Level (low/med): LOW Date Received: 08/11/99

Solids: 95.9

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	26.5			P
7439-92-1	Lead	57.0			P

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: ANTHONY M. NOCE

DATE: 09/01/99

PROJECT # 12956 ASP

SAMPLE NUMBER- 81367
DATE SAMPLED- 08/10/99
DATE RECEIVED- 08/11/99
DELIVERED BY- FEDEX

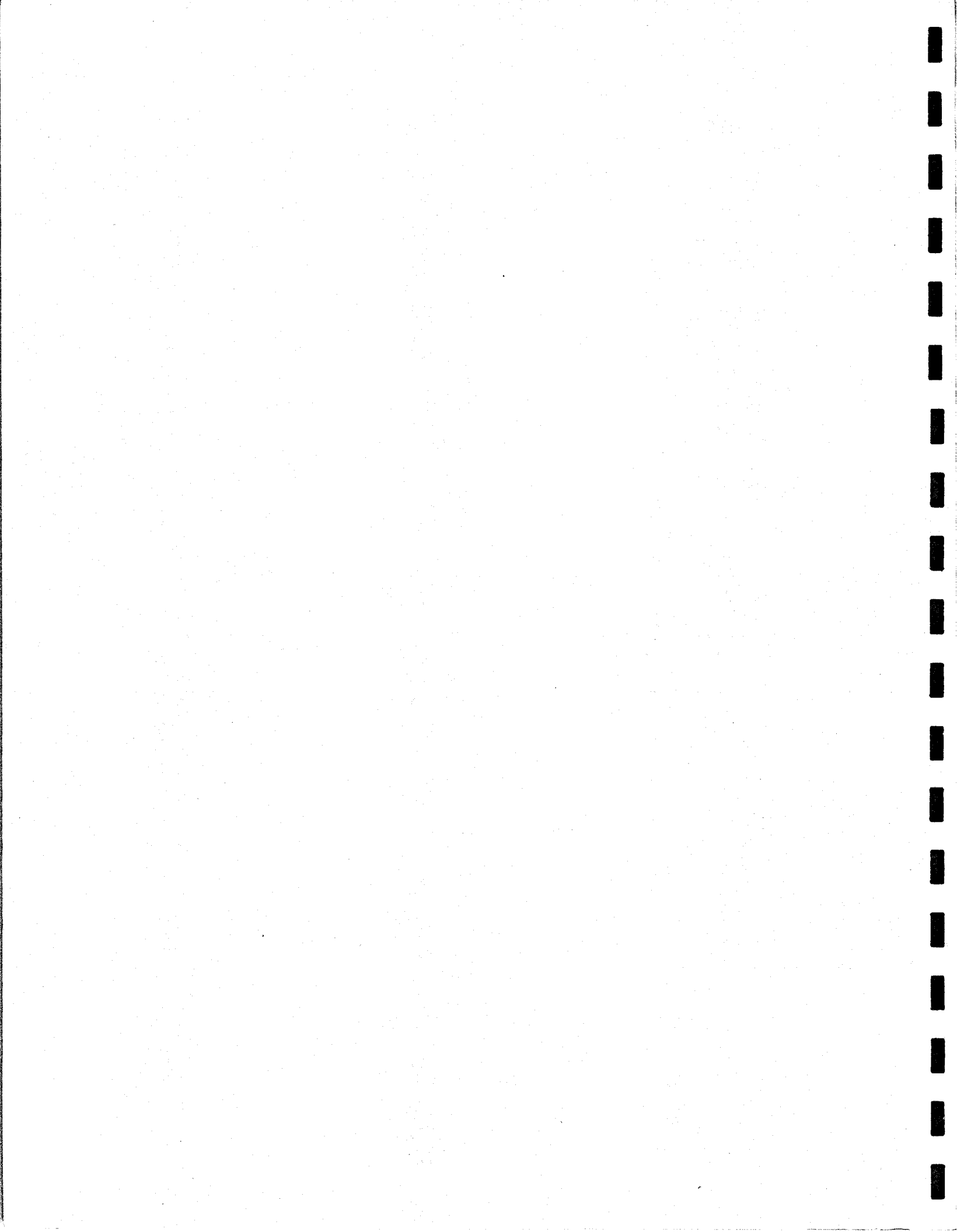
SAMPLE ID- SS-RR-01(6-12)
TIME SAMPLED- 0714 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/11/99		BP	98.08 %
FLOURIDE	340.2	08/23/99		HNP	<10.19 mg/Kg

APPENDIX C-5

SEDIMENT DATA SHEETS



INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

SED-1

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 12956

Matrix (soil/water): SOIL

Lab Sample ID: 81363S

Level (low/med): LOW

Date Received: 08/11/99

% Solids: 26.8

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	90.1	-		P
7439-92-1	Lead	88.4	-		P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

SED-2

Lab Name: CHEMTECH CONSULTING GROUP Contract:
Lab Code: CHEM Case No.: SAS No.: SDG No.: 12956
Matrix (soil/water): SOIL Lab Sample ID: 81364S
Level (low/med): LOW Date Received: 08/11/99
Solids: 60.4

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	37.3			P
7439-92-1	Lead	24.9			P

Color Before: GREY Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:
Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

SED-3

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM

Case No.:

SAS No.:

SDG No.: 12956

Matrix (soil/water): SOIL

Lab Sample ID: 81365S

Level (low/med): LOW

Date Received: 08/11/99

% Solids: 21.7

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	67.7	B		P
7439-92-1	Lead	58.3			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE #

SED-4MG/MSD *EP*

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12956

Matrix (soil/water): SOIL Lab Sample ID: 81366S

Level (low/med): LOW Date Received: 08/11/99

% Solids: 64.9

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

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	23.5	B		P
7439-92-1	Lead	294			P

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

000612
2
9/8/99
ILM03.0

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: ANTHONY M.NOCE

DATE: 09/01/99

PROJECT # 12956 ASP

SAMPLE NUMBER- 81363
DATE SAMPLED- 08/10/99
DATE RECEIVED- 08/11/99
DELIVERED BY- FEDEX

SAMPLE ID- SED-1
TIME SAMPLED- 0833 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/11/99		BP	26.83 %
FLOURIDE	340.2	08/23/99		HNP	<37.27 mg/Kg

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: ANTHONY M.NOCE

DATE: 09/01/99

PROJECT # 12956 ASP

SAMPLE NUMBER- 81364
DATE SAMPLED- 08/10/99
DATE RECEIVED- 08/11/99
DELIVERED BY- FEDEX

SAMPLE ID- SED-2
TIME SAMPLED- 0758 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/11/99		BP	60.36 %
FLOURIDE	340.2	08/23/99		HNP	<16.56 mg/Kg

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: ANTHONY M.NOCE

DATE: 09/01/99

PROJECT # 12956 ASP

SAMPLE NUMBER- 81365
DATE SAMPLED- 08/10/99
DATE RECEIVED- 08/11/99
DELIVERED BY- FEDEX

SAMPLE ID- SED-3
TIME SAMPLED- 0820 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS		RESULT	UNITS
		DATE	TIME BY		
SOLIDS, PERCENT	160.3	08/11/99	BP	21.71	%
FLOURIDE	340.2	08/23/99	HNP	53.9	mg/Kg

REPORT OF ANALYSES

DELAWARE ENGINEERING, P.C.
28 MADISON AVE
ALBANY, NY 12203-
Attn: ANTHONY M. NOCE

DATE: 09/01/99

PROJECT # 12956 ASP

SAMPLE NUMBER- 81366
DATE SAMPLED- 08/10/99
DATE RECEIVED- 08/11/99
DELIVERED BY- FEDEX

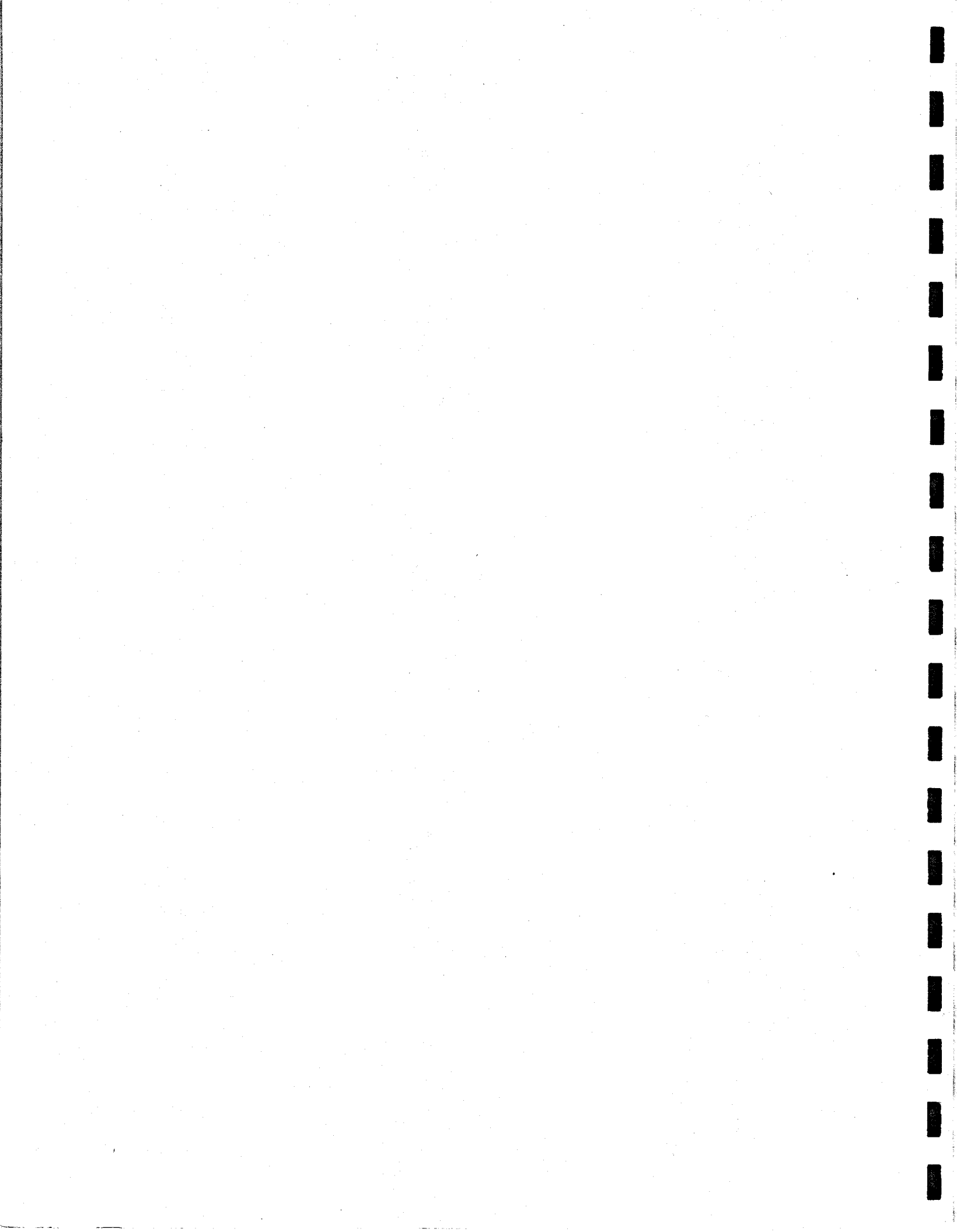
SAMPLE ID- SED-4 MS/MSD *608*
TIME SAMPLED- 0745 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
SOLIDS, PERCENT	160.3	08/11/99		BP	64.91 %
FLOURIDE	340.2	08/23/99		HNP	17.74 mg/Kg

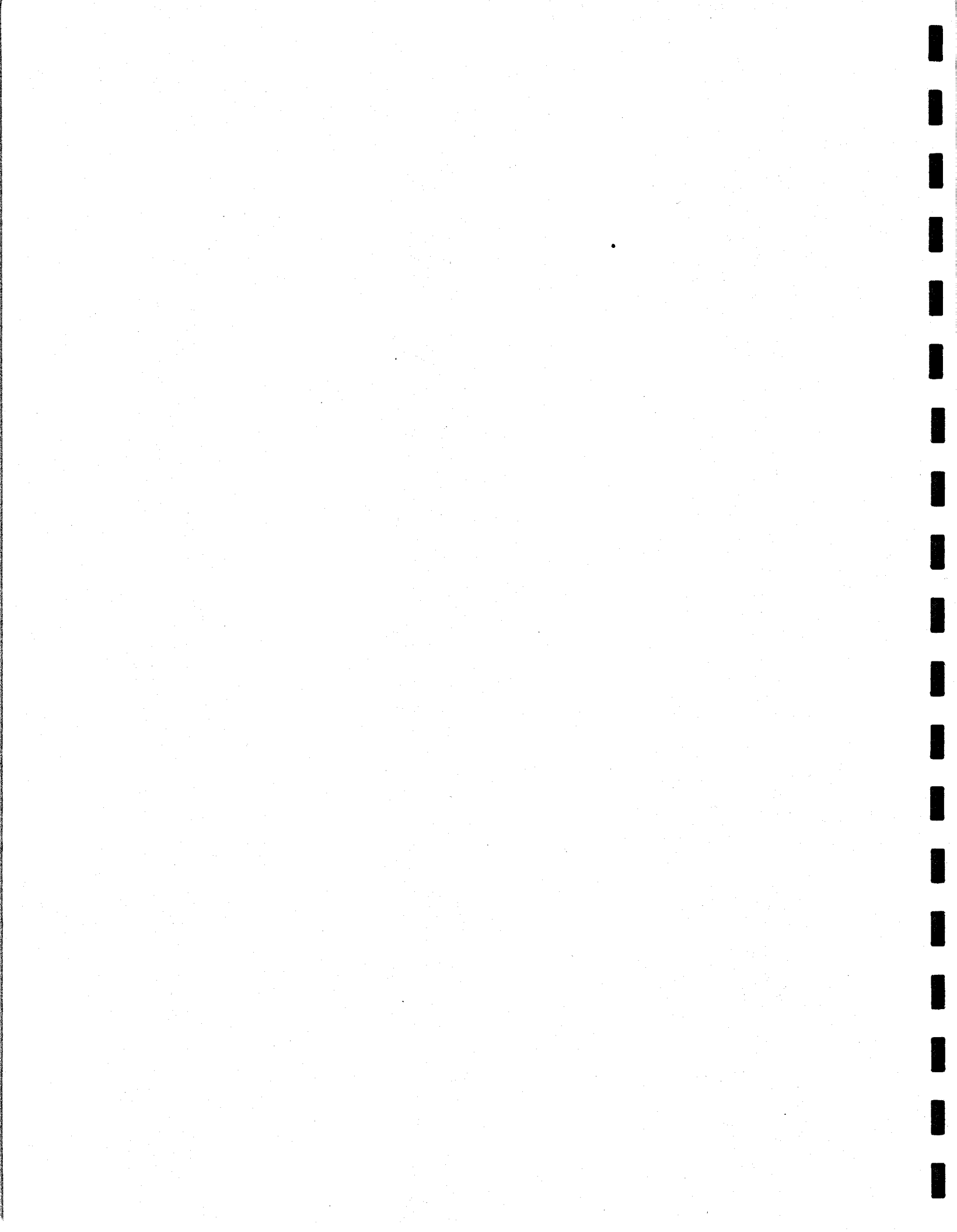
APPENDIX D

**JANUARY AND MARCH 2000
LABORATORY REPORTING SHEETS**



APPENDIX D-1

**FEBRUARY AND MARCH 2000
SWARTWOUT WELL DATA SHEETS**



U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

10-minswt.well

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SWT _____

Matrix (soil/water): WATER Lab Sample ID: 2-75-2

Level (low/med): LOW Date Received: 02/08/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	75.3	B		P
7440-36-0	Antimony	7.7	U		P
7440-38-2	Arsenic	24.5		*	P
7440-39-3	Barium	120	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	24200			P
7440-47-3	Chromium	3.0	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	133			P
7439-92-1	Lead	3.8	U		P
7439-95-4	Magnesium	3290	B		P
7439-96-5	Manganese	37.5		E	P
7439-97-6	Mercury	0.09	U	N	AV
7440-02-0	Nickel	4.0	U		P
7440-09-7	Potassium	512	B		A
7782-49-2	Selenium	0.80	U		F
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	21100			A
7440-28-0	Thallium	1.8	U		F
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	5.7	B		P
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-75-2D

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SWT _____

Matrix (soil/water): WATER Lab Sample ID: 2-75-2D

Level (low/med): LOW Date Received: 02/08/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.09	U	N	AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10 MIN. SWT WELL RE

Lab Name: SCILAB Albany, Inc.
 Lab Code: 10358
 Matrix: (soil/water) WATER
 Sample wt/vol: 1000 ml
 Moisture: not dec. decanted: (Y/N) N
 Extraction: (SepF/Cont/Sonc) Sonc
 Concentrated Extract Volume: 10000 (uL)
 Injection Volume: 1
 GPC Cleanup : (Y/N) Y

Contract: _____
 SDG No.: SWT
 Lab Sample ID: 0002-075-02 RE
 Lab File ID: _____
 Date Received: 02/08/2000
 Date Extracted: 02/10/2000
 Date Analyzed: 02/13/2000
 Dilution Factor: 1
 Sulfur Cleanup: N

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNITS: <u>ug/L</u> (ug/L OR ug/Kg)	
309-00-2	Aldrin	0.05	U
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
319-86-8	delta-bhc	0.05	U
5103-71	Chlordane	0.5	U
50-29-3	4,4-DDT	0.05	U
72-55-9	4,4-DDE	0.05	U
72-54-8	4,4-DDD	0.05	U
60-57-1	Dieldrin	0.06	
959-98-8	Endosulfan I	0.05	U
33213-65-9	Endosulfan II	0.05	U
1031-07-8	Endosulfan Sulfate	0.05	U
72-20-8	Endrin	0.05	U
7421-36-3	Endrin Aldehyde	0.05	U
76-44-8	Heptachlor	0.05	U
1024-57-3	Heptachlor Epoxide	0.05	U
8001-35-2	Toxaphene	5.0	U
72-43-5	Methoxychlor	0.05	U
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	2.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	1.3	
11096-82-5	PCB1260	1.0	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10 MIN. SWT WELL

Lab Name: SCILAB Albany, Inc.
 Lab Code: 10358
 Matrix: (soil/water) WATER
 Sample wt/vol: 1000 ml
 % Moisture: not dec. decanted: (Y/N) N
 Extraction: (SepF/Cont/Sonc) Sonc
 Concentrated Extract Volume: 10000 (uL)
 Injection Volume: 1
 GPC Cleanup : (Y/N) Y

Contract: _____
 SDG No.: SWT
 Lab Sample ID: 0002-075-02
 Lab File ID: _____
 Date Received: 02/08/2000
 Date Extracted: 02/10/2000
 Date Analyzed: 02/16/2000
 Dilution Factor: 1
 Sulfur Cleanup: N

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNITS: <u>ug/L</u> (ug/L OR ug/Kg)	
309-00-2	Aldrin	0.05	U
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
319-86-8	delta-bhc	0.05	U
5103-71	Chlordane	0.5	U
50-29-3	4,4-DDT	0.05	U
72-55-9	4,4-DDE	0.05	U
72-54-8	4,4-DDD	0.05	U
60-57-1	Dieldrin	0.1	
959-98-8	Endosulfan I	0.05	U
33213-65-9	Endosulfan II	0.05	U
1031-07-8	Endosulfan Sulfate	0.05	U
72-20-8	Endrin	0.05	U
7421-36-3	Endrin Aldehyde	0.05	U
76-44-8	Heptachlor	0.05	U
1024-57-3	Heptachlor Epoxide	0.05	U
8001-35-2	Toxaphene	5.0	U
72-43-5	Methoxychlor	0.05	U
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	2.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	1.4	P
11096-82-5	PCB1260	1.0	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1ST FLUSH SWT. WELL RE

Lab Name: SCILAB Albany, Inc.
 Lab Code: 10358
 Matrix: (soil/water) WATER
 Sample wt/vol: 1000 ml
 % Moisture: not dec. decanted: (Y/N) N
 Extraction: (SepF/Cont/Sonc) Sonc
 Concentrated Extract Volume: 10000 (uL)
 Injection Volume: 1
 EPC Cleanup : (Y/N) Y

Contract: _____
 SDG No.: SWT
 Lab Sample ID: 0002-075-01 RE
 Lab File ID: _____
 Date Received: 02/08/2000
 Date Extracted: 02/10/2000
 Date Analyzed: 02/13/2000
 Dilution Factor: 1
 Sulfur Cleanup: N

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS:	ug/L	
		(ug/L OR ug/Kg)		
309-00-2	Aldrin		0.05	U
319-84-6	alpha-BHC		0.05	U
319-85-7	beta-BHC		0.05	U
58-89-9	gamma-BHC		0.05	U
319-86-8	delta-bhc		0.05	U
5103-71	Chlordane		0.5	U
50-29-3	4,4-DDT		0.05	U
72-55-9	4,4-DDE		0.05	U
72-54-8	4,4-DDD		0.05	U
60-57-1	Dieldrin		0.06	
959-98-8	Endosulfan I		0.05	U
33213-65-9	Endosulfan II		0.05	U
1031-07-8	Endosulfan Sulfate		0.05	U
72-20-8	Endrin		0.05	U
7421-36-3	Endrin Aldehyde		0.05	U
76-44-8	Heptachlor		0.05	U
1024-57-3	Heptachlor Epoxide		0.05	U
8001-35-2	Toxaphene		5.0	U
72-43-5	Methoxychlor		0.05	U
12674-11-2	PCB1016		1.0	U
11104-28-2	PCB1221		2.0	U
11141-16-5	PCB1232		1.0	U
53469-21-9	PCB1242		1.0	U
12672-29-6	PCB1248		1.0	U
11097-69-1	PCB1254		1.2	
11096-82-5	PCB1260		1.0	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1ST FLUSH SWT. WELL

Lab Name: SCILAB Albany, Inc.
 Lab Code: 10358
 Matrix: (soil/water) WATER
 Sample wt/vol: 1000 ml
 % Moisture: not dec. decanted: (Y/N) N
 Extraction: (SepF/Cont/Sonc) Sonc
 Concentrated Extract Volume: 10000 (uL)
 Injection Volume: 1
 GPC Cleanup : (Y/N) Y

Contract: _____
 SDG No.: SWT
 Lab Sample ID: 0002-075-01
 Lab File ID: _____
 Date Received: 02/08/2000
 Date Extracted: 02/10/2000
 Date Analyzed: 02/16/2000
 Dilution Factor: 1
 Sulfur Cleanup: N

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS:	ug/L	
		(ug/L OR ug/Kg)		
309-00-2	Aldrin		0.05	U
319-84-6	alpha-BHC		0.05	U
319-85-7	beta-BHC		0.05	U
58-89-9	gamma-BHC		0.05	U
319-86-8	delta-bhc		0.05	U
5103-71	Chlordane		0.5	U
50-29-3	4,4-DDT		0.05	U
72-55-9	4,4-DDE		0.05	U
72-54-8	4,4-DDD		0.05	U
60-57-1	Dieldrin		0.10	
959-98-8	Endosulfan I		0.05	U
33213-65-9	Endosulfan II		0.05	U
1031-07-8	Endosulfan Sulfate		0.05	U
72-20-8	Endrin		0.05	U
7421-36-3	Endrin Aldehyde		0.05	U
76-44-8	Heptachlor		0.05	U
1024-57-3	Heptachlor Epoxide		0.05	U
8001-35-2	Toxaphene		5.0	U
72-43-5	Methoxychlor		0.05	U
12674-11-2	PCB1016		1.0	U
11104-28-2	PCB1221		2.0	U
11141-16-5	PCB1232		1.0	U
53469-21-9	PCB1242		1.0	U
12672-29-6	PCB1248		1.0	U
11097-69-1	PCB1254		1.5	
11096-82-5	PCB1260		1.0	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-MIN. SWT. WELL
0002-075-002

Lab Name: Expresslab Contract: SCILAB AL
 Lab Code: 11369 Case No.: 0002-075 SAS No.: _____ SDG No.: 0002-075
 Matrix: (soil/water) WATER Lab Sample ID: 32066
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: 00221010.D
 Level: (low/med) LOW Date Received: 2/10/00
 % Moisture: _____ decanted:(Y/N) Y Date Extracted: 2/14/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/21/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
	Phenol		10	U
	Bis(2-chloroethyl) ether		10	U
	2-Chlorophenol		10	U
	1,3-Dichlorobenzene		10	U
	1,4-Dichlorobenzene		10	U
	1,2-Dichlorobenzene		10	U
	2-Methylphenol		10	U
	2,2'-oxybis-(1-Chloropropane)		10	U
	4-Methylphenol		10	U
	N-Nitrosodi-n-propylamine		10	U
	Hexachloroethane		10	U
	Nitrobenzene		10	U
	Isophorone		10	U
	2-Nitrophenol		10	U
	2,4-Dimethylphenol		10	U
	Bis(2-chloroethoxy) methane		10	U
	2,4-Dichlorophenol		10	U
	1,2,4-Trichlorobenzene		10	U
	Naphthalene		10	U
	4-Chloroaniline		10	U
	Hexachlorobutadiene		10	U
	4-Chloro-3-methylphenol		10	U
	2-Methylnaphthalene		10	U
	Hexachlorocyclopentadiene		10	U
	2,4,6-Trichlorophenol		10	U
	2,4,5-Trichlorophenol		25	U
	2-Chloronaphthalene		10	U
	2-Nitroaniline		25	U
	Dimethyl phthalate		10	U
	Acenaphthylene		10	U
	3-Nitroaniline		25	U
	Acenaphthene		10	U
	2,4-Dinitrophenol		25	U
	4-Nitrophenol		25	U
	Dibenzofuran		10	U
	2,4-Dinitrotoluene		10	U
	2,6-Dinitrotoluene		10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0002-075-002

Lab Name: Expresslab Contract: SCILAB AL
 Lab Code: 11369 Case No.: 0002-075 SAS No.: _____ SDG No.: 0002-075
 Matrix: (soil/water) WATER Lab Sample ID: 32066
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: 00221010.D
 Level: (low/med) LOW Date Received: 2/10/00
 % Moisture: _____ decanted:(Y/N) Y Date Extracted: 2/14/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/21/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
	Diethyl phthalate		10	U
	4-Chlorophenyl phenyl ether		10	U
	Fluorene		10	U
	4-Nitroaniline		25	U
	4,6-Dinitro-2-methylphenol		25	U
	N-Nitrosodiphenylamine		10	U
	4-Bromophenyl phenyl ether		10	U
	Hexachlorobenzene		10	U
	Pentachlorophenol		25	U
	Phenanthrene		10	U
	Carbazole		10	U
	Anthracene		10	U
	Di-n-butyl phthalate		10	U
	Fluoranthene		10	U
	Pyrene		10	U
	Butyl benzyl phthalate		10	U
	3,3'-Dichlorobenzidine		10	U
	Benzo(a)anthracene		10	U
	Bis(2-ethylhexyl) phthalate		10	U
	Chrysene		10	U
	Di-n-octyl phthalate		10	U
	Benzo(b)fluoranthene		10	U
	Benzo(k)fluoranthene		10	U
	Benzo(a)pyrene		10	U
	Indeno(1,2,3-c,d)pyrene		10	U
	Dibenz(a,h)anthracene		10	U
	Benzo(g,h,i)perylene		10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0002-075-002

Lab Name: Expresslab Contract: SCILAB AL
 Lab Code: 11369 Case No.: 0002-075 SAS No.: _____ SDG No.: 0002-075
 Matrix: (soil/water) WATER Lab Sample ID: 32066
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: 00221010.D
 Level: (low/med) LOW Date Received: 2/10/00
 % Moisture: _____ decanted: (Y/N) Y Date Extracted: 2/14/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/21/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 004919-10-2	s-Triazolo[4,3-a]pyridine, 7-meth	11.66	2	JN
2. 050868-72-9	Benzenamine, 5-methoxy-2-met	13.06	3	JN
3. 053975-70-5	3H-Pyrazolo[3,4-c]pyridin-3-one,	13.13	7	JN
4. 015083-26-8	4-Benzylidene-1-phenyl-3,5-diox	32.15	2	JN

K-2-21-00

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AST-FLUSH & WELLS
0002-075-001

Lab Name: Expresslab Contract: SCILAB AL

Lab Code: 11369 Case No.: 0002-075 SAS No.: _____ SDG No.: 0002-075

Matrix: (soil/water) WATER Lab Sample ID: 32065

Sample wt/vol: 1000 (g/ml) ML Lab File ID: 00221009.D

Level: (low/med) LOW Date Received: 2/10/00

% Moisture: _____ decanted:(Y/N) Y Date Extracted: 2/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/21/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
	Phenol		10	U
	Bis(2-chloroethyl) ether		10	U
	2-Chlorophenol		10	U
	1,3-Dichlorobenzene		10	U
	1,4-Dichlorobenzene		10	U
	1,2-Dichlorobenzene		10	U
	2-Methylphenol		10	U
	2,2'-oxybis-(1-Chloropropane)		10	U
	4-Methylphenol		10	U
	N-Nitrosodi-n-propylamine		10	U
	Hexachloroethane		10	U
	Nitrobenzene		10	U
	Isophorone		10	U
	2-Nitrophenol		10	U
	2,4-Dimethylphenol		10	U
	Bis(2-chloroethoxy) methane		10	U
	2,4-Dichlorophenol		10	U
	1,2,4-Trichlorobenzene		10	U
	Naphthalene		10	U
	4-Chloroaniline		10	U
	Hexachlorobutadiene		10	U
	4-Chloro-3-methylphenol		10	U
	2-Methylnaphthalene		10	U
	Hexachlorocyclopentadiene		10	U
	2,4,6-Trichlorophenol		10	U
	2,4,5-Trichlorophenol		25	U
	2-Chloronaphthalene		10	U
	2-Nitroaniline		25	U
	Dimethyl phthalate		10	U
	Acenaphthylene		10	U
	3-Nitroaniline		25	U
	Acenaphthene		10	U
	2,4-Dinitrophenol		25	U
	4-Nitrophenol		25	U
	Dibenzofuran		10	U
	2,4-Dinitrotoluene		10	U
	2,6-Dinitrotoluene		10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0002-075-001

Lab Name: Expresslab Contract: SCILAB AL
 Lab Code: 11369 Case No.: 0002-075 SAS No.: _____ SDG No.: 0002-075
 Matrix: (soil/water) WATER Lab Sample ID: 32065
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: 00221009.D
 Level: (low/med) LOW Date Received: 2/10/00
 % Moisture: _____ decanted:(Y/N) Y Date Extracted: 2/14/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/21/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/L</u>	Q
	Diethyl phthalate	10	U
	4-Chlorophenyl phenyl ether	10	U
	Fluorene	10	U
	4-Nitroaniline	25	U
	4,6-Dinitro-2-methylphenol	25	U
	N-Nitrosodiphenylamine	10	U
	4-Bromophenyl phenyl ether	10	U
	Hexachlorobenzene	10	U
	Pentachlorophenol	25	U
	Phenanthrene	10	U
	Carbazole	10	U
	Anthracene	10	U
	Di-n-butyl phthalate	10	U
	Fluoranthene	10	U
	Pyrene	10	U
	Butyl benzyl phthalate	10	U
	3,3'-Dichlorobenzidine	10	U
	Benzo(a)anthracene	10	U
	Bis(2-ethylhexyl) phthalate	10	U
	Chrysene	10	U
	Di-n-octyl phthalate	10	U
	Benzo(b)fluoranthene	10	U
	Benzo(k)fluoranthene	10	U
	Benzo(a)pyrene	10	U
	Indeno(1,2,3-c,d)pyrene	10	U
	Dibenz(a,h)anthracene	10	U
	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0002-075-001

Lab Name: Expresslab Contract: SCILAB AL
 Lab Code: 11369 Case No.: 0002-075 SAS No.: _____ SDG No.: 0002-075
 Matrix: (soil/water) WATER Lab Sample ID: 32065
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: 00221009.D
 Level: (low/med) LOW Date Received: 2/10/00
 % Moisture: _____ decanted: (Y/N) Y Date Extracted: 2/14/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/21/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000504-01-8	1,3-Cyclohexanediol \$\$ Resorcitol	11.59	2	JN
2. 000000-00-0	4,4-Dinitro-4,5,6,7-tetrahydrobenzofuran	13.52	2	JN
3. 000000-00-0	3-Phenyl-4-(salicylideneamino)fu	32.05	3	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

10 min swt. well

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No _____ Site: _____ Location: _____ Group: 1st F

Matrix: (soil/water) WATER Lab Sample ID: 002-075-002

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E3415.D

Level: (low/med) LOW Date Received: 02/07/00

% Moisture: not dec. _____ Date Analyzed: 02/15/00

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

10 min swt. well

Lab Name: SCILAB GROUP OF ALBANY Contract: _____
Project No _____ Site: _____ Location: _____ Group: 1st F
Matrix: (soil/water) WATER Lab Sample ID: 002-075-002
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E3415.D
Level: (low/med) LOW Date Received: 02/07/00
% Moisture: not dec. _____ Date Analyzed: 02/15/00
GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

st Flush swt. we

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No _____ Site: _____ Location: _____ Group: 1st F

Matrix: (soil/water) WATER Lab Sample ID: 002-075-001

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E3414.D

Level: (low/med) LOW Date Received: 02/07/00

% Moisture: not dec. _____ Date Analyzed: 02/15/00

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

st Flush swt. we

Lab Name: SCILAB GROUP OF ALBANY Contract: _____
 Project No _____ Site: _____ Location: _____ Group: 1st F
 Matrix: (soil/water) WATER Lab Sample ID: 002-075-001
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E3414.D
 Level: (low/med) LOW Date Received: 02/07/00
 % Moisture: not dec. _____ Date Analyzed: 02/15/00
 GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000071-23-8	1-Propanol	9.46	7	JN

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10MINSW

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413403

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

Lab File ID: 07AR001646-I181

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/08/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

1STSW

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413404

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

Lab File ID: 07AR001646-I191

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/08/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

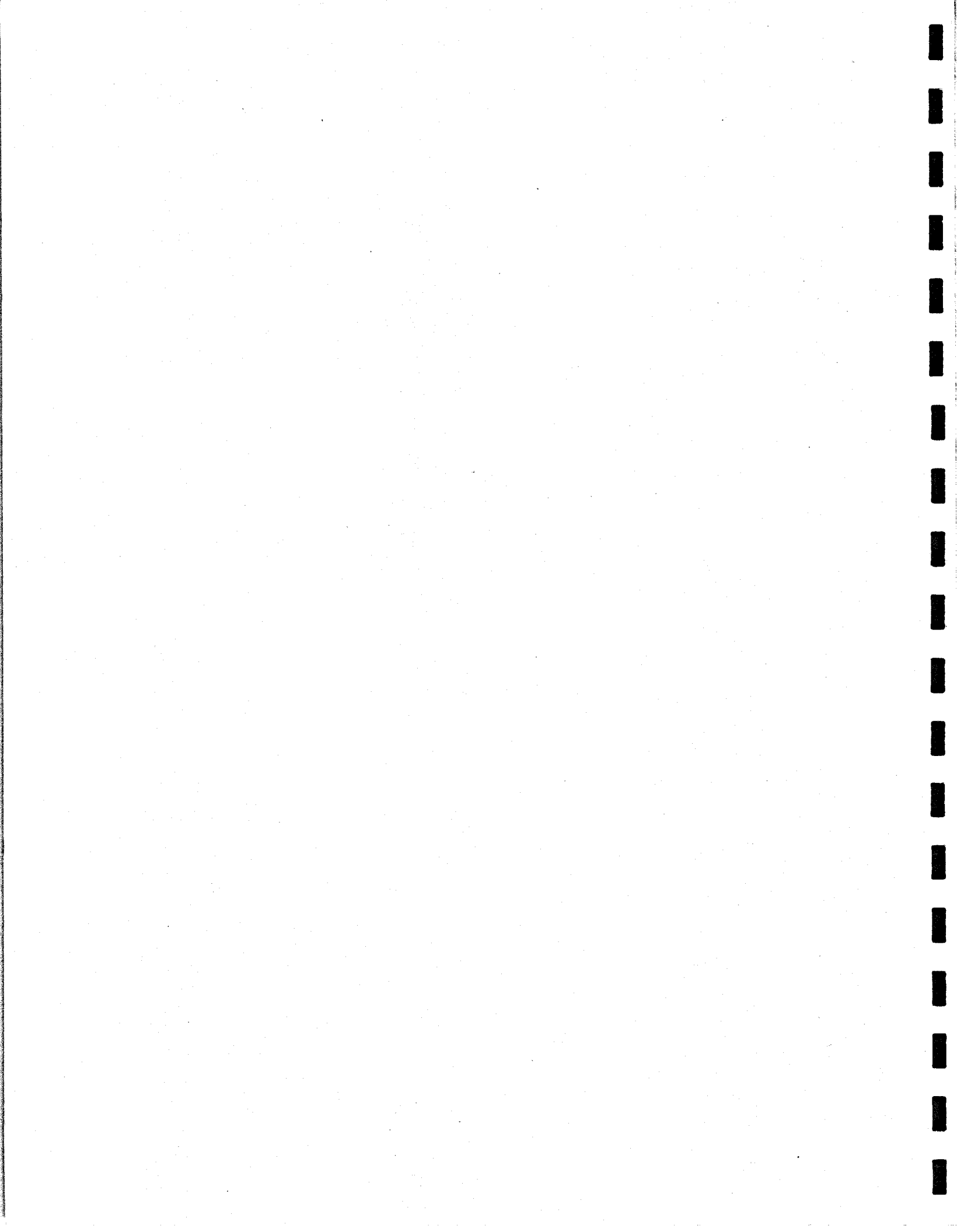
Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

APPENDIX D-2

**JANUARY AND MARCH 2000
GROUND WATER MONITORING WELL DATA SHEETS**



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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

SOW No.: ILM02.1

EPA Sample No.	Lab Sample ID
179-001	179-001 MW-6
179-002	179-002 MW-7
179-003	179-003 MW-8
179-004	179-004 MW-9
179-005	179-005 MW-10
179-006	179-006 MW-12
179-006D	179-006D MW-12 MS
179-006S	179-006S MW-12 Dup
179-007	179-007 MW-13
179-008	179-008 Blank
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Were ICP interelement corrections applied ? Yes/No NO_

Were ICP background corrections applied ? Yes/No NO_

If yes - were raw data generated before application of background corrections ? Yes/No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

179-001
MW-6

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

Matrix (soil/water): WATER Lab Sample ID: 179-001

Level (low/med): LOW Date Received: 01/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.99	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

179-002
mw-7

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

Matrix (soil/water): WATER

Lab Sample ID: 179-002

Level (low/med): LOW__

Date Received: 01/14/00

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.6	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

179-003
MW-8

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

Matrix (soil/water): WATER Lab Sample ID: 179-003

Level (low/med): LOW Date Received: 01/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: _____ Contract: _____

179-004
MW-9

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

Matrix (soil/water): WATER Lab Sample ID: 179-004

Level (low/med): LOW Date Received: 01/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

179-005
MW-10

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

Matrix (soil/water): WATER

Lab Sample ID: 179-005

Level (low/med): LOW

Date Received: 01/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.88	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

179-006
Mw-12

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

Matrix (soil/water): WATER

Lab Sample ID: 179-006

Level (low/med): LOW__

Date Received: 01/14/00

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: _____ Contract: _____

179-007 MW-13

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 179-00

Matrix (soil/water): WATER Lab Sample ID: 179-007

Level (low/med): LOW Date Received: 01/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

179-008

Blank

Lab Name: _____

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: 179-00

Matrix (soil/water): WATER

Lab Sample ID: 179-008

Level (low/med): LOW__

Date Received: 01/14/00

% Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13 RE

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) water Lab Sample ID: 0001-00179-07 RE

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90203a-013

% Moisture not decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 01/18/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/03/2000

Injection Volume: 1 (ul) Dilution Factor 1

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNIT	ug/L	
12674-11-2	PCB1016		1	U
11104-28-2	PCB1221		2	U
11141-16-5	PCB1232		1	U
53469-21-9	PCB1242		1	U
12672-29-6	PCB1248		1	U
11097-69-1	PCB1254		1.4	B
11096-82-5	PCB1260		1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: SCILAB Albany, Inc. Contract

Lab Code: 10358 SAS No.: SDG No.: C & D

Matrix: (soil/water) water Lab Sample ID: 0001-00179-07

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90201a-028

% Moisture not decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 01/18/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 1

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNITS: <u>ug/L</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	1.5	B
11096-82-5	PCB1260	1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12 RE

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) water Lab Sample ID: 0001-00179-06 RE

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90203a-005

% Moisture NOT decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/18/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/03/2000

Injection Volume: 1 (ul) Dilution Factor 1

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNIT <u>ug/L</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	0.5	J B
11096-82-5	PCB1260	1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) water Lab Sample ID: 0001-00179-06
 Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90201c5-020
 Moisture NOT decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/18/2000
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/02/2000
 Injection Volume: 1 (ul) Dilution Factor: 1

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS:	ug/L	
		(ug/L OR ug/Kg)		
12674-11-2	PCB1016		1	U
11104-28-2	PCB1221		2	U
11141-16-5	PCB1232		1	U
53469-21-9	PCB1242		1	U
12672-29-6	PCB1248		1	U
11097-69-1	PCB1254		0.5	J B
11096-82-5	PCB1260		1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 RE

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) WATER Lab Sample ID: 0001-0179-005 RE

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90203a-012

% Moisture 12.8 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 01/18/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/03/2000

Injection Volume: 1 (ul) Dilution Factor 1

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNIT	ug/l	
12674-11-2	PCB1016		1	U
11104-28-2	PCB1221		2	U
11141-16-5	PCB1232		1	U
53469-21-9	PCB1242		1	U
12672-29-6	PCB1248		1	U
11097-69-1	PCB1254		0.9	J B
11096-82-5	PCB1260		1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: SCILAB Albany, Inc.Contract Lab Code: 10358SAS No.: SDG No.: C & DMatrix: (soil/water) WATERLab Sample ID: 0001-0179-005Sample wt/vol: 1000 (g/ml) mlLab File ID: GC90201a-20% Moisture 12.8 decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SepFDate Extracted: 01/18/2000Concentrated Extract Volume: 10000 (uL)Date Analyzed: 02/02/2000Injection Volume: 1 (ul)Dilution Factor: 1

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNITS: <u>ug/l</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	0.9	J B
11096-82-5	PCB1260	1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9 RE

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) water Lab Sample ID: 0001-179-04 RE

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90203a-011

% Moisture not decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 01/18/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 02/03/2000

Injection Volume: 1 (ul) Dilution Factor 1

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNIT <u>ug/l</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	0.9	J B
11096-82-5	PCB1260	1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: SCILAB Albany, Inc.

Contract _____

Lab Code: 10358

SAS No.: _____

SDG No.: C & DMatrix: (soil/water) waterLab Sample ID: 0001-179-04Sample wt/vol: 1000 (g/ml) mlLab File ID: GC90201a-026% Moisture not decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SepFDate Extracted: 01/18/2000Concentrated Extract Volume: 1000 (uL)Date Analyzed: 02/02/2000Injection Volume: 1 (ul)Dilution Factor: 1

CAS. NO.	COMPOUND	CONCENTRATION	
		UNITS: <u>ug/l</u> (ug/L OR ug/Kg)	Q
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	0.9	J B
11096-82-5	PCB1260	1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8 RE

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) water Lab Sample ID: 0001-0179-03 RE

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90203a-011

% Moisture not decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/18/2000

Concentrated Extract Volume: 10000 (ul) Date Analyzed: 02/03/2000

Injection Volume: 1 (ul) Dilution Factor 1

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNIT	ug/L	
12674-11-2	PCB1016		1	U
11104-28-2	PCB1221		2	U
11141-16-5	PCB1232		1	U
53469-21-9	PCB1242		1	U
12672-29-6	PCB1248		1	U
11097-69-1	PCB1254		0.9	J B
11096-82-5	PCB1260		1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) water Lab Sample ID: 0001-0179-03
 Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90201a-25
 % Moisture not decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/18/2000
 Concentrated Extract Volume: 10000 (ul) Date Analyzed: 02/02/2000
 Injection Volume: 1 (ul) Dilution Factor: 1

CAS. NO.	COMPOUND	CONCENTRATION	
		UNITS: <u>ug/L</u>	Q
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	0.9	J B
11096-82-5	PCB1260	1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7 RE

Lab Name: SCILAB Albany, Inc. Contract

Lab Code: 10358 SAS No.: SDG No.: C & D

Matrix: (soil/water) water Lab Sample ID: 0001-179-02 RE

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90203a-009

% Moisture not decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 01/18/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/03/2000

Injection Volume: 1 (ul) Dilution Factor 1

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNIT	ug/l	
		(ug/L OR ug/Kg)		
12674-11-2	PCB1016		1	U
11104-28-2	PCB1221		2	U
11141-16-5	PCB1232		1	U
53469-21-9	PCB1242		1	U
12672-29-6	PCB1248		1	U
11097-69-1	PCB1254		1.1	B
11096-82-5	PCB1260		1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) water Lab Sample ID: 0001-179-02
 Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC9201a-023
 Moisture not decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 01/18/2000
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/02/2000
 Injection Volume: 1 (ul) Dilution Factor: 1

CAS. NO.	COMPOUND	CONCENTRATION	
		UNITS: <u>ug/l</u> (ug/L OR ug/Kg)	Q
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	1.1	B
11096-82-5	PCB1260	1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6 RE

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) water Lab Sample ID: 0001-00179-01 RE

Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90203a-008

% Moisture not decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/18/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/03/2000

Injection Volume: 1 (ul) Dilution Factor 1

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNIT	ug/l	
12674-11-2	PCB1016		1	U
11104-28-2	PCB1221		2	U
11141-16-5	PCB1232		1	U
53469-21-9	PCB1242		1	U
12672-29-6	PCB1248		1	U
11097-69-1	PCB1254		0.9	J B
11096-82-5	PCB1260		1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) water Lab Sample ID: 0001-00179-01
 Sample wt/vol: 1000 (g/ml) ml Lab File ID: GC90201a/023
 Moisture not decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/18/2000
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 02/02/2000
 Injection Volume: 1 (ul) Dilution Factor: 1

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNITS: <u>ug/l</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	1	U
11104-28-2	PCB1221	2	U
11141-16-5	PCB1232	1	U
53469-21-9	PCB1242	1	U
12672-29-6	PCB1248	1	U
11097-69-1	PCB1254	0.9	J B
11096-82-5	PCB1260	1	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413398

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

Lab File ID: 07AR001646-I101

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413399

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

Lab File ID: 07AR001646-I111

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER Lab Sample ID: 413400

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 07AR001646-I121

% Moisture: _____ decanted: (Y/N) _____ Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL) Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL) Dilution Factor: 1.0

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

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413401

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

Lab File ID: 07AR001646-I131

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413394

Sample wt/vol: 990.0 (g/mL) ML

Lab File ID: 07AR001646-I061

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.24	B
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413395

Sample wt/vol: 990.0 (g/mL) ML

Lab File ID: 07AR001646-I071

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.067	BP
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7DUP

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER Lab Sample ID: 413402

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 07AR001646-I171

% Moisture: _____ decanted: (Y/N) _____ Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL) Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL) Dilution Factor: 1.0

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

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.084	BP
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413396

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

Lab File ID: 07AR001646-I081

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413397

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

Lab File ID: 07AR001646-I091

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/07/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.050	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

1STSWMS

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER Lab Sample ID: 413404MS

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 07AR001646-I201

% Moisture: _____ decanted: (Y/N) _____ Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL) Date Analyzed: 04/08/00

Injection Volume: 0.5 (uL) Dilution Factor: 1.0

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

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.45	_____

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

1STSWMSD

Lab Name: SEVERN TRENT LABORATORIES Contract: 20000

Lab Code: STLVT Case No.: 20000 SAS No.: SDG No.: 77501

Matrix: (soil/water) WATER

Lab Sample ID: 413404MD

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

Lab File ID: 07AR001646-I211

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

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) OTHER

Date Extracted: 03/31/00

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 04/08/00

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

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

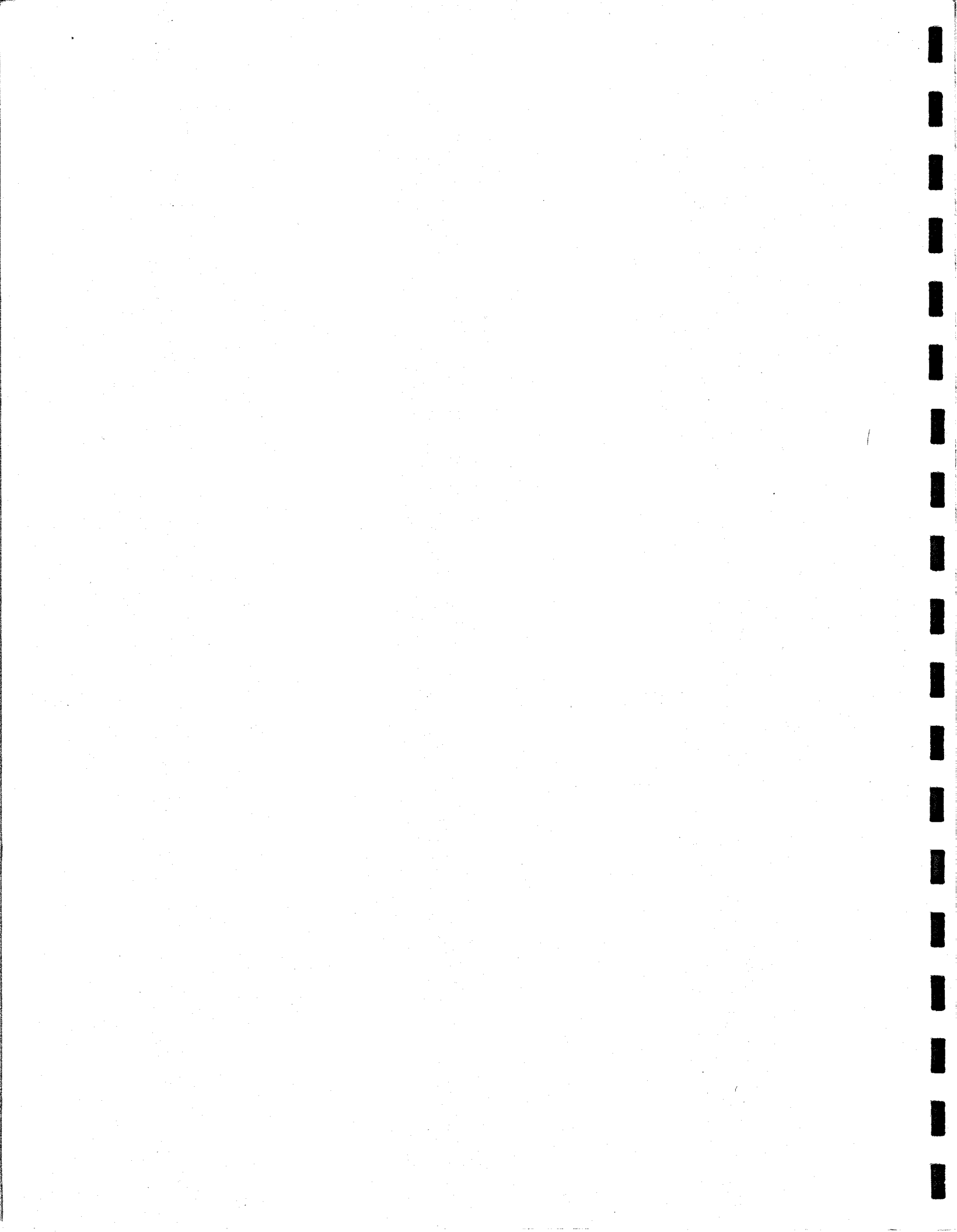
Sulfur Cleanup: (Y/N) N

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

12674-11-2-----	Aroclor-1016	0.050	U
11104-28-2-----	Aroclor-1221	0.050	U
11141-16-5-----	Aroclor-1232	0.050	U
53469-21-9-----	Aroclor-1242	0.050	U
12672-29-6-----	Aroclor-1248	0.050	U
11097-69-1-----	Aroclor-1254	0.050	U
11096-82-5-----	Aroclor-1260	0.45	

APPENDIX D-3

LAGOON SURFACE SOIL DATA SHEETS



U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-001
X-1

55-10-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-001

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: 80.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	386		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-002 SS -10100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ _____ Lab Sample ID: 2-258-002

Level (low/med): LOW _____ Date Received: 02/28/00

% Solids: _____ 58.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	10400		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-003
SS-2-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-003

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: _____ 59.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	13600		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-004
SS-3-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-004

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: 49.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	46200		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-
 Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-005
 Level (low/med): LOW_ Date Received: 02/28/00
 % Solids: 84.6

2-258-005
SS-4-0100

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	5410		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-006
SS-5-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-006

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: 57.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	4320		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-007
SS-6-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-007

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: _____ 63.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1140		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-008
SS-7-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-008

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: _84.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	32.5		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-009
SS-8-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-009

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: _____ 63.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	477		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-010
SS-9-0100

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-010

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: _____ 68.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	880		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2-258-011
SS-10-0/00

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2-258-

Matrix (soil/water): SOIL_ Lab Sample ID: 2-258-011

Level (low/med): LOW_ Date Received: 02/28/00

% Solids: _85.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	324		E*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-10 0100

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-11

Sample wt/vol: 30.39 (g/ml) g Lab File ID: GC90201a-036

% Moisture 14.8 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 200 (mL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION	
		UNITS	Q
12674-11-2	PCB1016	1600	U
11104-28-2	PCB1221	3200	U
11141-16-5	PCB1232	1600	U
53469-21-9	PCB1242	1600	U
12672-29-6	PCB1248	1600	U
11097-69-1	PCB1254	89000	E
11096-82-5	PCB1260	1600	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-10 0100 DL

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-11 DL
 Sample wt/vol: 30.39 (g/ml) g Lab File ID: GC90204-24
 % Moisture 14.8 decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000
 Concentrated Extract Volume: 1000 (mL) Date Analyzed: 02/05/2000
 Injection Volume: 1 (ul) Dilution Factor: 100

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		7800	U
11104-28-2	PCB1221		16000	U
11141-16-5	PCB1232		7800	U
53469-21-9	PCB1242		7800	U
12672-29-6	PCB1248		7800	U
11097-69-1	PCB1254		110000	D
11096-82-5	PCB1260		7800	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-9 0100

Lab Name: SCILAB Albany, Inc.

Contract _____

Lab Code: 10358

SAS No.: _____

SDG No.: C & DMatrix: (soil/water) soilLab Sample ID: 0001-00178-10Sample wt/vol: 30.39 (g/ml) gLab File ID: GC90201a-048% Moisture 31.3 decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SoncDate Extracted: 01/17/2000Concentrated Extract Volume: 200 (mL)Date Analyzed: 02/02/2000Injection Volume: 1 (ul)Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		1900	U
11104-28-2	PCB1221		3800	U
11141-16-5	PCB1232		1900	U
53469-21-9	PCB1242		1900	U
12672-29-6	PCB1248		1900	U
11097-69-1	PCB1254		240000	E
11096-82-5	PCB1260		1900	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-9 0100 DL

Name: SCILAB Albany, Inc.

Contract _____

Code: 10358

SAS No.: _____

SDG No.: C & DMatrix: (soil/water) soilLab Sample ID: 0001-00178-10 DLSample wt/vol: 30.39 (g/ml) gLab File ID: GC90204-036Moisture 31.3 decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SoncDate Extracted: 01/17/2000Concentrated Extract Volume: 4000 (mL)Date Analyzed: 02/05/2000Injection Volume: 1 (ul)Dilution Factor: 400

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
		(ug/L OR ug/Kg)		
12674-11-2	PCB1016		38000	U
11104-28-2	PCB1221		78000	U
11141-16-5	PCB1232		38000	U
53469-21-9	PCB1242		38000	U
12672-29-6	PCB1248		38000	U
11097-69-1	PCB1254		470000	D
11096-82-5	PCB1260		38000	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-8 0100

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-09

Sample wt/vol: 30.33 (g/ml) g Lab File ID: GC90201a-047

% Moisture 36.2 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 200 (mL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		2100	U
11104-28-2	PCB1221		4200	U
11141-16-5	PCB1232		2100	U
53469-21-9	PCB1242		2100	U
12672-29-6	PCB1248		2100	U
11097-69-1	PCB1254		310000	E
11096-82-5	PCB1260		2100	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-8 0100 DL

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-09 DL
 Sample wt/vol: 30.33 (g/ml) g Lab File ID: GC90204-035
 % Moisture 36.2 decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000
 Concentrated Extract Volume: 8000 (mL) Date Analyzed: 02/05/2000
 Injection Volume: 1 (ul) Dilution Factor: 800

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		83000	U
11104-28-2	PCB1221		170000	U
11141-16-5	PCB1232		83000	U
53469-21-9	PCB1242		83000	U
12672-29-6	PCB1248		83000	U
11097-69-1	PCB1254		1100000	D
11096-82-5	PCB1260		83000	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-7 0100

Lab Name: SCILAB Albany, Inc.

Contract _____

Lab Code: 10358

SAS No.: _____

SDG No.: C & DMatrix: (soil/water) SOILLab Sample ID: 0001-0178-08Sample wt/vol: 30.56 (g/ml) gLab File ID: GC90201a-046% Moisture 16.0 decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SoncDate Extracted: 01/17/2000Concentrated Extract Volume: 200 (mL)Date Analyzed: 02/02/2000Injection Volume: 1 (ul)Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNITS <u>ug/Kg</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	1600	U
11104-28-2	PCB1221	3200	U
11141-16-5	PCB1232	1600	U
53469-21-9	PCB1242	1600	U
12672-29-6	PCB1248	1600	U
11097-69-1	PCB1254	33000	E
11096-82-5	PCB1260	1600	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-7 0100 DL

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) SOIL Lab Sample ID: 0001-0178-08 DL
 Sample wt/vol: 30.56 (g/ml) g Lab File ID: GC90204-034
 % Moisture 16.0 decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000
 Concentrated Extract Volume: 500 (mL) Date Analyzed: 02/05/2000
 Injection Volume: 1 (ul) Dilution Factor: 50

CAS. NO.	COMPOUND	CONCENTRATION	Q
		UNITS <u>ug/Kg</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	3900	U
11104-28-2	PCB1221	7800	U
11141-16-5	PCB1232	3900	U
53469-21-9	PCB1242	3900	U
12672-29-6	PCB1248	3900	U
11097-69-1	PCB1254	34000	D
11096-82-5	PCB1260	3900	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-6 0100

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-0178-07

Sample wt/vol: 30.23 (g/ml) g Lab File ID: GC90201a-044

% Moisture 42.5 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 200 (mL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		2100	U
11104-28-2	PCB1221		4200	U
11141-16-5	PCB1232		2100	U
53469-21-9	PCB1242		2100	U
12672-29-6	PCB1248		2100	U
11097-69-1	PCB1254		230000	E P
11096-82-5	PCB1260		2100	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-6 0100 DL

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-0178-07 DL

Sample wt/vol: 30.23 (g/ml) g Lab File ID: GC90204-033

% Moisture 42.5 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 4000 (mL) Date Analyzed: 02/05/2000

Injection Volume: 1 (ul) Dilution Factor: 400

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		41000	U
11104-28-2	PCB1221		82000	U
11141-16-5	PCB1232		41000	U
53469-21-9	PCB1242		41000	U
12672-29-6	PCB1248		41000	U
11097-69-1	PCB1254		380000	P D
11096-82-5	PCB1260		41000	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5 0100

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-0178-06

Sample wt/vol: 30.23 (g/ml) g Lab File ID: GC90201a-044

% Moisture 42.5 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 200 (mL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		2300	U
11104-28-2	PCB1221		4600	U
11141-16-5	PCB1232		2300	U
53469-21-9	PCB1242		2300	U
12672-29-6	PCB1248		2300	U
11097-69-1	PCB1254		290000	E
11096-82-5	PCB1260		2300	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5 0100 DL

Lab Name: SCILAB Albany, Inc.

Contract _____

Lab Code: 10358

SAS No.: _____

SDG No.: C & DMatrix: (soil/water) SOILLab Sample ID: 0001-0178-06 DLSample wt/vol: 30.23 (g/ml) gLab File ID: GC90204-032% Moisture 42.5 decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SoncDate Extracted: 01/17/2000Concentrated Extract Volume: 4000 (mL)Date Analyzed: 02/05/2000Injection Volume: 1 (ul)Dilution Factor: 400

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		46000	U
11104-28-2	PCB1221		92000	U
11141-16-5	PCB1232		46000	U
53469-21-9	PCB1242		46000	U
12672-29-6	PCB1248		46000	U
11097-69-1	PCB1254		470000	D
11096-82-5	PCB1260		46000	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4 0100

Lab Name: SCILAB Albany, Inc.

Contract _____

Lab Code: 10358 SAS No.: _____SDG No.: C & DMatrix: (soil/water) SOILLab Sample ID: 0001-00178-05Sample wt/vol: 30.24 (g/ml) gLab File ID: gc90201a-043Moisture 15.4 decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SoncDate Extracted: 01/17/2000Concentrated Extract Volume: 200 (mL)Date Analyzed: 02/02/2000Injection Volume: 1 (ul)Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		1600	U
11104-28-2	PCB1221		3200	U
11141-16-5	PCB1232		1600	U
53469-21-9	PCB1242		1600	U
12672-29-6	PCB1248		1600	U
11097-69-1	PCB1254		140000	E
11096-82-5	PCB1260		1600	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4 0100 DL

Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-05 DL
 Sample wt/vol: 30.24 (g/ml) g Lab File ID: gc90204-031
 % Moisture 15.4 decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000
 Concentrated Extract Volume: 2000 (mL) Date Analyzed: 02/05/2000
 Injection Volume: 1 (ul) Dilution Factor: 200

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
		(ug/L OR ug/Kg)		
12674-11-2	PCB1016		16000	U
11104-28-2	PCB1221		32000	U
11141-16-5	PCB1232		16000	U
53469-21-9	PCB1242		16000	U
12672-29-6	PCB1248		16000	U
11097-69-1	PCB1254		170000	D
11096-82-5	PCB1260		16000	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-3 0100

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-04

Sample wt/vol: 30.38 (g/ml) g Lab File ID: GC90201a-042

% Moisture 50.5 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 200 (mL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		2700	U
11104-28-2	PCB1221		5400	U
11141-16-5	PCB1232		2700	U
53469-21-9	PCB1242		2700	U
12672-29-6	PCB1248		2700	U
11097-69-1	PCB1254		330000	E
11096-82-5	PCB1260		2700	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-2 0100

Lab Name: SCILAB Albany, Inc.

Contract _____

Lab Code: 10358

SAS No.: _____

SDG No.: C & DMatrix: (soil/water) soilLab Sample ID: 0001-00178-003Sample wt/vol: 30.06 (g/ml) gLab File ID: GC90201a-041% Moisture 40.9 decanted: (Y/N) NDate Received: 01/14/2000Extraction: (SepF/Cont/Sonc) SoncDate Extracted: 01/18/2000Concentrated Extract Volume: 200 (mL)Date Analyzed: 02/02/2000Injection Volume: 1 (ul)Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/KG	
12674-11-2	PCB1016		2200	U
11104-28-2	PCB1221		4400	U
11141-16-5	PCB1232		2200	U
53469-21-9	PCB1242		2200	U
12672-29-6	PCB1248		2200	U
11097-69-1	PCB1254		310000	E
11096-82-5	PCB1260		2200	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-2 0100 DL

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) soil Lab Sample ID: 0001-00178-003 DL

Sample wt/vol: 30.06 (g/ml) g Lab File ID: GC90204-029

% Moisture 40.9 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/18/2000

Concentrated Extract Volume: 4000 (mL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 400

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/KG	
12674-11-2	PCB1016		44000	U
11104-28-2	PCB1221		88000	U
11141-16-5	PCB1232		44000	U
53469-21-9	PCB1242		44000	U
12672-29-6	PCB1248		44000	U
11097-69-1	PCB1254		460000	D
11096-82-5	PCB1260		44000	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-1 0100 DL

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-02 DL

Sample wt/vol: 30.14 (g/ml) g Lab File ID: GC90204-028

% Moisture 41.9 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 4000 (mL) Date Analyzed: 02/05/2000

Injection Volume: 1 (ul) Dilution Factor: 400

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		46000	U
11104-28-2	PCB1221		92000	U
11141-16-5	PCB1232		46000	U
53469-21-9	PCB1242		46000	U
12672-29-6	PCB1248		46000	U
11097-69-1	PCB1254		460000	D
11096-82-5	PCB1260		46000	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X-1SS DL

Lab Name: SCILAB Albany, Inc. Contract _____

Lab Code: 10358 SAS No.: _____ SDG No.: C & D

Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-001 DL

Sample wt/vol: 30.27 (g/ml) g Lab File ID: GC90201a-039

% Moisture 19.8 decanted: (Y/N) N Date Received: 01/14/2000

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000

Concentrated Extract Volume: 200 (mL) Date Analyzed: 02/02/2000

Injection Volume: 1 (ul) Dilution Factor: 20

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		1700	U
11104-28-2	PCB1221		3400	U
11141-16-5	PCB1232		1700	U
53469-21-9	PCB1242		1700	U
12672-29-6	PCB1248		1700	U
11097-69-1	PCB1254		82000	
11096-82-5	PCB1260		1700	U

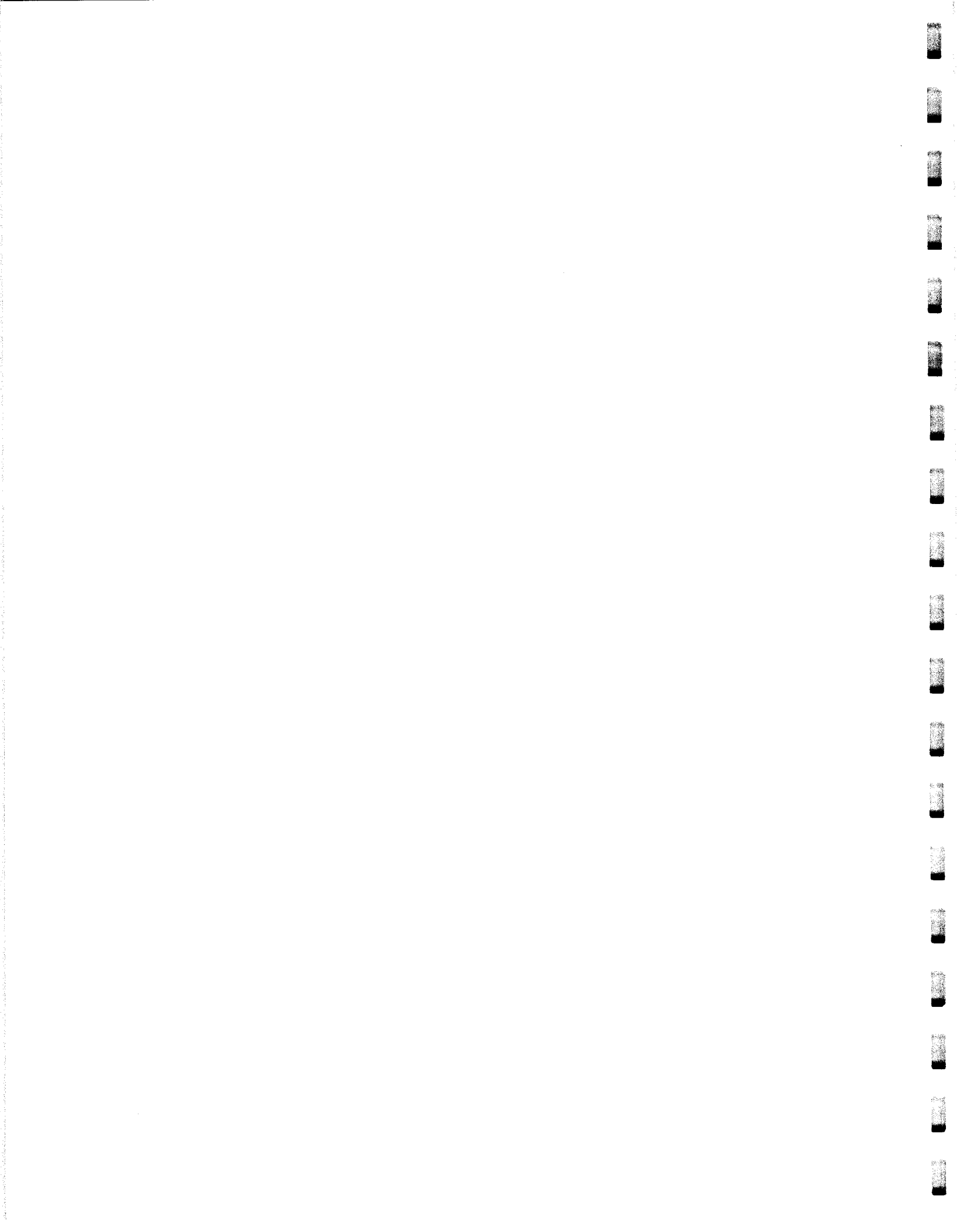
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X-1SS

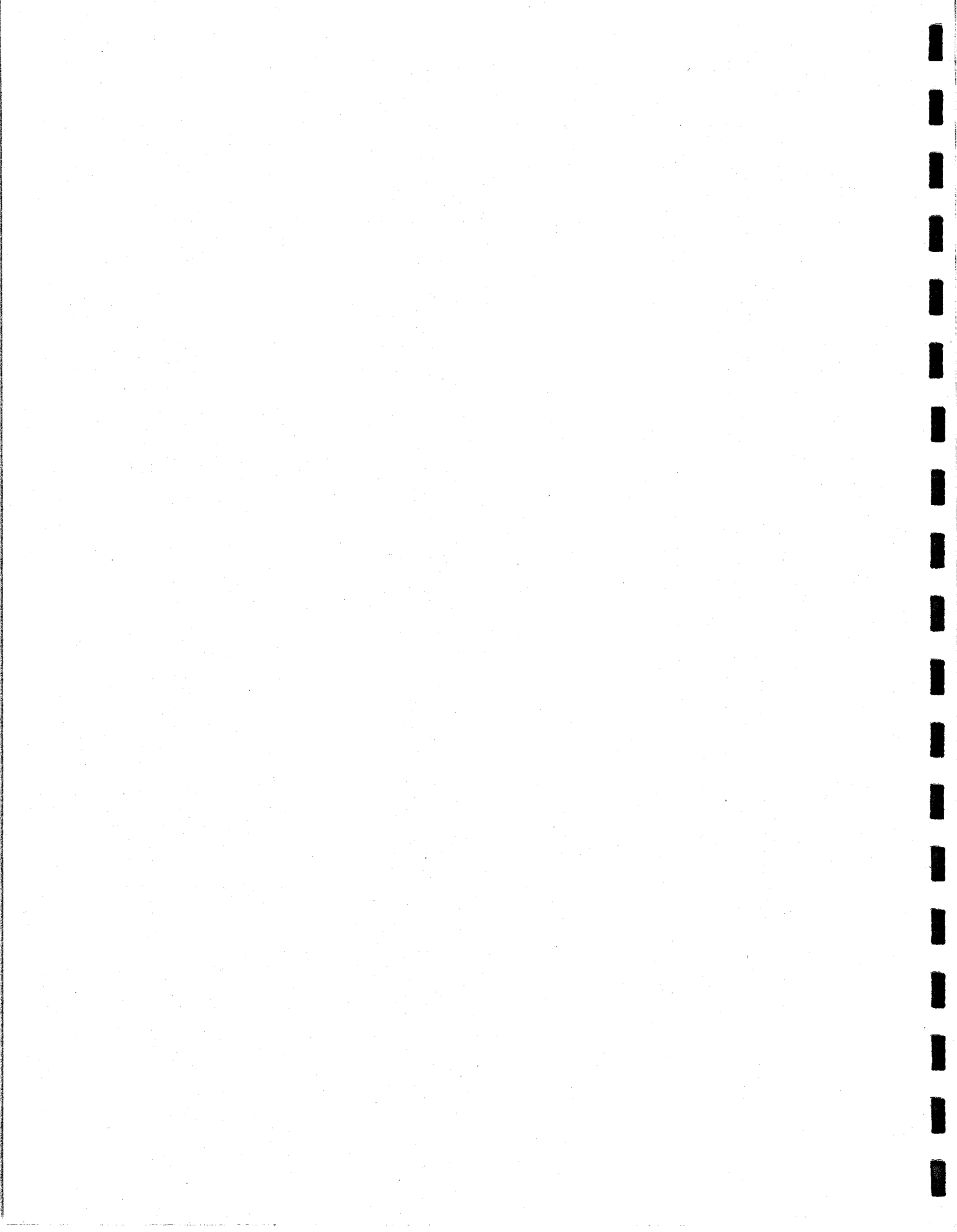
Lab Name: SCILAB Albany, Inc. Contract _____
 Lab Code: 10358 SAS No.: _____ SDG No.: C & D
 Matrix: (soil/water) SOIL Lab Sample ID: 0001-00178-001
 Sample wt/vol: 30.27 (g/ml) g Lab File ID: GC90204-27
 % Moisture 19.8 decanted: (Y/N) N Date Received: 01/14/2000
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 01/17/2000
 Concentrated Extract Volume: 1000 (mL) Date Analyzed: 02/05/2000
 Injection Volume: 1 (ul) Dilution Factor: 100

CAS. NO.	COMPOUND	CONCENTRATION		Q
		UNITS	ug/Kg	
12674-11-2	PCB1016		8200	U
11104-28-2	PCB1221		16000	U
11141-16-5	PCB1232		8200	U
53469-21-9	PCB1242		8200	U
12672-29-6	PCB1248		8200	U
11097-69-1	PCB1254		87000	D
11096-82-5	PCB1260		8200	U



APPENDIX D-4

LAGOON SOIL BORING DATA SHEETS



INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB-1
13.5-14

Name: SCILAB_OF_ALBANY_INC Contract: _____

Code: 10358 Case No.: _____ SAS No.: _____ SDG No.: SB1_13

Matrix (soil/water): SOIL_ Lab Sample ID: 3-430-007

Level (low/med): LOW_ Date Received: 03/29/00

Solids: _88.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	21.5		N	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	27.2		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

SB-2
12.12.5

Lab Name: SCILAB_OF_ALBANY_INC _____ Contract: _____

Lab Code: 10358_ Case No.: _____ SAS No.: _____ SDG No.: SB1_13

Matrix (soil/water): SOIL_ Lab Sample ID: 3-430-014

Level (low/med): LOW_ Date Received: 03/29/00

Solids: _____ 90.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	16.1		N	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	43.5		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SD-3
14-14.5

Lab Name: SCILAB_OF_ALBANY_INC _____ Contract: _____

Lab Code: 10358_ Case No.: _____ SAS No.: _____ SDG No.: SB1_13

Matrix (soil/water): SOIL_ Lab Sample ID: 3-430-022

Level (low/med): LOW_ Date Received: 03/29/00

Solids: _____ 87.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	659		N	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	217		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SD-4
11.5-12

Sample Name: SCILAB_OF_ALBANY_INC _____ Contract: _____

Sample Code: 10358_ Case No.: _____ SAS No.: _____

SDG No.: SB1_13

Matrix (soil/water): SOIL_

Lab Sample ID: 3-430-027

Level (low/med): LOW_

Date Received: 03/29/00

Solids: _____76.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1340		N	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	317		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments: _____

1
INORGANIC ANALYSES DATA SHEET

SD-5
9.5-10

Lab Name: SCILAB_OF_ALBANY_INC Contract: _____

Code: 10358 Case No.: _____ SAS No.: _____

SDG No.: SB1_13

Matrix (soil/water): SOIL_

Lab Sample ID: 3-430-032

Level (low/med): LOW_

Date Received: 03/29/00

% Solids: 87.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	29.1		N	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	377		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

SD-6
15.5-16

Lab Name: SCILAB_OF_ALBANY_INC

Contract: _____

Lab Code: 10358

Case No.: _____

SAS No.: _____

SDG No.: SB1_13

Matrix (soil/water): SOIL

Lab Sample ID: 3-430-038

Level (low/med): LOW

Date Received: 03/29/00

% Solids: 88.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2		N	P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	11.4		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
544-92-3	Cyanide				NR

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB6 15.5-16

Lab Name: SCILAB Albany, Inc.
 Lab Code: 10358
 Matrix: (soil/water) SOIL
 Sample wt/vol: 1.02 g
 % Moisture: 11.9 decanted: (Y/N) N
 Extraction: (SepF/Cont/Sonc) ML/Sonc
 Concentrated Extract Volume: 10000 (uL)
 Injection Volume: 1
 GPC Cleanup : (Y/N) N

Contract: _____
 SDG No.: C+D TECH
 Lab Sample ID: 0003-430-038
 Lab File ID: _____
 Date Received: 03/29/00
 Date Extracted: 04/03/00
 Date Analyzed: 04/05/00
 Dilution Factor: 1
 Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	1.1	U
11096-82-5	PCB1260	1.1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB6 7.5-8

Lab Name: SCILAB Albany, Inc.

Contract: _____

Lab Code: 10358

SDG No.: C+D TECH

Matrix: (soil/water) SOIL

Lab Sample ID: 0003-430-034

Sample wt/vol: 1.03 g

Lab File ID: _____

% Moisture: 9.2 decanted: (Y/N) N

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc

Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/05/00

Injection Volume: 1

Dilution Factor: 1

GPC Cleanup : (Y/N) N

Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	1.1	U
11096-82-5	PCB1260	1.1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB5 9.5-10

Lab Name: SCILAB Albany, Inc. Contract: _____
 Lab Code: 10358 SDG No.: C+D TECH
 Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-032
 Sample wt/vol: 1.09 g Lab File ID: _____
 % Moisture: 12.2 decanted: (Y/N) N Date Received: 03/29/00
 Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/05/00
 Injection Volume: 1 Dilution Factor: 1
 GPC Cleanup : (Y/N) N Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	
		UNITS: <u>ug/g</u>	Q
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	1.0	U
11096-82-5	PCB1260	1.0	U

1
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB5 3.5-4

Lab Name: SCILAB Albany, Inc.

Contract: _____

Lab Code: 10358

SDG No.: C+D TECH

Matrix: (soil/water) SOIL

Lab Sample ID: 0003-430-029

Sample wt/vol: 1.05 g

Lab File ID: _____

% Moisture: 7.4 decanted: (Y/N) N

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc

Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/05/00

Injection Volume: 1

Dilution Factor: 1

GPC Cleanup : (Y/N) N

Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	1.0	U
11096-82-5	PCB1260	1.0	U

1
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB5 2-2.5

Lab Name: SCILAB Albany, Inc.

Contract: _____

Lab Code: 10358

SDG No.: C+D TECH

Matrix: (soil/water) SOIL

Lab Sample ID: 0003-430-028

Sample wt/vol: 1.08 g

Lab File ID: _____

% Moisture: 6.1 decanted: (Y/N) N

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc

Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/05/00

Injection Volume: 1

Dilution Factor: 1

GPC Cleanup : (Y/N) N

Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	11	
11097-69-1	PCB1254	1.0	U
11096-82-5	PCB1260		

1
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB4 11.5-12 DL1:20

Lab Name: SCILAB Albany, Inc.

Contract: _____

Lab Code: 10358

SDG No.: C+D TECH

Matrix: (soil/water) SOIL

Lab Sample ID: 0003-430-027 DL1:20

Sample wt/vol: 1.04 g

Lab File ID: _____

% Moisture: 23.6 decanted: (Y/N) N

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc

Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/06/00

Injection Volume: 1

Dilution Factor: 20

GPC Cleanup : (Y/N) N

Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	25	U
11104-28-2	PCB1221	25	U
11141-16-5	PCB1232	25	U
53469-21-9	PCB1242	25	U
12672-29-6	PCB1248	31	
11097-69-1	PCB1254	25	U
11096-82-5	PCB1260		

1
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB4 9.5-10

Lab Name: SCILAB Albany, Inc.

Contract: _____

Lab Code: 10358

SDG No.: C+D TECH

Matrix: (soil/water) SOIL

Lab Sample ID: 0003-430-026

Sample wt/vol: 1.02 g

Lab File ID: _____

% Moisture: 7.5 decanted: (Y/N) N

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc

Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/13/00

Injection Volume: 1

Dilution Factor: 1

GPC Cleanup : (Y/N) N

Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	
		UNITS: <u>ug/g</u>	Q
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	12	
11096-82-5	PCB1260	1.1	U

FORM I CLP PCB

000261

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB4 7.5-8

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-025

Sample wt/vol: 1.01 g Lab File ID: _____

% Moisture: 10.0 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/13/00

Injection Volume: 1 Dilution Factor: 1

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

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	14	
11096-82-5	PCB1260	1.1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB4 5.5-6

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-024

Sample wt/vol: 1.07 g Lab File ID: _____

% Moisture: 6.4 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/05/00

Injection Volume: 1 Dilution Factor: 1

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

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	2.3	
11096-82-5	PCB1260	1.0	U

FORM I CLP PCB

000247

1
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB4 2-2.5

Lab Name: SCILAB Albany, Inc.

Contract: _____

Lab Code: 10358

SDG No.: C+D TECH

Matrix: (soil/water) SOIL

Lab Sample ID: 0003-430-023

Sample wt/vol: 1.06 g

Lab File ID: _____

% Moisture: 9.2 decanted: (Y/N) N

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc

Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/05/00

Injection Volume: 1

Dilution Factor: 1

GPC Cleanup : (Y/N) N

Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	11	
11096-82-5	PCB1260	1.0	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3 14-14.5

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-022

Sample wt/vol: 1.07 g Lab File ID: _____

% Moisture: 12.7 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/05/00

Injection Volume: 1 Dilution Factor: 1

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

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	15	
11096-82-5	PCB1260	1.1	U

FORM I CLP PCB

000233

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3 13.5-14

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-021

Sample wt/vol: 1.03 g Lab File ID: _____

% Moisture: 10.8 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/13/00

Injection Volume: 1 Dilution Factor: 1

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

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	14	
11096-82-5	PCB1260	1.1	U

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000226

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3 3.5-4

Lab Name: SCILAB Albany, Inc. Contract: _____
 Lab Code: 10358 SDG No.: C+D TECH
 Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-016
 Sample wt/vol: 1.03 g Lab File ID: _____
 % Moisture: 10.4 decanted: (Y/N) N Date Received: 03/29/00
 Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/05/00
 Injection Volume: 1 Dilution Factor: 1
 GPC Cleanup : (Y/N) N Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	1.5	
11096-82-5	PCB1260	1.1	U

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000212

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB2 12-12.5

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-014

Sample wt/vol: 1.05 g Lab File ID: _____

% Moisture: 9.4 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/05/00

Injection Volume: 1 Dilution Factor: 1

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

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	1.1	U
11096-82-5	PCB1260	1.1	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB2 3.5-4

Lab Name: SCILAB Albany, Inc. Contract: _____
 Lab Code: 10358 SDG No.: C+D TECH
 Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-09
 Sample wt/vol: 1.08 g Lab File ID: _____
 % Moisture: 3.3 decanted: (Y/N) N Date Received: 03/29/00
 Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/05/00
 Injection Volume: 1 Dilution Factor: 1
 GPC Cleanup : (Y/N) N Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	1.0	U
11096-82-5	PCB1260	1.0	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB1 13.5-14

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-07

Sample wt/vol: 1.04 g Lab File ID: _____

% Moisture: 11.5 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/04/00

Injection Volume: 1 Dilution Factor: 1

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

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.1	U
11104-28-2	PCB1221	1.1	U
11141-16-5	PCB1232	1.1	U
53469-21-9	PCB1242	1.1	U
12672-29-6	PCB1248	1.1	U
11097-69-1	PCB1254	6.3	
11096-82-5	PCB1260	1.1	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB1 11.5-12 DL1:5

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-06 DL1:5

Sample wt/vol: 1.06 g Lab File ID: _____

% Moisture: 15.9 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/13/00

Injection Volume: 1 Dilution Factor: 5

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

CAS. NO.		CONCENTRATION	
		UNITS: <u>ug/g</u>	Q
12674-11-2	PCB1016	5.6	U
11104-28-2	PCB1221	5.6	U
11141-16-5	PCB1232	5.6	U
53469-21-9	PCB1242	5.6	U
12672-29-6	PCB1248	5.6	U
11097-69-1	PCB1254	26	
11096-82-5	PCB1260	5.6	U

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000151

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB1 7.5-8

Lab Name: SCILAB Albany, Inc. Contract: _____
 Lab Code: 10358 SDG No.: C+D TECH
 Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-04
 Sample wt/vol: 1.05 g Lab File ID: _____
 % Moisture: 7.3 decanted: (Y/N) N Date Received: 03/29/00
 Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/13/00
 Injection Volume: 1 Dilution Factor: 1
 GPC Cleanup : (Y/N) N Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	5.0	
11096-82-5	PCB1260	1.0	U

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000137

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB1 5.5-6

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) SOIL Lab Sample ID: 0003-430-03

Sample wt/vol: 1.07 g Lab File ID: _____

% Moisture: 8.2 decanted: (Y/N) N Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/13/00

Injection Volume: 1 Dilution Factor: 1

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

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	1.0	U
11104-28-2	PCB1221	1.0	U
11141-16-5	PCB1232	1.0	U
53469-21-9	PCB1242	1.0	U
12672-29-6	PCB1248	1.0	U
11097-69-1	PCB1254	16	
11096-82-5	PCB1260	1.0	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB1 3.5-4 DL1:100

Lab Name: SCILAB Albany, Inc.

Contract: _____

Lab Code: 10358

SDG No.: C+D TECH

Matrix: (soil/water) SOIL

Lab Sample ID: 0003-430-02 DL1:100

Sample wt/vol: 1.05 g

Lab File ID: _____

% Moisture: 39.8 decanted: (Y/N) N

Date Received: 03/29/00

Extraction: (SepF/Cont/Sonc) ML/Sonc

Date Extracted: 04/03/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/06/00

Injection Volume: 1

Dilution Factor: 100

GPC Cleanup : (Y/N) N

Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/g</u>	
12674-11-2	PCB1016	160	U
11104-28-2	PCB1221	160	U
11141-16-5	PCB1232	160	U
53469-21-9	PCB1242	160	U
12672-29-6	PCB1248	160	U
11097-69-1	PCB1254	580	
11096-82-5	PCB1260	160	U

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10 MIN SWARTWOUT

Lab Name: SCILAB Albany, Inc. Contract: _____
 Lab Code: 10358 SDG No.: C+D TECH
 Matrix: (soil/water) WATER Lab Sample ID: 0003-414-04
 Sample wt/vol: 1000 ml Lab File ID: _____
 % Moisture: NA decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/30/00
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/00
 Injection Volume: 1 Dilution Factor: 1
 GPC Cleanup : (Y/N) N Sulfur Cleanup: Y

CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/L</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	0.065	U
11104-28-2	PCB1221	0.065	U
11141-16-5	PCB1232	0.065	U
53469-21-9	PCB1242	0.065	U
12672-29-6	PCB1248	0.065	U
11097-69-1	PCB1254	0.065	U
11096-82-5	PCB1260	0.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13 REX

Lab Name: SCILAB Albany, Inc. Contract: _____

Lab Code: 10358 SDG No.: C+D TECH

Matrix: (soil/water) WATER Lab Sample ID: 0003-414-02 REX

Sample wt/vol: 1000 ml Lab File ID: _____

% Moisture: NA decanted: (Y/N) N Date Received: 03/28/00

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 04/06/00

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/13/00

Injection Volume: 1 Dilution Factor: 1

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

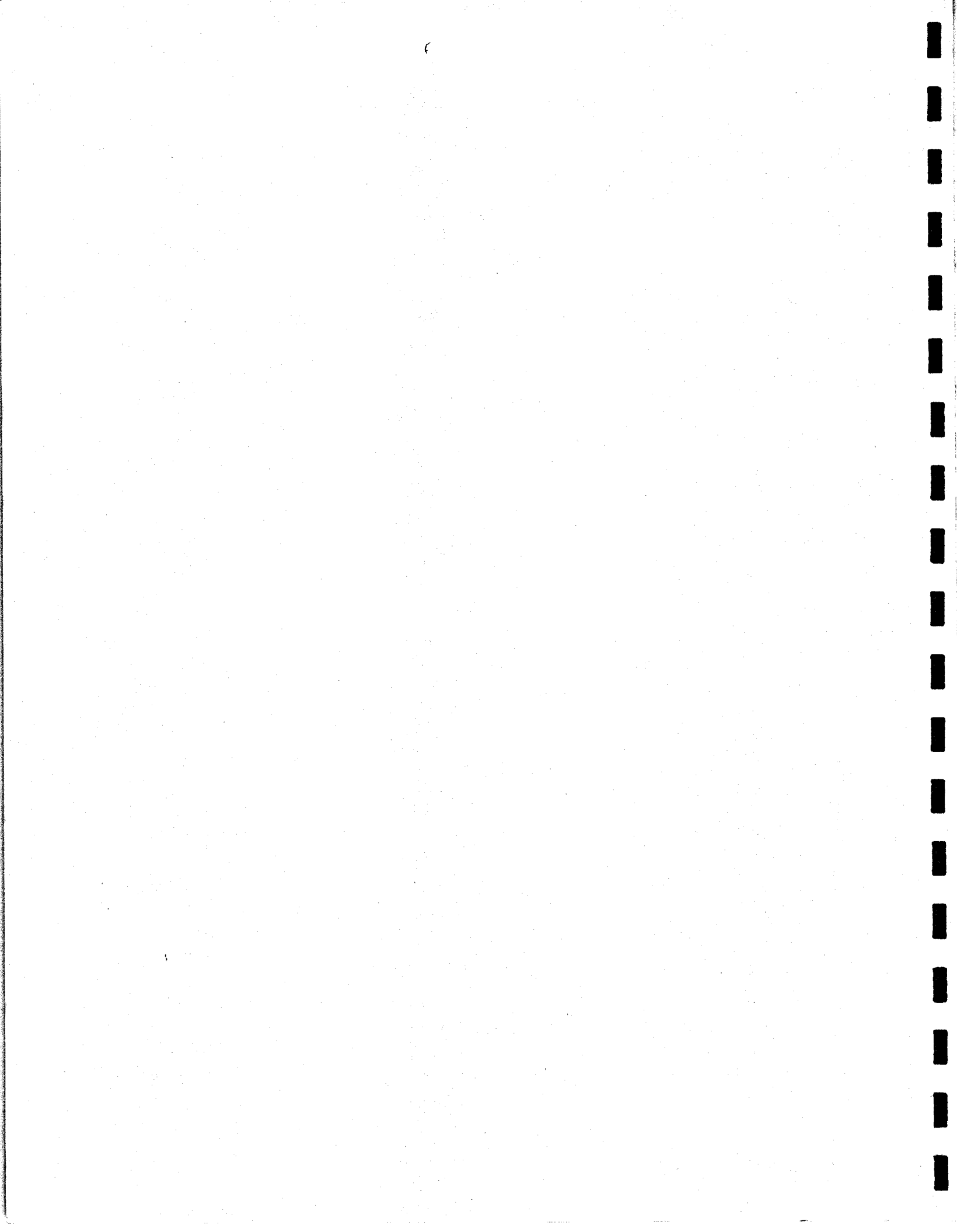
CAS. NO.		CONCENTRATION	Q
		UNITS: <u>ug/L</u> (ug/L OR ug/Kg)	
12674-11-2	PCB1016	0.065	U
11104-28-2	PCB1221	0.065	U
11141-16-5	PCB1232	0.065	U
53469-21-9	PCB1242	0.065	U
12672-29-6	PCB1248	0.065	U
11097-69-1	PCB1254	0.065	U
11096-82-5	PCB1260	0.065	U

FORM I CLP PCB

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APPENDIX E

MONITORING WELL BORING LOGS



Environmental Resources Management, Inc.

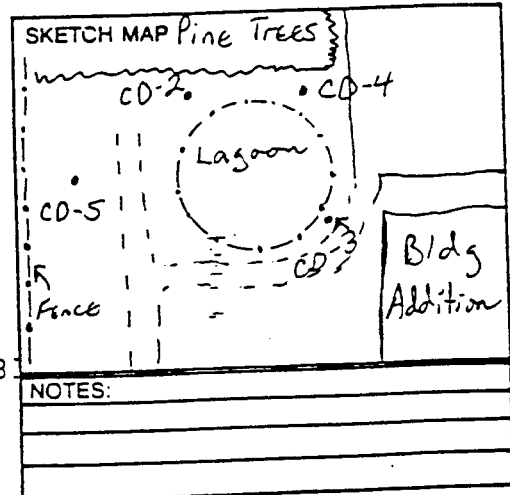
DRILLING LOGS AND
WELL INSTALLATION



ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries OWNER: _____
 LOCATION: Huguenot ADDRESS: _____
New York
 WELL NUMBER: CD-5 TOTAL DEPTH 45 feet
 SURFACE ELEVATION: _____ WATER LEVEL: _____
 Cable
 DRILLING COMPANY: Emprie DRILLING METHOD: Tool DATE DRILLED: 12-29-81
 DRILLER: D. Diedrickson HELPER: R. Beckwith



LOG BY: C. Werle

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0		1			Dark brown medium to coarse sand with pebbles (shale and quartz).
5		2			Dark brown coarse sand and pebbles, minor amount of medium sand, 1% - 2% interstitial silt material dense & tightly packed.
10		3			Same as above with brown silty coating on pebbles.
15		4			Gravel with minor brownish gray interstitial silty clay.
					Same as above with some fine sand.

NOTES:



ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries OWNER: _____

LOCATION: Huquenot ADDRESS: _____

New York

WELL NUMBER: CD-5 (CONT) TOTAL DEPTH 45 feet

SURFACE ELEVATION: _____ WATER LEVEL: _____

DRILLING COMPANY: Empire DRILLING METHOD: Cable DATE DRILLED: 12-29-81

DRILLER: D. Diedrickson HELPER: R. Beckwith

LOG BY: C. Werle

SKETCH MAP

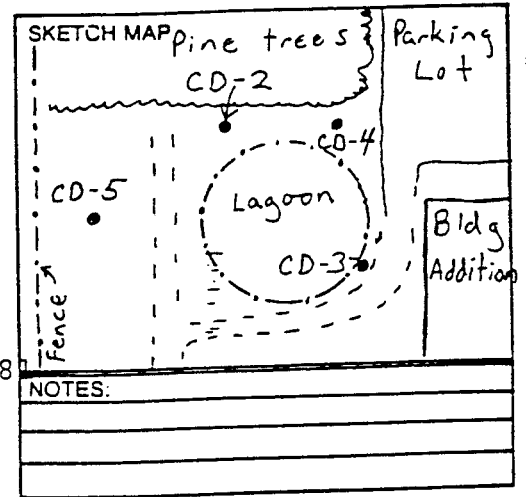
NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
2.0					
2.5		6			Coarse angular pebbles and small cobbles.
3.0		7			Pebbles and gravel, angular to subround. Repeated refusal with augers.
3.5		8			Grayish black coarse sand and fine gravel pebbles grading into 3" of fine sand with tan brown plastic clay at base of sample.
4.0		9			Gravel and pebbles with interstitial fine sand and silt.

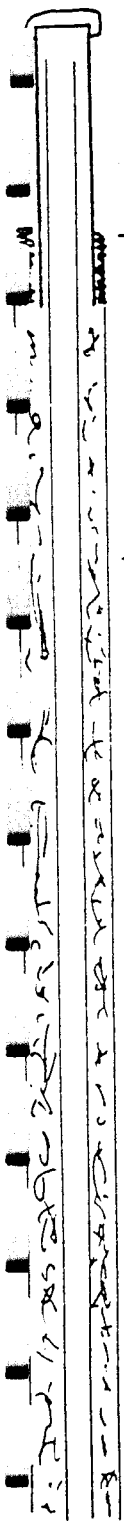


DRILLING LOG

PROJECT: C&D Batteries OWNER: _____
 LOCATION: Huguenot ADDRESS: _____
New York
 WELL NUMBER: CD-2 TOTAL DEPTH 40.5 feet
 SURFACE ELEVATION: _____ WATER LEVEL: _____
 DRILLING COMPANY: Empire DRILLING Cable DATE
 METHOD: Tool DRILLED: 12-30-81
 DRILLER: D. Diedrickson HELPER: R. Beckwith
 LOG BY: C. Werle



NOTES:



DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0					1 Dark brown fine and medium sand with pebbles.
5					2 Light tan fine to medium sand interbedded with tan silt. Individual units well sorted.
10					3 Brownish gray medium to coarse sand and gravel with subangular to subrounded shale and quartz pebbles.
15					4 Same as above.
20					5 Same as above.



DRILLING LOG

PROJECT: C&D Batteries OWNER: _____

LOCATION: Huquenot ADDRESS: _____

New York

WELL NUMBER: CD-2 (CONT) TOTAL DEPTH: 40.5 feet

SURFACE ELEVATION: _____ WATER LEVEL: _____

DRILLING COMPANY: Empire DRILLING Cable METHOD: Tool DATE DRILLED: 12-30-81

DRILLER: D.Diedrickson HELPER: R.Beckwith

LOG BY: C. Werle

SKETCH MAP

NOTES:

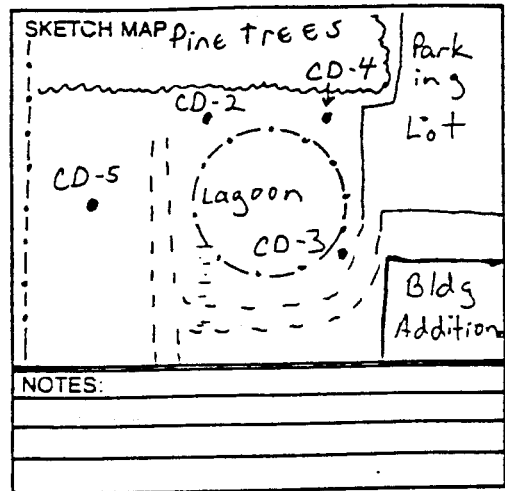
DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
20					
25		6			Medium to coarse sand and gravel, some fine sand, no pebbles.
30		7			Medium to coarse sand and gravel, small pebbles, angular to subangular.
35		8			Same as above.
40		9			Gravel with coarse sand and pebbles, tannish brown silt as coating on material.



DRILLING LOG

PROJECT: C&D Batteries OWNER: _____
 LOCATION: Huquenot ADDRESS: _____
New York
 WELL NUMBER: CD-3 TOTAL DEPTH 40.0 feet
 SURFACE ELEVATION: _____ WATER LEVEL: _____
Cable
 DRILLING COMPANY: Empire DRILLING METHOD: Tool DATE DRILLED: 1-6-82
 DRILLER: D. Diedrickson HELPER: R. Beckwith

LOG BY: C. Werle



DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0					
1					Brown fine to medium sand with some silt and pebbles.
5					Tannish brown medium fine sand with gravel and pebbles.
10					Gravel with some coarse sand and small cobbles, very minor amounts of interstitial silt.
15					Coarse sand and gravel with pebbles and grayish brown interstitial clayey silt.
20					Coarse sand and gravel and pebbles, some cobbles sample very tightly packed.



DRILLING LOG

PROJECT: C&D Batteries OWNER: _____

LOCATION: Huquenot ADDRESS: _____
New York

WELL NUMBER: CD-3 (CONT) TOTAL DEPTH: 40.0 feet

SURFACE ELEVATION: _____ WATER LEVEL: _____
Cable

DRILLING COMPANY: Emprie DRILLING METHOD: Tool DATE DRILLED: 1-6-82

DRILLER: D. Diedrickson HELPER: R. Beckwith

LOG BY: C. Werle

SKETCH MAP

NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
20					
28		6			Coarse sand, gravel, small cobbles with brownish gray silt coating, sample tightly packed.
30		7			Same as above.
38		8			Gravel and small cobbles with minor amounts of interstitial silt.
40		9			Same as above.



DRILLING LOG

PROJECT: C&D Batteries OWNER: _____

LOCATION: Huquenot ADDRESS: _____

New York

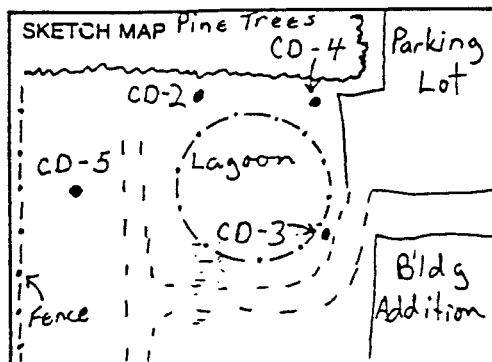
WELL NUMBER: CD-4 TOTAL DEPTH 41.6 feet

SURFACE ELEVATION: _____ WATER LEVEL: _____

DRILLING COMPANY: Emprie DRILLING Cable DATE
METHOD: Tool DRILLED: 1-4-82

DRILLER: D. Diedrickson HELPER: R. Beckwith

LOG BY: C. Werle



NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0					Tannish brown fine sand and silt with pebbles organic-rich soil at surface.
1					
2					
3					
4					
5					Tannish brown medium to fine sand with gravel.
6					
7					
8					
9					
10					Dark brown well sorted very fine sandy silt, material homogeneous.
11					
12					
13					
14					
15					Same as above.
16					
17					
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100					



DRILLING LOG

PROJECT: C&D Batteries OWNER: _____
 LOCATION: Huquenot ADDRESS: _____
New York
 WELL NUMBER: CD-4 (CONT) TOTAL DEPTH 41.6 feet
 SURFACE ELEVATION: _____ WATER LEVEL: _____
 DRILLING Cable DATE
 COMPANY: Emprie METHOD: Tool DRILLED: 1-4-82
 DRILLER: D. Diedrickson HELPER: R. Beckwith

LOG BY: C. Werle

SKETCH MAP

NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
20					
25		6			Brown well sorted silt, as above, grading into medium to coarse sand and gravel.
30		7			Interbedded units of silt with dark gray medium to coarse sand and gravel.
35		8			Brown silty sand with infrequent pebbles.
40		9			Brown silty sand with some coarse sand and gravel.



Environmental Resources Management, Inc.

DRILLER'S LOGS

GENERAL INFORMATION & KEY TO SUBSURFACE LOGS

The Subsurface Logs attached to this report present the observations and mechanical data collected by the driller while at the site, supplemented by classification of the materials removed from the borings as determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Subsurface Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of this report and the recovered samples must be performed by Professionals having experience in Soil Mechanics and Foundation Engineering. The information presented in the following defines some of the procedures and terms used on the Subsurface Logs to describe the conditions encountered.

- ① The figures in the Depth column defines the scale of the Subsurface Log.
- ② The Sample column shows, graphically, the exact depth range from which a sample was recovered. See Table I for a description of the symbols used to signify the various types of samples.
- ③ The Sample No. is used for identification on sample containers and/or Laboratory Test Reports.
- ④ Blows on Sampler—shows the results of the "Penetration Test", recording the number of blows required to drive a split spoon sampler into the soil beneath the casing. The number of blows required for each six inches penetration is recorded. The total number of blows required for the last 12 inches of penetration are summarized in the "N" column. The outside diameter of the sampler, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log.
- ⑤ Blows on Casing—shows the number of blows required to advance the casing a distance of 12 inches. The casing size, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log. If the casing is advanced by means other than driving, the method of advancement will be indicated in the Notes column or under Method of Investigation at the bottom of the Subsurface Log.
- ⑥ All recovered soil samples are reviewed in the laboratory by technicians. The visual descriptions are made on basis of the sample as recovered and in accordance with the Unified Classification System. Guide Lines for the terms used in descriptions are presented in Tables II and III. The description of the relative soil compactness or consistency is based upon the penetration records as defined in Table IV. The description of the soil moisture is based upon the condition of the sample as recovered. The moisture condition is described as dry, damp, moist or wet. Water used to advance the boring may have affected the in-situ moisture content of the sample. Special terms are used as required to describe materials in greater detail; several such terms are listed in Table V. When sampling gravelly soils with a standard two-inch diameter split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders and large gravel is sometimes, but not necessarily, detected by an evaluation of the casing and sampler blows or through the "action" of the drill rig as reported by the driller.
- ⑦ The description of rock shown is based upon the recovered rock core. Terms frequently used in the description are included in Table VI.
- ⑧ Miscellaneous observation and procedures noted by the driller are shown in this column, including water level observations. It is important to realize that the reliability of the water level observations depend upon the soil type (water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the borings may have influenced the observations. The ground water level typically will fluctuate seasonally. One or more perched or trapped water levels may exist in the ground seasonally. All the available readings should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or water observation installations.
- ⑨ The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in feet and tenths of feet. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is also noted. The more commonly used sizes of core barrels are denoted "AX" and "NX". The "NX" core, being larger in diameter than "AX" core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. The "NX" core barrel requires the use of four inch diameter casing.

5-1-70
5-1-70
OF 1



EMPIRE SOILS INVESTIGATIONS, INC.

SUBSURFACE LOG

HOLE NO. B-175
SURF ELEV. 325.6
C W DEPTH See Note #1

LOCATION YYY

BLOWS ON SAMPLER					BLOW ON CASING C	CROSS SECTION	SOIL OR ROCK CLASSIFICATION	NOTES
2	6	12	18	24				
2	2	3	5	10			TOPSOIL 3"	Note #1 GW. at 2.0' completion GW. at 2.2' 24 hrs. after completion
				15			Brown SILT, some Sand, trace clay (Moist - Loose)	
				50/5'			Gray SHALE, medium hard weathered, thin bedded some fractures	Cored 2.5' - 5.0', Run #1 95% Recovery AX Core

TABLE II

Identification of soil type is made on basis of an estimate of particle sizes, and in the case of fine grained soils also on basis of plasticity.

Soil Type	Soil Particle Size	
Boulder	> 12"	
Cobble	3" - 12"	
Gravel - Coarse	3/4" - 3/4"	Coarse Grained (Granular)
- Fine	#4 - #4	
Sand - Coarse	#4 - #10	
- Medium	#10 - #40	
- Fine	#40 - #200	
Silt - Non Plastic (Granular)	< #200	Fine Grained
Clay - Plastic (Cohesive)	< #200	

TABLE III

The following terms are used in classifying soils consisting of mixtures of two or more soil types. The estimate is based on weight of total sample.

Term	Percent of Total Sample
"and"	35 - 50
"some"	20 - 35
"little"	10 - 20
"trace"	less than 10

(When sampling gravelly soils with a standard split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter.)

TABLE V

Varved - Alternating layers, seams, and partings of soils.

Layer - Soil deposit more than 6" thick.

Seam - Soil deposit less than 6" thick.

Parting - Soil deposit less than 1/8" thick.

Uniform - All grains are of about the same diameter.

Relative compactness or consistency is described in accord with the following terms.

Granular Soils	Blows per Foot, N	Term	Cohesive Soils	Blows per Foot, N
	< 10	Very Soft		< 2
	11 - 30	Soft		3 - 5
	31 - 50	Medium		6 - 15
	> 51	Stiff		16 - 25
		Hard		> 26

(Large particles in the soils will often significantly influence the blows per foot recorded during the Penetration Test.)

Classification Terms	Meaning
Hardness Soft Medium Hard Hard Very Hard	Scratched by fingernail Scratched easily by penknife Scratched with difficulty by penknife Cannot be scratched by penknife
Weathering Very Weathered Weathered Sound	Judged from the relative amounts of disintegrating iron staining, core recovery, clay seams, etc
Fracturing Laminated Thin bedded Bedded Thick bedded Massive	Natural breaks in Rock Layers (< 1") (1" - 4") (4" - 12") (12" - 36") (> 36")

(Fracturing refers to natural breaks in the rock oriented at some angle to the rock layers.)

DATE
 STARTED 12/21/81
 FINISHED 12/22/81
 SHEET 1 OF 2



EMPIRE SOILS INVESTIGATIONS, INC.

HOLE NO B-CD-1

SURF ELEV _____

C W DEPTH _____

SUBSURFACE LOG

PROJECT Environmental Resource Management - C & D Battery

LOCATION Port Jervis, N.Y.

DEPTH	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER				BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
			0-6	6-12	12-18	18-24			
0	/	1	15	16		39	Greyish Brown - fine GRAVEL and coarse-fine SAND, trace Silt, dry	Groundwater Observation Installation. 2" diameter PVC screen and riser pipe. Tip at 37' screen from 37' to 27' Bentonite seal from 25' to 20'. PVC stick-up 2' above ground and covered with a threaded capped protective casing.	
			23	52			5.0'		
5	/	2	17	23	28	51	Brown fine SAND, trace to little Silt, moist		
10	/	3	8	15	19	34			
15	/	4	9	17	22	39	Brown SILT, wet		
20	/	5	12	19	25	44	Brown SILT, some fine Sand, moist		
25	/	6	24	27	28	55	Brown - fine GRAVEL and coarse-fine SAND, trace Silt, moist		
30	/	7	7	18	20	38			
35	/	8	10	15	20	35	Brown coarse-fine SAND, some medium-fine Gravel, trace Silt, wet		
40									

N = No blows to drive 2 " spoon 12 " with 140 lb pin wt falling 30 " per blow CLASSIFICATION _____
 _____ " with _____ lb weight falling _____ " per blow

DATE
 STARTED 12/30/81
 FINISHED 12/31/81
 SHEET 1 OF 2



EMPIRE SOILS INVESTIGATIONS, INC.

HOLE NO B-CD-2
 SURF ELEV
 C/W DEPTH

SUBSURFACE LOG

PROJECT Environmental Resource Management-C & D Battery

LOCATION Port Jervis, NY

DEPTH	SAMPLE NO	BLOWS ON SAMPLER					BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
		0-6	6-12	12-18	18-24	N			
0	1	3	3	5	8		Brown Topsoil, moist 2.0'	Samples 4 through 8 were wash samples. Groundwater Observation Well 2" diameter PVC screen & riser pipe installed to 40.6'. Screen from 40.6'-30.6' Bentonite seal from 25'-22' PVC Stickup 2.5' inside Protective casing.	
2	2	8	8	8	16		Medium Brown SILT and fine SAND		
10	3	24	19	29	48		Brown coarse-fine SAND, some medium-fine Gravel, trace SILT		
14	4						Coarse Sand (Wash sample)		
20	5						Brown coarse-fine GRAVEL, some + coarse-fine Sand, trace- silt		
24	6								
30	7								
36	8								

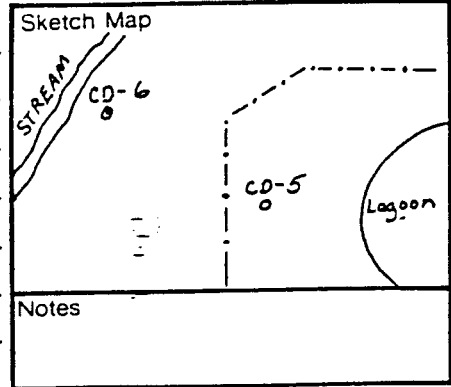
N = No blows to drive 2 " spoon 12 " with 140 lb pin wt. falling 30 " per blow
 C = No blows to drive " casing " with lb weight falling " per blow

CLASSIFICATION

Environmental Resources Management

Drilling Log

Project C&D Batteries Owner _____
 Location Huguenot, NY W.O. Number _____
 Well Number CD-6 Total Depth 42.5' Diameter 6"
 Surface Elevation 470.62 Water Level: Initial 29.8' 24-hrs. 28.66'
 Screen: Dia. 2" Length 10' Slot Size .010
 Casing: Dia. 2" Length 35' Type PVC
 Drilling Company Empire Soils Drilling Method Holl. Stem Auger
 Driller Mike Warner Log By C. Werle Date Drilled 3/1/82



Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
0			1	Grayish brown medium to coarse sand, gravel and small cobbles to 2"-minor fine sand and silt.
5			2	Coarse sand, gravel, cobbles with reddish silty clay coating.
10			3	Well sorted tannish brown medium to coarse sand, some pebbles - reddish silty coating.
15			4	Same as above.
20			5	Gravel and cobbles with minor medium and coarse sand - red silty clay stringer interbedded with coarse material.
25			6	Medium to coarse sand and gravel, some small stones, approximately 2%-3% fine sand and silt.
30			7	Coarse sand and gravel, some small cobbles, brown silty coating on all material; sample wet.
35			8	Dark tannish brown medium to coarse sand and gravel, some larger stones.
40			9	Same as above.
45				

Environmental Resources Management

Drilling Log

Project C&D Batteries Owner _____
 Location Huguenot, NY W.O. Number _____
 Well Number CD-7 Total Depth 29' Diameter 6"
 Surface Elevation 459.07 Water Level: Initial 17.0 24-hrs. 16.39
 Screen: Dia. 2" Length 10' Slot Size .010
 Casing: Dia. 2" Length 21' Type PVC
 Drilling Company Empire Soils Drilling Method Holl. Stem Auger
 Driller Mike Warner Log By C. Werle Date Drilled 3/3/82

Sketch Map

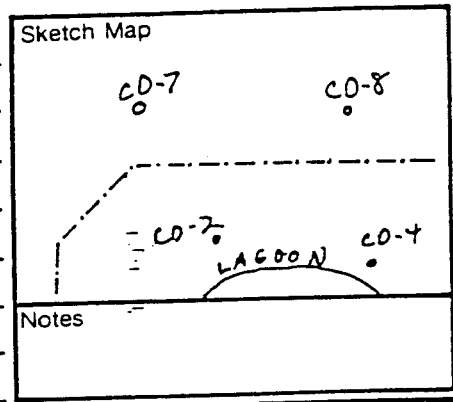
Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
0-5	[Graphic Log]	[Well Construction]	1	Well-sorted tannish brown very fine sand, small number of small (1/4"-1/2") pebbles.
5-10	[Graphic Log]	[Well Construction]	2	Tan brown very fine sand to coarse silt, totally homogeneous.
10-15	[Graphic Log]	[Well Construction]	3	Tan very fine sand, sharp contact with coarse-horizon consisting of medium to coarse sand and gravel, some interstitial silt.
15-20	[Graphic Log]	[Well Construction]	4	Coarse sand and gravel above 1" thick reddish tan clay - cohesive and plastic, below clay is brown well-sorted medium sand.
20-25	[Graphic Log]	[Well Construction]	5	Medium and coarse sand, gravel, pebbles - silty coating on all material.
25-30	[Graphic Log]	[Well Construction]	6	Medium to coarse sand with some gravel, grading into medium sand with minor interstitial silt.
30-35	[Graphic Log]	[Well Construction]	7	Same as above.

Environmental Resources Management

Drilling Log

Project C&D Batteries Owner _____
 Location Huguenot, NY W.O. Number _____
 Well Number CD-8 Total Depth 33.0' Diameter 6"
 Surface Elevation 460.82 Water Level: Initial 23.5' 24-hrs. _____
 Screen: Dia. 2" Length 10' Slot Size .010
 Casing: Dia. 2" Length 25' Type PVC
 Drilling Company Empire Soils Drilling Method Holl. Stem Auger
 Driller Mike Warner Log By C. Werle Date Drilled 3/4/82



Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			1	Brown, organic-rich fine sand and silt, some pebbles, minor interstitial plastic brown clay.
5			2	Dark brown silty, clayey matrix with gravel and pebbles-material cohesive and moderately plastic.
10			3	Tan, very well sorted coarse silt.
15			4	Tan well sorted silt, as above, grading into tan silty clay - sample damp.
20			5	Brownish tan medium and fine sand with interstitial silt, grading into reddish tan, plastic, cohesive silty clay.
25			6	Well sorted brown fine sand and silt, occasional pebbles.
30			7	Same as above, no pebbles.
35			8	Brown fine sand and silt with slight grain size variation over length of sample.

Environmental Resources Management

Drilling Log

Project C&D Batteries Owner _____
 Location Huguenot, NY W.O. Number _____
 Well Number CD-9 Total Depth 33.0' Diameter _____
 Surface Elevation 462.41 Water Level: Initial 24.35' 24-hrs. 20.56'
 Screen: Dia. 2" Length 10' Slot Size .010
 Casing: Dia. 2" Length 25' Type PVC
 Drilling Company Empire Soils Drilling Method Holl Stem Auger
 Driller Mike Warner Log By C. Werle Date Drilled 3/3/82

Sketch Map

CD-7 CD-9 CD-10
 CD-2 CD-4 Bldg
 Lagoon

Notes _____

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			1	Tannish brown fine sand and silt, some pebbles.
5			2	Dark tan, very well sorted silt, sample totally homogeneous.
10			3	Same as above.
15			4	Tan silt, as above, with interbedded laminae of lavender silty clay, sample wet.
20			5	Brown silty clay, sample cohesive and plastic interbedded horizons of brownish black medium sand with interstitial silt.
25			6	Brown fine and medium sand with interstitial silt sample somewhat cohesive.
30			7	Brown fine sand, percent silt in sample varies vertically.
35			8	Dark brown medium and fine sand with some interstitial silt.

GENERAL INFORMATION & KEY TO SUBSURFACE LOGS

The Subsurface Logs attached to this report present the observations and mechanical data collected by the driller while at the site, supplemented by classification of the materials removed from the borings as determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Subsurface Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of this report and the recovered samples must be performed by Professionals having experience in Soil Mechanics and Foundation Engineering. The information presented in the following defines some of the procedures and terms used on the Subsurface Logs to describe the conditions encountered.

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- ③ The Sample No. is used for identification on sample containers and/or Laboratory Test Reports.
- ④ Blows on Sampler—shows the results of the "Penetration Test", recording the number of blows required to drive a split spoon sampler into the soil beneath the casing. The number of blows required for each six inches penetration is recorded. The total number of blows required for the last 12 inches of penetration are summarized in the "N" column. The outside diameter of the sampler, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log.
- ⑤ Blows on Casing— shows the number of blows required to advance the casing a distance of 12 inches. The casing size, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log. If the casing is advanced by means other than driving, the method of advancement will be indicated in the Notes column or under Method of Investigation at the bottom of the Subsurface Log.
- ⑥ All recovered soil samples are reviewed in the laboratory by technicians. The visual descriptions are made on basis of the sample as recovered and in accordance with the Unified Classification System. Guide Lines for the terms used in descriptions are presented in Tables II and III. The description of the relative soil compactness or consistency is based upon the penetration records as defined in Table IV. The description of the soil moisture is based upon the condition of the sample as recovered. The moisture condition is described as dry, damp, moist or wet. Water used to advance the boring may have affected the in-situ moisture content of the sample. Special terms are used as required to describe materials in greater detail; several such terms are listed in Table V. When sampling gravelly soils with a standard two-inch diameter split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders and large gravel is sometimes, but not necessarily, detected by an evaluation of the casing and sampler blows or through the "action" of the drill rig as reported by the driller.
- ⑦ The description of rock shown is based upon the recovered rock core. Terms frequently used in the description are included in Table VI.
- ⑧ Miscellaneous observation and procedures noted by the driller are shown in this column, including water level observations. It is important to realize that the reliability of the water level observations depend upon the soil type (water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the borings may have influenced the observations. The ground water level typically will fluctuate seasonally. One or more perched or trapped water levels may exist in the ground seasonally. All the available readings should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or water observation installations.
- ⑨ The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in feet and tenths of feet. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is also noted. The more commonly used sizes of core barrels are denoted "AX" and "NX". The "NX" core, being larger in diameter than "AX" core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed.

STARTED 3-3-82

FINISHED 3-3-82

SHEET 1 OF 1



SUBSURFACE LOG

HOLE NO. CD-7

SURF. ELEV. _____

G. W. DEPTH See Note

OBJECT Observation Well Installations
C & D Battery, Inc.

LOCATION Huguenot, New York

SAMPLE NO	BLOWS ON SAMPLER				BLOW IN CASING
	0-6	6-12	12-18	N	
1	6	4			8
	4	3			
2	4	5			9
	4	4			
3	4	15			33
	18	15			
4	3	5			11
	6	7			
5	7	12			26
	14	15			
6	6	13			22
	9	10			
7	4	5			12
	7	9			

SOIL OR ROCK CLASSIFICATION

SILT, ROOTS & fine GRAVEL 0.5'

Brown, SILT & fine SAND (Damp-Loose)

grades similar

COBBLES from 7.0'-8.0'

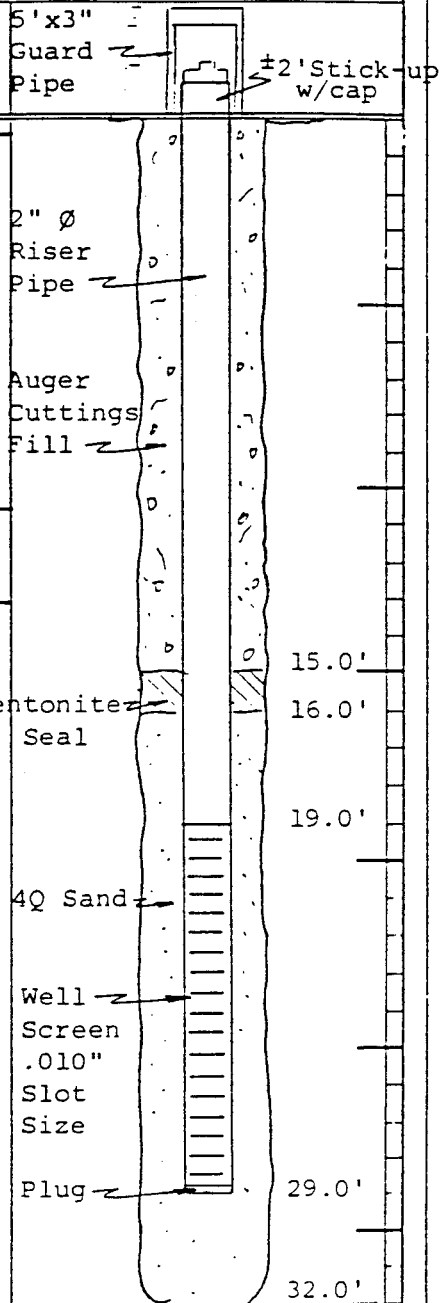
Brown, coarse GRAVEL (Moist-Compact) 10.5'

Brown, medium-fine SAND w/CLAY seam @ 15.0'-15.2' (Moist-Firm) 13.0'

Brown SILT & fine SAND COBBLE in tip of spoon (Wet-Firm)

Brown, medium-fine SAND, Some fine Gravel-little recovery (Wet-Firm)

Brown, medium-fine SAND (Wet-Firm)



Boring Terminated @ 32.0'

Note: Water level @ 19.5' inside 20' of casing. At completion of boring water level @ 18.0'.

No. Blows to drive 2 spoon 12 with 140 lb. pen wt. falling 30" per blow

No. Blows to drive _____ casing with _____ lb. weight falling _____" per blow

3 1/4" I.D. Hollow Stem Auger Casing

CLASSIFICATION Visual by Driller

DATE
 STARTED 3-4-82
 FINISHED 3-4-82
 SHEET 1 OF 1



SUBSURFACE LOG

HOLE NO CD-8
 SURF. ELEV. _____
 C. W. DEPTH See Note

PROJECT Observation Well Installations LOCATION Huguenot, New York
C & D Battery, Inc.

DEPTH	SAMPLE NO	BLOWS ON SAMPLER				BLOWS ON CASING	SOIL OR ROCK CLASSIFICATION	Diagram
		0-6	6-12	12-18	18-24			
0	1	4	4		10	Brown, coarse-medium GRAVEL & SILT ROOTS (Damp-Firm)	5'x3" Guard Pipe #2' Stick-up w/cap 2" Ø Riser Pipe	
		6	7					
5	2	6	6		13	Brown, coarse-medium SAND, GRAVEL & SILT (Possible Fill) (Damp-Firm) Note: Auger Refusal @ 6.5', Moved borehole and proceeded sampling at 10.0'	Auger Cuttings Fill	
		7	21					
10	3	5	5		9	Brown, SILT & fine SAND (Damp-Loose)	Bentonite Seal	
		4	5					
15	4	3	4		9	grades similar with Some Clay (Wet-Loose)	4Q Sandz	
		5	5					
20	5	2	4		10	Brown, SILT & fine SAND w/medium-fine SAND seams and CLAY seams (Wet-Firm)	Well Screen .010" Slot Size	
		6	7					
25	6	2	4		8	Brown, SILT & fine SAND, trace fine gravel (Wet-Loose)	Plug	
		4	5					
30	7	4	3		8	grades similar-no gravel (Wet-Loose)	37.0	
		5	6					
35	8	3	4		9	grades, damp	37.0	
		5	5					
40						Boring Terminated @ 37.0' Note: Water level @ 23.5' inside 30' of casing.		

N blows to drive _____ specimen _____ with _____ lb pin wt falling _____ per blow CLASSIFICATION Visual by
 _____ Driller
 _____ casing _____ with _____ lb weight falling _____ per blow
 METHOD OF INVESTIGATION 3 1/2" I.D. Hollow Stem Auger Casing

DATE

STARTED 3-2-82

FINISHED 3-3-82

SHEET 1 of 1



SUBSURFACE LOG

HOLE NO CD-9

SURF. ELEV

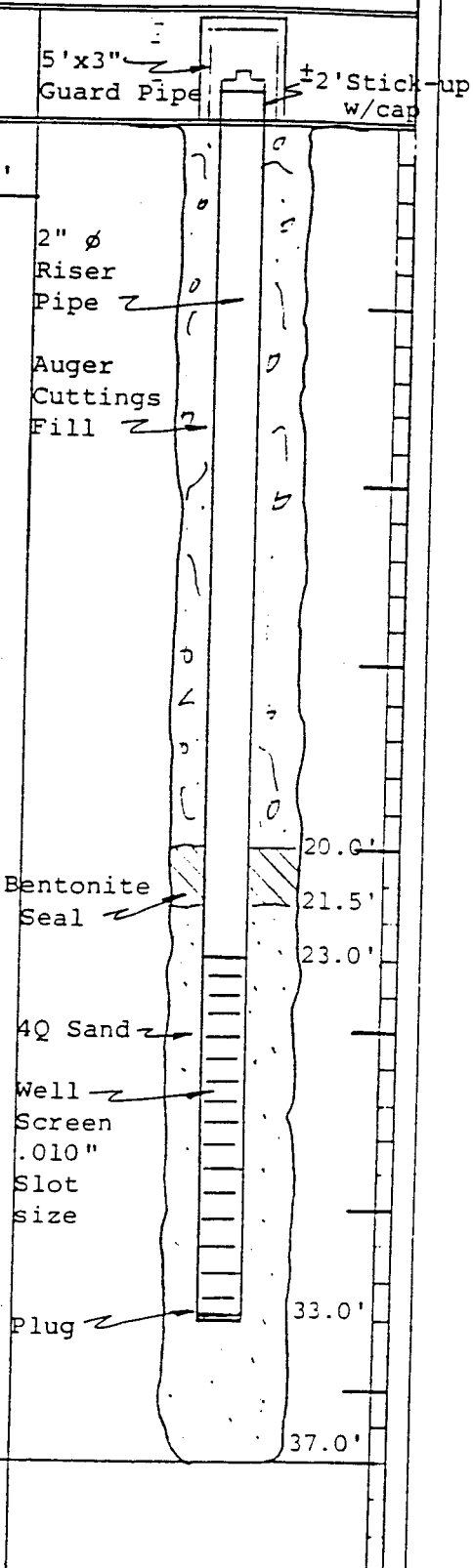
G. W. DEPTH See Note

PROJECT Observation Well Installations
C & D Battery, Inc.

LOCATION Huguenot, New York

DEPTH	SAMPLE NO	BLOW ON SAMPLER				BLOW ON CASING	SOIL OR ROCK CLASSIFICATION	Diagram
		1'	2'	3'	4'			
0	1	10	6				Brown, medium-fine SAND & GRAVEL, Some Silt, roots (Damp-Firm) 2.0'	
		16	18	22				
5	2	5	6				Brown, SILT & fine SAND (Damp-Firm)	
		5	5	11				
10	3	8	5				grades similar	
		6	7	11				
15	4	4	5				grades similar w/CLAY seam @ 16.5' (Wet-Loose)	
		4	5	9				
20	5	3	6				grades similar with medium-fine SAND seam @ 21.0'-21.2' (Wet-Firm)	
		7	6	13				
25	6	1	1				Brown, medium-fine SAND (Wet-Loose)	
		3	3	4				
30	7	3	2				grades similar w/trace silt & fine gravel	
		3	5	5				
35	8	2	2				Brown, medium-fine SAND & SILT w/ medium-fine SAND seam @ 36.5'-36.7' (Wet-Loose)	
		4	3	6				
37.0'							Boring Terminated @ 37.0'	

Note: Water level @ 28.0' inside 30' of casing. At completion of boring water level @ 24.2' inside 30' of casing



No. blows to drive 2 spoon 12 with 140 lb pin wt falling 30 per blow
 No. blows to drive casing with lb weight falling per blow
 TYPE OF INVESTIGATION 3 1/2" I.D. Hollow Stem Auger Casing

CLASSIFICATION Visual by Driller