

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

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INTERIM SAMPLING VISIT INVESTIGATION

MARCH 1994



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**PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK**

INTERIM SAMPLING VISIT INVESTIGATION

PROJECT NO.: 30000-15

MARCH 1994



**CHESTER
ENVIRONMENTAL**

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INTERIM SAMPLING VISIT INVESTIGATION

PHILIPS DISPLAY COMPONENTS COMPANY SENECA FALLS, NEW YORK

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PHILIPS DISPLAY COMPONENTS COMPANY SENECA FALLS, NEW YORK

EXECUTIVE SUMMARY

The Supplemental Sampling Investigation (SSVI) at the former Philips Display Components Company, Seneca Falls, NY, facility was conducted in accordance with the scope of work presented in the Supplemental Sampling Visit Work Plan (SSVWP) and in accordance with the site specific Quality Assurance Project Plan (QAPjP). Field activities were completed during May through September 1993 and November 1993 through February 1994. The SSVWP separated the scope of work at the Seneca Falls facility into three areas requiring investigation; the outside process sewers, the inside process sewers and the former underground storage tank (UST) locations. This interim report presents the results of a portion of the scope of work completed from May through July 1993, which includes the investigation of outside process sewer lines, sealing concrete water reservoirs, monitoring well installation and investigation of nine former UST locations. The remainder of the tasks to complete the scope of work presented in the SSVWP were completed from July through September and November 1993 through February 1994. The results will be presented in a final Supplemental Sampling Visit Investigation Report scheduled for issue in the second quarter of 1994.

Chester considered the NYSDEC action levels for organic compounds when evaluating the need for further investigation of a specific area. The need for further investigation of inorganics was based upon NYSDEC action levels for cadmium, lead, zinc, lead and fluoride and average background concentrations for chromium and zinc based upon average soil concentrations from background soil samples.

Impacts to groundwater quality from metals is not of concern at the Seneca Falls facility. In all instances, regardless of metals concentrations in soil samples collected from soil borings for monitoring wells, the metals concentrations in groundwater were consistently either below detection limits or below all groundwater standards for those metals. Based upon the low concentrations of metals in groundwater, the soils do not degrade groundwater quality with respect to metals. *Not yet answered*

Analytical results of soil samples collected along the former process sewer lines indicate that further investigation is needed along sewer lines HO1, HO2, HO3, HO4, HO5, HO6 and HO7 for cadmium, chromium, lead or zinc and volatile organics. The primary areas of concern in regards to metals are the former discharge points for past process sewers. The impacts from volatile organics are minimal.

Three areas of concern related to groundwater impacted by volatile organics are indicated from the results of two rounds of ground water sampling from the monitoring wells installed during this investigation. The three areas are the vicinity of MW-20 on the north side of the facility, an area approximated by MW-23 to MW-26 and lastly, an area south of Building 13 in the vicinity of MW-25.

No constituents of concern were detected above action levels in soil samples collected from the nine UST locations, except U09 where chrysene slightly exceeded NYSDEC action levels in one sample. However, during trench excavations for underground sewer installation, impacted soils were indicated by visual observations and field screening in the vicinity of UST's U05, U06, U07, U08 and U09. Soil samples were collected and analyzed for petroleum compounds. Analytical results have been received, are being validated and will be presented in the final Supplemental Sampling Visit Report.

1.0 INTRODUCTION

Field activities were completed at the Philips Display Components Company former facility at Seneca Falls, New York, according to the scope of work presented in the Supplementary Sampling Visit Work Plan (SSVWP) and the site specific Quality Assurance Project Plan (QAPjP). Both plans were approved by the New York State Department of Environmental Conservation (NYSDEC). The SSVWP separated the scope of work at the Seneca Falls facility into three areas requiring investigation; the outside process sewers, the inside process sewers and nine former underground storage tank (UST) locations. The outside process sewers were investigated by collecting soil samples adjacent to sewer trenches near building exit points and in the proximity of the end of each sewer line at the outfall. The areas beneath the plant floors were designated an inaccessible SWMU, accordingly, the inside process sewers were not investigated. Instead, as a precautionary measure, Philips eliminated all potential recharge from surface waters, to the extent possible, by rerouting the roof drains, plugging and sealing all floor drains and sealing the walls and floors of two underground concrete water storage tanks. Monitoring wells were then installed around the plant buildings to monitor the local groundwater regime. The UST's were investigated by placing a minimum of 4 soil borings at each former UST location.

The field work to complete the investigation was performed during May through September 1993 and November 1993 through February 1994. This interim report presents the results of the portion of the investigation completed from May through September 1993, which includes the outside process sewers, the sealing of the concrete reservoirs, monitoring well installation and investigation of the nine former UST locations. The results of the roof drain rerouting and the pit, sump, and trench sealing will be presented in the final report.

The organization of this report is as follows: Section 1 briefly describes general features of the site and lists areas of the site where environmental issues have prompted investigations, Section 2 describes the activities completed during the Supplementary Sampling Visit Investigation (SSVI), Section 3 discusses the results of investigations, and Section 4 presents the conclusions and recommendations.

1.1 Site History

The facility was originally owned by the Rumsey Pump Company who sold the site to Sylvania in 1948. Sylvania manufactured television picture tubes at the facility from 1948 to 1960. In 1960 the plant was sold to GTE, who in turn sold it to Philips Display Company in 1981. The original manufacturing by Sylvania was done in Buildings 1 through 5. Over time, the facility was expanded to include Buildings 6 through 13. By 1972, GTE was conducting most of its manufacturing operations in Buildings 8, 10, 10A, 11, and 13 (Figure 1-1).

In 1981 Philips manufactured television picture tubes at the facility which also served as headquarters for other Philips operations. Process waste was generated in television glass and metal tube component fabrication, cleaning, finishing, coating, and tube salvage operations. Philips ceased manufacturing activities in 1986 and sold the facility to the Seneca County Industrial Development Agency in 1989.

From 1948 to 1972, during Sylvania and GTE ownership and operation, the facility sewers discharged process waters to Van Cleef Lake or the Seneca River through several outfalls along the escarpment located south of the facility. The outfalls were not monitored before 1972. The sewers, sumps, and pits conveyed all the process waste waters during this period. Many of the sumps, pits, and the drains in the original sewer system were filled with concrete and abandoned before Philips' ownership.

In 1971 and 1972, GTE made changes to the facility process sewer system by segregating the process sewer lines that handled nontreated wastewater (storm water and floor drain runoff) from those sewer lines that handled wastewater to be treated. These changes were accomplished by the construction of an interceptor sewer line to the south of the facility and the construction of an Industrial Wastewater Treatment Plant (IWTP). The interceptor line was installed and a manhole constructed around each of the connections to outfalls 2, 3, 4, 4A, and 5. When the interceptor line was complete, the outfall sewer line was removed from inside the manhole, which allowed nontreated wastewater from the facility buildings to enter the interceptor

line. The remaining portions of outfalls 2, 3, 4, 4A, and 5 from the interceptor line to the discharge point were abandoned.

All wastewater to be treated was redirected to the IWTP via construction of segregated process lines, which were 4-inch diameter overhead manifolds throughout the plant and underfloor process sewer lines for Buildings 13 and 13A. The treated wastewaters from the IWTP were discharged through a 6-inch pipe to the interceptor line. Nontreated and treated wastewaters were conveyed by the interceptor line to the Wastewater Effluent Settling Lagoon, which was RCRA closed in 1987. The overflow from the Effluent Lagoon discharged to the New York State Pollution Discharge Elimination System (NYSPDES) outfall 01, which discharged to the Seneca River Barge Canal. The water discharged at NYSPDES 001 was monitored prior to being released to the canal.

1.2 Site Characteristics

1.2.1 Description

The facility is bordered by Van Cleef Lake and the Seneca River and Barge Canal to the south, undeveloped and agricultural land to the north and east, and residential areas to the west. The plant property encompasses approximately 85 acres. The area under roof is approximately 13 acres. A plan view of the site is presented in Figure 1-1.

1.2.2 Surface Features

The site topography is generally flat in the plant building and parking areas with the ground surface sloping gently south toward the Seneca River to the edge of the escarpment. At the escarpment the land surface drops steeply to the Seneca River. Land surface east of Building 13 is marshy and well vegetated between Taravia Drive and the security fence. ConRail tracks border the northwestern edge of the plant property.

1.2.3 Climatology

Seneca County's climate has been classified as humid-continental. The local climate is slightly modified by the Finger Lakes which typically cause a longer growing season. The average length of growing season is 154 days, the mean dates of the last and first killing frosts being May 8 and October 9, respectively. Mean annual precipitation of Seneca County, as observed at four stations for different periods of record is 33.39 inches and ranges from a low of 30.97 inches at Romulus, New York to a high of 35.28 inches at Ovid, New York. Approximately 30 percent of the total annual precipitation occurs during the summer months (June through August). The mean annual temperature is 47.8° F with a maximum temperature recorded of 90° F and the minimum, minus 19° F.

1.2.4 Geologic Setting

1.2.4.1 Regional Geology

The upland surfaces in the Seneca Falls area consist principally of a glacial till deposited during the Wisconsin glacial epoch. Glacial till typically contains particle sizes ranging from clay to boulders. The tills are massive, unstratified and dense.

The bedrock underlying the till is sedimentary with bedrock dipping 50 feet to the mile. The uppermost unit immediately below the site is the Bertie Limestone which is approximately 25 feet thick and composed of an impure magnesian limestone with thin shale interbeds. The Camillus Shale lies directly below the Bertie Limestone, is approximately 500 feet thick and consists of shale with thin beds of gypsum and salt. The Bertie limestone and the Camillus Shale make up the Upper Silurian Salina Formation.

Both units are prone to solution cavities. In the Bertie Limestone the calcium and magnesian carbonates are prone to solution. In the Camillus shale, salt and gypsum are prone to solution. The occurrence of solution enhanced fractures in the two rock units have made the Salina Formation the most productive formation in Seneca County. Wells produce from five to 400 gallons per minute and average 45 gallons

per minute. Water quality is generally poor due to hardness, high dissolved solids, the presence of hydrogen sulfide, and high levels of chloride.

1.2.4.2 Site Geology

The facility is underlain by glacial till which is believed to be approximately 20 to 35 feet thick. The till is massive, typically very stiff to dense, with occasional lenses of sand, silt or gravel. Particle size ranges from clay to boulders. The larger sized particles are mostly limestone with occasional metamorphic or igneous rocks.

Bedrock encountered in soil borings has been described as limestone with shale and gypsum partings. Some solution fractures have been encountered in the bedrock.

1.2.4.3 Hydrogeology

Ten groundwater monitoring wells were installed around the plant perimeter as part of the SSVI to assess groundwater quality. The first groundwater bearing zone occurs in glacial till, approximately four to five feet below ground surface. Figure 1-2 presents groundwater elevation contours constructed from water level data collected on June 14, 1993. The water level contour map indicates groundwater flow is towards the south and southeast with a hydraulic gradient of about 0.015 feet per foot.

Slug testing, performed as a part of previous investigations, indicates the average hydraulic conductivity, of the upper 20 feet of till is $3.7E-05$ cm/sec. Groundwater velocity, based on the average hydraulic conductivity, a 0.015 gradient, and an estimated effective porosity of 0.30, is calculated to be 2.1 feet per year.

2.0 SITE INVESTIGATION

2.1 Background Sampling

Background soil samples were collected during the Sampling Visit Investigation to assist in the evaluation of data collected during field investigations. An area northeast of the plant was selected as a background area based on plant maps, aerial photographs and interviews with facility personnel. The area selected as background has always been used for agriculture; no industrial use of this area is known. Soil samples were collected from the background area on the assumption that the samples would be characteristic of native soils.

Two soil borings, BS-SB1 and BS-SB2, were completed to a depth of 16 feet. The borings encountered a stiff to hard, brown silty clay with minor amounts of sand and gravel. the clay unit was identified as a glacial till. No water was encountered during drilling. Soil borings were backfilled with a bentonite cement grout following completion of drilling activities. Soil boring logs are presented in Appendix A. Background soil boring locations are shown in Figure 2-1.

Continuous soil samples were collected from each boring using split spoons. Soil samples were analyzed for total metals; cadmium, chromium, lead, zinc and fluoride.

2.2 Soil Sampling at Outside Process Sewers and Outfalls

Six former outside sewer lines transmitted wastewaters by gravity to the outfalls which discharged to Van Cleef Lake or to the Seneca River. The seventh sewer line, HO1, has historically, only carried nonwastewater. The investigation of the sewer lines and historic outfalls was implemented to assess the soil conditions in the sewer line backfill and in natural soils below the sewer line excavations. Shallow soil samples were collected at former outfall locations to assess soil conditions.

Nineteen soil borings were completed using a truck mounted drilling rig. The soil borings completed at the process sewers were advanced to the native soil below the pipeline bedding material. Soil samples were collected from the bedding material at

the bottom of the sewer and from the natural soil below the bedding. Seven shallow surface locations were completed using hand-driven split spoons to collect shallow soil samples at outfall locations. Soil samples were analyzed for pH, aromatic volatiles (EPA Method 8010), halogenated volatiles (Method 8020), total cadmium, chromium, lead, zinc, and fluoride. Soil boring logs are presented in Appendix A of this report. The locations of the process sewer lines are shown on Figure 1-1.

2.2.1 Storm Sewer Line HO1

One soil boring and one surface sample were completed along the outside process sewer line HO1 and as close to outfall number 1 as possible. Soil boring -SB1 was positioned south of an eight-inch terra-cotta line, which exits from the west side of Building 1. Boring -SB1 was advanced to a depth of 11 feet. Two soil samples, from 9 to 10 feet and 10 to 11 feet, were collected for analyses. Surface sample -SB2 was advanced using hand-driven split spoons to a depth of 2 feet. The sample location was positioned south and west of Building 1 at a point near the escarpment where the sewer line extends downhill and enters the Van Cleef Lake. Soil samples, from 0 to 1 foot and 1 to 2 feet, were collected for analyses.

2.2.2 Process Sewer Line HO2

Three soil borings and one surface sample were completed along the outside process sewer line HO2 and outfall number 2. Soil boring -SB1 was positioned south of Building 5 near a 6-inch, reinforced concrete pipe (RCP) sewer line and was advanced to a depth of 5.5 feet. One soil sample, from 3.5 to 4.5 feet, was collected for analyses. Soil borings -SB2 and -SB3 were positioned near points where a 8-inch and an 10-inch terra cotta line exited Building 2. The soil borings were advanced to depths of 7 and 8 feet, respectively. Duplicate soil samples were collected at -SB2 at a depth of 5 to 6 feet; a second sample was collected at 6 to 7 feet. Two soil samples were collected for analyses from -SB3 at depths of 5 to 6 feet and 6 to 7 feet. surface sample -SB4 was positioned within the drainage ditch from outfall number 2 and as close as possible to the outfall. The sample was collected using hand-driven split spoons. Two soil samples, at depths of 0 to 1 foot and 1 to 2 feet, were collected for analyses.

2.2.3 Process Sewer Line HO3

Six soil borings and one surface sample were completed along the outside process sewer line and outfall number 3. The location of surface sample HO3-SB1 was in the drainage ditch, as close to the discharge point of HO3 as was possible and was advanced to a depth of 2 feet using hand-driven split spoons. Soil samples were collected at depths of 0 to 1 foot and 1 to 2 feet. Soil borings -SB2 and -SB3 were positioned near the exit points of 2 ten-inch terra cotta lines located south of Building 7. The soil borings were advanced to depths of 6 and 10 feet, respectively. Two soil samples were collected from -SB2 at depths of 4 to 5 feet and 5 to 6 feet. A duplicate soil sample was collected from -SB3 at a depth of 7 to 8 feet; a second soil sample was collected at 8 to 9 feet. Soil boring -SB4 was positioned south of a truck dock located on the south side of Building 9 near the exit point of a 12-inch terra cotta line. The boring was advanced to a depth of 6 feet. Two soil samples were collected at depths of 4 to 5 feet and 5 to 6 feet. Soil boring -SB5 was positioned south of Building 9 at the exit point of 12-inch terra cotta line and advanced to a depth of 8 feet. Two soil samples were collected at depths of 3 to 4 feet and 4 to 5 feet. Soil boring -SB6 was positioned north of Building 12 at the exit point of a 10-inch terra cotta sewer line. The soil boring was advanced to a depth of 6 feet. Two soil samples were collected at depths of 3 to 4 feet and 4 to 5 feet for analyses. Soil boring -SB7 is located south of Building 12 at the exit point of a sewer line. The boring was advanced to a depth of 8 feet. Two samples were collected for analyses at depths of 5 to 6 feet and 6 to 7 feet.

2.2.4 Process Sewer Line HO4

One soil boring and one surface sample were completed along outside process sewer line HO4 and at outfall number 4. Soil boring HO4-SB1 was located at the exit point of a 24-inch RCP on the south side of Building 11. The soil boring was advanced to a depth of 11 feet. Two soil samples were collected at depths of 9 to 10 feet and 10 to 11 feet. The location of surface sample -SB2 was in the drainage ditch at a point which approximates the HO4 discharge point. Hand-driven split spoons were used

to collect soil samples. Soil samples were collected at depths of 0 to 1 foot and 1 to 2 feet.

Before the field work, a second process line, Number 4A, which was thought to be installed parallel to HO4, could not be located, thus no soil samples were collected. Results from field inspections suggest that HO4A does not exist south of the interceptor line.

2.2.5 Process Sewer Line HO 5

Five soil borings and one surface sample were completed along outside process sewer line HO5 and outfall number 5. Soil boring HO5-SB1 was located at the exit point of a 24-inch RCP on the south side of Building 11. The soil boring was advanced to a depth of 10 feet. Two samples were collected at depths of 8 to 9 feet and 9 to 10 feet. Soil borings -SB2 -SB3 and -SB4 were located near the exit points of three, 4-inch Saran steel pipes on the south side of Building 13, near the chemical storage area. Soil boring -SB2 was advanced to a depth of 8 feet. Soil samples were collected at 6 to 7 feet and 7 to 8 feet. Soil borings -SB3 and -SB4 were advanced to a depth of 6 feet. Two soil samples were collected from -SB3 at depths of 4 to 5 feet and 5 to 6 feet. Two soil samples were collected from -SB4 at depths of 4 to 5 feet and 5 to 6 feet. Surface sample -SB5 was positioned in a drainage ditch at a point which approximates the HO5 discharge point. Hand-driven split spoons were used to collect soil samples. Two soil samples were collected at depths of 0 to 1 foot and 1 to 2 feet. Soil boring -SB6, located at the south east corner of Building 13, was advanced to a depth of 8 feet. Duplicate soil samples were collected at a depth of 5 to 6 feet; an additional soil sample was collected at 6 to 7 feet.

2.2.6 Process Sewer Line HO6

One soil boring and one surface sample were completed along outside process sewer line HO6 and outfall number 6. Soil boring HO6-SB1 was located near the exit point of an 18-inch RCP exiting from the east side of Building 13A. The soil boring was advanced to a depth of 7 feet. Two soil samples were collected at depths of 5 to 6 feet and 6 to 7 feet. Surface sample -SB2 was positioned approximately 100 feet east

of Building 13A in a drainage ditch at the HO6 discharge point. Hand-driven split spoons were advanced to a depth of 2 feet. Soil samples were collected from 0 to 1 foot and 1 to 2 feet.

2.2.7 Process Sewer Line HO7

Two soil borings and one surface sample were completed along outside process sewer line HO7 and outfall number 7. Soil boring HO7-SB1 was located near the exit point of an 18-inch RCP located on the east side of Building 13 and was advanced to a depth of 6 feet. Two samples were collected at depths of 4 to 5 feet and 5 to 6 feet. Soil boring -SB2 was located near the exit point of an 8-inch RCP located on the north side of Building 13A. The soil boring was advanced to a depth of 6 feet. Soil samples were collected at depths of 4 to 5 feet and 5 to 6 feet. Surface sample -SB3 was positioned in a drainage ditch approximately 125 feet east of -SB1, and at the approximate location of the HO7 discharge point. Hand-driven split spoons were advanced to a depth of 2 feet. Soil samples were collected at depths of 0 to 1 and 1 to 2 feet.

2.2.8 Quality Assurance/Quality Control

Three soil duplicates, seven rinsate blanks and five trip blanks were collected during the investigation of the outside sewers. The duplicates and rinsate blanks were analyzed for aromatic volatiles, halogenated volatiles, total cadmium, chromium, lead, zinc, and fluoride. Trip blanks were analyzed for halogenated volatiles.

2.3 Inside Process Sewers

During a meeting conducted on May 13, 1992 with NYSDEC, Philips, GTE and Chester Environmental, Philips and the NYSDEC agreed to designate the areas beneath the floor slabs at the Seneca Falls Facility an Inaccessible Solid Waste Management Unit (SWMU). Assignment of an inaccessible SWMU designation to the areas inside the plant buildings required Philips to complete several additional tasks at the site. The work described in this section summarizes the tasks agreed upon and completed.

2.3.1 Provisions for Future Demolition

It was proposed in the Supplemental Sampling Visit Work Plan that in the event of demolition of certain buildings or portions of buildings, the NYSDEC would be notified and an investigation program will be developed in accordance with the approved QAPjP, dated July 1992.

2.3.2 Backfilling and Sealing of Interior Drainage Structures

Interior drainage structures, such as floor drains, sumps, pits and trenches were backfilled and sealed to eliminate these areas as a potential source areas for surface water recharge. In this way, the possible transport of potential contaminants of concern would be eliminated, to the extent possible, from beneath the plant buildings.

The floor drains, sumps, pits and trenches within the buildings were identified and marked. Floor drain grates and caps were removed from the floor drains. The drains were cleaned of debris and flushed with 20 gallons of potable water and the flush water collected. An expandable plug was then placed in each drain and the remainder of the drain was sealed "Sack-Crete" to floor level. the sumps, pits, and trenches were cleaned of loose debris, washed with municipal water and filled with concrete to floor level.

A more detailed description of field activities will be presented in the final Supplemental Sampling Visit Report.

2.3.3 Rerouting of Roof Drains

The roof drains were rerouted to divert storm water from the buildings' interior drain lines. Rerouting will eliminate the potential for surface water recharge from exfiltration to the area beneath the buildings. The tasks for completion of the rerouting of the roof drains consisted of:

- Rerouting the roof drains along the ceiling trusses to the outside walls of the facility building where they were connected to the outside underground sewer lines outside of the building.
- Installation of new underground storm sewer lines outside the buildings on the north, east and south sections of the facility.
- Abandonment of the historic sewer lines south of the facility by backfilling with concrete.

Prior to initiating field activities to install the new underground storm sewer line, a soil sampling work plan, dated October 1993, was prepared and submitted to the NYSDEC for approval. The purpose of the work plan was to provide direction to field personnel for soils management during construction activities. The work plan included field screening protocol for soils removed during excavation activities, soil sampling protocol for excavated soils and analytical methods for laboratory analysis.

During the installation of the outside storm sewer lines, impacted soils were field screened and placed into staging cells. Soils were sampled and analyzed for constituents of concern; the analytical results are currently being validated by a third party validator. A discussion of field activities and validated analytical results will be presented in the final SSVI report.

2.3.4 Abandonment of Former Outside Process Lines and Outfalls

Four sections of the outside process sewer lines, HO2, HO3, HO4 and HO-5 from the interceptor line, south to the discharge point were abandoned during the field activities in January, 1994. The lines were abandoned by backfilling the length of the line with concrete, from the interceptor line south to the discharge point. A detailed description of field activities performed will be presented in the final SSVI report.

2.3.5 Treatment of Concrete Reservoir Tanks

Two concrete water storage tanks are present under the floor slabs at the Seneca Falls facility; a fire water tank, and a non-contact cooling water tank. The fire water tank contains municipal water and is located east of Building 8. The cooling water tank, which in the past received water from Van Cleef Lake, is located in the south east corner of Building 9. The floors and walls of both tanks were sealed by OBG Technical Services from Syracuse, New York to prevent the potential for exfiltration of waters from the tanks.

The walls and floor of each tank were sand blasted to remove any sediment or debris and to insure that the sealant would adhere to the surfaces. Sandblasting material along with sediment was placed in a 55 gallon DOT approved steel drum for future disposal. Both tanks were air dried thoroughly prior to applying the sealant to the walls and floors of the tank.

Once dry, one coat (6 mill D.F.T) of Tnemec "Series 20" Pota Pox was applied to the tank walls and floor. After the initial coat of sealant had been applied and allowed to dry for 10 days, a second coat of sealant was applied. The first coat of sealant was completely absorbed into the cement tank walls and floor necessitating application of the second sealant coat.

After the sealant had cured, the tanks were filled with potable water obtained from the Village of Seneca Falls, and a 24 hour exfiltration test was completed on each tank. Each tank was allowed to remain full for at least 24 hours prior to initiating the test in order to allow for equalization of water temperatures and water levels. A reference point for water level measurements was designated at a point on the manway into each tank so that measurements would be taken from the same point each time. No water level change was observed in either tank over the 24 hour testing period. Testing results are presented in Appendix B.

2.3.6 Groundwater Monitoring Program

As part of the inaccessible SWMU designation, a groundwater monitoring program was proposed. This section presents the activities completed in initiating the groundwater monitoring program.

2.3.6.1 Soil Boring and Monitoring Well Installation

The ten groundwater monitoring wells, MW-20 through MW-29 were installed as part of the SSVI at locations shown on Figure 2-1. Nine of the wells will monitor the upper most water-bearing zone in the glacial till, the tenth will monitor a deeper water bearing zone within the glacial till. The top of each of the shallow well screens was typically installed between five and ten feet below the ground surface. Monitoring well MW-24 will monitor groundwater between 15 and 25 feet below the ground surface.

The soil borings were advanced using hollow stem augers. Split spoon samples were collected continuously according to ASTM D 1586 and logged by Chester's on-site hydrogeologist.

Monitoring wells were constructed with a ten-foot length of 4-inch diameter, 0.010-inch slot, PVC well screen and 4-inch diameter, flush joint, schedule 40, PVC riser pipe. The annular space between the well screen and bore hole wall was backfilled with a clean silica sand to a point two feet above the top of the screen. A two foot layer of bentonite pellets was placed on top of the sand pack and hydrated. Concrete was then placed on top of the bentonite seal. The wells were finished with a flush-mount protective cover or an above-ground protective steel casing. A reference point was marked on the top of the PVC riser and surveyed to provide a reference elevation for water level measurements. Soil boring logs and monitoring well construction diagrams are presented in Appendix A of this report. A summary of the monitoring well construction details is provided in Table 2-1.

Cuttings and water from the temporary decontamination pad were placed in labeled DOT-approved drums and stored on site for later disposal by a certified contractor.

All monitoring wells were developed by agitating and removing the water with hand-held bailers. The wells were purged until three or more well volumes were removed or the wells were dry. Table 2-2 is lists volumes of groundwater removed and field analyses.

2.3.6.2 Slug Testing

Nineteen slug tests were performed to calculate the hydraulic conductivity of the shallow water bearing zone. Tests were performed by lowering or raising a stainless steel slug into or out of the water column and recording the response to the changes in water level. Water level measurements over time were recorded with a pressure transducer and a data recorder.

2.3.6.3 Groundwater Sampling

Two rounds of groundwater samples were collected to provide a preliminary assessment of groundwater quality. Groundwater samples were collected from the newly installed wells (MW-20 through 29) and MW-1 and MW-8 on June 14. Monitoring well MW-8 was deleted from the list during the second sampling round on July 20, 1993 because it monitors the deep bedrock water bearing zones beneath the glacial till. Analytical results from MW-8 would not provide the appropriate data to select constituents of concern for shallow groundwater monitoring.

Some deep monitoring should generally be included

Before sampling each well, the depth to the water level was measured from the reference point marked at the top of the PVC casing. The volume of water in the well was calculated and a minimum of three well volumes of water were removed from each well or, water was removed until the well was dry. All purge water was placed in DOT approved drums and stored on site. During sample collection the pH, specific conductance and temperature were measured.

Groundwater samples collected during the first sampling round were analyzed for Volatile Organic Compounds, (VOCs) by Method 8240, total cadmium, chromium and zinc by Method 6010, total lead by Method 7421, and total fluoride by Method

340.2. Groundwater analyses for the second round included the VOCs and metals listed above. Moreover, monitoring wells MW-1 and MW-24 were analyzed for semivolatile organic compounds by Method 8270.

The first round Quality Assurance/Quality Control (QA/QC) samples consisted of one duplicate, two trip blanks and three rinsate blanks. The second round QA/QC samples consisted of one trip blank and one rinsate blank.

2.3.7 Groundwater Monitoring Plan

The results of the two rounds of groundwater sampling and analyses were evaluated and a groundwater monitoring plan was developed and submitted to the NYSDEC for approval. The monitoring plan proposes the collection of groundwater samples from the 10 new monitoring wells on a quarterly basis. Constituents of interest were based on the results of groundwater analyses, accordingly, the plan proposes that the samples be analyzed for total cadmium, chromium, lead, zinc and fluoride and volatile organic compounds (EPA Method 8240).

2.4 UST Assessments

Subsurface conditions at nine former UST locations were investigated during the SSVI. Soil borings were advanced using hollow stem augers. Soil samples were collected according to ASTM D 1586 at intervals selected by Chester's on-site hydrogeologist. One soil sample was collected at a depth near the bottom of the tank pit but above the natural soils; a second soil sample was collected from the natural soils immediately below the tank pit. All soil borings were backfilled with bentonite-cement grout on completion. Soil boring logs are presented in Appendix A of this report.

2.4.1 USTs U01 and U02

Six soil borings were completed around two former methanol storage tank locations (U01 and U-02). Each soil boring was advanced to a depth of 13 feet. Soil samples

from each soil boring were collected at depths of 11 to 12 feet and 12 to 13 feet and analyzed for methanol.

2.4.2 USTs U05, U06 and U07

Seven soil borings were completed around three former motor fuel tank locations. Former tank U05 contained gasoline. Former tanks U06 and U07 contained diesel fuel. Each soil boring was advanced to a depth of 14 feet. Soil samples were collected at depths of 12 to 13 feet and 13 to 14 feet and analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) and semivolatile compounds (Method 8270). A duplicate soil sample was collected at soil boring U07-SB2.

2.4.3 UST U08

Four soil borings were completed around UST U08. Tank U08 contained number 2 fuel oil and was closed in place by backfilling with inert material. Each soil boring was advanced to a depth of 14 feet. The initial soil boring, U08-SB1, was continuously sampled. The other three soil borings were sampled from 11 to 13 feet. Soil samples were collected from 11 to 12 feet and 12 to 13 feet from each boring and analyzed for BTEX and semivolatile organic compounds.

2.4.4 UST U09

Four soil borings were completed around tank U09. Tank U09 contained number 2 fuel oil tank and was closed in place. Each soil boring was advanced to depths between 16 and 17 feet. Soil samples were collected from a depth of 14 to 17 feet and analyzed for BTEX or volatile organic compounds and semivolatile organic compounds.

2.4.5 UST U11

Five soil borings were completed around former gasoline tank location U11. The initial boring was advanced to a depth of 13 feet in the center of the tank pit to determine the depth of a concrete hold-down pad. No soil samples were collected

occurring. The scattered occurrence of cadmium at concentrations ranging from below the detection limit to slightly above the detection limit of 1 mg/Kg, does not exclude it from being an element naturally occurring in soils at the Seneca Falls facility.

3.2 Outside Process Sewer Lines and Outfalls

3.2.1 Soil Conditions

The soil borings completed along the outside process sewer lines and adjacent to outfalls encountered fill material and undisturbed soil conditions. The fill material is assumed to be the backfill placed in the sewer line excavation, whereas undisturbed soil is assumed to be the sediments encountered immediately below the base of the sewer. The fill was described as a soft to medium, stiff, brown silty clay and gravel, moist to wet, with minor amounts of cinders and wood. Undisturbed soils were described as stiff to dense, brown silty clay with little to some gravel, moist to wet. Soil boring logs are presented in Appendix A, soil sample locations are shown on Figure 1-1.

3.2.2 Analytical Results

Soil samples were analyzed for aromatic volatiles, (EPA method 8010) or BTEX, halogenated volatiles (EPA method 8020) and total cadmium, chromium, lead, zinc, fluoride, and pH.

Aromatic volatiles were not detected in soils collected from along the outside process sewer lines.

A summary of analytical results is presented in Table 3-2, Inorganics and Table 3-3, Volatile Organics. All analytical results are presented in Appendix C.

3.2.2.1 Storm Sewer Line HO1

A total of 4 soil samples were collected from two soil borings (HO1-SB1 and HO1-SB2) along storm sewer line HO1. The results are as follows:

Metals and pH

Cadmium was detected at a concentration of 4.6 mg/Kg at the 0 to 1 foot depth in -SB2. This concentration is above the NYSDEC action level of 1 mg/Kg. Cadmium was not detected in the other three soil samples.

Chromium was detected in both borings at concentrations ranging from 9.3 to 19.3 mg/Kg. Concentrations of chromium in three of the samples were above the NYSDEC action level of 10 mg/Kg. However, detected concentrations were similar to the background average of 16 mg/Kg and below two standard deviations above the average (26.3 mg/Kg).

Lead was detected in the 0 to 1 foot sample from -SB2 at a concentration of 247.5 mg/Kg which is above NYSDEC action level of 30 mg/Kg. Lead was detected in the other three soil samples at concentrations ranging from 9.9 to 27.2 mg/Kg which are below the NYSDEC action level.

Zinc was detected in all four soil samples at concentrations above the NYSDEC action level of 20 mg/Kg. Concentrations ranged from 28.8 and 33.7 mg/Kg in -SB1 to 60.8 and 117.5 mg/Kg in -SB2. The background average for zinc is 41 mg/Kg, whereas two standard deviations above the average is 61.7 mg/Kg.

Fluoride was detected in all four samples at concentrations ranging from 1.2 to 1.8 mg/Kg. These concentrations are below the NYSDEC action level of 30 mg/Kg. The pH of the soil samples ranged from 7.4 to 7.9 Standard Units (SU).

Halogenated Volatile Compounds

Methylene chloride was detected in all four samples at concentrations ranging from 15 to 49 ug/L, which is below the NYSDEC action level of 100 ug/Kg.

The compound cis-1,2-dichloroethene was detected in the 9 to 10 foot sample from -SB1 at a concentration of 7.3 ug/Kg. This concentration is below the NYSDEC action level of 100 ug/Kg.

Trichloroethene was detected at a concentration of 7.2 ug/Kg in the 10 to 11 foot sample from -SB1. This concentration is below the NYSDEC action level of 700 ug/Kg.

3.2.2.2 Process Sewer Line HO2

Eight soil samples and one duplicate soil sample were collected from three soil borings (HO2-SB1, -SB2, and -SB3). A duplicate sample was collected from -SB2 at a depth of 5 to 6 feet.

Metals and pH

Cadmium was detected in only two soil samples; both from -SB4. Both concentrations were above the NYSDEC Action Level of 1 mg/Kg. The concentration from the 0 to 1 foot level was 20.1 mg/Kg, whereas the concentration in the sample from the 1 to 2 foot level was 405.3 mg/Kg.

Chromium was detected in all eight soil samples at concentrations ranging from 13.4 mg/Kg to 47.9 mg/Kg. All concentrations were above the NYSDEC action level of 10 mg/Kg. However, only two samples exceeded the average background plus two standard deviations (26.3 mg/Kg); -SB3 (47.4 mg/Kg) from the 5 to 6 foot sample depth and -SB4 (47.9 mg/Kg) from the 1 to 2 foot sample depth.

Lead was detected in all eight soil samples at concentrations ranging from 15.0 mg/Kg to 142.7 mg/Kg. However, only three of the samples contained lead

concentrations above the NYSDEC action level of 30 mg/Kg: -SB2 at 47.4 mg/Kg, -SB4 at 40.3 mg/Kg (0 to 1 foot depth), and at 147.7 mg/Kg (1 to 2 feet depth).

Zinc was detected in all eight samples at concentrations ranging from 37.6 to 1,113.1 mg/Kg, exceeding the NYSDEC action level of 20 mg/kg. Only three samples exceeded the background average for zinc plus two standard deviations (61.7 mg/Kg); -SB3 at 85.6 mg/Kg (5 to 6 foot sample) and both samples from -SB4 at 147.9 mg/Kg and 1,113.1 mg/Kg.

The pH of the soil samples ranged from 5.6 to 7.7 SU.

Halogenated Volatiles

Vinyl chloride was detected in the two soil samples collected from boring -SB1 at concentrations of 41 and 288 ug/Kg at the 3.5 to 4.5 foot interval and 4.5 to 5.5 foot interval, respectively. The concentration of 288 ug/Kg is above the NYSDEC action level of 200 ug/Kg.

Methylene chloride was detected in two of the soil samples collected from boring -SB4 at concentrations of 37 and 43 ug/Kg, which is below the NYSDEC action level of 100 ug/Kg.

The compound cis-1,2-dichloroethene was detected in all four soil borings at concentrations ranging from 12 to 694 ug/Kg. Soil borings -SB1 (3.5 to 5.5 feet), -SB2, (5 to 7 feet) and -SB4 (1-2 feet) contained concentrations of cis-1,2-dichloroethene above the NYSDEC action level of 100 ug/L.

Trichloroethene was detected in all soil borings along process sewer line HO2 with concentrations ranging from 6.4 to 74 ug/L. All concentrations are below the NYSDEC action level of 700 ug/Kg.

The compound 1,4-dichlorobenzene was detected only in the two soil samples collected from boring -SB2, concentrations of 18 and 22 ug/Kg. These concentrations are below the NYSDEC action level of 8,500 ug/Kg.

3.2.2.3 Process Sewer Line HO3

Fourteen soil samples were collected at seven soil boring locations, HO3-SB1 through HO3-SB7, along process sewer line HO3. A duplicate soil sample was collected from -SB4 at a depth of 7 to 8 feet.

Metals and pH

Cadmium was detected above the NYSDEC action level of 1 mg/Kg in three of the 14 soil samples. Cadmium exceeded action levels in two soil samples collected from 0 to 2 feet in -SB1 at 5.4 and 64.3 mg/Kg, respectively. The third exceedance was from a depth of 5 to 6 feet in boring -SB7 at a concentration of 2.1 mg/Kg.

Chromium was detected in all soil samples at concentrations ranging from 10.7 to 29.8 mg/Kg. All concentrations are above the NYSDEC action level of 10 mg/Kg. One sample, -SB6 from the 3 to 4 foot sample depth (29.8 mg/Kg) exceeded the background average plus two standard deviations (26.3 mg/Kg).

Lead was detected in all fourteen samples at concentrations ranging from 9.5 to 56.5 mg/Kg. Three soil samples, -SB1 from 0 to 1 foot and 1 to 2 feet and -SB6 at 3 to 4 feet, were above the NYSDEC action level of 30 mg/Kg.

Zinc was detected in all fourteen samples at concentrations ranging from 31.4 mg/Kg to 278.2 mg/Kg. All zinc concentrations are above the NYSDEC action level of 20 mg/Kg. However, only three samples exceeded the background average plus two standard deviations (61.7 mg/Kg). The three samples are; the shallow soils from -SB1 near the HO3 outfall (131.3 mg/Kg and 278.2 mg/Kg) and -SB6 at 84.2 mg/Kg (3 to 4 foot sample).

Fluoride was detected in all fourteen samples. Concentrations ranged from 0.6 to 19 mg/Kg which are well below the NYSDEC action level of 30 mg/Kg.

The pH of the soil samples ranged from 7.4 to 8.2 SU.

Halogenated Volatiles

Five halogenated volatile organics were detected in the soil samples collected from process sewer line HO3. Methylene Chloride was detected in borings -SB1, and -SB3 below the NYSDEC action levels. Concentrations ranged from 12 to 59 ug/Kg.

The compound 1,1-dichloroethane was detected one boring, -SB4, at a concentration of 5.9 ug/Kg, which is below the NYSDEC action level of 200 ug/Kg.

The compound cis-1,2-dichloroethene was detected in soil borings -SB2, -SB4 and -SB5, but below the NYSDEC action level of 100 ug/L. Concentrations ranged from 10 to 80 ug/Kg.

The compound 1,1,1-trichloroethane was detected in five soil samples collected from borings -SB3 and -SB4 at concentrations ranging from 6 to 44 ug/Kg. These concentrations are below the NYSDEC action level of 800 ug/Kg.

Trichloroethene was detected in borings -SB1 through -SB5 at concentrations ranging from 9.3 to 193 ug/Kg. All concentrations were below the NYSDEC action level of 700 ug/Kg.

3.2.2.4 Process Sewer Line HO4

Four soil samples were collected along process sewer line HO4 from borings HO4-SB1 and HO4-SB2.

Metals and pH

Cadmium was only detected in the two samples collected from -SB2, at concentrations of 21 mg/Kg (0 to 1 foot) and 11.2 mg/Kg (1 to 2 feet). Both concentrations are above the NYSDEC action of 1 mg/Kg.

Chromium was detected in both borings at concentrations ranging from 13.5 to 17 mg/Kg. All the concentrations are above the NYSDEC action level of 10 mg/Kg, but below the background average plus two standard deviations of 21.6 mg/Kg.

Lead was detected in both borings at concentrations below the NYSDEC action level of 30 mg/Kg. Concentrations ranged from 14.1 to 20 mg/Kg.

Zinc was detected in both borings at concentrations ranging from 36.2 to 73 mg/Kg. These concentrations are above the NYSDEC action level of 20 mg/Kg. Only sample -SB2 at 73 mg/Kg, collected from surface soils (0 to 1 foot depth), exceeded the background average plus two standard deviations for zinc of 61.7 mg/Kg.

Fluoride was present in both borings at concentrations below the NYSDEC action level of 30 mg/Kg. Concentrations ranged from 0.9 to 24.4 mg/Kg.

The pH was measured in the two soil samples from -SB1 and were 7.4 and 7.6

Halogenated Volatiles

Five halogenated volatiles were detected in soils collected along process sewer line HO4. Methylene Chloride was detected in the two soil samples collected from boring -SB2 at concentrations below NYSDEC action levels. Concentrations ranged from 26 to 34 ug/Kg.

The compound cis-1,2-dichloroethene was detected in both soil borings, -SB1 and -SB2, at concentrations ranging from 78 to 161 ug/Kg. Only the soil concentrations in the two samples collected from boring -SB1 exceeded the NYSDEC action level of 100 ug/Kg. The concentrations are 123 mg/Kg at 9 to 10 feet and 161 mg/Kg at 10 to 11 feet.

The compound 1,1,1-trichloroethane was only detected in the in two soil samples collected from -SB1, at concentrations below the NYSDEC action level of 800 ug/Kg. The concentrations are 8.6 and 9 ug/Kg.

Trichloroethene was detected in soil samples from both borings, but at concentrations well below the NYSDEC action level of 800 ug/Kg. Concentrations ranged from 19 to 445 ug/Kg

Tetrachloroethene was detected in -SB1 only at concentrations well below the NYSDEC action level of 1400 ug/Kg. The concentrations of the two soil samples are 20 and 39 ug/Kg,

3.2.2.5 Process Sewer Line HO5

Twelve soil samples were collected from six soil borings along process sewer line HO5. The soil borings are HO5-SB1 through HO5-SB6. One duplicate soil sample was collected from soil boring HO5-SB6.

Metals and pH

Cadmium was not detected in any borings.

Chromium was detected in all borings at concentrations ranging from 11.8 to 21.3 mg/Kg. These concentrations are above the NYSDEC action level of 10 mg/Kg, but below the background average plus two standard deviations (26.3 mg/Kg).

Lead was detected in all borings at concentrations below the NYSDEC action level of 30 mg/Kg. Concentrations ranged from 10.1 to 18.7 mg/Kg.

Zinc was detected in all borings at concentrations ranging from 31.6 to 57.5 mg/Kg. These concentrations are above the NYSDEC action level of 20 mg/Kg, but below the background average plus two standard deviations (61.7 mg/Kg).

Fluoride was detected in all borings at concentrations below the NYSDEC action level of 30 mg/Kg. Concentrations ranged from 0.7 to 3.2 mg/Kg.

The pH of the soils ranged between 7.43 and 7.8 SU.

Halogenated Volatiles

Five halogenated volatiles were detected in soil samples collected along process sewer line HO5. Methylene chloride was detected in three borings, -SB4 at 5 to 6 feet, -SB5 at 0 to 1 foot and 1 to 2 feet, and -SB6 at 6 to 7 feet, all below the NYSDEC action level of 100 mg/Kg. Concentrations ranged from 11 to 66 mg/Kg.

The compound cis-1,2-dichloroethene was only detected in the two soil samples collected from -SB1 at concentrations of 198 (at 8 to 9 feet) and 314 ug/Kg (at 9 to 10 feet). Both concentrations are above the NYSDEC action level of 100 ug/Kg.

The compound 1,1,1-trichloroethane was only detected in the two samples collected from -SB2 at concentrations well below the NYSDEC action level of 800 ug/Kg. Concentrations are 9.6 and 11 ug/Kg

Trichloroethene was detected in borings -SB1 and -SB2 at concentrations below the NYSDEC action level of 700 ug/Kg. Concentrations ranged from 7.5 to 661 ug/Kg.

Tetrachloroethene was detected in the two samples collected from -SB1 at concentrations below the NYSDEC action level of 1400 ug/Kg. Concentrations are 10 and 14 ug/Kg.

3.2.2.6 Process Sewer Line HO6

Four soil samples were collected from two soil borings, HO6-SB1 and HO6-SB2, along process sewer line HO6.

Metals and pH

Cadmium was not detected in any soil sample collected along process sewer line HO6.

Chromium was detected in both borings at concentrations ranging from 12.7 to 24.3 mg/Kg. These concentrations are above the NYSDEC action level of 10 mg/Kg, but below the background average plus two standard deviations (26.3 mg/Kg).

Lead was detected in both borings at concentrations below the NYSDEC action level of 30 mg/Kg. The concentrations ranged from 13.1 to 26.6 mg/Kg.

Zinc was detected in both borings at concentrations ranging from 33.4 to 57.4 mg/Kg, which are above the NYSDEC action level of 20 mg/Kg, but below the background average plus two standard deviations (61.7 mg/Kg).

Fluoride was detected in both borings at concentrations below the NYSDEC action level of 30 mg/Kg. Concentrations ranged from 1.4 to 3.3 mg/Kg.

Two pH readings were measured. The values were both 7.7 SU.

Halogenated Volatiles

Five halogenated volatiles were detected in the soil samples collected along process sewer line HO6. Vinyl chloride was detected on one sample from -SB1 at a concentration below the NYSDEC action level of 200 ug/Kg. The concentration of vinyl chloride was 38 ug/Kg.

Methylene chloride was detected in both borings at concentrations below the NYSDEC action level of 100 mg/Kg. The concentrations are 14 and 18 ug/Kg.

Trichlorofluoromethane was detected in one sample from -SB2 at a level of 17 ug/Kg. No NYSDEC action level has been developed for this compound. However, the concentration is considered to be of concern.

The compound cis-1,2-dichloroethene was detected in all soil samples at concentrations ranging from 23 to 200 ug/Kg. The two soil samples from -SB2 contained concentrations above the NYSDEC action level of 100 ug/Kg. These concentrations are 200 mg/Kg (0 to 1 foot) and 144 mg/Kg (1 to 2 feet).

Trichloroethene was detected in both borings at concentrations below the NYSDEC action level of 700 ug/Kg. Concentrations ranged from 6.6 to 64 ug/Kg.

3.2.2.7 Process Sewer Line HO7

Six soil samples were collected along process sewer line HO7 from three soil borings, HO7-SB1 through HO7-SB3.

Metals and pH

Cadmium was detected in two soil borings only, -SB1 (4 to 5 feet) and -SB3 (0 to 1 foot) at concentrations of 3.0 and 41.3 mg/Kg, respectively. These concentrations are above the NYSDEC action level for cadmium of 1 mg/Kg.

Chromium was detected in all soil samples at concentrations ranging from 12.5 to 17.2 mg/Kg. These concentrations are above the NYSDEC action level of 10 mg/Kg, but below the background average plus two standard deviations (26.3 mg/Kg).

Lead was detected in all soil samples at concentrations ranging from 9.8 to 31.7 mg/Kg. One sample, from -SB3 at 0 to 1 foot, contains lead concentrations above the NYSDEC action level of 30 mg/Kg.

Zinc was detected in all the soil samples at concentrations ranging from 34.2 to 317.0 mg/Kg. These concentrations are above the NYSDEC action level of 20 mg/Kg. Only soil sample -SB3 (0 to 1 foot sample depth) exceeded the background average plus two standard deviations (61.7 mg/Kg) at 317 mg/Kg.

Fluoride was detected in all soil samples at concentrations below the NYSDEC action level of 30 mg/Kg. Concentrations ranged from 0.6 to 0.8 mg/Kg.

The pH measurements ranged from 7.3 to 7.5 SU.

Halogenated Volatiles

Two halogenated volatiles were detected in the soil samples. Methylene chloride was detected in two borings, -SB2 and -SB3, at concentrations below the NYSDEC action levels. Concentrations ranged from 12 to 17 ug/Kg.

Trichloroethene was detected in two borings, -SB1 and -SB3, at concentrations below the NYSDEC action level of 700 ug/Kg. Concentrations ranged from 8.4 and 19 ug/Kg.

3.2.3 Quality Assurance/Quality Control

Six rinsate blanks and five trip blanks were prepared and analyzed during this task. Zinc was detected in RB-20 at a concentration of 25.9 ug/L. Methylene chloride was detected in RB-26 at a concentration of 13 ug/L and in TB-18 at a concentration of 13 ug/L.

3.3 Inaccessible SWMU - Groundwater Monitoring Program

3.3.1 Soil Characterization

The natural soils encountered during the investigation were principally stiff to hard glacial tills consisting of mixed clays, silts, sands and gravels. Thin lenses of fine sand were occasionally encountered. Six feet of fill, consisting mostly of sand and gravel, was encountered in MW-24. Six feet of clayey fill was encountered in MW-22. In the other borings the fill consisted mostly of one foot or less of asphalt or gravel.

Saturated soil was encountered at various depths. Wet zones were often encountered between moist or damp soil zones. Soil boring locations to accommodate monitoring wells are shown on Figure 2-1. Soil boring and monitoring well construction logs are presented in Appendix A.

3.3.2 Groundwater Flow Conditions

Water level elevations indicate that groundwater occurs two to seven feet below the ground surface. Groundwater contours shown in Figure 1-2 indicates water flows to the south and southeast with an average gradient of 0.017 feet per foot.

The hydraulic conductivity was calculated using the Bouwer and Rice method. The water level measurements were entered into a curve-fitting program along with well

dimensions. The results of the slug tests are summarized in Appendix D. Calculations indicate the average hydraulic conductivity ranges from a low conductivity of 1.6×10^{-5} feet/minute to a high of 3×10^{-4} feet/minute.

3.3.3 Analytical Results

3.3.3.1 Monitoring Well Soils

A summary of the analytical results for soils collected from monitoring well soil borings are presented in Tables 3-4, Inorganic and 3-5, Volatile Organic and Semivolatile. Analytical results are presented in Appendix C of this report.

Cadmium

Cadmium was detected in four of the 25 soil samples. Cadmium concentrations ranged from 1.3 to 18 mg/Kg. The NYSDEC action level is 1 mg/Kg.

Chromium

Chromium was detected in all 24 samples analyzed. Concentrations ranged from 8.9 to 25 mg/Kg. Twenty-three of the soil samples had concentrations of cadmium above the NYSDEC action level of 10 mg/Kg, however all concentrations were below the background average plus two standard deviations (26.3 mg/Kg).

Lead

Lead was detected in 23 of the 24 soil samples. Concentrations ranged from 9.2 to 275 mg/Kg. There were four values above the NYSDEC action level of 30 mg/Kg.

Zinc

Zinc was detected in all 24 soil samples at concentrations ranging from 31.8 to 150 mg/Kg. All samples were above the NYSDEC action level of 20 mg/Kg. Soils from

five monitoring well locations (MW-20,24,25,28 and 29) exceeded the background average plus two standard deviations for zinc (61.7 mg/Kg).

Fluoride

Fluoride was detected in all the soil samples at concentrations ranging from 0.59 to 7.6 mg/Kg. The NYSDEC soil action level is 30 mg/Kg.

Volatile Organic Compounds

Eight volatile organic compounds were detected in the soil samples collected from the soil borings for monitoring wells. One of the compounds, methylene chloride, was detected in field and laboratory method blanks. Five of the compounds, vinyl chloride, trans-1,2-dichloroethene, 1,1,1-trichloroethene, trichloroethene and toluene were detected at concentrations below the NYSDEC action levels.

Monitoring well MW-24 was the only well where volatile organic compounds were present above NYSDEC action levels. The soil sample collected from 10 to 12 feet contained 921 ug/Kg of cis-1,2-dichloroethene which is above the NYSDEC action level of 100 ug/Kg. In the same sample interval, 1,2-dichloroethane was detected at a concentration of 355 ug/Kg. This concentration is also above the NYSDEC action level of 100 ug/L.

Semivolatile Compounds

Four soil samples were collected from MW-24 and analyzed for semivolatiles by EPA Method 8270. Only one compound, bis(2-ethylhexyl)phthalate was detected in two soil samples. The presence of this compound is attributed to laboratory contamination. No other semivolatile compounds were detected.

Quality Assurance/Quality Control

Five rinsate blanks and four trip blanks were prepared and analyzed during soil sampling activities for monitoring well installation. Rinsate Blank (RB)-20 detected

cadmium at a concentration of 12.3 ug/L, chromium at a concentration of 20.4 ug/L and zinc at a level of 29.0 ug/L. Methylene Chloride was detected in Trip Blank (TB)-04 at a concentration of 44.6 ug/L, in RB-06 at a concentration of 46.8 ug/L and in RB-07 at a level of 42.3 ug/L.

3.3.3.2 Groundwater

The results of two rounds of groundwater sampling are summarized in Tables 3-7, First Round Inorganics, 3-8, Second Round Inorganics, 3-9, First Round Volatile Inorganics, and 3-10, Second Round Volatile Inorganics. Analytical results are presented in Appendix C.

Cadmium

Cadmium was not detected in any of the wells in both sampling rounds.

Chromium

Chromium was detected in two wells, MW-8 at 13 ug/L and MW-25 at 16 ug/L, in the first round. Chromium was not detected in any of the wells in the second round. The NYSDEC groundwater action level is 50 ug/L.

Lead

In the first round, lead was detected in MW-27 at a concentration of 6 ug/L. In the second round, lead was detected in six of the eleven wells sampled at concentrations ranging from 4.0 to 13.6 ug/L. Lead was also detected in the second round rinsate blank at a concentration of 3.6 ug/L. The NYSDEC groundwater action level for lead is 15 ug/L.

Zinc

In the first round, zinc was detected in MW-8 at a concentration of 34 ug/L. In the second round, zinc was detected in MW-1, MW-22, MW-25, MW-26, and MW-29 at

concentrations ranging between 23.6 and 25.7 ug/L. The NYSDEC groundwater action level for zinc is 300 ug/L. Zinc was not detected in any of the QA/QC blanks.

Fluoride

Fluoride was detected in all the wells during both sampling rounds. Concentrations ranged from 1120 ug/L to 150 ug/L. The NYSDEC action level for fluoride is 1500 ug/L.

QA/QC Samples

Metals were not detected in the trip blanks and rinsate blanks collected during the first sampling round. Lead was detected in the second sampling round rinsate blank at a level of 3.6 ug/L.

Volatile Organic Compounds

Individual monitoring wells are addressed in the following discussions regarding the concentrations of volatile organic compounds. The discussions will not include values in the groundwater samples that are mark "J". The "J" values are values below the EPA mandated method detection limit but above the detection limit of the instrument. "J" values are shown on the tables and in Appendix C of this report.

Monitoring Well MW-1

The compound 1,1,1 trichloroethane was detected at a concentration of 57 ug/L in the first round and 80 ug/L in the second round. The NYSDEC action level for this compound is 5 ug/L.

Monitoring Well MW-8

This monitoring well was only sampled for VOC's during the first round. The compound cis-1,2-dichloroethene was detected at a concentration of 23 ug/L. The NYSDEC action level for this compound is 5 ug/L.

Monitoring Well MW-20

Vinyl chloride was detected in the first sampling round at a concentration of 120 ug/L and in the second sampling round at a concentration of 43 ug/L. The NYSDEC action level for this compound is 2 ug/L.

The compound cis-1,2-dichloroethene was detected in the first sampling round at a concentration of 27 ug/L and in the second sampling round at a concentration of 23 ug/L. The NYSDEC action level for this compound is 5 ug/L.

Monitoring Well MW-21

No volatile organic compounds were detected in this well in the first and second sampling rounds.

Monitoring Well MW-22

The compound cis-1,2-dichloroethene was detected in the first sampling round at a concentration of 16 ug/L and 17 ug/L in the second sampling round.

Trichloroethene was detected at a concentration of 38 ug/L in the first sampling round and 43 ug/L in the second sampling round. The NYSDEC action level for both cis-1,2-dichloroethene and trichloroethene is 5 ug/L.

Monitoring Well MW-23

Trichloroethene was detected at a concentration of 16,000 ug/L in the first sampling round and 23,000 ug/L in the second sampling round.

The compound 1,2-dichloroethane was detected in the first sampling round at a concentration of 57 ug/L, above the NYSDEC action level of 5 ug/L.

The compound cis-1,2-dichloroethene was detected only in the in the first sampling round at a concentration of 31 ug/L. The NYSDEC action level for the three compounds detected is 5 ug/L.

A duplicate groundwater sample was collected from MW-23 during the second sampling round. The analytical results were comparable.

Monitoring Well MW-24

Eleven aromatic and halogenated volatile organics were detected in MW-24 in the first sampling round. All eleven compounds were detected above their respective NYSDEC action levels which ranged from 0.7 to 5 ug/L. The compounds occurring in excess of 1,000 ug/L include vinyl chloride at a concentration of 8,800 ug/L, cis-1,2-dichloroethene at a concentration of 38,000 ug/L, and trichloroethene at a concentration of 11,000 ug/L.

In the second sampling round four compounds were detected. Vinyl chloride was detected at a concentration of 5,000 ug/L. The NYSDEC action level is 2 ug/L.

The compound cis-1,2-dichloroethene was detected at a concentration of 38,000 ug/L. Trichloroethene was detected at a level of 13,000 ug/L. The NYSDEC action level for both compounds is 5 ug/L.

Monitoring Well MW-25

Seven halogenated volatile organic compounds were detected in the first sampling round. All concentrations were above their respective NYSDEC action levels, which ranged from 2 to 5 ug/L. Compounds occurring at concentrations over 100 ug/L included: vinyl chloride (590 ug/L), cis-1,2-dichloroethene (2,000 ug/L) and trichloroethene (120 ug/L).

In the second sampling round, four halogenated volatile organic compounds were detected. Vinyl chloride was detected at a concentration of 300 ug/L, cis-1,2-

dichloroethene at a concentration of 2,100 ug/L and trichloroethene at a concentration of 170 ug/L. All concentrations exceed NYSDEC action levels.

Monitoring Well MW-26

In the first sampling round, vinyl chloride was detected at a concentration of 19 ug/L. The compound cis-1,2-dichloroethene occurred at a level of 180 ug/L and trichloroethene was at a level of 310 ug/L.

In the second sampling round vinyl chloride was at a level of 12 ug/L, cis-1,2-dichloroethene at 180 ug/L, and trichloroethene was at a level of 450 ug/L.

All of the above compounds were above their respective NYSDEC action levels, which range from 2 to 5 ug/L.

Monitoring Well MW-27

Volatile organics were not detected in this well in the first and second sampling rounds.

Monitoring Well MW-28

Trichloroethene was detected in the first sampling round at a concentration of 11 ug/L; at a concentration of 11 ug/L in the second sampling round. These concentrations are slightly above the NYSDEC action level of 5 ug/L.

Monitoring Well MW-29

In the first sampling round, vinyl chloride was detected at a level of 51 ug/L, acetone at a level of 38 ug/L, cis-1,2-dichloroethene at a level of 84 ug/L, 4-methyl-2-pentanone at a level of 24 ug/L and toluene at a level of 250 ug/L.

In the second sampling round, vinyl chloride was detected at a level of 31 ug/L and cis-1,2-dichloroethene was at a level of 69 ug/L.

With the exception of 4-methyl-2-pentanone, all other compounds were above their respective action levels which range from 2 to 5 ug/L.

Semivolatile Compounds

Groundwater samples for semivolatile analyses were collected only during the second sampling round and only from MW-1 and MW-24. No semivolatile compounds were detected in the second round.

3.3.4 QA/QC Samples

In the first sampling round 2J ug/L of trichloroethene was detected in the trip blank. In the rinsate blank, 3J ug/L of cis-1,2-dichloroethene and 3J ug/L trichloroethene were detected. During the second round volatile organics were not detected in the rinsate or the trip blank.

3.4 Underground Storage Tanks

A total of 26 soil borings were completed for this phase of the investigation. Soil boring logs are presented in Appendix A of this report. Summaries of analytical results are presented in Tables 3-11, Methanol, Table 3-12, Volatile Organic Compounds and Table 3-13, Semivolatile Organic Compounds. Complete analytical results are presented in Appendix C of this report.

3.4.1 Methanol Storage Tanks U01 and U02

3.4.1.1 Soils

Soil borings U01-SB1, -SB2, -SB3 and U02-SB1 encountered a stiff brown silty clay with little fine to medium gravel to a depth of 13 feet. Soil borings U02-SB2 and -SB4 encountered a gray brown clayey fine sand, some silt and little fine to medium gravel.

3.4.1.2 Analytical Results

Soil samples were collected from depths of 11 to 12 feet and 12 to 13 feet. Methanol was detected in: UO1-SB1 at both depths at concentrations of 0.68 and 0.70 mg/Kg, respectively; in -UO1-SB2 at both depths at concentrations of 1.01 and 0.69 mg/Kg, respectively; in UO2-SB1 at both depths at concentrations of 0.69 and 0.66 mg/Kg, respectively and in UO-SB2 at a concentration of 0.78 mg/Kg (from the 11 to 12 feet sample only). Methanol was not detected in soil borings U01-SB3 and U02-SB3. A NYSDEC action level for methanol had not been developed.

*So are these
leakage
from
the
tanks?*

Methanol was detected in a solid laboratory method blank at a concentration of 0.63 mg/Kg. Laboratory Quality Control protocol considers any amount less than five times the blank concentration a non-detect.

3.4.2 Storage Tanks U05, U06 and U07

3.4.2.1 Soils

Soil borings encountered a stiff, brown silty clay with little gravel to a depth of 14 feet.

3.4.2.2 Analytical Results

Aromatic volatile compounds were detected in one sample, U05-SB2 at a depth of 12 to 13 feet. Benzene was detected at a concentration of 23 ug/Kg. The NYSDEC action level is 60 ug/Kg. Toluene was detected at a concentration of 61 ug/Kg. The NYSDEC action level is 1,500 ug/Kg. Ethylbenzene was detected at a concentration of 22 ug/Kg. The NYSDEC action level is 5,500 ug/Kg. Total Xylenes were detected at a concentration of 97 ug/Kg. The NYSDEC action level is 1,200 ug/Kg.

One semivolatile compound, bis(2-ethylhexyl)phthalate, was detected in two soil samples, one of which was a duplicate. This compound was also detected in the laboratory blank and may be the result of laboratory contamination

3.4.3 Storage Tank U08

3.4.3.1 Soils

Soil borings encountered a brown silty clay, loose to stiff, little gravel, moist.

3.4.3.2 Analytical Results

Aromatic volatiles and semivolatile organic compounds were not detected in the soil samples.

3.4.4 Storage Tank U09

3.4.4.1 Soils

Soil borings encountered a soft to stiff brown silty clay, some sand and gravel, wet.

3.4.4.2 Analytical Results

Aromatic volatiles were not detected in any of the soil samples. Semivolatile organics were detected in only one of the eight samples. Fourteen semivolatile organics were detected in the soil sample from soil boring -SB4 at a depth of 14 to 15 feet. Five of these values are "J" values and are at concentrations between the EPA method detection limit and the detection limit of the analytical instrument. These values will not be discussed in the evaluation. Seven compounds, anthracene, benzo(k)fluoranthene, benzo(g,h,i)perylene, bis(2-ethylhexyl) phthalate, fluoroanthene, phenanthrene, and pyrene were detected at concentrations below the NYSDEC action levels. Benzo(a)anthracene was detected at a concentration of 626 ug/Kg. The NYSDEC action level is the Method Detection Limit (MDL) of 330 ug/Kg. Benzo(a)Pyrene was detected at a concentration of 462 ug/Kg. This is above the NYSDEC action level of 330 ug/Kg. Chrysene was detected at a concentration of 516 ug/Kg. This is above the NYSDEC action level of 400 ug/Kg.

*Pavement
cracks*

3.4.5 Storage Tank U11

3.4.5.1 Soils

The first soil boring, U11-S0, was placed in the center of the former tank excavation. Gray clay and gravel was encountered to a depth of 8 feet. Below that was a gray-brown, brown silty clay, wet. The remaining borings, -SB1 through -SB4, were placed around the perimeter of the former excavation and encountered a stiff, brown silty clay, some fine to medium gravel, wet.

3.4.5.2 Analytical Results

No aromatic volatiles or semivolatiles were detected in the soil samples.

3.4.6 Quality Assurance/Quality Control

Six rinsate blanks and six trip blanks were prepared and analyzed for this task. The compound bis-2-(ethylhexyl)phthalate was detected at a concentration of 18 ug/L in RB-14.

3.5 Results of Sample Validation

This section summarizes the findings of the third party independent data validation reports for the analytical data collected for the Seneca Falls, New York RFA under the SSVWP. Since the QAPjP required only twenty-five percent of one-time sampling data be validated by a third party independent data validator, only a representative portion of the SSVWP generated data were arbitrarily selected for data validation. In addition, since a long-term groundwater monitoring program was planned, none of the groundwater data generated as part of the SSVWP was required to be validated. Data validation reports were generated by AWD Technologies, Inc. for five of the SSVWP data packages produced by the analytical laboratory, Huntington Analytical Services (data package numbers 93-0680, 93-0713, 93-0723, 93-0751, and 93-0763). Note that the data packages 93-0713 and 93-0723

contained environmental field samples pertaining to the SSVWP and to the Site Visit Work Plan (SVWP) (which is presented in another report).

Data package number 93-0680 consisted of five subsurface soils collected from the monitoring well borings (MW-SB), one equipment rinsate blank, and one trip blank. These samples were analyzed for volatile organics by EPA Methods 8010 and 8020, and for the total inorganic parameters cadmium, chromium, lead, zinc, and fluoride. Data package number 93-0713 consisted of thirteen surface and subsurface soils from the areas pertaining to this report designated as the Historic Outfalls (HO) and the Monitoring Well soil borings (MW-SB), two equipment blanks, and one trip blank. These samples were analyzed for the total inorganic parameters cadmium, chromium, lead, zinc, and fluoride, and for volatile organics by EPA Methods 8010 and 8020. Select MW-SB and rinsate blank samples were also analyzed for semivolatile organics by EPA Method 8270. Data package number 93-0723 consisted of four surface and subsurface soils from the areas pertaining to this report designated as the Underground Storage Tank (U) and the Monitoring Well soil borings (MW-SB), three equipment blanks, and one trip blank. The MW-SB soil samples and related blanks were analyzed for volatile organics by EPA Methods 8010 and 8020, and for the total inorganic parameters cadmium, chromium, lead, zinc, and fluoride. The U soil samples and related blanks were analyzed for aromatic volatile organics only by EPA Method 8020, and for semivolatile organics by EPA Method 8270. Data package number 93-0751 consisted of twelve Underground Storage Tank (U) subsurface soil samples, one equipment blank, and one trip blank. These U soil samples and related blanks were analyzed for aromatic volatile organics by EPA Method 8020, semivolatile organics by EPA Method 8270, and methanol by EPA Method 8015. Data package number 93-0763 consisted of twelve surface and subsurface soils from the areas designated as the Underground Storage Tank (U) and the Historic Outfall (HO), one equipment blank, and one trip blank. The HO samples were analyzed for the total inorganic parameters cadmium, chromium, lead, zinc, and fluoride, and for volatile organics by EPA Methods 8010 and 8020. The U samples were analyzed for methanol by EPA Method 8015.

The data generated was first reviewed for technical completeness according to requirements specified in the applicable analytical methods and/or the site-specific

- An initial calibration provided by the laboratory associated with some of the Method 8020 results in data package number 93-0723 was performed after the samples were analyzed. Since CCVs were analyzed at the beginning and end of the run and were within limits, the validator did not qualify associated sample results.
- ICP interference check sample (ICS) analyses were performed in all of the metals data packages. However, the laboratory did not provide the level of interferents present in the samples. As a result, the impact based on the ICS could not be evaluated.
- A fluoride preparation blank was not performed in data package numbers 93-0680 and 93-0763. Other representative blank analyses associated with the affected fluoride analyses were performed.
- An initial calibration blank was not run after the initial calibration verification of the fluoride analysis in data package number 93-0713. In addition, the number of samples between the initial calibration verification and the subsequent CCV for the fluoride analyses in this package slightly exceeded the QAPjP recommended frequency.
- The methanol quantitations in data packages 93-0751 and 93-0763 were performed by comparisons of peak height to that of the lowest standard. This was done due to a lack of linearity of the calibration curve at low concentrations.
- A methanol method blank was not run on the same day as one of the sample analyses in data package number 93-0751.
- The laboratory did not provide data indicating performance of initial calibrations for pH.

The validator also noted that matrix based QC analyses (matrix spikes and duplicates) were not performed on various analysis types throughout the five

packages reviewed. However, this was due to the fact that the laboratory performed these QC analyses at the frequencies required but based on how the samples were received from the field, some SDGs did not include field samples selected for spiking and/or duplication. This issue does not adversely impact the results reported as the validator was able to review the associated QC analyses from alternate packages, when available.

The validator did not believe that any of these issues related to technical completeness of the SSVWP analytical data were singularly or cumulatively significant enough to reject any sample data. Many of these problems resulted in the validator qualifying the associated sample results and/or detection limits as estimated; estimated values may be used data evaluation. In many cases listed above, the validator recalculated or determined results of the environmental sample results and/or the associated QC analyses from raw sample data or via an alternative QC evaluation measure. The validator concluded that the data in the five validation reports should be accepted for intended uses as qualified based on technical completeness.

Following review for technical completeness, the validator evaluated QC analyses associated with chemical analyses of the environmental samples in the five referenced data packages. This evaluation provides an examination of the precision and/or accuracy of the analytical data based on the results of the associated QC analyses according to requirements specified in the QAPjP, the analytical method, and/or the National Functional Guidelines for Evaluating Organic (Viar & Co., Eds. 6/91) and Inorganic (Viar & Co., Eds. 7/88) Analyses. Following evaluation of the QC analyses concerning the precision and/or accuracy of the selected SSVWP analytical data, the following major problem was noted. Major problems were classified in these reviews as QC limit violations that resulted in data rejection.

- The aromatic volatile target compound styrene was not found in the Method 8020 continuing calibration analysis on instrument "F" pertaining to data package number 93-0723. In addition, there was no evidence of styrene being run in the Method 8020 initial or continuing calibration analyses on instrument "19" in the same data package. As a

result, the results reported by the laboratory in 93-0723 are invalid and the results are rejected by the validator. All of the affected results were reported by the laboratory as nondetected.

The following minor and typical QC issues were noted by the validator which did not result in data rejection, but may have resulted in corrections in results reported and/or resulted in data qualifications indicating estimated data.

- Blank contamination of methylene chloride was identified in laboratory and field blanks in data package numbers 93-0680, 93-0713, 93-0723, and 93-0763. In addition, 1,1,1-trichloroethane and trichloroethene were detected in field blanks in data package number 93-0713 and methanol was detected in method blanks in data package numbers 93-0751 and 93-0763. The validator qualified impacted associated results as nondetected. The validator had to identify some of these blank contaminants from the raw data due to the high detection limits reported for aqueous samples for the VOC analyses (see note above).
- Rinsate blank contamination was identified for chromium in data package number 93-0680 and for zinc in data package number 93-0713. The validator qualified impacted associated results as nondetected.
- The soil laboratory duplicate RPD for zinc exceeded the 35 percent QC limit in data package number 93-0713. Associated positive and nondetected zinc results were qualified as estimated in this sample set.
- An aqueous laboratory duplicate analysis of zinc in data package number 93-0713 exceeded the +/- MDL difference QC limit. The only impacted result (a rinsate blank) was qualified as estimated.
- Minor qualifications for continuing calibration and/or reference check standard limit exceedances were noted for several volatile and/or

semivolatile target compounds in all five data packages reviewed. The validator qualified associated results as estimated.

- Method 8010 surrogate recoveries were high in two soil samples and were low in a trip blank in data package number 93-0713. Since none of these QC limit violations were excessive, the validator qualified affected sample results only as estimated.
- Low level positively detected cis-1,2-dichloroethene results in a soil field duplicate pair in data package number 93-0713 exceeded the proposed QC limit of ± 2 times the MDL difference. On the basis of this variability, the validator qualified the cis-1,2-dichloroethene results in the field duplicate pair as estimated.
- An aqueous cadmium LCS recovery exceeded the 120 percent upper QC limit in data package number 93-0680. The only aqueous cadmium result affected (a rinsate blank) was qualified as estimated.
- Triplicate injection %RSDs for the analysis of lead in several soil samples were greater than 20 percent in data package numbers 93-0680, 93-0713, and 93-0763. In addition, %RSDs for cadmium and chromium in rinsate blank RB-05 in data package number 93-0680 and the %RSD for cadmium in one soil sample in data package number 93-0713 were also out of control. As a result, the affected sample results for these parameters were qualified as estimated.
- The validator had qualified VOC results for several samples in data package number 93-0713 and 93-0723 as estimated due to a one day holding time violation.
- The methanol analyses in data package number 93-0751 were analyzed one to six days outside the QAPjP specified seven day holding time. The validator qualified the affected results as estimated.

- The pH analyses for aqueous samples were analyzed three days after collection and pH analyses for soil samples were analyzed between five and eight days after collection in data package numbers 93-0713 and 93-0763. Since the QAPjP specified that pH analyses should be performed immediately after sample collection, the validator judged these holding times as excessive and qualified these results as estimated.

All of these qualification actions were typical in nature for the types of analyses validated. None of the QC limit exceedances, other than for styrene as described above, were severe enough to require rejection of environmental sample results. The validator took the appropriate qualification actions according to requirements of the U.S. EPA Functional Guidelines for Evaluating Organic and Inorganic Analyses.

None of the problems identified by the validator appear to be significant enough to limit the use of the data for site characterization purposes except for the rejected styrene analyses described above. Although a number of minor analytical and QC problems were noted, the data appear to be reproducible and comparable. This conclusion is based on consistency noted in sample parameters and concentrations reported in site areas of concern and by evaluation of the majority of the QC measures that indicate that the precision and accuracy of the data are acceptable.

4.0 SUMMARY AND CONCLUSIONS

The conclusions presented in this section are based upon the data from the portion of the supplemental Sampling Visit Investigation completed from May through July 1993. Additional data will become available from analyses of soils excavated during installation of the new underground storm sewers around the perimeter of the plant buildings completed from September 1993 through February 1994. During sewer installation, Chester field screened excavated soils in accordance with a soils management plan approved by the NYSDEC; field screening consisted of head space analysis using a flame ionization detector. Soil samples of excavated materials were also collected and submitted to the analytical laboratory for analysis of selected constituents. The analytical results are currently being validated. Upon receipt of validated results, the data will be evaluated in conjunction with the conclusions presented herein and included in a final report.

For the data presented in this interim report Chester considered action levels for both inorganic and organic constituents when evaluating the need for additional investigation of a specific area. The need for further investigation of inorganics was based on NYSDEC actions levels for cadmium, lead and fluoride and average background concentrations plus 2 standard deviations for chromium and zinc. The discussion on background soil concentrations presented below provides Chester's reasoning for selecting these action levels. A summary of those areas requiring additional investigation is presented on Table 4-1 for soils and Table 4-2 for groundwater.

4.1 Background Soil Concentrations

Concentrations of inorganic elements in background soils occurred bimodally, that is shallow soils exhibited almost double the concentrations of chromium, fluoride, lead and zinc than those found in deeper soils. This situation may be due in part to the use of fertilizers when the area was used as farmland and in part to the industrialization of the northeast. This pattern has been noted in other areas where potential inorganic contamination was investigated. Chester feels this bimodal

distribution of elements occurs as the result of conditions unrelated to the operations of the facility.

4.1.1 Cadmium

Total cadmium was detected slightly above the detection limit of 1 mg/Kg in two of the eight background soil samples. Cadmium, with a detection limit of 5 ug/L, was not detected in the leachate generated from background samples. Based upon these two results, Chester concludes that the NYSDEC action level of 1 mg/Kg in soils and 0.005 mg/L in groundwater should be used when evaluating this element.

4.1.2 Chromium

The average total chromium concentration in 14 background soil samples was 16.0 mg/Kg. The standard deviation, using 14 background samples was 5.2 mg/Kg. Two standard deviations above the average were used to approximate a 95% confidence interval. The resultant concentration is 26.3 mg/Kg. This average concentration is above the NYSDEC action limit of 10 mg/Kg. Analytical results from groundwater sampling indicate that groundwater, located beneath soils containing concentrations of chromium similar to 26.3 mg/Kg, do not contain concentrations of chromium above drinking water standards. Chester concludes that the higher background concentration of 26.3 mg/Kg of chromium in soils does not degrade groundwater quality and should replace the NYSDEC level of 10 mg/Kg in the evaluation of data collected at the Seneca Falls facility.

4.1.3 Lead

The average total lead concentration in 14 background soil samples was 15.9 mg/Kg. This average is below the NYSDEC action level of 30 mg/Kg. Groundwater analytical results indicate that the groundwater below soils containing concentrations of lead similar to NYSDEC action levels does not exceed the drinking water standards. Chester recommends that the NYSDEC action level of 30 mg/Kg be used when evaluating the presence of lead in the soils.

4.1.4 Zinc

Average total zinc concentration in 14 background samples was 41.0 mg/Kg with a standard deviation of 10.4 mg/Kg. Two standard deviations above the average were used to approximate a 95% confidence interval, the resultant concentration is 61.7 mg/Kg. The average background concentration is above the NYSDEC action level of 20 mg/Kg. Analytical results indicate that the groundwater below soils containing concentrations of zinc similar to the average plus two standard deviations (61.7 mg/Kg) does not exceed the drinking water standards for zinc. Chester concludes that the average background concentration plus two standard deviations (61.7 mg/Kg) does not degrade the groundwater, is below the health based ingestion level of 20,000 mg/Kg and should be used in place of the NYSDEC action level of 20 mg/Kg to evaluate the presence of zinc in the soil.

4.1.5 Fluoride

Average total fluoride background concentrations averaged 1.6 mg/Kg which is below the NYSDEC action level of 30 mg/Kg. Chester recommends that the NYSDEC action level be used when evaluating the presence of fluoride in soils.

4.2 Outside Sewer System

Analytical results for the outside sewer lines for inorganics and volatile organics are presented on Tables 3-2 and 3-3, respectively. The following presents a summary and conclusion of each of the seven sewer lines.

4.2.1 Storm Sewer Line HO1

Analytical results for inorganics indicate the need for additional investigation of the near surface soils in the area of HO1-SB2 for cadmium, lead and zinc. Sample HO1-SB2 is located at the top of the embankment to Van Cleef Lake. Sample HO1-SB1 contained concentrations of chromium and zinc above NYSDEC action levels but below average background concentrations, thus no further investigation is required along sewer line HO1 for inorganics.

No further investigation is required along sewer line HO1 for volatile organic compounds.

4.2.2 Process Sewer Line HO2

Additional investigation for cis-1,2-dichloroethene will be required in the vicinity of HO2-SB1, located south of Building 5. Concentrations of cis-1,2-dichloroethene increase slightly with depth in this area.

Additional investigation will be required in the area of HO2-SB2 and HO2-SB3 located at the southeast corner of Building 2. Concentrations of cis-1,2-dichloroethene, chromium, lead, zinc and fluoride exceeding action levels were detected in this area.

Additional investigation of the near surface soils in the area of HO2-SB4 for cadmium, chromium, lead and zinc are required. Sample HO2-SB4 is located in close proximity to the discharge point of sewer line HO2. The compound cis-1,2-dichloroethene was the only volatile organic detected at this location above but very near the action level. Because the concentration of cis-1,2-dichloroethene is the only volatile organic detected at this location and is very near the action level, Chester recommends no further investigation of volatile organics at this location.

4.2.3 Process Sewer Line HO3

The concentration of cadmium (2.1 mg/Kg) at HO3-SB7, located south of Building 12, slightly exceeded the NYSDEC action level of 1 mg/Kg. However, because the concentrations are similar to the action level, no other metals exceeded action levels, and no volatile organics were detected, Chester recommends no further action at this location.

Additional investigation will be required north of Building 12 in the area of HO3-SB6 for chromium, lead and zinc. Action levels for these constituents were exceeded at

this location at the 3 to 4 foot sample interval. No further investigation of volatile organics is required at this location.

No metal concentrations exceeded action levels in either HO3-SB5 or HO3-SB4 and no volatile organics exceed action levels, Chester recommends no further action in this area.

No metals or volatile organics concentrations exceeded action levels in HO3-SB3. Chester recommends no further action in the area of HO3-SB2 and HO3-SB3, immediately south of Building 7.

Additional investigation of the near surface soils in the area of HO3-SB1 for cadmium, lead and zinc are required. Sample HO3-SB1 is located in close proximity of the discharge point of sewer line HO3. No exceedances of volatile organics have occurred at this location, accordingly, no further investigation of volatile organics is required.

4.2.4 Process Sewer Line HO4

Additional investigation for cis-1,2-dichloroethene is required at HO4-SB1 located at the southern end of Building 11. A review of Table 3-3 suggests that the concentration of cis-1,2-dichloroethene increases with depth. No additional investigation for metals is required at this location.

Additional investigation of the near surface soils in the area of HO4-SB2 for cadmium and zinc are required. Sample HO4-SB2 is located in close proximity of the discharge point of sewer line HO4. No exceedances of volatile organics have occurred at this location, therefore, no further investigation of volatile organics is required.

4.2.5 Process Sewer Line HO5

No metals concentrations exceeded action levels from soil samples collected along process sewer line HO5. No further action is needed for metals at this

location. Additional investigation for cis-1,2-dichloroethene is required at HO5-SB1 located at the southern end of Building 11. The concentrations of this compound increase with depth.

4.2.6 Process Sewer Line HO6

No metals or organic constituents exceeded action levels from soil samples collected at HO6-SB1. No further action is needed.

Concentrations of cis-1,2-dichloroethene above the action level were detected at HO6-SB2 which is located east of Building 13A at a historical open discharge point for sewer line HO6. No exceedances of inorganics were detected at this location, accordingly, no further action is needed with respect to metals. This is an area included in the MW-1 RFI investigation currently in progress. Chester recommends that the MW-1 RFI investigation be completed and the data evaluated prior to initiating further investigation in the area of HO6-SB2.

4.2.7 Process Sewer Line HO7

One constituent of interest, cadmium, was detected above the action level at HO7-SB1, which is located on the north and east side of Building 13. No other inorganics or volatile organics were detected above action levels. As with similar concentrations found during this investigation, the concentration of cadmium (3.0 mg/Kg) is very near the action level of 1 mg/Kg. Accordingly, Chester recommends no further action in the area of HO7-SB1.

Additional investigation will be required at HO7-SB3 for cadmium lead and zinc. Sampling point HO7-SB3 is located east of Building 13 at a historical open discharge point for sewer line HO7.

Volatile organic compounds were not detected along process sewer line HO7 above action levels accordingly, no further investigation for volatile organics is required.

4.3 Inaccessible SWMU - Groundwater Monitoring Program

4.3.1 Groundwater Characterization

4.3.1.1 Groundwater and Soils

The two rounds of groundwater samples collected from monitoring wells were analyzed for metals, volatile organic compounds and semivolatile organic compounds. Soil samples collected from soil borings completed for monitoring well installation were analyzed for metals, volatile and semivolatile organic compounds.

MW-20

Additional assessments will be required in the area of MW-20 for vinyl chloride, cis-1,2-dichloroethene and 1,2-dichloroethene (total). These compounds exceeded the action levels for groundwater, however they were not detected in soil samples collected from the soil boring for MW-20 suggesting that the constituents of interest are migrating to MW-20 from other areas.

It appears that these are coming from off site background

Soils concentrations for cadmium, chromium and zinc exceeded their respective action levels in soil samples collected from the soil boring for MW-20. However, aqueous metals were either below detection limits or below action levels in all cases. The lack of metals in groundwater indicates that leaching of metals from impacted soils to local groundwater is not of concern therefore, no further action with respect to metals in soils is needed at MW-20.

MW-22

Additional assessments will be required in the area of MW-22 for cis-1,2-dichloroethene, 1,2-dichloroethene (total), and trichloroethene. These compounds exceeded the action levels for groundwater. However, of the three constituents, only trichloroethene was detected in soil samples collected from the soil boring for MW-22, well below the soil action level of 700 mg/Kg. This data suggests that the constituents of interest are migrating to MW-22 from other areas,

Soils concentrations for metals are below the action levels. Based upon these low concentrations and the fact that aqueous metals were either below detection limits or below groundwater standards in all cases, no further action with respect to metals is needed at MW-22.

MW-23

Additional assessments will be required in the area of MW-23 for cis-1,2-dichloroethene, 1,2-dichloroethene (total), trichloroethene, and 1,2-dichloroethane. These compounds exceeded the action levels for groundwater during the first sampling round, however only trichloroethene was detected during the second sampling round. Only trichloroethene was detected in soil samples collected from the soil boring for MW-22 at concentrations below the soil action level. This data suggests that the constituents of interest are migrating to MW-23 from other areas.

Soils concentrations for metals are below the action levels. Based upon these low concentrations and the fact that aqueous metals were below groundwater standards in all cases for both groundwater sampling rounds, no further action with respect to metals is needed at MW-23.

MW-24

Additional assessments will be required in the area of MW-24. Several volatile organic constituents were detected well above groundwater standards in this area. Soil concentrations of constituents of interest detected in soil samples collected above a depth of 10 feet do not support the location of MW-24 as the source area. However, based upon the high groundwater concentrations, MW-24 is possibly located very near the source of contamination.

Soils concentrations for cadmium, lead and zinc exceeded their respective action levels in soil samples collected from the soil boring for MW-24 at the 6 to 8 foot sample depth only. The concentrations of metals at the next sample depth, 8 to 10 feet, were below the respective action levels. Aqueous metal concentrations were

U06, U07, U08 and U09. Soil samples were collected and analyzed for petroleum compounds. Analytical results have been received and are being validated and will be presented in the Final SSVI report.

Chester recommends no further action in regards to the suspect areas until analytical results are finalized and evaluated.

4.4.1 Storage Tanks U01 and U02

Seven of 12 soil samples collected around UST's U01 and U02 contained concentrations of methanol of 1 mg/kg or less. An action level has not been calculated for methanol. However, as indicated on Table 3-11, the solid laboratory method blank contained 0.63 mg/kg of methanol. The concentrations in the solid laboratory blank suggest very low concentrations to nondetects. Because the methanol concentrations are very low, to nondetect, Chester recommends that no further action be taken in the area of UST's U01 and U02.

4.4.2 Storage Tanks U05, U06, U07, and U11

No constituents of concern were detected above action levels at UST's U05, U06, U07, and U11. Accordingly, no further action is required at these locations.

4.4.3 Storage Tank U09

Several semivolatile compounds were detected in one soil sample from U09-SB4 at a depth of 14 to 15 feet. Chrysene, benzo(a)anthracene and benzo(a)pyrene were the only compounds detected above NYSDEC action levels. No other organic compounds were detected in other samples around the closed UST. Additional investigation may be warranted, however no further action is recommended until the analytical results from soils excavated in this area are evaluated.

TABLE 2-1

WELL CONSTRUCTION SUMMARY

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NY

WELL	TOC ELEVATION (FEET)	GROUND SURFACE ELEVATION (FEET)	APPROX. WELL DEPTH (FEET)	WELL DIAMETER (INCHES)	SCREEN INTERVAL (FEET)	TOP OF SCREEN ELEVATION (FEET)	BOTTOM OF SCREEN ELEVATION (FEET)
MW-1	463.03	460.88	30	4	20-30	440.88	430.88
MW-20	465.61	466.21	14	4	4-14	462.21	452.21
MW-21	469.58	470.03	21.6	4	11.6-21.6	458.43	448.43
MW-22	462.93	463.33	15	4	5-15	458.33	448.33
MW-23	463.04	463.44	19	4	9-19	454.44	444.44
MW-24*	464.78	465.23	24.5	4	12.5-24.5	452.73	440.73
MW-25	462.94	460.29	16	4	6-16	454.29	444.29
MW-26	461.09	461.69	15	4	5-15	456.69	446.69
MW-27	462.67	460.57	15	4	5-15	455.57	445.57
MW-28	463.48	461.13	15.5	4	5.5-15.5	455.63	445.63
MW-29	462.17	460.03	18	4	8-18	452.03	442.03
MW-8**	463.35	460.90	150	6	42.4-153.7	421.00	309.67
MW-13***	459.56	456.39	47	1.7	28-38	431.59	421.79

Notes:

* WELL MW-24 CONSTRUCTED WITH 10" ID SURFACE CASING INSTALLED TO 8.4 FEET.

** WELL MW-8 IS OPEN HOLE BELOW 42.4 FEET.

*** APPROXIMATE TOP OF CASING ELEVATION.

TABLE 2-2
MONITORING WELL DEVELOPMENT
PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

WELL	DATE DEVELOPED	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	ONE WELL VOLUME (GAL)	VOLUME REMOVED (GAL)	pH S.U.	S.C. umhos/cm	TEMP (C)
MW-20	08-May-93	0.56	14	8.75	6	6.83	850	14
					10	6.88	850	14
					15	6.93	850	14.5
					20	7.04	900	14.5
					25	7	900	15
					30	7.1	850	14.5
					40	7.09	800	15
MW-21	08-May-93	3.22	21.6	11.97	6	8.37	570	-
					7	8.41	570	-
					10	8.38	570	11
					15	8.3	700	11
					20	8.24	700	11
					25	7.84	650	11
					30	7.79	675	11
MW-22	16-May-93	6.36	14.8	5.49	0	7.31	490	15
					5	7.25	470	12
					10	7.31	468	11.5
					dry at 15	7.43	455	11.5

Supplementary Sampling Visit, Seneca Falls, New York

TABLE 2-2 (Continued)
MONITORING WELL DEVELOPMENT

MW-23	16-May-93	3.4	19	10.16	0	7.02	1190	15
					5	7.08	1170	12.5
					10	7.17	1180	12
					15	7.22	1120	12
					20	7.24	1110	11.5
					dry at 23	7.32	1080	11.5
MW-24	11-Jun-93	4.14	24.5	13.25	dry at 20	-	-	-
MW-25	15-May-93	5.43	17.74	8.01	0	6.86	580	14
					5	7.06	580	11
					15	7.07	550	10
					20	7.21	510	10
					dry at 25	7.19	510	11
MW-26	15-May-93	6.67	14.5	5.10	0	7.31	810	13
					5	7.23	800	11
					10	7.21	790	10.5
					dry at 13	7.29	800	10.5
MW-27	15-May-93	7.44	17.66	6.65	0	7.5	600	12
					5	7.37	590	12
					10	7.37	580	10.5
					15	7.41	560	10
					20	7.43	550	10
					dry at 23	7.57	520	10
MW-28	09-Jun-93	6.34	15.5	5.96	dry at 20	-	-	-
MW-29	09-Jun-93	6.32	18	7.60	dry at 30	-	-	-

Supplementary Sampling Visit, Seneca Falls, New York

TABLE 3-1
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
SITE BACKGROUND SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			BS-SB1-01	BS-SB1-03	BS-SB1-04	BS-SB1-05	BS-SB1-06
SAMPLE INTERVAL:			0-2'	4-6'	6-8'	8-10'	10-12'
LABORATORY SAMPLE ID:			0661-01	0661-02	0661-03	0661-04	0661-05
DATE SAMPLED:			5-03-93	5-03-93	5-03-93	5-03-93	5-03-93
DATE ANALYZED:			5-21-93	5-21-93	5-21-93	5-21-93	5-21-93
% SOLID:			80.3	90.7	90.9	90.1	89.2
DILUTION FACTOR:			1X	1X	1X	1X	1X/2X (Pb)
UNITS	WET WEIGHT DETECTION LIMIT (mg/Kg)	NYSDEC ACTION LEVEL (mg/Kg)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER							
CADMIUM	1.0	1.0	1.7	ND	1.3	ND	ND
CHROMIUM	2.0	10.0	26.4	12.3	15.4	13.5	13.1
LEAD	8.0	30.0	30.3	10.8	13.9	12.6	11.1
ZINC	4.0	20.0	49.3	33.1	35.6	35.3	38.6
FLUORIDE	0.4	30.0	1.0	1.1	1.2	1.1	1.8

NOTES

- All aqueous lead analyses were performed on 5/13/93 and all fluoride analyses were performed on 5/27/93.
- All metals were analyzed by Method 6010 except aqueous lead results (Method 7421). All fluoride results by Method 340.2.
- Detection limits for the aqueous blanks are 1/200 times the soil limits except in units of mg/L.
- The soil sample positive detections reported are in dry weight concentrations.

KEY

ND = Not Detected
---- = Not applicable

ug/Kg = Microgram per kilogram
mg/L = Milligram per Liter

J = Qualified as estimated

TABLE 3-1
TOTAL & SPLP LEACHATE INORGANIC
CONCENTRATIONS DETECTED IN
SITE BACKGROUND SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			BS-SB1-07	BS-SB1-08	BS-SB2-01	BS-SB2-02	BS-SB2-03
SAMPLE INTERVAL:			12-13.5'	14-16'	0-2'	2-4'	4-6'
LABORATORY SAMPLE ID:			0661-06	0661-07	0661-08	0661-09	0661-10
DATE SAMPLED:			5-03-93	5-03-93	5-03-93	5-03-93	5-03-93
DATE ANALYZED:			5-21-93	5-21-93	5-21-93	5-21-93	5-21-93
% SOLID:			89.8	89.5	79.1	89.3	90
DILUTION FACTOR:			1X/2X (Pb)	1X	1X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT (mg/Kg)	NYSDEC ACTION LEVEL (mg/Kg)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER							
CADMIUM	1.0	1.0	ND	ND	ND	ND	ND
CHROMIUM	2.0	10.0	13.4	14.0	30.2	16.0	14.9
LEAD	8.0	30.0	10.8	14.8	34.0	14.3	16.7
ZINC	4.0	20.0	41.5	35.0	75.0	37.8	27.2
FLUORIDE	0.4	30.0	1.8	2.2	1.7	2.0	1.9

NOTES

- All aqueous lead analyses were performed on 5/13/93 and all fluoride analyses were performed on 5/27/93.
- All metals were analyzed by Method 6010 except aqueous lead results (Method 7421). All fluoride results by Method 340.2.
- Detection limits for the aqueous blanks are 5 times the soil limits except in units of ug/L.
- The soil sample positive detections reported are in dry weight concentrations.

KEY

ND = Not Detected
---- = Not applicable

ug/Kg = Microgram per kilogram
mg/L = Milligram per Liter

J = Qualified as estimated

TABLE 3-1
TOTAL & SPLP LEACHATE INORGANIC
CONCENTRATIONS DETECTED IN
SITE BACKGROUND SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			BS-SB2-05	BS-SB2-06	BS-SB2-07	BS-SB2-08	RB-01
SAMPLE INTERVAL:			8-10'	10-11.5'	11.5-13'	14.5-16'	----
LABORATORY SAMPLE ID:			0661-11	0661-12	0661-13	0661-14	0661-19
DATE SAMPLED:			5-03-93	5-03-93	5-03-93	5-03-93	5-03-93
DATE ANALYZED:			5-21-93	5-21-93	5-21-93	5-21-93	5-21-93
% SOLID:			90	90.1	89.6	89.8	----
DILUTION FACTOR:			1X	1X	1X/2X (Pb)	1X/5X (Pb)	1X
UNITS	WET WEIGHT DETECTION LIMIT (mg/Kg)	NYSDEC ACTION LEVEL (mg/Kg)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/L
PARAMETER							
CADMIUM	1.0	1.0	ND	ND	ND	ND	ND
CHROMIUM	2.0	10.0	13.3	14.1	13.8	13.4	ND
LEAD	8.0	30.0	14.5	11.5	13.2	14.7	ND
ZINC	4.0	20.0	37.9	37.5	39.6	39.6	0.03
FLUORIDE	0.4	30.0	2.1	2.0	2.1	2.3	----

NOTES

- All aqueous lead analyses were performed on 5/13/93 and all fluoride analyses were performed on 5/27/93.
- All metals were analyzed by Method 6010 except aqueous lead results (Method 7421). All fluoride results by Method 340.2.
- Detection limits for the aqueous blanks are 5 times the soil limits except in units of ug/L.
- The soil sample positive detections reported are in dry weight concentrations.
- Sample RB-01 is an equipment rinsate blank.

KEY

ND = Not Detected
---- = Not applicable

ug/Kg = Microgram per kilogram
mg/L = Milligram per Liter

J = Qualified as estimated

TABLE 3-1
TOTAL & SPLP LEACHATE INORGANIC
CONCENTRATIONS DETECTED IN
SITE BACKGROUND SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID: RB-03
SAMPLE INTERVAL: ----
LABORATORY SAMPLE ID: 0661-21
DATE SAMPLED: 5-03-93
DATE ANALYZED: 5-27-93
% SOLID: ----
DILUTION FACTOR: 1X

UNITS	WET WEIGHT DETECTION LIMIT (mg/Kg)	NYSDEC ACTION LEVEL (mg/Kg)	mg/L
PARAMETER			
CADMIUM	1.0	1.0	----
CHROMIUM	2.0	10.0	----
LEAD	8.0	30.0	----
ZINC	4.0	20.0	----
FLUORIDE	0.4	30.0	ND

NOTES

- All aqueous lead analyses were performed on 5/13/93 and all fluoride analyses were performed on 5/27/93.
- All metals were analyzed by Method 6010 except aqueous lead results (Method 7421). All fluoride results by Method 340.2.
- Detection limits for the aqueous blanks are 5 times the soil limits except in units of ug/L.
- The soil sample positive detections reported are in dry weight concentrations.
- Sample RB-03 is an equipment rinsate blank.

KEY

ND = Not Detected
---- = Not applicable

ug/Kg = Microgram per kilogram
mg/L = Milligram per Liter

J = Qualified as estimated

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H01-SB1-04	H01-SB1-05	H01-SB2-01	H01-SB2-02	H02-SB1-02
SAMPLE INTERVAL:			9-10'	10-11'	0-1'	1-2'	3.5-4.5'
LABORATORY SAMPLE ID:			0806-05	0806-06	0713-01	0713-02	0795-21
DATE SAMPLED:			5/27/93	5/27/93	5/10/93	5/10/93	5/26/93
DATE METALS ANALYZED:			6/10/93	6/10/93	6/01/93	6/01/93	6/16/93
DATE FLUORIDE ANALYZED:			6/14/93	6/14/93	6/01/93	6/01/93	6/14/93
DATE pH ANALYZED:			6/03/93	6/03/93	5/18/93	5/18/93	6/3/93
% SOLID:			90.5	91.3	78.2	78.4	86.9
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	ND	4.6 J	ND	ND
CHROMIUM	2.0	10.0	9.3	11.5	11.7	19.3	13.4
LEAD	8.0	30.0	9.8	11.5	247.5 J	27.3	15.0
ZINC	4.0	20.0	28.8	33.7	117.5 J	60.8 J	38.7
FLUORIDE	0.4	30.0	1.2	1.2	1.9	1.5	2.6
pH (in standard units)	---	---	7.59	7.56	7.4 J	7.85 J	7.54

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.

KEY

ND = Not Detected
--- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H02-SB1-03	H02-SB2-01	H02-SB2-02	H02-SB2-03	H02-SB3-02
SAMPLE INTERVAL:			4.5-5.5'	5-6'	5-6'	6-7'	5-6'
LABORATORY SAMPLE ID:			0795-22	0795-25	0795-26	0795-27	0795-23
DATE SAMPLED:			5/26/93	5/26/93	5/26/93	5/26/93	5/26/93
DATE METALS ANALYZED:			6/16/93	6/16/93	6/16/93	6/16/93	6/16/93
DATE FLUORIDE ANALYZED:			6/14/93	6/14/93	6/14/93	6/14/93	6/14/93
DATE pH ANALYZED:			6/3/93	6/3/93	6/3/93	6/3/93	6/3/93
% SOLID:			90.4	85.8	87.9	90.3	79.9
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	ND	ND	ND	ND
CHROMIUM	2.0	10.0	13.5	20.0	17.1	15.1	32.9
LEAD	8.0	30.0	15.9	20.3	19.3	19.5	47.4
ZINC	4.0	20.0	37.8	50.7	44.8	47.8	66.6
FLUORIDE	0.4	30.0	1.8	23.3	19.9	18.0	44.6
pH (in standard units)	----	----	7.46	7.3	7.44	7.5	5.64

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Sample H02-SB2-02 is a field duplicate of H02-SB2-01.

KEY

ND = Not Detected
---- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H02-SB3-03	H02-SB4-01	H02-SB4-02	H03-SB1-02	H03-SB1-01
SAMPLE INTERVAL:			6-7'	0-1'	1-2'	1-2'	0-1'
LABORATORY SAMPLE ID:			0795-24	0713-05	0713-06	0690-05	0690-06
DATE SAMPLED:			5/26/93	5/10/93	5/10/93	05/09/93	05/09/93
DATE METALS ANALYZED:			6/16/93	6/01/93	6/01/93	5/25/93	5/25/93
DATE FLUORIDE ANALYZED:			6/14/93	6/01/93	6/01/93	5/27/93	5/27/93
DATE pH ANALYZED:			6/3/93	5/18/93	5/18/93	5/12/93	5/12/93
% SOLID:			84.5	79.4	68.1	82.6	83.6
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSD&C ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	20.1	405.3	64.3	5.4
CHROMIUM	2.0	10.0	20.5	17.4	47.9	22.9	10.0
LEAD	8.0	30.0	24.6	40.3	142.7	31.4	56.5
ZINC	4.0	20.0	53.0	147.9 J	1113.1 J	278.2	134.0
FLUORIDE	0.4	30.0	43.9	6.8	0.0	3.5	19.5
pH (in standard units)	---	---	7.04	7.77 J	7.38 J	7.36	7.44

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.

KEY

ND = Not Detected
--- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H04-SB2-01	H04-SB2-02	H05-SB1-01	H05-SB1-02	H05-SB2-01
SAMPLE INTERVAL:			0-1'	1-2'	8-9'	9-10'	6-7'
LABORATORY SAMPLE ID:			0690-07	0690-08	0772-10	0772-11	0772-04
DATE SAMPLED:			05/09/93	05/09/93	5/21/93	5/21/93	5/21/93
DATE METALS ANALYZED:			5/25/93	5/25/93	6/02/93	6/02/93	6/02/93
DATE FLUORIDE ANALYZED:			5/27/93	5/27/93	6/01/93	6/01/93	6/01/93
DATE pH ANALYZED:			5/12/93	5/12/93	5/25/93	5/25/93	5/25/93
% SOLID:			87.5	89.2	90.9	89.3	89.7
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	21.0	11.2	ND	ND	ND
CHROMIUM	2.0	10.0	17.0	13.5	11.9	12.3	15.9
LEAD	8.0	30.0	17.6	16.4	10.1	11.0	14.2
ZINC	4.0	20.0	73.0	52.8	31.8	32.0	35.0
FLUORIDE	0.4	30.0	24.4	23.8	1.3	1.3	3.3
pH (in standard units)	---	---	7.99	7.53	7.55	7.48	7.57

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.

KEY

ND = Not Detected
--- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H05-SB2-02	H05-SB3-01	H05-SB3-02	H05-SB4-01	H05-SB4-02
SAMPLE INTERVAL:			7-8'	4-5'	5-6'	4-5'	5-6'
LABORATORY SAMPLE ID:			0772-05	0772-08	0772-09	0772-06	0772-07
DATE SAMPLED:			5/21/93	5/21/93	5/21/93	5/21/93	5/21/93
DATE METALS ANALYZED:			6/02/93	6/02/93	6/02/93	6/02/93	6/02/93
DATE FLUORIDE ANALYZED:			6/01/93	6/01/93	6/01/93	6/01/93	6/01/93
DATE pH ANALYZED:			5/25/93	5/25/93	5/25/93	5/25/93	5/25/93
% SOLID:			90.6	90	87.2	88.2	89.9
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	ND	ND	ND	ND
CHROMIUM	2.0	10.0	14.4	14.9	13.8	15.6	14.5
LEAD	8.0	30.0	13.5	14.9	12.6	16.1	15.8
ZINC	4.0	20.0	34.9	31.9	35.9	36.1	37.1
FLUORIDE	0.4	30.0	1.8	1.7	2.0	1.4	1.2
pH (in standard units)	---	---	7.48	7.51	7.45	7.43	7.47

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.

KEY

ND = Not Detected
--- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H05-SB5-01	H05-SB5-02	H05-SB6-01	H05-SB6-02	H05-SB6-03
SAMPLE INTERVAL:			0-1'	1-2'	5-6'	5-6'	6-7'
LABORATORY SAMPLE ID:			0713-03	0713-04	0772-01	0772-02	0772-03
DATE SAMPLED:			5/10/93	5/10/93	5/21/93	5/21/93	5/21/93
DATE METALS ANALYZED:			6/01/93	6/01/93	6/02/93	6/02/93	6/02/93
DATE FLUORIDE ANALYZED:			6/01/93	6/01/93	6/01/93	6/01/93	6/01/93
DATE pH ANALYZED:			5/18/93	5/18/93	5/25/93	5/25/93	5/25/93
% SOLID:			80.8	88.8	90.3	91.1	90.7
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	ND	ND	ND	ND
CHROMIUM	2.0	10.0	21.3	11.9	15.6	14.6	14.3
LEAD	8.0	30.0	18.7	12.6	14.3	13.4	13.7
ZINC	4.0	20.0	52.2 UJ	32.8 UJ	57.5	32.1	31.6
FLUORIDE	0.4	30.0	1.0	0.7	1.6	0.7	1.4
pH (in standard units)	---	---	7.8 J	7.52 J	7.55	7.45	7.54

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Sample H05-SB6-02 is a field duplicate of H05-SB6-01.

KEY

ND = Not Detected
--- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H06-SB1-01	H06-SB1-02	H06-SB2-01	H06-SB2-02	H07-SB1-01
SAMPLE INTERVAL:			5-6'	6-7'	0-1'	1-2'	4-5'
LABORATORY SAMPLE ID:			0763-11	0763-12	0690-04	0690-02	0763-07
DATE SAMPLED:			5/20/93	5/20/93	05/09/93	05/09/93	5/20/93
DATE METALS ANALYZED:			6/02/93	6/02/93	5/25/93	5/25/93	6/02/93
DATE FLUORIDE ANALYZED:			6/01/93	6/01/93	5/27/93	5/27/93	6/01/93
DATE pH ANALYZED:			5/25/93	5/25/93	5/12/93	5/12/93	5/25/93
% SOLID:			91.1	90.2	55	90.2	90.3
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	ND	ND	ND	3.0
CHROMIUM	2.0	10.0	24.3	13.6	ND	12.7	13.6
LEAD	8.0	30.0	26.6	13.3	ND	13.1	12.3 J
ZINC	4.0	20.0	57.4	33.4	ND	33.8	51.5
FLUORIDE	0.4	30.0	1.8	1.5	3.3	3.1	0.8
pH (in standard units)	---	---	7.65 J	7.67 J	8.17	7.43	7.26 J

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.

KEY

ND = Not Detected
--- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H07-SB1-02	H07-SB2-01	H07-SB2-02	H07-SB3-01	H07-SB3-02
SAMPLE INTERVAL:			5-6'	4-5'	5-6'	0-1'	1-2'
LABORATORY SAMPLE ID:			0763-08	0763-09	0763-10	0690-01	0690-03
DATE SAMPLED:			5/20/93	5/20/93	5/20/93	05/09/93	05/09/93
DATE METALS ANALYZED:			6/02/93	6/02/93	6/02/93	5/25/93	5/25/93
DATE FLUORIDE ANALYZED:			6/01/93	6/01/93	6/01/93	5/27/93	5/27/93
DATE pH ANALYZED:			5/25/93	5/25/93	5/25/93	5/12/93	5/12/93
% SOLID:			90.5	90.8	90.8	89.4	90.5
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	ND	ND	41.3	ND
CHROMIUM	2.0	10.0	12.6	14.3	14.4	17.2	14.0
LEAD	8.0	30.0	13.5	12.9	10.5 J	31.7	9.8
ZINC	4.0	20.0	35.9	34.2	35.7	317.0	35.3
FLUORIDE	0.4	30.0	0.6	0.8	0.6	2.2	1.8
pH (in standard units)	---	---	7.42 J	7.5 J	7.49 J	7.42	7.51

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.

KEY

ND = Not Detected
--- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-2
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			RB-08	RB-18	RB-20	RB-21	RB-22
SAMPLE INTERVAL:			----	----	----	----	----
LABORATORY SAMPLE ID:			0690-09	0772-12	0795-12	0795-28	0806-07
DATE SAMPLED:			05/09/93	5/21/93	5/25/93	5/26/93	5/27/93
DATE METALS ANALYZED:			5/25/93	6/02/93	6/16/93	6/16/93	6/10/93
DATE FLUORIDE ANALYZED:			5/27/93	6/01/93	6/14/93	6/14/93	6/14/93
DATE pH ANALYZED:			5/11/93	5/25/93	5/27/93	5/27/93	5/28/93
% SOLID:			----	----	----	----	----
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER	mg/Kg	mg/Kg					
CADMIUM	1.0	1.0	ND	ND	ND	ND	ND
CHROMIUM	2.0	10.0	ND	ND	ND	ND	ND
LEAD	8.0	30.0	ND	ND	ND	ND	ND
ZINC	4.0	20.0	ND	ND	25.9	ND	ND
FLUORIDE	0.4	30.0	ND	ND	ND	ND	ND
pH (in standard units)	----	----	6.33	8.04	6.63	6.52	6.95

NOTES

- Metals were analyzed by Method 6010, fluoride by Method 340.2, and pH by Method 9045.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Samples starting with "RB" are equipment rinsate blanks.

KEY

ND = Not Detected
---- = Not Applicable

ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
J = Qualified estimated.

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H-SB3-03	H02-SB 84-01	H02-SB4-02	HO3-SB1-02	HO3-SB1-01
SAMPLE INTERVAL:			6-7'	0-1'	1-2'	1-2'	0-1'
LABORATORY SAMPLE ID:			1079524	930771305	93071306	93069005	93069006
DATE SAMPLED:			5-26-93	5-17-93	5-10-93	5-9-93	5-9-93
DATE EXTRACTED:			5-30-93	5-17-93	5-17-93	5-16-93	5-16-93
% SOLIDS:			84.5	79.4	68.1	82.6	83.6
DILUTION FACTORS:			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	43 UJ	37 UJ	22	59
TRICHLOROFLUOROMETHANE	5	—	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	200	ND	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	12	78 J	113 J	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	700	ND	20 U	10 U	9.3	35
TETRACHLOROETHENE	3	1400	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- positive detections reported are in dry weight concentrations.
- analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- soil detection limits provided have the 5X dilution incorporated.
- NYSDEC Action Level is not available or calculable for trichlorofluoromethane.
- methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all validated analyses, the methylene chloride results were qualified as nondetected.

KEY

N = Not Detected
- = Not applicable

ug/Kg = Microgram per kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SLOPE LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H03-SB2-02	H03-SB2-03	H03-SB3-04	H03-SB3-05	H03-SB3-06
SAMPLE INTERVAL:			4-5'	5-6'	7-8'	8-9'	7-8'
LABORATORY SAMPLE ID:			93079515	93079516	93083903	93083904	93083905
DATE SAMPLED:			5-26-93	5-26-93	6-3-93	6-3-93	6-3-93
DATE EXTRACTED:			5-30-93	5-30-93	6-9-93	6-9-93	6-18-93
% SOLIDS:			90.3	88.9	90.3	90.3	89.8
DILUTION FACTORS:			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	ND	18	82	12
TRICHLOROFLUOROMETHANE	5	—	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	200	ND	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	ND	10	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	6.0	9.4	8.9
TRICHLOROETHENE	5	700	45	161	44	193	15
TETRACHLOROETHENE	3	1400	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- The soil detection limits provided have a 5X dilution incorporated.
- A NYSDDEC Action Level is not available or calculable for trichlorofluoromethane.
- Methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all valid analyses, the methylene chloride results were qualified as nondetected.
- Sample H03-SB3-06 is a field duplicate of H03-SB3-04.

KEY

ND = Not Detected
— = Not applicable

ug/Kg = microgram per kilogram
ug/L = microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			H03-SB4-02	H03-SB4-03	H03-SB5-01	H03-SB5-02	H03-SB6-01
SAMPLE INTERVAL:			4-5'	5-6'	3-4'	4-5'	3-4'
LABORATORY SAMPLE ID:			93079513	93079514	93079510	93079511	93080601
DATE SAMPLED:			5-26-93	5-26-93	5-25-93	5-25-93	5-27-93
DATE EXTRACTED:			5-29-93	5-29-93	5-29-93	5-29-93	6-03-93
% SOLIDS:			89.9	89.7	90.3	89.3	79.6
DILUTION FACTORS:			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER	LIMIT	LEVEL					
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	5	---	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	200	5.9	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	10	ND	11	80	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	44	27	ND	ND	ND
TRICHLOROETHENE	5	700	ND	13	24	31	ND
TETRACHLOROETHENE	3	1400	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- The soil detection limits provided have the 5X dilution incorporated.
- A NYSDC Action Level is not available or calculable for trichlorofluoromethane.
- Methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all validated analyses, the methylene chloride results were qualified as nondetected.

KEY

ND = Not Detected
--- = Not applicable

ug/Kg = Microgram per kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			HO3-SB6-02	HO3-SB7-03	HO3-SB7-04	H04-SB1-01	H04-SB1-02
SAMPLE INTERVAL:			4-5'	5-6'	6-7'	9-10'	10-11'
LABORATORY SAMPLE ID:			93080602	93080603	93080604	93079508	93079509
DATE SAMPLED:			5-27-93	5-27-93	5-27-93	5-25-93	5-25-93
DATE EXTRACTED:			6-03-93	6-03-93	6-03-93	5-29-93	5-29-93
% SOLIDS:			83.5	88.4	90.5	91.1	89.9
DILUTION FACTORS:			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER	LIMIT	LEVEL					
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	12	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	5	—	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	200	ND	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	ND	ND	ND	123	161
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	9.0	8.6
TRICHLOROETHENE	5	700	ND	ND	ND	220	445
TETRACHLOROETHENE	3	1400	ND	ND	ND	39	20
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- The soil detection limits provided have the 5X dilution incorporated.
- A NYSDEC Action Level is not available or calculable for trichlorofluoromethane.
- Methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all validated analyses, the methylene chloride results were qualified as nondetected.

KEY

ND = Not Detected
— = Not applicable

ug/Kg = Microgram per kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			HO6-SB1-01	HO6-SB1-02	HO6-SB2-01	HO6-SB2-02	HO7-SB1-01
SAMPLE INTERVAL:			5-6'	6-7'	0-1'	1-2'	4-5'
LABORATORY SAMPLE ID:			93076311	93076312	93069004	93069002	93076307
DATE SAMPLED:			5-20-93	5-20-93	5-9-93	5-9-93	5-20-93
DATE EXTRACTED:			5-27-93	5-27-93	5-16-93	5-15-93	5-26-93
% SOLIDS:			91.1	90.2	55.0	90.2	90.3
DILUTION FACTORS:			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	38	ND	ND
METHYLENE CHLORIDE	10	100	14 U	ND	ND	18	ND
TRICHLOROFLUOROMETHANE	5	—	ND	ND	17	ND	ND
1,1-DICHLOROETHANE	5	200	ND	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	23 J	72 J	200	144	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	700	6.6 J	64 J	25	ND	ND
TETRACHLOROETHENE	3	1400	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- The soil detection limits provided have the 5X dilution incorporated.
- A NYSDEC Action Level is not available or calculable for trichlorofluoromethane.
- Methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all validated analyses, the methylene chloride results were qualified as nondetected.

KEY

ND = Not Detected
— = Not applicable

ug/Kg = Microgram per kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			HO7-SB1-02	HO7-SB2-01	HO7-SB2-02	HO7-SB3-01	HO7-SB3-02
SAMPLE INTERVAL:			5-6'	4-5'	5-6'	0-1'	1-2'
LABORATORY SAMPLE ID:			93076308	93076309	93076310	93069001	93069003
DATE SAMPLED:			5-20-93	5-20-93	5-20-93	5-9-93	5-9-93
DATE EXTRACTED:			5-26-93	5-26-93	5-27-93	5-15-93	5-15-93
% SOLIDS:			90.5	90.8	90.8	89.4	90.5
DILUTION FACTORS:			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	ND	13 U	17	12
TRICHLOROFLUOROMETHANE	5	---	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	200	ND	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	700	8.4 J	ND	ND	19	ND
TETRACHLOROETHENE	3	1400	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- The soil detection limits provided have the 5X dilution incorporated.
- A NYSDEC Action Level is not available or calculable for trichlorofluoromethane.
- Methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all validated analyses, the methylene chloride results were qualified as nondetected.

KEY

ND = Not Detected
--- = Not applicable

ug/Kg = Microgram per kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			RB-08	TB-05	RB-18	TB-12	RB-20
SAMPLE INTERVAL:			----	----	----	----	----
LABORATORY SAMPLE ID:			93069009	93069010	93077212	93077213	93079512
DATE SAMPLED:			5-9-93	5-9-93	5-21-93	5-21-93	5-25-93
DATE EXTRACTED:			5-15-93	5-15-93	5-26-93	5-26-93	5-28-93
% SOLIDS:			----	----	----	----	----
DILUTION FACTORS:			1X	1X	1X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	5	----	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	200	ND	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	700	ND	ND	ND	ND	ND
TETRACHLOROETHENE	3	1400	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- The soil detection limits provided have the 5X dilution incorporated.
- A NYSDEC Action Level is not available or calculable for trichlorofluoromethane.
- Methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all validated analyses, the methylene chloride results were qualified as nondetected.
- Samples beginning with "RB" are rinsate blanks and samples beginning with "TB" are trip blanks.

KEY

ND = Not Detected
---- = Not applicable

ug/Kg = Microgram per kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-3
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
OUTSIDE SEWER LINE SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			RB-21	TB-14	RB-22	TB-15	RB-26
SAMPLE INTERVAL:			---	---	---	---	---
LABORATORY SAMPLE ID:			93079528	93079529	93080607	93080608	93083901
DATE SAMPLED:			5-26-93	5-26-93	5-27-93	5-27-93	6-3-93
DATE EXTRACTED:			6-1-93	6-1-93	6-03-93	6-03-93	6-8-93
% SOLIDS:			---	---	---	---	---
DILUTION FACTORS:			1X	1X	1X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	ND	ND	ND	13
TRICHLOROFLUOROMETHANE	5	---	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	200	ND	ND	ND	ND	ND
cis-1,2-DICHLOROETHENE	5	100	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	700	ND	ND	ND	ND	ND
TETRACHLOROETHENE	3	1400	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	15	8500	ND	ND	ND	ND	ND

NOTES

- The positive detections reported are in dry weight concentrations.
- The analyte specific detection limits can be calculated as the wet weight limit divided by the percent solid.
- Detection limits for the aqueous blanks are the same as the wet weight limits for undiluted soils in units of ug/L.
- The soil detection limits provided have the 5X dilution incorporated.
- A NYSDEC Action Level is not available or calculable for trichlorofluoromethane.
- Methylene chloride results should not be viewed as site-related positive results. Examination of raw method blank data and associated field blanks indicate methylene chloride results shown are likely the result of solvent contamination. In all validated analyses, the methylene chloride results were qualified as nondetected.
- Samples beginning with "RB" are rinsate blanks and samples beginning with "TB" are trip blanks.

KEY

NC) = Not Detected
--- = Not applicable

ug/Kg = Microgram per kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-4
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW24-SB-05	MW24-SB-06	MW24A-SB-04	MW24A-SB-05	MW25-SB-02
SAMPLE INTERVAL:			8-10'	10-12'	6-8'	8-10'	2-4'
LABORATORY ID:			0687-06	0687-07	0713-07	0713-08	0713-11
DATE SAMPLED:			05/07/93	05/07/93	5/10/93	5/10/93	5/11/93
DATE ANALYZED:			5/25/93	5/27/93	6/01/93	6/01/93	6/01/93
% SOLID:			90.7	90.1	83.7	90.5	87.6
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER							
CADMIUM	1.0	1.0	ND	---	ND	ND	8.6
CHROMIUM	2.0	10.0	12.3	---	26.7	12.9	17.8
LEAD	8.0	30.0	17.1	---	39.1 J	11.7 J	20.4
ZINC	4.0	20.0	45.0	---	71.0 J	37.1 UJ	79.9 J
FLUORIDE	0.4	30.0	2.3	2.1	2.4	2.5	5.9

NOTES

- Fluoride analyses were performed on 5/27, 6/1, or 6/14/93.
- All metals were analyzed by Method 6010 and fluoride results were analyzed by Method 340.2.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- Metal results for sample MW24-SB-06 were not performed as requested by the project manager.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-4
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW25-SB-05	MW26-SB-02	MW26-SB-03	MW26-SB-06	MW27-SB-02
SAMPLE INTERVAL:			8-10'	2-4'	2-4'	8-10'	2-4'
LABORATORY ID:			0713-12	0713-14	0713-13	0713-15	0723-01
DATE SAMPLED:			5/11/93	5/11/93	5/11/93	5/11/93	5/12/93
DATE ANALYZED:			6/01/93	6/01/93	6/01/93	6/01/93	6/02/93
% SOLID:			92.3	86.8	88.4	88.7	85.7
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<u>PARAMETER</u>							
CADMIUM	1.0	1.0	ND	ND	ND	ND	ND
CHROMIUM	2.0	10.0	12.0	13.5	12.9	11.2	23.1
LEAD	8.0	30.0	11.9	12.8	13.3 J	15.2	33.2
ZINC	4.0	20.0	34.7 UJ	37.4 UJ	37.2 UJ	42.4 UJ	50.0
FLUORIDE	0.4	30.0	1.0	1.5	1.4	0.6	1.0

NOTES

- Fluoride analyses were performed on 5/27, 6/1, or 6/14/93.
- All metals were analyzed by Method 6010 and fluoride results were analyzed by Method 340.2.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- Sample MW26-SB-03 is a field duplicate of MW26-SB-02.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-4
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW27-SB-05	MW28-SB-02	MW28-SB-05	MW29-SB-02	MW29-SB-05
SAMPLE INTERVAL:			8-10'	2-4'	8-10'	2-4'	8-10'
LABORATORY ID:			0723-02	0839-06	0839-07	0839-08	0839-09
DATE SAMPLED:			5/12/93	6/03/93	6/03/93	6/03/93	6/03/93
DATE ANALYZED:			6/02/93	6/29/93	6/29/93	6/29/93	6/29/93
% SOLID:			89.8	80.5	90.2	79.8	91.2
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER							
CADMIUM	1.0	1.0	ND	ND	ND	18.8	ND
CHROMIUM	2.0	10.0	14.8	24.2	11.0	24.0	12.0
LEAD	8.0	30.0	12.6	29.0	13.1	36.9	16.1
ZINC	4.0	20.0	40.1	67.2	38.9	147.4	37.4
FLUORIDE	0.4	30.0	1.1	3.6	1.0	4.2	2.3

NOTES

- Fluoride analyses were performed on 5/27, 6/1, or 6/14/93.
- All metals were analyzed by Method 6010 and fluoride results were analyzed by Method 340.2.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-4
TOTAL INORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			RB-04	RB-05	RB-06	RB-07	RB-09
SAMPLE INTERVAL:			---	---	---	---	---
LABORATORY ID:			0669-03	0680-02	0687-02	0687-08	0713-09
DATE SAMPLED:			5/04/93	5/05/93	05/06/93	05/07/93	5/10/93
DATE ANALYZED:			5/25/93	5/25/93	5/25/93	5/25/93	6/01/93
% SOLID:			---	---	---	---	---
DILUTION FACTOR:			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
CADMIUM	1.0	1.0	ND	12.3 J	ND	ND	ND
CHROMIUM	2.0	10.0	ND	20.4 J	ND	ND	ND
LEAD	8.0	30.0	ND	ND	ND	ND	ND
ZINC	4.0	20.0	ND	29.0	ND	ND	ND
FLUORIDE	0.4	30.0	ND	ND	ND	ND	44.7 J

NOTES

- Fluoride analyses were performed on 5/27, 6/1, or 6/14/93.
- All metals were analyzed by Method 6010 and fluoride results were analyzed by Method 340.2.
- Detection limits for the aqueous blanks reported are 1/200th of the soil limits in units of ug/L.
- The positive detections reported are in dry weight concentrations.
- Samples RB-04, RB-05, RB-06, RB-07, and RB-09 are equipment rinsate blanks.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-5
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW24-SB-05	MW24-SB-06	MW24A-SB-04	MW24A-SB-05	MW25-SB-02
SAMPLE INTERVAL:			8-10'	10-12'	6-8'	8-10'	2-4'
LABORATORY ID:			93068706	93068707	93071307	93071308	93071311
DATE SAMPLED:			5-07-93	5-07-93	5-10-93	5-10-93	5-11-93
DATE EXTRACTED:			5-14-93	5-14-93	5-17-93	5-17-93	5-18-93
% SOLIDS:			90.7	90.1	83.7	90.5	87.6
DILUTION FACTORS:			1X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
VINYL CHLORIDE	20	200	ND	85	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	12	53 UJ	54 UJ	32 UJ
cis-1,2-DICHLOROETHENE	5	100	29	921	ND	50 J	26 J
trans-1,2-DICHLOROETHENE	5	300	ND	6	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	355	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	7 U	ND	ND
TRICHLOROETHENE	5	700	ND	ND	ND	21 U	ND
TOLUENE	20	1500	ND	55	ND	ND	ND

NOTES

- Methylene chloride was detected in a field and method blanks at significant enough concentrations that all validated positive detections were qualified and nonvalidated would be qualified as nondetected based on the U.S.EPA 10X rule for common laboratory contaminants.
- The positive detections reported are in dry weight concentrations.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U =Qualified as nondetected
J =Qualified as estimated

TABLE 3-5
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW25-SB-05	MW26-SB-02	MW26-SB-03	MW26-SB-06	MW27-SB-02
SAMPLE INTERVAL:			8-10'	2-4'	2-4'	8-10'	2-4'
LABORATORY ID:			93071312	93071314	93071313	93071315	93072301
DATE SAMPLED:			5-11-93	5-11-93	5-11-93	5-11-93	5-12-93
DATE EXTRACTED:			5-18-93	5-18-93	5-18-93	5-18-93	5-20-93
% SOLIDS:			92.3	86.8	88.4	88.7	85.7
DILUTION FACTORS:			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	36 UJ	28 UJ	27 UJ	31 UJ	117 UJ
cis-1,2-DICHLOROETHENE	5	100	76 J	61 J	18 J	24 J	ND
trans-1,2-DICHLOROETHENE	5	300	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	700	14 U	ND	ND	57 J	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND

NOTES

- Methylene chloride was detected in a field and method blanks at significant enough concentrations that all validated positive detections were qualified and nonvalidated would be qualified as nondetected based on the U.S.EPA 10X rule for common laboratory contaminants.
- The positive detections reported are in dry weight concentrations.
- Sample MW26-SB-03 is a field duplicate of MW26-SB-02.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-5
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:	MW27-SB-05	MW28-SB-02	MW28-SB-05	MW29-SB-02	MW29-SB-05
SAMPLE INTERVAL:	8-10'	2-4'	8-10'	2-4'	8-10'
LABORATORY ID:	9372302	93083906	93083907	93083908	93083909
DATE SAMPLED:	5-12-93	6-3-93	6-3-93	6-3-93	6-3-93
DATE EXTRACTED:	5-20-93	6-9-93	6-9-93	6-9-93	6-9-93
% SOLIDS:	89.8	80.5	90.2	79.8	91.2
DILUTION FACTORS:	5X	5X	5X	5X	5X

UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	134 UJ	69	63	20	13
cis-1,2-DICHLOROETHENE	5	100	ND	ND	ND	ND	ND
trans-1,2-DICHLOROETHENE	5	300	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	7	7	13	ND
TRICHLOROETHENE	5	700	ND	ND	9	ND	ND
TOLUENE	20	1500	ND	ND	33	ND	42

NOTES

- Methylene chloride was detected in a field and method blanks at significant enough concentrations that all validated positive detections were qualified and nonvalidated would be qualified as nondetected based on the U.S.EPA 10X rule for common laboratory contaminants.
- The positive detections reported are in dry weight concentrations.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U = Qualified as nondetected
J = Qualified as estimated

TABLE 3-5
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:	RB-04	TB-02	RB-05	TB-03	TB-04
SAMPLE INTERVAL:	---	---	---	---	---
LABORATORY ID:	93066903	93066904	93068002	93068001	93068701
DATE SAMPLED:	5-4-93	5-4-93	5-5-93	5-5-93	5-06-93
DATE EXTRACTED:	5-8-93	5-8-93	5-10-93	5-10-93	5-13-93
% SOLIDS:	---	---	---	---	---
DILUTION FACTORS:	1X	1X	1X	1X	1X

UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
VINYL CHLORIDE	20	200	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	ND	ND	ND	ND	44.6
cis-1,2-DICHLOROETHENE	5	100	ND	ND	ND	ND	ND
trans-1,2-DICHLOROETHENE	5	300	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	700	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND

NOTES

- Methylene chloride was detected in a field and method blanks at significant enough concentrations that all validated positive detections were qualified and nonvalidated would be qualified as nondetected based on the U.S.EPA 10X rule for common laboratory contaminants.
- The positive detections reported are in dry weight concentrations.
- Samples beginning with "RB" are rinsate blanks and beginning with "TB" are trip blanks.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U =Qualified as nondetected
J =Qualified as estimated

TABLE 3-5
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			RB-06	RB-07	RB-09	TB-06
SAMPLE INTERVAL:			---	---	---	---
LABORATORY ID:			93068702	93068708	93071309	93071310
DATE SAMPLED:			5-06-93	5-07-93	5-10-93	5-10-93
DATE EXTRACTED:			5-13-93	5-13-93	5-18-93	5-18-93
% SOLIDS:			---	---	---	---
DILUTION FACTORS:			1X	1X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L
PARAMETER						
VINYL CHLORIDE	20	200	ND	ND	ND	ND
METHYLENE CHLORIDE	10	100	46.8	42.3	ND	ND
cis-1,2-DICHLOROETHENE	5	100	ND	ND	ND	ND
trans-1,2-DICHLOROETHENE	5	300	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	100	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	800	ND	ND	ND	ND
TRICHLOROETHENE	5	700	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND

NOTES

- Methylene chloride was detected in a field and method blanks at significant enough concentrations that all validated positive detections were qualified and nonvalidated would be qualified as nondetected based on the U.S.EPA 10X rule for common laboratory contaminants.
- The positive detections reported are in dry weight concentrations.
- Samples beginning with "RB" are rinsate blanks and beginning with "TB" are trip blanks.

KEY

ND = Not Detected
ug/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

U =Qualified as nondetected
J =Qualified as estimated

TABLE 3-6
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
MONITORING WELL BORING SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW24-SB-05	MW24-SB-06	MW24A-SB-04	MW24A-SB-05	RB-09
SAMPLE INTERVAL:			8-10'	10-12'	6-8'	8-10'	---
LABORATORY SAMPLE ID:			93068706	93068707	93071307	93071308	93071309
DATE SAMPLED:			5-07-93	5-07-93	5-10-93	5-10-93	5-10-93
DATE EXTRACTED:			5-17-93	5-17-93	5-17-93	5-18-93	5-17-93
% SOLIDS:			90.7	90.1	83.7	90.5	---
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L
PARAMETER							
BIS(2-ETHYLHEXYL)PHthalate	330	50000	ND	ND	741	155 J	ND

NOTES

- Bis(2-ethylhexyl)phthalate was detected in a solid method blank at a significant enough concentration that the two positive detections would be qualified as nondetected according to the U.S. EPA 10X rule for common laboratory conatminants.
- Detection limit for the rinsate blank (RB-09) is 1/33rd of the soil wet weight detection limit.
- The positive detections reported are in dry weight concentrations.

KEY

- ND = Not Detected
- = Not applicable
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- J = Result is qualified estimated since the result is below the CRQL

TABLE 3-7
INORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND1) COLLECTED JUNE 14-16, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW01-GW-01	MW08-GW-01	MW20-GW-01	MW21-GW-01	MW22-GW-01
LABORATORY SAMPLE ID:			0896-05	0902-09	0896-01	0896-03	0902-03
DATE SAMPLED:			6/15/93	6/16/93	6/14/93	6/15/93	6/16/93
DATE ANALYZED:			6/29/93	6/29/93	6/29/93	6/29/93	6/29/93
DILUTION FACTOR:			1X	1X/10X (Pb)	1X	1X	1X
UNITS	UNDILUTED DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
CADMIUM	5	5	ND	ND	ND	ND	ND
CHROMIUM	10	50	ND	13	ND	ND	ND
LEAD	3	15	ND	ND	ND	ND	ND
ZINC	20	300	ND	34	ND	ND	ND
FLUORIDE	100	1500	220	1,120	390	300	660

NOTES

- Lead analyses were performed on 6/25 or 6/29/93. Fluoride analyses were performed on 6/22/93.
- Cadmium, chromium, and zinc were analyzed by Method 6010.
- Lead was analyzed by Method 7421 and fluoride was analyzed by Method 340.2.

KEY

ND = Not Detected
ug/L = Microgram per Liter

TABLE 3-7
INORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND1) COLLECTED JUNE 14-16, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW23-GW-01	MW23-GW-01D	MW24-GW-01	MW25-GW-01	MW26-GW-01
LABORATORY SAMPLE ID:			0902-01	0902-02	0902-08	0902-04	0896-04
DATE SAMPLED:			6/16/93	6/16/93	6/16/93	6/16/93	6/15/93
DATE ANALYZED:			6/29/93	6/29/93	6/29/93	6/29/93	6/29/93
DILUTION FACTOR:			1X	1X	1X	1X	1X
UNITS	UNDILUTED DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
CADMIUM	5	5	ND	ND	ND	ND	ND
CHROMIUM	10	50	ND	ND	ND	16	ND
LEAD	3	15	ND	ND	ND	ND	ND
ZINC	20	300	ND	ND	ND	ND	ND
FLUORIDE	100	1500	320	310	740	590	160

NOTES

- Lead analyses were performed on 6/25 or 6/29/93. Fluoride analyses were performed on 6/22/93.
- Cadmium, chromium, and zinc were analyzed by Method 6010.
- Lead was analyzed by Method 7421 and fluoride was analyzed by Method 340.2.
- Sample MW23-GW-01D is a field duplicate of MW23-GW-01.

KEY

ND = Not Detected
ug/L = Microgram per Liter

TABLE 3-7
INORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND1) COLLECTED JUNE 14-16, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW27-GW-01	MW28-GW-01	MW29-GW-01	RB-27	RB-28
LABORATORY SAMPLE ID:			0902-05	0902-07	0902-06	0896-02	0896-06
DATE SAMPLED:			6/16/93	6/16/93	6/16/93	6/14/93	6/15/93
DATE ANALYZED:			6/29/93	6/29/93	6/29/93	6/29/93	6/29/93
DILUTION FACTOR:			1X	1X	1X	1X	1X
UNITS	UNDILUTED DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
<u>PARAMETER</u>							
CADMIUM	5	5	ND	ND	ND	ND	ND
CHROMIUM	10	50	ND	ND	ND	ND	ND
LEAD	3	15	6	ND	ND	ND	ND
ZINC	20	300	ND	ND	ND	ND	ND
FLUORIDE	100	1500	450	220	480	ND	ND

NOTES

- Lead analyses were performed on 6/25 or 6/29/93. Fluoride analyses were performed on 6/22/93.
- Cadmium, chromium, and zinc were analyzed by Method 6010.
- Lead was analyzed by Method 7421 and fluoride was analyzed by Method 340.2.
- Samples RB-27 and RB-28 are equipment rinsate blanks.

KEY

ND = Not Detected
ug/L = Microgram per Liter

TABLE 3-8
INORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 2) COLLECTED JULY 21, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW23-GW-02	MW24-GW-02	MW25-GW-02	MW26-GW-02	MW27-GW-02
LABORATORY SAMPLE ID:			1057-05	1057-13	1057-08	1057-04	1057-09
DATE SAMPLED:			7/21/93	7/21/93	7/21/93	7/21/93	7/21/93
DATE ANALYZED:			08/05/93	08/05/93	08/05/93	08/05/93	08/05/93
DILUTION FACTOR:			1X	1X/2X(Pb)	1X	1X	1X
UNITS	UNDILUTED DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
CADMIUM	5	5	ND	ND	ND	ND	ND
CHROMIUM	10	50	ND	ND	ND	ND	ND
LEAD	3	15	ND	ND	5.7	4.5	ND
ZINC	20	300	ND	ND	24.1	ND	ND
FLUORIDE	100	1500	310.0	710.0	580.0	150.0	480.0

NOTES

- All lead analyses were performed on 8/02-03/93 and all fluoride analyses were performed on 7/27/93.
- Cadmium, chromium, and zinc were analyzed by Method 6010.
- Lead was analyzed by Method 7421 and fluoride was analyzed by Method 340.2.

KEY

ND = Not Detected
ug/L = Microgram per Liter

TABLE 3-8
INORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 2) COLLECTED JULY 21, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW28-GW-02	MW29-GW-02	RB-30
LABORATORY SAMPLE ID:			1057-10	1057-11	1057-03
DATE SAMPLED:			7/21/93	7/21/93	7/21/93
DATE ANALYZED:			08/05/93	08/05/93	08/05/93
DILUTION FACTOR:			1X	1X/2X (Pb)	1X
UNITS	UNDILUTED DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L
<u>PARAMETER</u>					
CADMIUM	5	5	ND	ND	ND
CHROMIUM	10	50	ND	ND	ND
LEAD	3	15	ND	8.6	3.6
ZINC	20	300	ND	25.7	ND
FLUORIDE	100	1500	210.0	444.0	ND

NOTES

- All lead analyses were performed on 8/02-03/93 and all fluoride analyses were performed on 7/27/93.
- Cadmium, chromium, and zinc were analyzed by Method 6010.
- Lead was analyzed by Method 7421 and fluoride was analyzed by Method 340.2.
- Sample RB-30 is an equipment rinsate blank.

KEY

ND = Not Detected
ug/L = Microgram per Liter

TABLE 3-9
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 1) COLLECTED JUNE 14-16, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW01-GW-01	MW08-GW-01	MW20-GW-01	MW21-GW-01	MW22-GW-01	MW23-GW-01
LABORATORY SAMPLE ID:			93089605	93090209	93089601	93089603	93090203	93090201
DATE SAMPLED:			6-15-93	6-16-93	6-14-93	6-15-93	6-16-93	6-16-93
DATE ANALYZED:			6-17-93	6-18-93	6-17-93	6-17-93	6-17-93	6-17-93
DILUTION FACTOR(S):			1	1	1	1	1	1
UNITS			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
8010 PARAMETER	DETECTION LIMIT	NYSDEC ACTION LEVEL						
VINYL CHLORIDE	10	2	ND	ND	120	ND	ND	ND
CHLOROETHANE	10	5	ND	ND	ND	ND	ND	ND
ACETONE	10	50	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	10	5	4 J	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	10	5	7 J	ND	ND	ND	ND	ND
1,2-DICHLOROETHENE (cis)	10	5	ND	ND	27	ND	17	31
1,2-DICHLOROETHENE (trans)	10	5	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHENE (total)	10	5	ND	ND	27	ND	17	31
CHLOROFORM	10	7	ND	ND	ND	ND	ND	4 J
1,2-DICHLOROETHANE	10	5	ND	ND	ND	ND	ND	57
1,1,1-TRICHLOROETHANE	10	5	57	22	ND	ND	ND	ND
1,2-DICHLOROPROPANE	10	5	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	10	5	ND	ND	ND	ND	43	16,000
BENZENE	10	0.7	ND	ND	ND	ND	ND	ND
4-METHYL-2-PENTANONE	10	50	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE	10	5	ND	4 J	ND	ND	ND	ND
TOLUENE	10	5	ND	ND	ND	ND	ND	ND
ETHYL BENZENE	10	5	ND	ND	ND	ND	ND	ND
XYLENE (total)	10	5	ND	ND	ND	ND	ND	ND

NOTES

-Analyses were performed by Methods 8010/8020. No positive results were detected for Method 8020 analyses.
-These groundwater samples represent the first sampling round.

KEY

ND = Not Detected at the limit reported
ug/L = Microgram per Liter

J = Value is estimated since reported below the CRQL

TABLE 3-9
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 1) COLLECTED JUNE 14-16, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW23-GW-01D	MW24-GW-01	MW25-GW-01	MW26-GW-01	MW27-GW-01	MW28-GW-01
LABORATORY SAMPLE ID:			93090202	93090208	93090204	93089604	93090205	93090207
DATE SAMPLED:			6-16-93	6-16-93	6-16-93	6-15-93	6-16-93	6-16-93
DATE ANALYZED:			6-17-93	6-17-93	6-17-93	6-17-93	6-17-93	6-17-93
DILUTION FACTOR(S):			1	1	1	1	1	1
UNITS			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
8010 PARAMETER	DETECTION LIMIT	NYSDEC ACTION LEVEL						
VINYL CHLORIDE	10	2	ND	8,800	590	19	ND	ND
CHLOROETHANE	10	5	ND	ND	ND	ND	ND	ND
ACETONE	10	50	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	10	5	ND	100	17	4 J	ND	ND
1,1-DICHLOROETHANE	10	5	ND	ND	44	ND	ND	ND
1,2-DICHLOROETHENE (cis)	10	5	35	38,000	2,000	180	ND	ND
1,2-DICHLOROETHENE (trans)	10	5	ND	150	6 J	ND	ND	ND
1,2-DICHLOROETHENE (total)	10	5	35	39,000	2,000	180	ND	ND
CHLOROFORM	10	7	5 J	5 J	ND	ND	ND	ND
1,2-DICHLOROETHANE	10	5	64	1,300 J	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	10	5	ND	ND	34	3 J	ND	3 J
1,2-DICHLOROPROPANE	10	5	ND	10	ND	ND	ND	ND
TRICHLOROETHENE	10	5	17,000	11,000	120	310	ND	11
BENZENE	10	0.7	ND	26	3 J	ND	ND	ND
4-METHYL-2-PENTANONE	10	50	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE	10	5	ND	ND	4 J	ND	ND	ND
TOLUENE	10	5	ND	140	6 J	ND	ND	ND
ETHYL BENZENE	10	5	ND	59	ND	ND	ND	ND
XYLENE (total)	10	5	ND	110	ND	ND	ND	ND

NOTES

- Analyses were performed by Methods 8010/8020. No positive results were detected for Method 8020 analyses.
- These groundwater samples represent the first sampling round.
- Sample MW-GW23-01D is a field duplicate of MW-GW23-01.

KEY

ND = Not Detected at the limit reported
ug/L = Microgram per Liter

J = Value is estimated since reported below the CRQL

TABLE 3-9
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 1) COLLECTED JUNE 14-16, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW29-GW-01	TB-19	TB-20	RB-27	RB-28	RB-29
LABORATORY SAMPLE ID:			93090206	93089607	93090211	93089602	93089606	93090210
DATE SAMPLED:			6-16-93	6-15-93	6-16-93	6-14-93	6-15-93	6-16-93
DATE ANALYZED:			6-17-93	6-17-93	6-18-93	6-17-93	6-17-93	6-18-93
DILUTION FACTOR(S):			1	1	1	1	1	1
UNITS		NYSDEC	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
8010 PARAMETER	DETECTION LIMIT	ACTION LEVEL						
VINYL CHLORIDE	10	2	51	ND	ND	ND	ND	ND
CHLOROETHANE	10	5	4 J	ND	ND	ND	ND	ND
ACETONE	10	50	38	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	10	5	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	10	5	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHENE (cis)	10	5	84	ND	ND	ND	ND	3 J
1,2-DICHLOROETHENE (trans)	10	5	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHENE (total)	10	5	84	ND	ND	ND	ND	3 J
CHLOROFORM	10	7	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	10	5	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	10	5	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	10	5	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	10	5	ND	ND	2 J	ND	ND	3 J
BENZENE	10	0.7	6 J	ND	ND	ND	ND	ND
4-METHYL-2-PENTANONE	10	50	24	ND	ND	ND	ND	ND
TETRACHLOROETHENE	10	5	ND	ND	ND	ND	ND	ND
TOLUENE	10	5	250	ND	ND	ND	ND	ND
ETHYL BENZENE	10	5	ND	ND	ND	ND	ND	ND
XYLENE (total)	10	5	4 J	ND	ND	ND	ND	ND

NOTES

- Analyses were performed by Methods 8010/8020. No positive results were detected for Method 8020 analyses.
- These groundwater samples represent the first sampling round.
- Samples beginning with "TB" are trip blanks and samples beginning with "RB" are equipment rinsate blanks.

KEY

ND = Not Detected at the limit reported
ug/L = Microgram per Liter

J = Value is estimated since reported below the CRQL

TABLE 3-10
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 2) COLLECTED JULY 21, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW1-GW-02	MW20-GW-02	MW21-GW-02	MW22-GW-02	MW22-GW-02D
LABORATORY SAMPLE ID:			93105712	93105702	93105701	93105706	93105707
DATE SAMPLED:			7-21-93	7-21-93	7-21-93	7-21-93	7-21-93
DATE ANALYZED:			7-26-93	7-26-93	7-26-93	7-26-93	7-27-93
DILUTION FACTOR(S):			1	1	1	1	1
UNITS			ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER	DETECTION LIMIT	NYSDEC ACTION LEVEL					
VINYL CHLORIDE	10	2	ND	43	ND	ND	ND
1,1-DICHLOROETHENE	10	5	5 J	ND	ND	ND	ND
1,1-DICHLOROETHANE	10	5	10 J	ND	ND	ND	ND
1,2-DICHLOROETHENE (cis)	10	5	ND	23	ND	16	15
1,2-DICHLOROETHENE (total)	10	5	ND	23	ND	16	15
1,2-DICHLOROETHANE	10	5	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	10	5	80	ND	ND	ND	ND
TRICHLOROETHENE	10	5	ND	ND	ND	43	38

NOTES

- Analyses were performed by Methods 8010/8020. No positive results were detected for Method 8020 analyses.
- These groundwater samples represent the second sampling round.
- Sample MW-GW22-02D is a field duplicate of MW-GW22-02.

KEY

ND = Not Detected at the limit reported
ug/L = Microgram per Liter

J = Value is estimated since result is below the CRQL

TABLE 3-10
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 2) COLLECTED JULY 21, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW23-GW-02	MW24-GW-02	MW25-GW-02	MW26-GW-02	MW27-GW-02
LABORATORY SAMPLE ID:			93105705	93105713	93105708	93105704	93105709
DATE SAMPLED:			7-21-93	7-21-93	7-21-93	7-21-93	7-21-93
DATE ANALYZED:			7-26-93	7-26-93	7-26-93	7-26-93	7-26-93
DILUTION FACTOR(S):			100	200	10	1	1
UNITS			ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER	DETECTION LIMIT	NYSDEC ACTION LEVEL					
VINYL CHLORIDE	10	2	ND	5,000	300	12	ND
1,1-DICHLOROETHENE	10	5	ND	ND	ND	3 J	ND
1,1-DICHLOROETHANE	10	5	ND	ND	49 J	3 J	ND
1,2-DICHLOROETHENE (cis)	10	5	ND	38,000	2,100	180	ND
1,2-DICHLOROETHENE (total)	10	5	ND	38,000	2,100	180	ND
1,2-DICHLOROETHANE	10	5	ND	1,200 J	ND	ND	ND
1,1,1-TRICHLOROETHANE	10	5	ND	ND	45 J	4 J	ND
TRICHLOROETHENE	10	5	23,000	13,000	170	450	ND

NOTES

-Analyses were performed by Methods 8010/8020. No positive results were detected for Method 8020 analyses.
-These groundwater samples represent the second sampling round.

KEY

ND = Not Detected at the limit reported
ug/L = Microgram per Liter

J = Value is estimated since result is below the CRQL

TABLE 3-10
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN GROUNDWATER
(ROUND 2) COLLECTED JULY 21, 1993

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			MW28-GW-02	MW29-GW-02	TB-21	RB-30
LABORATORY SAMPLE ID:			93105710	93105711	93105714	93105703
DATE SAMPLED:			7-21-93	7-21-93	7-21-93	7-21-93
DATE ANALYZED:			7-27-93	7-26-93	7-26-93	7-26-93
DILUTION FACTOR(S):			1	1	1	1
UNITS			ug/L	ug/L	ug/L	ug/L
PARAMETER	DETECTION LIMIT	NYSDEC ACTION LEVEL				
VINYL CHLORIDE	10	2	ND	31	ND	ND
1,1-DICHLOROETHENE	10	5	ND	ND	ND	ND
1,1-DICHLOROETHANE	10	5	ND	ND	ND	ND
1,2-DICHLOROETHENE (cis)	10	5	ND	69	ND	ND
1,2-DICHLOROETHENE (total)	10	5	ND	69	ND	ND
1,2-DICHLOROETHANE	10	5	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	10	5	3 J	ND	ND	ND
TRICHLOROETHENE	10	5	11	ND	ND	ND

NOTES

- Analyses were performed by Methods 8010/8020. No positive results were detected for Method 8020 analyses.
- These groundwater samples represent the second sampling round.
- Sample RB-30 is a rinsate blank and TB-21 is a trip blank.

KEY

ND = Not Detected at the limit reported
ug/L = Microgram per Liter

J = Value is estimated since result is below the CRQL

TABLE 3-11
METHANOL
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U01-SB1-01	U01-SB1-02	U01-SB2-01	U01-SB2-02	U01-SB3-01
SAMPLE INTERVAL:			11-12'	12-13'	11-12'	12-13'	11-12'
LABORATORY ID:			93075110	93075111	93075107	93075108	93076305
DATE SAMPLED:			5-19-93	5-19-93	5-19-93	5-19-93	5-20-93
DATE EXTRACTED:			5-27-93	5-27-93	6-01-93	5-27-93	5-26-93
% SOLIDS:			87.7	89.2	87.5	90.1	89
DILUTION FACTORS:			1X	1X	1X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PARAMETER							
METHANOL	0.5	---	0.68 UJ	0.70 UJ	1.01 UJ	0.69 UJ	ND

NOTES

-A solid laboratory method blank had methanol detected at 0.63 mg/Kg. All positive results are less than five times this blank concentration and as such were qualified as nondetected.
-All solid sample results are in dry weight concentrations.

KEY

ND = Not Detected
--- = Not Applicable
mg/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
U = Qualified nondetected

TABLE 3-11
METHANOL
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

HILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:	U01-SB3-02	U02-SB1-01	U02-SB1-02	U02-SB2-01	U02-SB2-02
SAMPLE INTERVAL:	12-13'	11-12'	12-13'	11-12'	12-13'
LABORATORY ID:	93076306	93075112	93075113	93076301	93076302
DATE SAMPLED:	5-20-93	5-19-93	5-19-93	5-20-93	5-20-93
DATE EXTRACTED:	5-26-93	5-27-93	5-27-93	5-26-93	5-26-93
% SOLIDS:	89.8	89.8	90.4	80.8	85.4
DILUTION FACTORS:	1X	1X	1X	1X	1X

UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<u>PARAMETER</u>							
METHANOL	0.5	---	ND	0.69 UJ	0.66 UJ	0.78 U	ND

NOTES

-A solid laboratory method blank had methanol detected at 0.63 mg/Kg. All positive results are less than five times this blank concentration and as such would be qualified as nondetected.
-All solid sample results are in dry weight concentrations.

KEY

ND = Not Detected
--- = Not Applicable
mg/Kg = Microgram per Kilogram
ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
U = Qualified nondetected

TABLE 3-11
METHANOL
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U02-SB3-01	U02-SB3-02	RB-16	RB-17	TB-11
SAMPLE INTERVAL:			11-12'	12-13'	---	---	---
LABORATORY ID:			93076303	93076304	93075109	93076313	93076314
DATE SAMPLED:			5-20-93	5-20-93	5-19-93	5-19-93	5-19-93
DATE EXTRACTED:			5-26-93	5-26-93	5-26-93	5-26-93	5-26-93
% SOLIDS:			82.7	80.8	---	---	---
DILUTION FACTORS:			1X	1X	1X	1X	1X
UNITS	WET WEIGHT	NYSDEC	mg/Kg	mg/Kg	mg/L	mg/L	mg/L
	DETECTION	ACTION					
	LIMIT	LEVEL					
PARAMETER							
METHANOL	0.5	---	ND	ND	ND	ND	ND

NOTES

- A solid laboratory method blank had methanol detected at 0.63 mg/Kg. All positive results are less than five times this blank concentration and as such would be qualified as nondetected.
- All solid sample results are in dry weight concentrations.

KEY

ND = Not Detected
 --- = Not Applicable
 mg/Kg = Microgram per Kilogram
 ug/L = Microgram per Liter

UJ = Qualified nondetected and estimated
 U = Qualified nondetected

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			UO5-SB1-01	UO5-SB1-02	UO5-SB2-01	UO5-SB2-02	UO5-SB3-01
SAMPLE INTERVAL:			12-13'	13-14'	12-13'	13-14'	12-13'
LABORATORY SAMPLE ID:			93075003	93075004	93075005	93075006	93075007
DATE SAMPLED:			5-17-93	5-17-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:			5-21-93	5-21-93	5-24-93	5-24-93	5-24-93
% SOLIDS:			90.7	89.8	89.7	89.9	89.8
DILUTION FACTOR(S):			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
BENZENE	20	60	ND	ND	23	ND	ND
TOLUENE	20	1500	ND	ND	61	ND	ND
ETHYL BENZENE	20	5500	ND	ND	22	ND	ND
TOTAL XYLENES	30	1200	ND	ND	97	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.

KEY

ND = Not Detected
 — = Not Applicable
 mg/Kg = Microgram per Kilogram
 ug/L = Microgram per Liter

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			UO5-SB3-02	UO6-SB1-01	UO6-SB1-02	UO6-SB2-01	UO6-SB2-02
SAMPLE INTERVAL:			13-14'	12-13'	13-14'	12-13'	13-14'
LABORATORY SAMPLE ID:			93075008	93075001	93075002	93075009	93075010
DATE SAMPLED:			5-18-93	5-17-93	5-17-93	5-18-93	5-18-93
DATE EXTRACTED:			5-24-93	5-21-93	5-21-93	5-24-93	5-24-93
% SOLIDS:			90.3	90.2	89.9	90.8	90.4
DILUTION FACTOR(S):			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
BENZENE	20	60	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND
ETHYL BENZENE	20	5500	ND	ND	ND	ND	ND
TOTAL XYLENES	30	1200	ND	ND	ND	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.

KEY

ND = Not Detected
 --- = Not Applicable
 mg/Kg = Microgram per Kilogram
 ug/L = Microgram per Liter

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U07-SB1-01	U07-SB1-02	U07-SB2-05	U07-SB2-06	U07-SB2-07
SAMPLE INTERVAL:			12-13'	13-14'	12-13'	13-14'	13-14'
LABORATORY SAMPLE ID:			93073510	93073511	93066115	93066116	93066117
DATE SAMPLED:			5-17-93	5-17-93	5-3-93	5-3-93	5-3-93
DATE EXTRACTED:			5-21-93	5-21-93	5-8-93	5-8-93	5-8-93
% SOLIDS:			90.7	89.3	90.3	90.3	90.4
DILUTION FACTOR(S):			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
BENZENE	20	60	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND
ETHYL BENZENE	20	5500	ND	ND	ND	ND	ND
TOTAL XYLENES	30	1200	ND	ND	ND	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.
- Sample U07-SB2-07 is a field duplicate of U07-SB2-06.

KEY

ND = Not Detected
 — = Not Applicable
 mg/Kg = Microgram per Kilogram
 ug/L = Microgram per Liter

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U07-SB3-01	U07-SB3-02	U08-SB1-07	U08-SB1-08	U08-SB2-01
SAMPLE INTERVAL:			12-13'	13-14'	12-13'	13-14'	11-12'
LABORATORY SAMPLE ID:			93075012	93075013	93078001	93078002	93078005
DATE SAMPLED:			5-18-93	5-18-93	5-24-93	5-24-93	5-24-93
DATE EXTRACTED:			5-24-93	5-25-93	5-27-93	5-27-93	5-27-93
% SOLIDS:			91	90.9	90.5	90.4	89.5
DILUTION FACTOR(S):			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
BENZENE	20	60	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND
ETHYL BENZENE	20	5500	ND	ND	ND	ND	ND
TOTAL XYLENES	30	1200	ND	ND	ND	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.

KEY

- ND = Not Detected
- = Not Applicable
- mg/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U11-SB1-02	U11-SB2-01	U11-SB2-02	U11-SB3-03	U11-SB3-04
SAMPLE INTERVAL:			9-10'	8-9'	9-10'	8-9'	9-10'
LABORATORY SAMPLE ID:			93075106	93075103	93075104	93075014	93075015
DATE SAMPLED:			5-19-93	5-19-93	5-19-93	5-18-93	5-18-93
DATE EXTRACTED:			5-25-93	5-25-93	5-25-93	5-28-93	5-25-93
% SOLIDS:			88.7	90.2	89.7	90.1	85.1
DILUTION FACTOR(S):			5X	5X	5X	5X	5X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
BENZENE	20	60	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND
ETHYL BENZENE	20	5500	ND	ND	ND	ND	ND
TOTAL XYLENES	30	1200	ND	ND	ND	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.

KEY

- ND = Not Detected
- = Not Applicable
- mg/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U11-SB3-05	U11-SB4-03	U11-SB4-04	TB-01	RB-02
SAMPLE INTERVAL:			9-10'	8-9'	9-10'	---	---
LABORATORY SAMPLE ID:			93075016	93075101	93075102	93066118	93066120
DATE SAMPLED:			5-18-93	5-19-93	5-19-93	5-3-93	5-3-93
DATE EXTRACTED:			5-25-93	5-25-93	5-25-93	5-8-93	5-8-93
% SOLIDS:			89.7	90.8	90.5	---	---
DILUTION FACTOR(S):			5X	5X	5X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L
PARAMETER							
BENZENE	20	60	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND
ETHYL BENZENE	20	5500	ND	ND	ND	ND	ND
TOTAL XYLENES	30	1200	ND	ND	ND	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.
- Sample U11-SB3-05 is a field duplicate of U11-SB3-04.
- Samples beginning with "TB" are trip blanks and samples beginning with "RB" are rinsate blanks.

KEY

ND = Not Detected
 --- = Not Applicable
 mg/Kg = Microgram per Kilogram
 ug/L = Microgram per Liter

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			RB-14	TB-08	RB-15	TB-09	RB-16
SAMPLE INTERVAL:			---	---	---	---	---
LABORATORY SAMPLE ID:			93073508	93073509	93075011	93075017	93075109
DATE SAMPLED:			5-17-93	5-17-93	5-18-93	5-18-93	5-19-93
DATE EXTRACTED:			5-21-93	5-21-93	5-24-93	5-24-93	5-25-93
% SOLIDS:			---	---	---	---	---
DILUTION FACTOR(S):			1X	1X	1X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
BENZENE	20	60	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND
ETHYL BENZENE	20	5500	ND	ND	ND	ND	ND
TOTAL XYLENES	30	1200	ND	ND	ND	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.
- Samples beginning with "TB" are trip blanks and samples beginning with "RB" are rinsate blanks.

KEY

ND = Not Detected
 --- = Not Applicable
 mg/Kg = Microgram per Kilogram
 ug/L = Microgram per Liter

TABLE 3-12
VOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			TB-10	RB-17	TB-11	RB-19	TB-13
SAMPLE INTERVAL:			----	----	----	----	----
LABORATORY SAMPLE ID:			93075114	93076313	93076314	93078009	93078010
DATE SAMPLED:			5-19-93	5-20-93	5-20-93	5-24-93	5-24-93
DATE EXTRACTED:			5-25-93	5-26-93	5-26-93	5-27-93	5-27-93
% SOLIDS:			----	----	----	----	----
DILUTION FACTOR(S):			1X	1X	1X	1X	1X
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER							
BENZENE	20	60	ND	ND	ND	ND	ND
TOLUENE	20	1500	ND	ND	ND	ND	ND
ETHYL BENZENE	20	5500	ND	ND	ND	ND	ND
TOTAL XYLENES	30	1200	ND	ND	ND	ND	ND

NOTES

- The soil detection limits provided have the 5X dilution incorporated.
- Detection limits for the aqueous blanks are the same as the wet weight limits for soils in units of ug/L.
- All solid sample results are in dry weight concentrations.
- Samples beginning with "TB" are trip blanks and samples beginning with "RB" are rinsate blanks.

KEY

ND = Not Detected
 ---- = Not Applicable
 mg/Kg = Microgram per Kilogram
 ug/L = Microgram per Liter

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:	UO5-SB1-01	UO5-SB1-02	UO5-SB2-01	UO5-SB2-02	UO5-SB3-01
SAMPLE INTERVAL:	12-13'	13-14'	12-13'	13-14'	12-13'
LABORATORY SAMPLE ID:	93075003	93075004	93075005	93075006	93075007
DATE SAMPLED:	5-17-93	5-17-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93	5-25-93	5-24-93
% SOLIDS:	90.7	89.8	89.7	89.9	89.8
DILUTION FACTOR(S):	1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg
PARAMETER					
ACENAPHTHENE	330	50000	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	356 J
CHRYSENE	330	400	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND
PYRENE	330	50000	ND	ND	ND
CARBAZOLE	330	---	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			UO5-SB3-02	UO6-SB1-01	UO6-SB1-02	UO6-SB2-01	UO6-SB2-02
SAMPLE INTERVAL:			13-14'	12-13'	13-14'	12-13'	13-14'
LABORATORY SAMPLE ID:			93075008	93075001	93075002	93075009	93075010
DATE SAMPLED:			5-18-93	5-17-93	5-17-93	5-18-93	5-18-93
DATE EXTRACTED:			5-24-93	5-25-93	5-25-93	5-25-93	5-25-93
% SOLIDS:			90.3	90.2	89.9	90.8	90.4
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	ND	ND	ND
CHRYSENE	330	400	ND	ND	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND	ND	ND
PYRENE	330	50000	ND	ND	ND	ND	ND
CARBAZOLE	330	----	ND	ND	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U07-SB1-01	U07-SB1-02	U07-SB2-05	U07-SB2-06	U07-SB2-07
SAMPLE INTERVAL:			12-13'	13-14'	12-13'	13-14'	13-14'
LABORATORY SAMPLE ID:			93073510	93073511	93066115	93066116	93066117
DATE SAMPLED:			5-17-93	5-17-93	5-3-93	5-3-93	5-3-93
DATE EXTRACTED:			5-21-93	5-21-93	5-7-93	5-7-93	5-7-93
% SOLIDS:			90.7	89.3	90.3	90.3	90.4
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	ND	4,097	354 J
CHRYSENE	330	400	ND	ND	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND	ND	ND
PYRENE	330	50000	ND	ND	ND	ND	ND
CARBAZOLE	330	---	ND	ND	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.
- Sample U07-SB2-07 is a field duplicate of U07-SB2-06.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U07-SB3-01	U07-SB3-02	U08-SB1-07	U08-SB1-08	U08-SB2-01
SAMPLE INTERVAL:			12-13'	13-14'	12-13'	13-14'	11-12'
LABORATORY SAMPLE ID:			93075012	93075013	93078001	93078002	93078005
DATE SAMPLED:			5-18-93	5-18-93	5-24-93	5-24-93	5-24-93
DATE EXTRACTED:			5-25-93	5-25-93	6-2-93	6-2-93	6-2-93
% SOLIDS:			91	90.9	90.5	90.4	89.5
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	ND	ND	ND
CHRYSENE	330	400	ND	ND	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND	ND	ND
PYRENE	330	50000	ND	ND	ND	ND	ND
CARBAZOLE	330	---	ND	ND	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U08-SB2-02	U08-SB3-01	U08-SB3-02	U08-SB4-01	U08-SB4-02
SAMPLE INTERVAL:			12-13'	11-12'	12-13'	12-13'	13-14'
LABORATORY SAMPLE ID:			93078006	93078003	93078004	93078007	93078008
DATE SAMPLED:			5-24-93	5-24-93	5-24-93	5-24-93	5-24-93
DATE EXTRACTED:			6-2-93	6-2-93	6-2-93	6-2-93	6-2-93
% SOLIDS:			90.2	90.7	90.6	89.8	90.2
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	ND	ND	ND
CHRYSENE	330	400	ND	ND	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND	ND	ND
PYRENE	330	50000	ND	ND	ND	ND	ND
CARBAZOLE	330	---	ND	ND	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U09-SB1C-01	U09-SB1C-02	U09-SB2-01	U09-SB2-02	U09-SB3A-01
SAMPLE INTERVAL:			14-15'	15-16'	14-15'	15-16'	14-15'
LABORATORY SAMPLE ID:			93073506	93073507	93072313	93072314	93073501
DATE SAMPLED:			5-17-93	5-17-93	5-10-93	5-10-93	5-17-93
DATE EXTRACTED:			5-21-93	5-21-93	5-20-93	5-19-93	5-21-93
% SOLIDS:			89.1	89.1	82.5	88.7	87.5
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	ND	ND	ND
CHRYSENE	330	400	ND	ND	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND	ND	ND
PYRENE	330	50000	ND	ND	ND	ND	ND
CARBAZOLE	330	---	ND	ND	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U09-SB3A-02	U09-SB3A-03	U09-SB4-01	U09-SB4-02	U11-SB1-01
SAMPLE INTERVAL:			15-16.5'	15-16.5'	14-15'	15-16'	8-9'
LABORATORY SAMPLE ID:			93073502	93073503	93073504	93073505	93075105
DATE SAMPLED:			5-17-93	5-17-93	5-17-93	5-17-93	5-19-93
DATE EXTRACTED:			5-21-93	5-21-93	5-21-93	5-21-93	5-25-93
% SOLIDS:			89.6	89.8	91.0	87.7	90.6
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	209 J	ND	ND
ANTHRACENE	330	50000	ND	ND	484	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	626	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	725	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	462	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	516	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	209 J	ND	ND
CHRYSENE	330	400	ND	ND	516	ND	ND
FLUORANTHENE	330	50000	ND	ND	1,978	ND	ND
FLUORENE	330	50000	ND	ND	209 J	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	220 J	ND	ND
PHENANTHRENE	330	50000	ND	ND	1,648	ND	ND
PYRENE	330	50000	ND	ND	1,648	ND	ND
CARBAZOLE	330	---	ND	ND	176 J	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.
- Sample U09-SB3A-03 is a field duplicate of U09-SB3A-02.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U11-SB1-02	U11-SB2-01	U11-SB2-02	U11-SB3-03	U11-SB3-04
SAMPLE INTERVAL:			9-10'	8-9'	9-10'	8-9'	9-10'
LABORATORY SAMPLE ID:			93075106	93075103	93075104	93075014	93075015
DATE SAMPLED:			5-19-93	5-19-93	5-19-93	5-18-93	5-18-93
DATE EXTRACTED:			5-25-93	5-25-93	5-25-93	5-28-93	5-25-93
% SOLIDS:			88.7	90.2	89.7	90.1	85.1
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	ND	ND	ND
CHRYSENE	330	400	ND	ND	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND	ND	ND
PYRENE	330	50000	ND	ND	ND	ND	ND
CARBAZOLE	330	---	ND	ND	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			U11-SB3-05	U11-SB4-03	U11-SB4-04	RB-14	RB-15
SAMPLE INTERVAL:			9-10'	8-9'	9-10'	---	---
LABORATORY SAMPLE ID:			93075016	93075101	93075102	93073508	93075011
DATE SAMPLED:			5-18-93	5-19-93	5-19-93	5-17-93	5-18-93
DATE EXTRACTED:			5-25-93	5-25-93	5-25-93	5-24-93	5-24-93
% SOLIDS:			89.7	90.8	90.5	---	---
DILUTION FACTOR(S):			1	1	1	1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L
PARAMETER							
ACENAPHTHENE	330	50000	ND	ND	ND	ND	ND
ANTHRACENE	330	50000	ND	ND	ND	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND	ND	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND	ND	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND	ND	18	ND
CHRYSENE	330	400	ND	ND	ND	ND	ND
FLUORANTHENE	330	50000	ND	ND	ND	ND	ND
FLUORENE	330	50000	ND	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND	ND	ND	ND
PHENANTHRENE	330	50000	ND	ND	ND	ND	ND
PYRENE	330	50000	ND	ND	ND	ND	ND
CARBAZOLE	330	---	ND	ND	ND	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.
- Sample U11-SB3-05 is a field duplicate of U11-SB3-04.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 3-13
SEMIVOLATILE ORGANIC
CONCENTRATIONS DETECTED IN
UNDERGROUND STORAGE TANK SOILS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

FIELD SAMPLE ID:			RB-16	RB-19
SAMPLE INTERVAL:			----	----
LABORATORY SAMPLE ID:			93075109	93078009
DATE SAMPLED:			5-19-93	5-24-93
DATE EXTRACTED:			5-24-93	5-27-93
% SOLIDS:			----	----
DILUTION FACTOR(S):			1	1
UNITS	WET WEIGHT DETECTION LIMIT	NYSDEC ACTION LEVEL	ug/L	ug/L
<u>PARAMETER</u>				
ACENAPHTHENE	330	50000	ND	ND
ANTHRACENE	330	50000	ND	ND
BENZO(a)ANTHRACENE	330	MDL	ND	ND
BENZO(k)FLUORANTHENE	330	1100	ND	ND
BENZO(a)PYRENE	330	MDL	ND	ND
BENZO(g,h,i)PERYLENE	330	50000	ND	ND
BIS(2-ETHYLHEXYL)PHTHAL.	330	50000	ND	ND
CHRYSENE	330	400	ND	ND
FLUORANTHENE	330	50000	ND	ND
FLUORENE	330	50000	ND	ND
INDENO(1,2,3-cd)PYRENE	330	32000	ND	ND
PHENANTHRENE	330	50000	ND	ND
PYRENE	330	50000	ND	ND
CARBAZOLE	330	----	ND	ND

NOTES

- Bis(2-ethylhexyl)phthalate results should be considered as nondetected due to field and lab blank contamination.
- Action levels listed as "MDL" are less than the detection limit.
- Positive detections have been corrected to dry weight.
- Aqueous blank detection limits are 1/33 of soil limits reported.
- Samples beginning with "RB" are rinsate blanks.

KEY

- ND = Not Detected
- ug/Kg = Microgram per Kilogram
- ug/L = Microgram per Liter
- = Not Applicable
- J = Value is estimated since it is reported below the CRQL

TABLE 4-1
Areas For Further Investigation
Supplemental Sampling Visit Investigation

Philips Display Components Company
Seneca, Falls New York

SOILS

<u>Area Of Concern</u>	<u>Constituents of Interest</u>
HO1-SB2	Cadmium, Lead, Zinc
HO2-SB1	Cis-1,2,-Dichloroethene
HO2-SB2, HO2-SB3	Cis-1,2,-Dichloroethene Chromium, Lead, Zinc, Fluoride
HO2-SB4	Cadmium, Chromium, Lead, Zinc
HO3-SB6	Chromium, Lead, Zinc
HO3-SB1	Cadmium, Lead, Zinc
HO4-SB1	Cis-1,2,-Dichloroethene
HO4-SB2	Cadmium, Zinc
HO5-SB1	Cis-1,2,-Dichloroethene
HO6-SB2	Cis-1,2,-Dichloroethene
HO7-SB3	Cadmium, Lead, Zinc
UST U09	Chrysene, benzo(a)anthracene, benzo(a)pyrene

TABLE 4-2

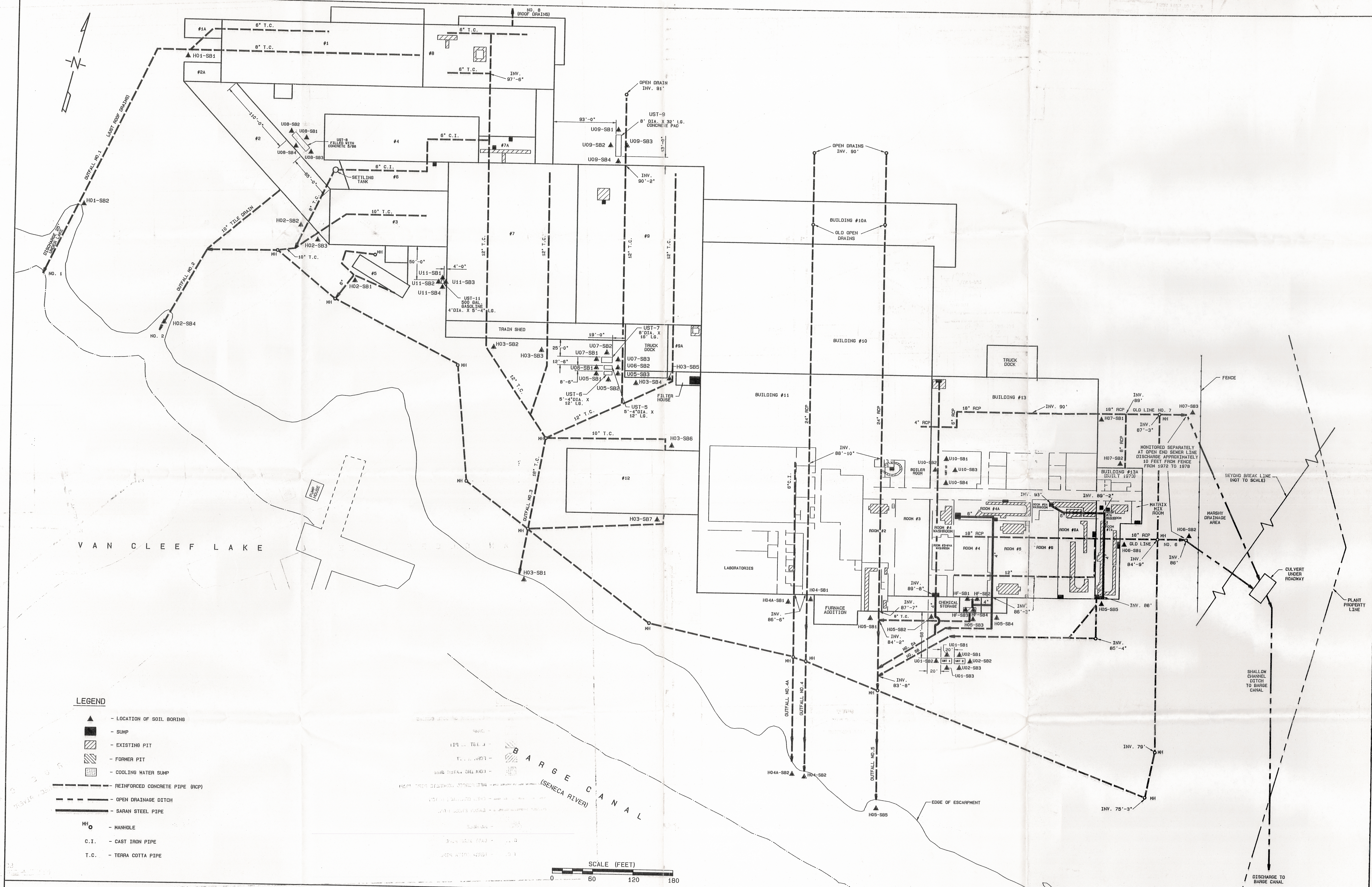
**Areas For Further Investigation
Supplemental Sampling Visit Investigation**

**Philips Display Components Company
Seneca, Falls New York**

GROUNDWATER

<u>Area Of Concern</u>	<u>Constituents of Interest</u>
MW-20	Vinyl Chloride Cis-1,2,-Dichloroethene 1,2,-Dichloroethene (total)
MW-22	Cis-1,2,-Dichloroethene 1,2,-Dichloroethene (total) Trichloroethene
MW-23	Cis-1,2,-Dichloroethene 1,2,-Dichloroethane Trichloroethene 1,2-Dichloroethene (total)
MW-24	Halogenated/Aromatic Organics
MW-25	Halogenated/Aromatic Organics
MW-26	Vinyl Chloride Cis-1,2,-Dichloroethene 1,2,-Dichloroethane Trichloroethene
MW-29	Halogenated/Aromatic Organics





LEGEND ▲ - LOCATION OF SOIL BORING ■ - SUMP ▨ - EXISTING PIT ▩ - FORMER PIT ▧ - COOLING WATER SUMP --- - REINFORCED CONCRETE PIPE (RCP) - - - - - OPEN DRAINAGE DITCH - - - - - SARAN STEEL PIPE MH ○ - MANHOLE C.I. - CAST IRON PIPE T.C. - TERRA COTTA PIPE		SCALE (FEET) 0 60 120 180		DRAWN BY: R. WINNERS DATE: 03/10/92 CHECKED BY: 4/22/92 APPROVED BY:		CHESTER ENVIRONMENTAL This drawing and all information thereon is the property of CHESTER ENVIRONMENTAL and is confidential and must not be made public or copied unless authorized by it and is subject to return upon demand.		FIGURE 1-1 SITE LOCATION MAP PHILIPS DISPLAY COMPONENTS SENECA FALLS, NEW YORK		ACTIVITY NO.: 288788 SCALE: 1"=60' REVISION:	
				REV. DESCRIPTION 1 4/22/92				A107489		0	

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-20

GROUND ELEVATION: 486.21

WELL ELEVATION: 485.81

ELEV. DATUM: FEET MSL

WELL DEPTH: 14

DATUM: FEET BGS

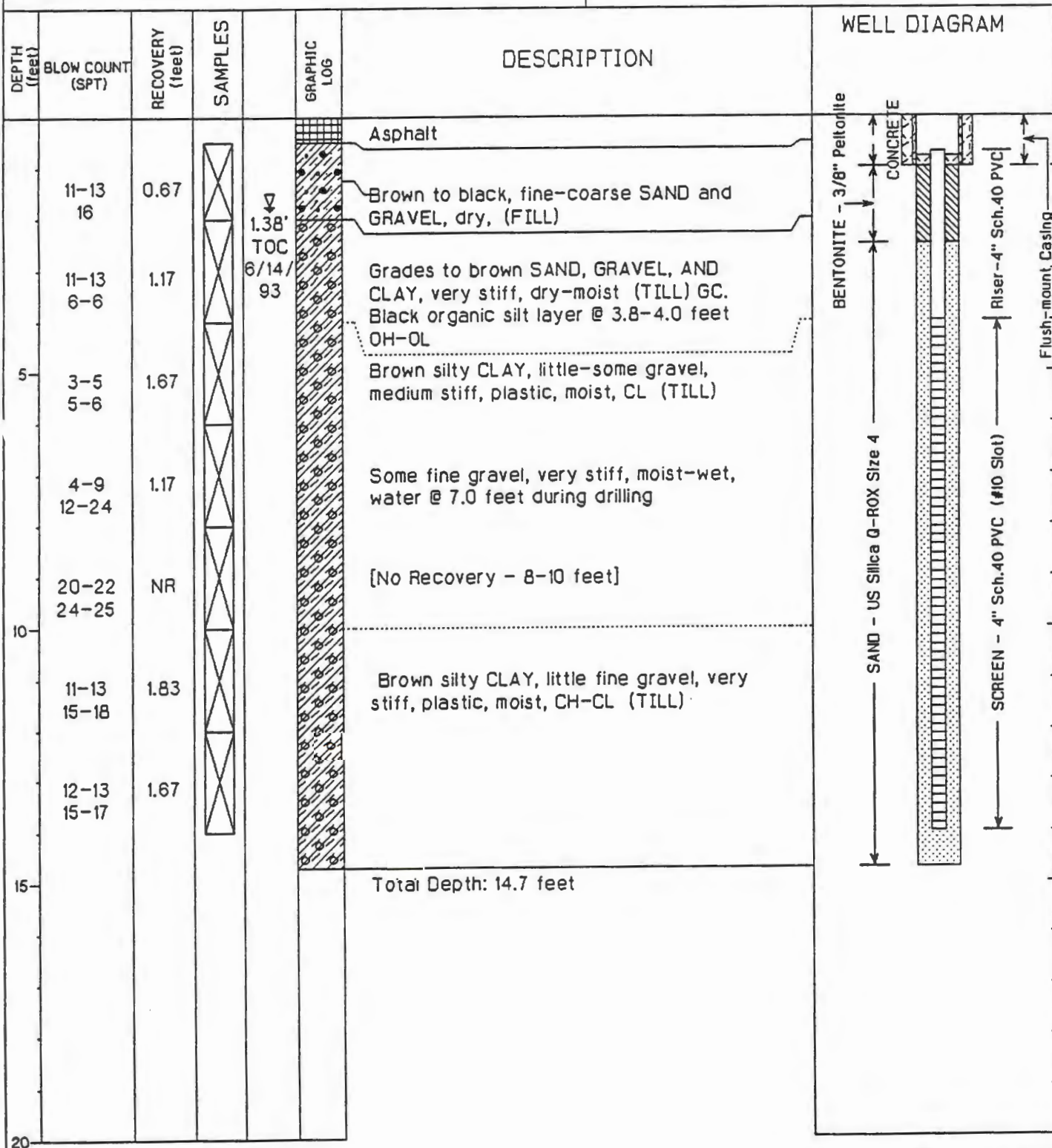
DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 4 MAY, 1993

GEOLOGIST: MIKE MEYER



PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-21

GROUND ELEVATION: 470.03

WELL ELEVATION: 469.58

ELEV. DATUM: FEET MSL

WELL DEPTH: 21.8

DATUM: FEET BGS

DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

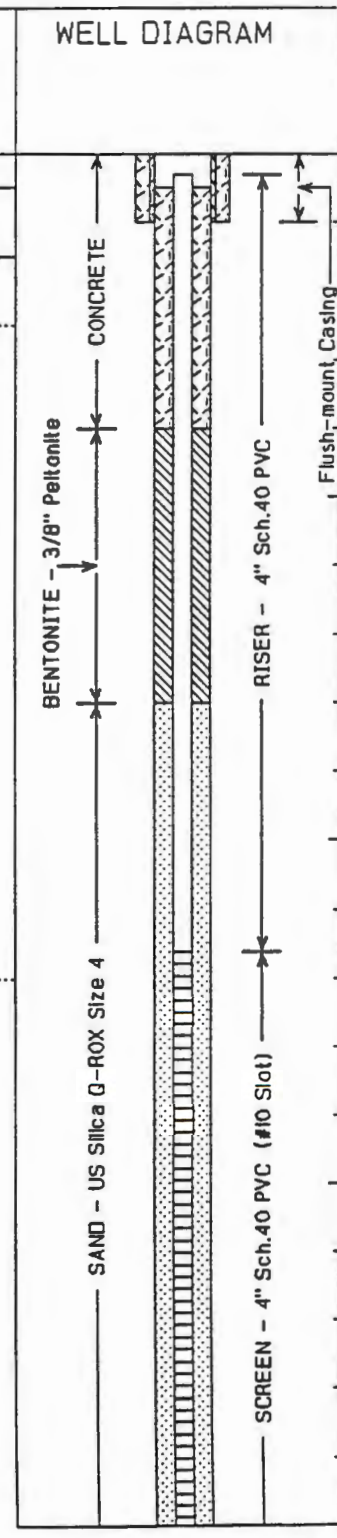
DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 4-5 MAY, 1993

GEOLOGIST: MIKE MEYER

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
					Asphalt	
4-4 9		0.33		2.06' TOC 6/14/ 93	Brown to black, silty SAND and GRAVEL, dry, SM-GM (FILL)	
9-9 11-13		1.00			Brown CLAY, some fine gravel, dry, CH-CL (TILL)	
9-9 11-10		NR			Brown, silty CLAY, little-some fine, round-subangular gravel, very stiff, dry-moist, CH-CL (TILL)	
6-7 11-16		2.00				
15-15 10-11		1.50				
10-11 13-14		0.33				
4-5 5-5		1.50			Reddish-brown to purple-brown, silty CLAY, little fine gravel, medium stiff, very plastic, moist-wet, CH (TILL)	
1-2 2-3		1.67			Soft, very sticky, very plastic, wet, CH	
1-2 1-2		0.67				
3-3 3-4		0.33				



PROJECT: SUPPLEMENTAL SAMPLING VISIT

LOCATION: SENECA FALLS, NEW YORK

CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-21

GROUND ELEVATION: 470.03

WELL ELEVATION: 469.58

ELEV. DATUM: FEET MSL

WELL DEPTH: 21.8

DATUM: FEET BGS

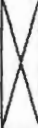
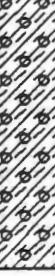
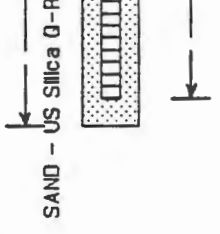
DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 4-5 MAY, 1993

GEOLOGIST: MIKE MEYER

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
	2-2 4-5	1.67			Trace-little, fine gravel, CL-CH (TILL)	
	3-5 6-7	2.00			WELL SET IN DRY HOLE	
25					Total Depth: 24 feet	
30						
35						
40						

PROJECT: SUPPLEMENTAL SAMPLING VISIT

LOCATION: SENECA FALLS, NEW YORK

CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-22

GROUND ELEVATION: 463.33

WELL ELEVATION: 462.93

ELEV. DATUM: FEET MSL

WELL DEPTH: 15

DATUM: FEET BGS

DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 5 MAY, 1993

GEOLOGIST: MIKE MEYER

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
					Asphalt	
6-6 4		1.00			Gray, silty CLAY, some fine gravel and coarse sand, medium stiff, dry, CL (FILL)	
10-4 4-4		0.33			Brown, clayey SILT, some fine-coarse sand, medium stiff, dry, ML (FILL)	
4-10 10-15		0.83			Brown-gray, silty CLAY, trace-little coarse sand and fine gravel, very stiff, dry (almost fissile), CL (FILL)	
7-10 11-12		1.17		6.62' TOC 6/14 93	Brown, silty CLAY, little fine subrounded gravel, very stiff, moist, organic odor, CH-CL (TILL)	
10-10 10-17		1.33			[Subangular-subrounded gravel]	
3-6 7-10		1.33			[Stiff, drilled on cobble or boulder @ 11.0 feet, water @ 12 feet during drilling]	
8-12 14-17		1.67			[Very Stiff, moist-wet]	
4-7 11-13		1.50				
4-5 9-13		NR			Total Depth: 16 feet	

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-23

GROUND ELEVATION: 463.44

WELL ELEVATION: 463.04

ELEV. DATUM: FEET MSL

WELL DEPTH: 19

DATUM: FEET BGS

DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 6-7 MAY, 1993

GEOLOGIST: MIKE MEYER

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
					Asphalt	
6-4 4		0.33			Fine-coarse SAND and GRAVEL, dry, (FILL)	
9-10 10-20		1.67			Brown CLAY, some fine gravel, CL (TILL)	
5				3.52' TOC 6/14/ 93	Brown, silty CLAY, little fine gravel and trace coarse sand, very stiff, plastic, moist, CL-CH (TILL) [Medium stiff, plastic, moist-wet]	
5-5 6-10		0.67				
6-7 9-12		1.00			[Some gravel and sand sluff, very stiff, plastic]	
5-8 8-14		1.67				
10					[Brown, silty fine SAND layer @ 11.2-11.6 feet, wet SM]	
4-8 8-16		1.67				
3-3 3-4		2.00			Brown, silty CLAY, little fine sand, trace-little fine gravel, soft-medium stiff, very plastic, moist-wet, CL (TILL)	
15						
2-2 2-4		1.67				
1-1 3-4		1.67				
2-2 3-4		2.00				

Total Depth: 20 feet

WELL LOG: MW-23

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-24

GROUND ELEVATION: 465.23

WELL ELEVATION: 464.78

ELEV. DATUM: FEET MSL

WELL DEPTH: 24.5

DATUM: FEET BGS

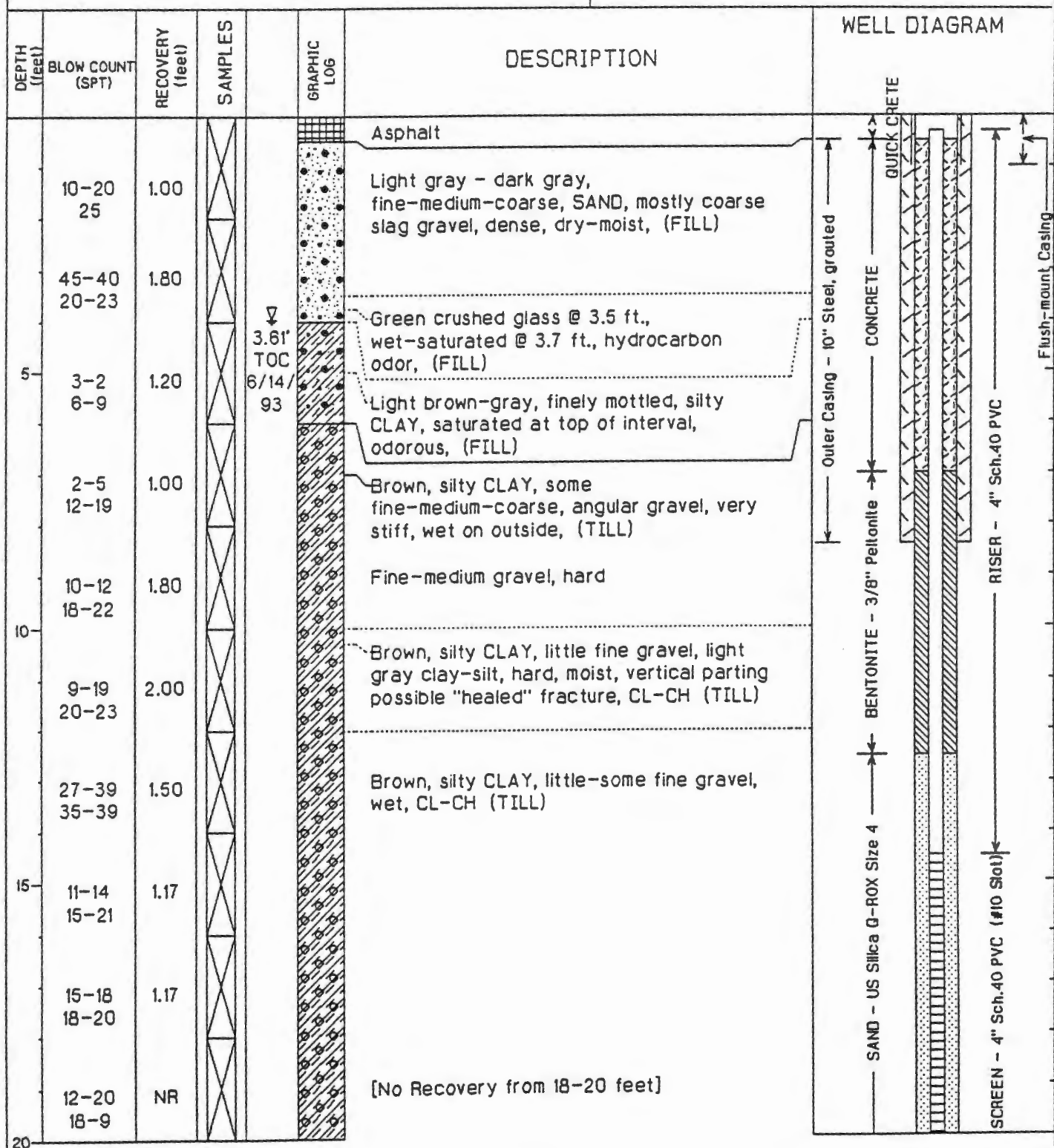
DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 4.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 10 JUNE, 1993

GEOLOGIST: MIKE MEYER



WELL LOG: MW-24

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

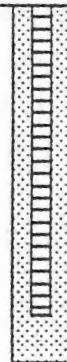
WELL LOG: MW-24

GROUND ELEVATION: 485.23
 WELL ELEVATION: 484.78 ELEV. DATUM: FEET MSL
 WELL DEPTH: 24.5 DATUM: FEET BGS
 DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 4.25-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 DATE DRILLED: 10 JUNE, 1993
 GEOLOGIST: MIKE MEYER

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
	5-6 8-10	1.17			[Stiff, saturated, slight hydrocarbon odor]	
	7-8 10-15	NR			[No recovery from 22-24 feet]	
25	3-4 5-6	1.67			Brown, silty CLAY, trace-little fine gravel, medium stiff, very plastic, saturated, CH (TILL)	
Total Depth: 26 feet						
30						
35						
40						

SAND - US Silica Q-ROX Size 4



WELL LOG: MW-24

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-25

GROUND ELEVATION: 460.29

WELL ELEVATION: 462.94

ELEV. DATUM: FEET MSL

WELL DEPTH: 16

DATUM: FEET BGS

DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 11 MAY, 1993

GEOLOGIST: MARK SHAHEEN

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
10-8 12-9	1.2				FILL MATERIAL - slag gravel	
11-6 10-11	1.7				Grayish brown silty CLAY, some fine to coarse gravel, very stiff, moist, slightly plastic, (CL), TILL	
7-9 11-11	1.0				Brown silty CLAY as above, wet @ 5 feet	
3-8 12-18	0.8				Brown silty CLAY as above, moderate plasticity (CL/CH)↓	
9-12 18-18	1.4				moist	
7-10 12-17	1.6				wet @ 11.5 feet	
7-11 29-75	1.8				moist	
9-12 17-20	1.7				wet @ 15.5 feet	
4-9 12-14	1.4				Silty CLAY as above, becoming grayer (grayish brown), wet	
9-8 10-15	1.6					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-26

GROUND ELEVATION: 461.69
 WELL ELEVATION: 461.09
 WELL DEPTH: 15
 DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

ELEV. DATUM: FEET MSL

DATUM: FEET BGS

DRILLING METHOD: 8.25-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 DATE DRILLED: 12 MAY, 1993
 GEOLOGIST: MARK SHAHEEN

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
					Asphalt	
3-4-5	1.1				Grayish brown silty CLAY, some fine to medium gravel, medium stiff, moist, (CL)	
3-2 2-5	1.6				Grayish brown silty CLAY as above, wet @ 3.5 feet	
3-5 5-4	1.4				Brown silty CLAY as above, stiff, soft wet and sandy @ 5 to 6 feet, (SC/CL)	
4-5 7-8	2.0			6.13' TOC 6/14/93	fine sand seam @ 6.5 to 7 feet, fracture @ 60' in that zone, another fine sand seam @ 7.5 to 7.6 feet (SC/CL)	
4-6 8-10	1.8					
3-6 9-12	1.2				clayey SILT @ 10.5 to 11 feet (ML/CL)	
6-10 12-14	1.4				Brown silty CLAY as above, very stiff, fine sand seam @ 30' @ 13 feet, saturated	
3-4 7-8	0					
					Total depth: 16 feet	

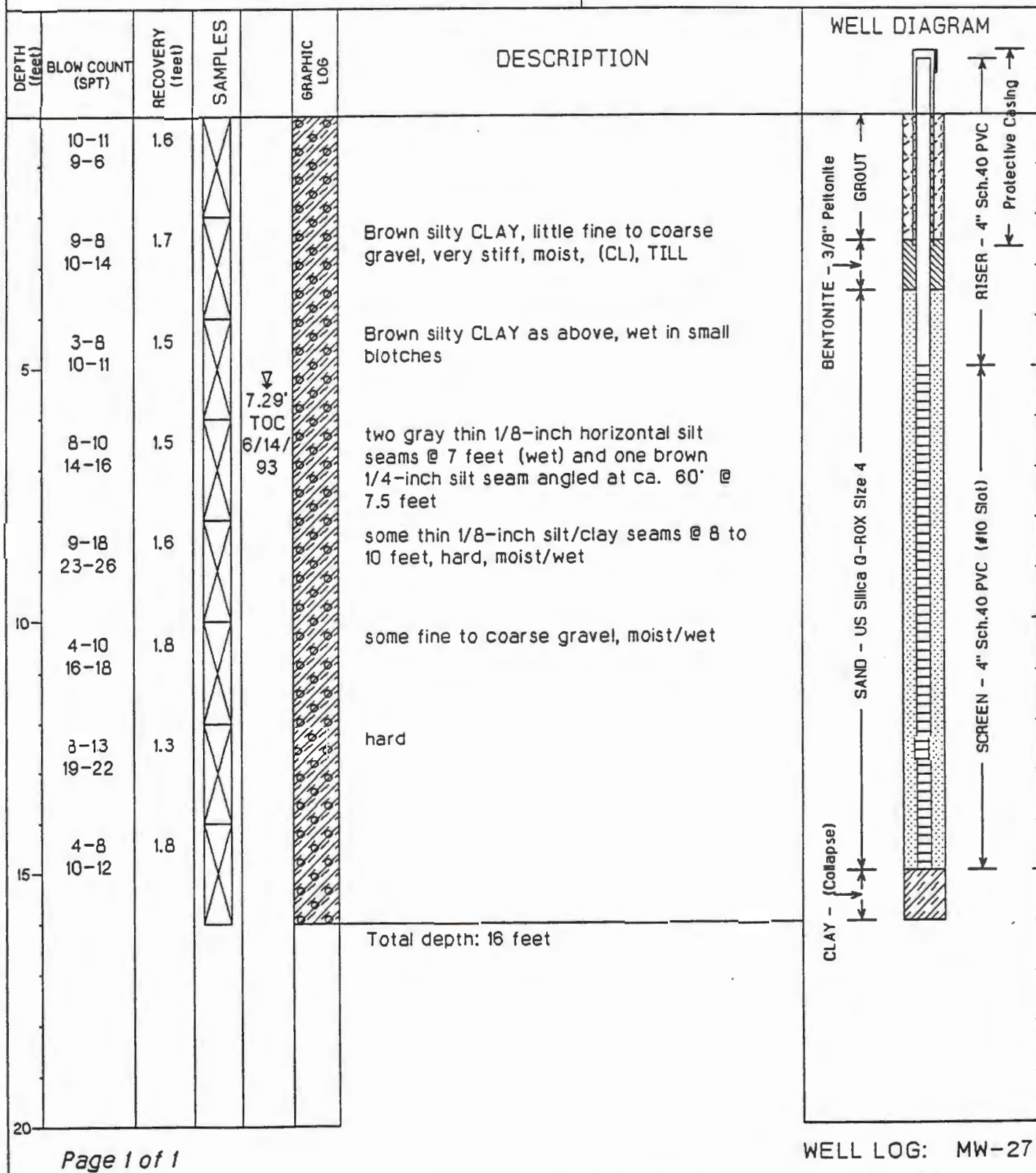
WELL LOG: MW-26

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-27

GROUND ELEVATION: 460.57
 WELL ELEVATION: 462.67 ELEV. DATUM: FEET MSL
 WELL DEPTH: 15 DATUM: FEET BGS
 DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 DATE DRILLED: 12 MAY, 1993
 GEOLOGIST: MARK SHAHEEN



PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-28

GROUND ELEVATION: 461.13
 WELL ELEVATION: 463.48
 WELL DEPTH: 15.5
 DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 DATE DRILLED: 3-4 JUNE, 1993
 GEOLOGIST: MIKE MEYER

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
					Top soil, sandy SILT, little clay, moist, organics SM	WELL DIAGRAM Labels in diagram: BENTONITE - 3/8" Peltonite, CONCRETE, SAND - US Silica G-ROX Size 4, SCREEN - 4" Sch. 40 PVC (#10 Slot), RISER - 4" Sch. 40 PVC, Protective Casing.
5-10 11-8		2.00			Brown, silty CLAY, some fine-coarse gravel, very stiff, dry, trace organics, CL-CH (TILL)	
5-4 4-5		1.50			Brown, silty CLAY, trace-little fine gravel, medium stiff, moist, CL-CH (TILL)	
5 3-2 1-2		0.67		6.62' TOC 6/14/93	[Brown-dark brown]	
2-5 8-10		0.58			[Brown, stiff]	
6-11 15-20		2.00			Brown, silty CLAY, little fine-medium sand, little fine gravel, very stiff, moist-wet, CL (TILL)	
7-9 20-18		1.17			Brown, silty CLAY, trace fine sand, trace-little fine gravel, very stiff-hard, plastic, moist, CL-CH (TILL)	
27-18 28-31		1.58			[Trace coarse gravel, hard, plastic, moist-wet]	
15 18-22 26-33		2.00			Brown, silty CLAY, little-some fine gravel, hard, plastic, wet, CL-CH (TILL)	
					Total Depth: 16 feet	

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

WELL LOG: MW-29

GROUND ELEVATION: 480.03

WELL ELEVATION: 482.17

ELEV. DATUM: FEET MSL

WELL DEPTH: 18

DATUM: FEET BGS

DEVELOPMENT METHOD: SURGE AND PURGE - BAILER

DRILLING METHOD: 6.25-INCH I.D. HOLLOW STEM AUGER

DRILLER: EMPIRE SOILS INVESTIGATION

DATE DRILLED: 3-4 JUNE, 1993

GEOLOGIST: MIKE MEYER

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION	WELL DIAGRAM
5-12 10-7	1.17				Top soil, sandy SILT, little clay, moist, organics	WELL DIAGRAM Casing Protective RISER - 4" Sch.40 PVC CONCRETE BENTONITE - 3/8" Peltonite SAND - US Silica Q-ROX Size 4 SCREEN - 4" Sch.40 PVC (#10 Slot)
4-6 8-9	0.67				Dark brown, silty CLAY, little fine gravel, very stiff, dry, organics, CL	
5-8 9-14	NR				Brown, silty CLAY, little fine gravel, stiff, dry to 3 feet, moist at 3-4 feet, CL-CH (TILL)	
14-44 44-43	0.58				[No Recovery from 4-6 feet]	
12-18 20-26	2.00				[Driving on cobble, poor recovery from 6-8 feet]	
18-18 19-23	1.83				Brown, silty CLAY, little fine gravel, hard, dry-moist, (TILL)	
18-18 17-19	1.33				[Light brown, wet-saturated]	
18-25 31-35	1.00					
6-11 13-18	1.67				Brown, silty CLAY, little fine gravel and trace coarse gravel, very stiff, plastic, wet, (TILL)	
16-19 22-25	0.25				[Poor Recovery from 18-20 feet]	

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H01-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 11 DEPTH DATUM: FEET BGS
 DATE DRILLED: 27 May, 1993

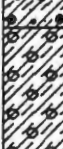
DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Auger to 2 feet, hit top of pipe? - move over 1.5 feet south - auger to 3 feet, collect samples
					FILL MATERIAL - Black silt and gravel to 3 feet (logged from auger cuttings)
2-1 2-3	1.6				
5					
4-3 4-3	1.3				FILL MATERIAL - Grayish brown clay and silt, little fine to medium gravel, trace wood fibers, soft, wet, black sand and silt size cinders @ 6.0 to 6.2 feet
1-2 3-4	1.8				
					Base of fill material
5-4 5-7	1.8				Brown silty CLAY, little fine to medium gravel, trace coarse gravel, medium stiff, wet/ saturated, (CL),
10					
					Total depth: 11 feet
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H02-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 5.5 DEPTH DATUM: FEET BGS
DATE DRILLED: 26 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
	2-2 4-5	1.8			FILL MATERIAL - Brownish gray to gray clay and silt and gravel wet to moist [measured bottom of drainpipe in catch basin @ 1.5 feet] Wood in sample @ 3 feet.
	5-8 12-14	1.9			Estimated base of fill material Grayish brown (upper 1 foot) to brown (lower 1 foot) silty CLAY, little fine to medium gravel, trace coarse gravel, very stiff, moist/wet, (CL)
5					Total depth: 5.5 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H02-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 7 DEPTH DATUM: FEET BGS
 DATE DRILLED: 26 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Auger to 5 feet
					FILL MATERIAL - Brown topsoil and silty clay, wet
					FILL MATERIAL - Black fine to coarse gravel, saturated
					Estimated base of fill material (determined from auger cuttings)
5	3-5-12-18 3-6-8-14 3-4-6-14	0.4 1.8* 1.8*			Brown silty CLAY, little fine to medium gravel, trace coarse gravel, very stiff, wet, (CL)
					Total depth: 7 feet
10					
15					
20					

* problems with recovery, moved 1.5 feet south for second boring, another 1.5 feet south for the third (collected duplicate sample there)

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H02-SB3

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 8 DEPTH DATUM: FEET BGS
 DATE DRILLED: 28 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Auger to 2 feet
					FILL MATERIAL - Brown topsoil and silty clay
	1-1 1-2	0.5			Black fine to coarse gravel, very loose, saturated, hydrocarbon odor and oily sheen
					Base of fill material
5	2-2 2-5	1.2			Brown silty CLAY, little fine to medium gravel, trace coarse gravel, soft at top of interval, hardness increasing with depth, wet, (CL), dark gray staining at top of interval, staining, odor and moisture content decreasing with depth
	5-10 10-14	0.8			
					Total depth: 8 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H03-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 8 DEPTH DATUM: FEET BGS
DATE DRILLED: 28 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
	6-8 7-9	1.8			FILL MATERIAL - Local brown silty clay
5	3-5 7-10	2.0			Estimated base of fill material
					Brown silty CLAY, little fine, medium to coarse gravel, stiff, moist, wet in spots, (CL),
					Total depth: 6 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H03-SB3

DRILLING METHOD: 2.25-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MIKE MEYER

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 10 DEPTH DATUM: FEET BGS
 DATE DRILLED: 3 June, 1993

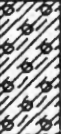
DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	HNU (ppm)	USCS Group Symbol	GRAPHIC LOG	DESCRIPTION
							Asphalt
	8-10 11	NR					[No Recovery 0.5-2.0' due to rock blocking spoon]
	8-10 11-12	1.50					Brown silty CLAY, trace-little fine gravel, very stiff, plastic, moist-wet, CL-CH (TILL)
5	12-12 13-16	1.67					Brown silty CLAY, little-some gravel, little sand, wet, FILL
	12-14 16-16	1.67					[Moist, angular gravel]
	14-15 21-21	1.50					Brown silty CLAY, little, fine, subrounded gravel, hard, CL-CH (TILL)
10							Total Depth: 10 feet
15							
20							

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H03-SB4

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 8 DEPTH DATUM: FEET BGS
 DATE DRILLED: 28 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
	5-4 4-3	1.2			FILL MATERIAL - Gray to brownish gray clay, silt and gravel, loose, wet
					Estimated base of fill material
5	5-7 9-11	1.8			Brown silty CLAY, little to some fine, medium to coarse gravel, very stiff, moist, (CL), one green weathered rock 1.5-inch dia. @ 4.5 feet (loose med-grain sand), wet @ 5.5 feet.
					Total depth: 6 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H03-SB5

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 8 DEPTH DATUM: FEET BGS
 DATE DRILLED: 25 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
					FILL MATERIAL - Gray silt/clay, wood splinters, soft
	4-3 3-4	1.8			Base of fill material
	5-7 6-10	1.8			Brown silty CLAY, trace to little fine to medium gravel, stiff, wet/saturated, (CL), 1/2-inch layer of sand @ 4.5 feet.
5	9-11 10-30	0			Large piece of gravel (natural) in sampler shoe - no recovery
					Total depth: 8 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H03-SB6

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 8 DEPTH DATUM: FEET BGS
 DATE DRILLED: 27 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
	2-15 9-5	0.8			FILL MATERIAL - Brown silty CLAY (top soil), grass at surface, little fine to medium gravel, moist, one dark gray spot (stain?) @ 3.5 feet.
	5-7 10-14	1.6			Estimated base of fill material
5	8-14 17-20	1.7			Brown CLAY, some silt, trace fine to medium gravel, hard, moist, large pink mottles, (CL/CH),
					Total depth: 6 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H03-SB7

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 8 DEPTH DATUM: FEET BGS
 DATE DRILLED: 27 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
	3-7 5-3	1.1			
	2-1 2-2	0.9			FILL MATERIAL - Brown silty clay and gravel, moist, wet @ 4 feet, clay and hardness increasing
5	3-4 6-10	1.6			Base of fill material
	8-12 13-15	1.8			Brown silty CLAY, little fine to medium gravel, trace coarse gravel, moist, multi-colored mottling (variegated) at top of interval and decreasing with depth, (CL/CH)
					Total depth: 8 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H04-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 11 DEPTH DATUM: FEET BGS
 DATE DRILLED: 25 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5	1-1 2-2	1.0			FILL MATERIAL - Local clay and gravel, soft
	2-2 10/0	1.0			Hit 24-inch RCP @ 7 feet - move over, auger to 9 feet, collect sample
					Estimated base of fill material
10	4-5 8-10	2.0			Brown silty CLAY, trace to little fine to medium gravel, stiff, moist, (CL), some gray silt seams and dark brown stained fractures.
					Total depth: 11 feet
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H05-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 10 DEPTH DATUM: FEET BGS
DATE DRILLED: 21 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5	2-3 3-6	2.0			FILL MATERIAL - Local clay and gravel
	5-6 9-10	2.0			[measured bottom of 24-inch RCP in manhole @ 8.5 feet below ground]
	5-7 10-14	2.0			Base of fill material
10					Brown silty CLAY, little fine to medium gravel, very stiff, moist, (CL)
15					Total depth: 10 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H05-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 8 DEPTH DATUM: FEET BGS
 DATE DRILLED: 21 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt Concrete
					FILL MATERIAL - Local clay and gravel
5	4-5 6-8	2.0			Base of fill material
	9-12 18-18	1.7			Brown silty CLAY, little fine to medium gravel, very stiff to hard, moist, wet around gravel, (CL), TILL
					Total depth: 8 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H05-SB3

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 8 DEPTH DATUM: FEET BGS
DATE DRILLED: 21 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
					FILL MATERIAL - Dark gray to black sand, clay and gravel (logged from auger cuttings)
					Estimated base of fill material
5	8-10 12-15	2.0			Brown silty CLAY, little fine, medium and coarse gravel, very stiff, moist, wet @5.8 feet, (CL), TILL
					Total depth: 6 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H05-SB4

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 8 DEPTH DATUM: FEET BGS
DATE DRILLED: 21 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
					FILL MATERIAL - Dark gray to black sand, clay and gravel (logged from auger cuttings)
					Estimated base of fill material
5	10-11 19-15	2.0			Brown silty CLAY, little fine, medium and coarse gravel, very stiff, moist, (CL), TILL
					Total depth: 6 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H05-SB6

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 8 DEPTH DATUM: FEET BGS
DATE DRILLED: 21 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					FILL MATERIAL - Local clay and gravel (logged from auger cuttings)
5	6-7 13-14	1.8			Base of fill material
	22-20 25-25	1.6			Brown silty CLAY, little fine to medium gravel, very stiff to hard, moist, (CL), TILL
					Total depth: 8 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H06-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 7 DEPTH DATUM: FEET BGS
DATE DRILLED: 20 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					FILL MATERIAL - Local clay and gravel (logged from auger cuttings)
					Estimated base of fill material
5	4-5 16-16	1.8			Brown silty CLAY little fine to medium gravel, moist, (CL), TILL, peach colored mottles
					Total depth: 7 feet
10					
15					
20					

BORING NUMBER: H07-SB1

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 8 DEPTH DATUM: FEET BGS
DATE DRILLED: 20 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5	7-9 12-16	1.8			FILL MATERIAL - Local clay and gravel - Hit top of 18-inch RCP @ 2.5 feet, move over 1 foot, auger to 4 feet, collect sample Estimated base of fill material Brown silty CLAY, (TILL) Total depth: 6 feet

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: H07-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 8 DEPTH DATUM: FEET BGS
DATE DRILLED: 20 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					FILL MATERIAL - Local clay and gravel
					Estimated base of fill material (from H07-SB1)
5	8-10 15-13	2.0			Brown silty CLAY little fine, medium and coarse gravel, very stiff, moist, (CL), TILL
					Total depth: 6 feet
10					
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U01-SB3

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 13 DEPTH DATUM: FEET BGS
DATE DRILLED: 20 May, 1993

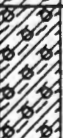
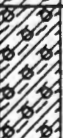
DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					Brown silty CLAY (logged from auger cuttings)
10					Base of adjacent tank (from tank specifications)
15-15	0.8		⊗		Brown silty CLAY, little fine to medium gravel, trace coarse gravel, hard, moist, (CL), TILL.
70-70	1.0		⊗		
					Total depth: 13 feet
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U02-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 13 DEPTH DATUM: FEET BGS
DATE DRILLED: 19 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					Brown silty CLAY (logged from auger cuttings)
10					Base of adjacent tank (from tank specifications)
	3-4	0.6			Brown silty CLAY, little fine to medium gravel, stiff, wet, (CL), small piece of 1/16-inch stainless steel cable in 11 to 12 foot sample, may have been carried down with augers.
	5-8	0.8			
15					Total depth: 13 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U02-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 13 DEPTH DATUM: FEET BGS
 DATE DRILLED: 20 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					Grayish brown clayey fine SAND (logged from auger cuttings)
10					Base of adjacent tank (from tank specifications)
	WOR WOH	1.0	⊗		Grayish brown clayey fine SAND, some silt, little fine to medium gravel, soft, saturated, (ML)
	WOH 4	1.0	⊗		clay content increasing @ 12.5 feet, stiff and plastic (CL)
					Total depth: 13 feet
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U05-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 14 DEPTH DATUM: FEET BGS
 DATE DRILLED: 18 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5					Brown silty CLAY (logged from auger cuttings)
					Base of adjacent tank excavation (from U07-SB2)
	5-5	0.8			Brown silty CLAY, little fine, medium and trace coarse gravel, very stiff, moist, (CL), TILL.
	4-7	1.0			
15					Total depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U05-SB3

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 14 DEPTH DATUM: FEET BGS
DATE DRILLED: 18 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5					Brown silty CLAY (logged from auger cuttings)
					Base of adjacent tank excavation (from U07-SB2)
8-10	8-10	1.0			Brown silty CLAY, little fine, medium and trace coarse gravel, very stiff, wet/moist, (CL), TILL.
10-12	10-12	1.0			
15					Total depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U06-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 14 DEPTH DATUM: FEET BGS
DATE DRILLED: 17 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5					Brown silty CLAY (logged from auger cuttings)
10					Base of adjacent tank excavation (from U07-SB2)
	6-9	1.0			Brown silty CLAY, little fine, medium and trace coarse gravel, very stiff, moist, wet at 13.6 feet, (CL), TILL.
	10-11	1.0			
15					Total depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U06-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 14 DEPTH DATUM: FEET BGS
 DATE DRILLED: 18 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5					Brown silty CLAY (logged from auger cuttings)
					Base of adjacent tank excavation (from U07-SB2)
	3-3	1.0			Grayish brown silty CLAY, little fine, medium and trace coarse gravel, medium stiff to stiff, wet, (CL), thin 1/8" yellowish brown silt seam running vertically through sample.
	5-6	1.0			
15					Total depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U07-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 14 DEPTH DATUM: FEET BGS
DATE DRILLED: 17 May, 1993

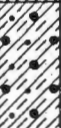
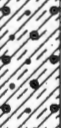
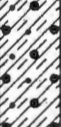
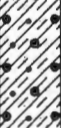
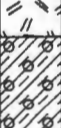
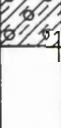
DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5					Brown silty CLAY (logged from auger cuttings)
10					Base of adjacent tank excavation (from U07-SB2)
10-12	1.0	1.0			Brown silty CLAY, little fine, medium and trace coarse gravel, very stiff, moist, (CL), TILL.
12-15	1.0	1.0			
15					Total depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U07-SB2

DRILLING METHOD: 2.25-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MIKE MEYER

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 14 DEPTH DATUM: FEET BGS
 DATE DRILLED: 3 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
	6-3 3-4	1.17			Brown SAND and gravel, dry, GP-SP, (FILL)
	2-1 1-2	NR			[No Recovery 2.5 to 4.5' sample, wet spoon tip]
5	2-3 5-5	0.67			Gray fine-coarse SAND and fine gravel, little silt, saturated, hydrocarbon odor, (FILL)
	5-5 5-5	1.00			
	1-1 1-2	0.50			Brown fine-coarse SAND, little silt, saturated, hydrocarbon odor, (FILL)
10	50/0.0"	NR			[Spoon Refusal - apparent concrete base]
	11-13	0.50			Brown silty CLAY, trace coarse sand and fine gravel, moist-wet, odor, CH-CL (TILL)
	12-17	1.00			
15					Total Depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U07-SB3

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 14 DEPTH DATUM: FEET BGS
DATE DRILLED: 18 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
					Brown silty CLAY (logged from auger cuttings)
5					
10					
					Base of adjacent tank excavation (from U07-SB2)
	10-11	1.0			Brown silty CLAY, little fine, medium and trace coarse gravel, very stiff, moist, wet at 12.8 feet, (CL), TILL.
	11-15	1.0			
15					Total depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U08-SB1

DRILLING METHOD: TRIPOD AND 2-INCH SPLIT-SPOON SAMPLER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 14 DEPTH DATUM: FEET BGS
 DATE DRILLED: 24 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
4-9 10-7	0.3				
4-4 4-5	1.2				
3-3 4-3	0.5				FILL MATERIAL - Brown clay, gravel, clayey sand, trace wood fibers and fragments, soft
2-2 2-1	0.6				
1-2 2-2	0.8				
3-4 4-10	1.8				Base of fill material
10-20 28-35	2.0				Brown silty CLAY, little fine to medium gravel, hard, moist, (CL), TILL.
					Total depth: 14 feet

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U08-SB2

DRILLING METHOD: TRIPOD AND 2-INCH SPLIT-SPOON SAMPLER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 13 DEPTH DATUM: FEET BGS
 DATE DRILLED: 24 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					FILL MATERIAL - Brown clay, gravel, clayey sand, trace wood fibers and fragments, soft (based on U08-SB1)
10					Base of fill material
15-25 40-40	2.0				Brown silty CLAY, little fine to medium gravel, hard, moist, (CL), TILL.
20					Total depth: 13 feet

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U09-SB1C

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 17 DEPTH DATUM: FEET BGS
 DATE DRILLED: 17 May, 1993

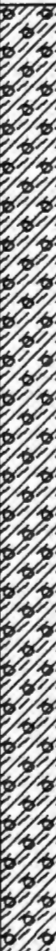
DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					FILL MATERIAL - Local clay and gravel (logged from auger cuttings)
10					Estimated base of adjacent tank excavation
15	3-5	0.8	X		Brown silty CLAY, some fine sand, trace fine, medium and coarse gravel, medium stiff to soft, wet, (CL),
	3-2 3-3	2.0	X		becoming slightly grayer and softer @ 16 feet, sand content decreasing to trace.
20					Total depth: 17 feet Borings U09-SB1, SB1A, SB1B abandoned due to sample recovery and location problems, U09-SB1C final position 4 feet south of original location.

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U09-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 18 DEPTH DATUM: FEET BGS
 DATE DRILLED: 15 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					FILL MATERIAL - Local clay and gravel (logged from auger cuttings)
10					
15	3-7 5-6	1.0 1.0			Estimated base of adjacent tank excavation Brown silty CLAY, little medium to coarse gravel, trace fine gravel, stiff, wet, (CL). 1-inch thick fine sand seam dipping at $\pm 60^\circ$ @15.5 feet.
20					Total depth: 16 feet

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U09-SB3A

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 17 DEPTH DATUM: FEET BGS
 DATE DRILLED: 17 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					FILL MATERIAL - Local clay and gravel (logged from auger cuttings)
10					
15	1-4	1.0			Estimated base of adjacent tank excavation
	5-5 5-5	2.0	 		Grayish brown silty CLAY, some fine sand, little fine, medium and coarse gravel, medium stiff, wet, (SC/CL), soft and sandy @ 14 to 14.5 foot interval.
20					Total depth: 17 feet Boring U09-SB3 encountered top of UST at 4.5 feet; this boring abandoned and U09-SB3A located 4 feet to the south

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U09-SB4

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 17 DEPTH DATUM: FEET BGS
 DATE DRILLED: 17 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					FILL MATERIAL - Local clay and gravel (logged from auger cuttings)
10					
15	2-5	0.6			Estimated base of adjacent tank excavation
	10-10 8-8	2.0			Brown silty CLAY, some fine sand, trace fine, medium and coarse gravel medium stiff to very stiff, wet, (CL/SW)
					medium to coarse sand and fine gravel @ 15.8 to 16 foot interval, becoming grayish brown with a trace fine sand @ 16.5 feet.
20					Total depth: 17 feet

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U08-SB3

DRILLING METHOD: TRIPOD AND 2-INCH SPLIT-SPOON SAMPLER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 13 DEPTH DATUM: FEET BGS
 DATE DRILLED: 24 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					FILL MATERIAL - Brown clay, gravel, clayey sand, trace wood fibers and fragments, soft (based on U08-SB1)
10					Base of fill material
10-23 23-30	1.8				Brown silty CLAY, little fine to medium gravel, hard, moist, (CL), TILL.
15					Total depth: 13 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U08-SB4

DRILLING METHOD: TRIPOD AND 2-INCH SPLIT-SPOON SAMPLER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 14 DEPTH DATUM: FEET BGS
DATE DRILLED: 24 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
5					FILL MATERIAL - Brown clay, gravel, clayey sand, trace wood fibers and fragments, soft (based on U08-SB1)
10					Base of fill material
12-20	4-9	1.8			Brown silty CLAY, little fine to medium gravel, very stiff, moist, (CL), TILL.
15					Total depth: 14 feet
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U11-SB0

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
DRILLER: EMPIRE SOILS INVESTIGATION
GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
ELEVATION DATUM: FEET MSL
BORING DEPTH: 13 DEPTH DATUM: FEET BGS
DATE DRILLED: 18 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
					FILL MATERIAL - Gray clay and gravel (logged from auger cuttings)
5					FILL MATERIAL - clay and gravel as above, stained dark gray and hydrocarbon odor in the 4 to 8 foot interval
					Estimated base of tank excavation
10					Grayish brown silty CLAY, saturated, appears to be natural material
					Brown silty CLAY
15					Total depth: 13 feet
					This boring was advanced at the center of the previous underground storage tank (gasoline - 500 gallon, 4 feet dia., 5.3 feet long) location. The purpose of the boring was to locate the depth of the concrete hold down pad to determine the base of the currently removed tank. The concrete pad was not encountered within 13 feet of the ground surface indicating that there was none. Based on results of this boring and borings U11-SB3 and U11-SB4, the base of the tank excavation is estimated to be 6 to 8 feet below the ground.
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
LOCATION: SENECA FALLS, NEW YORK
CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U11-SB1

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER

GROUND ELEVATION:

DRILLER: EMPIRE SOILS INVESTIGATION

ELEVATION DATUM: FEET MSL

GEOLOGIST: MARK SHAHEEN

BORING DEPTH: 10

DEPTH DATUM: FEET BGS

DATE DRILLED: 19 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5					Brown silty CLAY (logged from auger cuttings)
	5-13	0.4			Estimated base of adjacent tank excavation (from U11-SB0, SB3 and SB4)
	9-8	1.0			Brown silty CLAY, some fine to medium gravel, trace coarse gravel (one piece approx. 1.5 inches in dia.), very stiff, wet, (CL)
10					Total depth: 10 feet
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U11-SB2

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 10 DEPTH DATUM: FEET BGS
 DATE DRILLED: 19 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
					Brown silty CLAY, (logged from auger cuttings)
5					
	8-6	0.7			Estimated base of adjacent tank excavation (from U11-SB0, SB3 and SB4)
	8-10	1.0			Brown silty CLAY, some fine to medium gravel, trace coarse gravel, stiff, wet, (CL)
10					Total depth: 10 feet
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U11-SB3

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 10 DEPTH DATUM: FEET BGS
 DATE DRILLED: 18 May, 1993

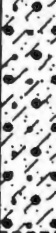
DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
5	3-3 7-8	2.0			Brown silty CLAY, little to some fine to medium gravel, trace coarse gravel, medium to very stiff, moist/wet, (CL), TILL, trace gray mottles and vertical silt seams @ 6 to 8 foot interval.
	12-18 22-23	1.8			Estimated base of adjacent tank excavation (from U11-SB0)
	4-6 9-10	2.0			
10					Total depth: 10 feet
15					
20					

PROJECT: SUPPLEMENTAL SAMPLING VISIT
 LOCATION: SENECA FALLS, NEW YORK
 CLIENT: PHILIPS DISPLAY COMPONENTS

BORING NUMBER: U11-SB4

DRILLING METHOD: 2.5-INCH I.D. HOLLOW STEM AUGER
 DRILLER: EMPIRE SOILS INVESTIGATION
 GEOLOGIST: MARK SHAHEEN

GROUND ELEVATION:
 ELEVATION DATUM: FEET MSL
 BORING DEPTH: 10 DEPTH DATUM: FEET BGS
 DATE DRILLED: 19 May, 1993

DEPTH (feet)	BLOW COUNT (SPT)	RECOVERY (feet)	SAMPLES	GRAPHIC LOG	DESCRIPTION
					Asphalt
					FILL MATERIAL - gray limestone gravel, sand and silt (logged from auger cuttings) dark gray staining and hydrocarbon odor near bottom of interval
5	3-4 8-12	1.8			Grayish brown fine sandy CLAY, wet, hydrocarbon odor
	17-17 16-18	0.2			Brown silty CLAY, little fine to medium gravel, very stiff to hard, wet, (CL), TILL, trace medium sand in 1/2-inch pockets @ 8 to 9 foot interval, hydrocarbon odor
					Estimated base of adjacent tank excavation (from U11-SB0)
	5-8	0.8			hydrocarbon odor in samples decreasing with depth, slightly noticeable in 9 to 10 foot sample
10	9-15	0.9			
					Total depth: 10 feet
15					
20					

APPENDIX B
EXFILTRATION TESTING RESULTS, WATER RESERVOIR TANKS

KEYSTONE ENVIRONMENTAL RESOURCES, INC.
FIELD DATA SHEET FOR GROUNDWATER SAMPLING

PLANT: <i>Philips-Seneca Falls</i>					DATE OF WATER LEVELS:				SAMPLED BY:				
PROJECT: <i>Cooling Water Tank</i>					DATE OF SAMPLING:				WEATHER:				
SAMPLING METHOD:													

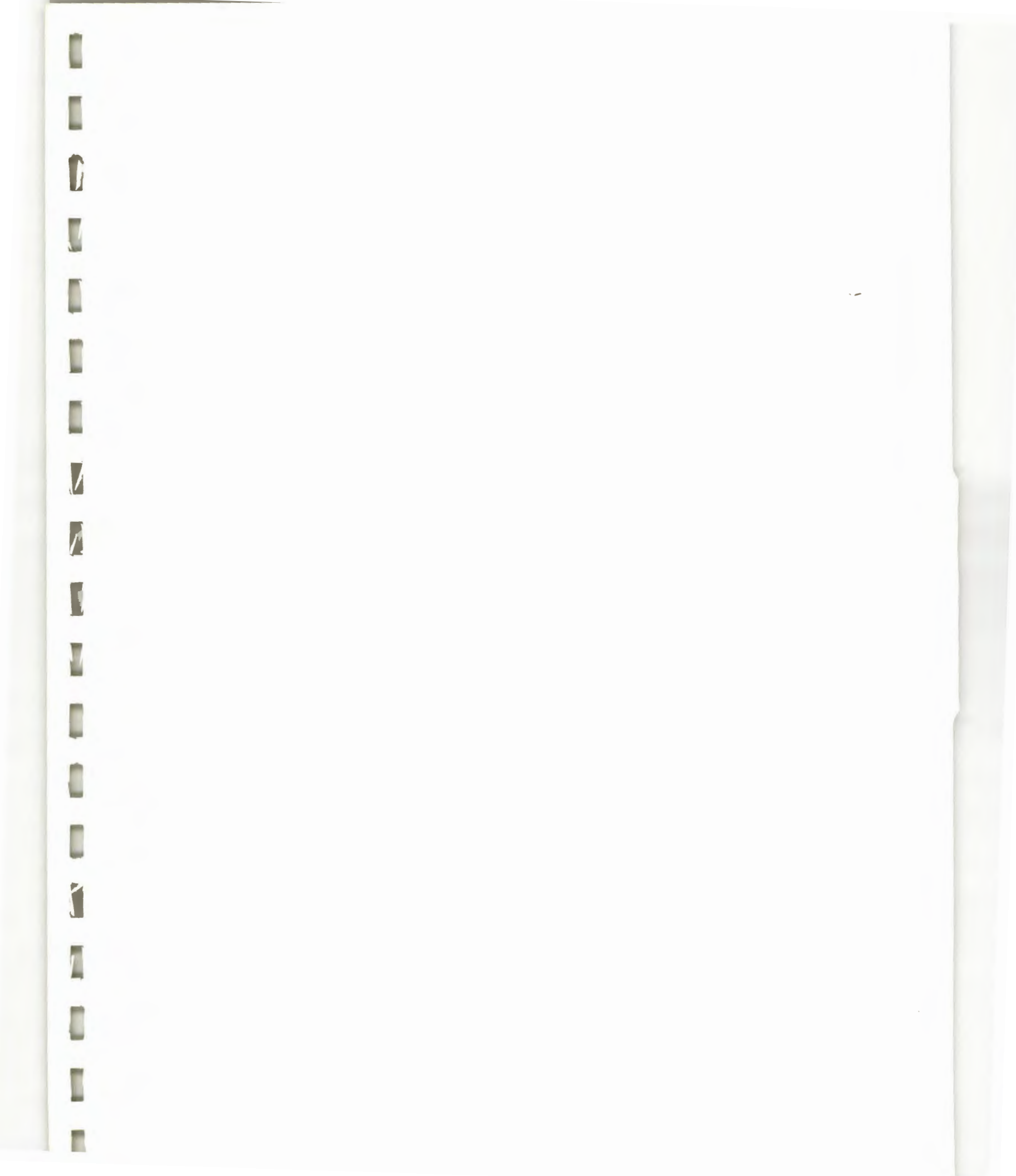
Site No.	Time	Well Dia. (in.)	Depth of Well (ft) (including stickup)	Depth to H ₂ O in Well (ft)	Depth of H ₂ O in Well (ft)	Number of Bails Removed	Dry at Number of Bails Removed	In-situ Measurements						
								pH (units)			Conductivity (umhos/cm)			Temp. (C°)
7/20	1540			2.71'										
7/21	0833			2.71'										
7/21	0927			2.71'										
7/21	1341			2.71'										
7/21	1600			2.71'										

SITE NO.	OBSERVATIONS

437. On

[illegible]

Mr. H. 555
Ch. 100
30-565 284e



APPENDIX C
ANALYTICAL RESULTS

BACKGROUND SOIL RESULTS

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK	BS-SB1-01	BS-SB1-03	BS-SB1-04
LABORATORY ID:	0661-MB	0661-MB	0661-01	0661-02	0661-03
DATE SAMPLED:			5/03/93	5/03/93	5/03/93
DATE ANALYZED:	5/21/93	5/21/93	5/21/93	5/21/93	5/21/93
% SOLID:	100%	LIQUID BLANK	80.3%	90.7%	90.9%
DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT ug/kg	RESULT ug/L	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg
CADMIUM METHOD 6010	1,000 U	5.00 U	1,660	1,100 U	1,270
CHROMIUM METHOD 6010	2,000 U	10.0 U	26,400	12,300	15,400
LEAD METHOD 6010	8,000 U	40.0 U	30,300	10,800	13,900
ZINC METHOD 6010	4,000 U	20.0 U	49,300	33,100	35,600
FLUORIDE METHOD 340.2		100 U	1,040	1,140	1,170

NOTE: FLUORIDE ANALYSIS PERFORMED 5/27/93.

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	BS-SB1-05	BS-SB1-06	BS-SB1-07	BS-SB1-08	BS-SB2-01
LABORATORY ID:	0661-04	0661-05	0661-06	0661-07	0661-08
DATE SAMPLED:	5/03/93	5/03/93	5/03/93	5/03/93	5/03/93
DATE ANALYZED:	5/21/93	5/21/93	5/21/93	5/21/93	5/21/93
% SOLID:	90.1%	89.2%	89.8%	89.5%	79.1%
DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg
CADMIUM METHOD 6010	1,080 U	1,080 U	1,070 U	1,070 U	1,240 U
CHROMIUM METHOD 6010	13,500	13,100	13,400	14,000	30,200
LEAD METHOD 6010	12,600	11,100	10,800	14,800	34,000
ZINC METHOD 6010	35,300	38,600	41,500	35,000	75,900
FLUORIDE METHOD 340.2	1,110	1,820	1,800	2,230	1,700

NOTE: FLUORIDE ANALYSIS PERFORMED 5/27/93.

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	BS-SB2-02	BS-SB2-03	BS-SB2-05	BS-SB2-06	BS-SB2-07
LABORATORY ID:	0661-09	0661-10	0661-11	0661-12	0661-13
DATE SAMPLED:	5/03/93	5/03/93	5/03/93	5/03/93	5/03/93
DATE ANALYZED:	5/21/93	5/21/93	5/21/93	5/21/93	5/21/93
% SOLID:	89.3%	90.0%	90.0%	90.1%	89.6%
DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg
CADMIUM METHOD 6010	1,090 U	1,070 U	1,090 U	1,110 U	1,110 U
CHROMIUM METHOD 6010	16,000	14,900	13,300	14,100	13,800
LEAD METHOD 6010	14,300	16,700	14,500	11,500	13,200
ZINC METHOD 6010	37,800	37,200	37,900	37,500	39,600
FLUORIDE METHOD 340.2	2,030	1,910	2,130	1,990	2,070

NOTE: FLUORIDE ANALYSIS PERFORMED 5/27/93.

000014

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	BS-SB2-08	RB-01	RB-03
LABORATORY ID:	0661-14	0661-19	0661-21
DATE SAMPLED:	5/03/93	5/03/93	5/03/93
DATE ANALYZED:	5/21/93	5/21/93	5/27/93
% SOLID:	89.8%	LIQUID SAMPLE	LIQUID SAMPLE
DILUTION FACTOR:	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/L	
CADMIUM METHOD 6010	1,070	U	5.00	U
CHROMIUM METHOD 6010	13,400		10.0	U
LEAD METHOD 6010	14,700		40.0	U
ZINC METHOD 6010	39,600		27.7 KMS 10/5/93	
FLUORIDE METHOD 340.2	2,300		100.0	U

NOTE: FLUORIDE ANALYSIS PERFORMED 5/27/93.

000015

MONITORING WELL SOILS

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW20-SB-03	MW20-SB-04	---
LABORATORY SAMPLE ID:	93066901	93066902	BLANK
DATE SAMPLED:	5-4-93	5-4-93	---
DATE EXTRACTED:	5-8-93	5-9-93	5-8-93
% SOLIDS:	82.1	89.3	---
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			MDL ug/kg
BENZENE	20	U		20	U		20	U		20
TOLUENE	20	U		20	U		20	U		20
ETHYL BENZENE	20	U		20	U		20	U		20
TOTAL XYLENES	30	U		30	U		30	U		30
STYRENE	30	U		30	U		30	U		30
CHLOROBENZENE	20	U		20	U		20	U		20
1,4-DICHLOROBENZENE	40	U		40	U		40	U		40
1,3-DICHLOROBENZENE	40	U		40	U		40	U		40
1,2-DICHLOROBENZENE	40	U		40	U		40	U		40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	89	60	101
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000003

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW23-SB-05	MW23-SB-06	MW24-SB-04	MW24-SB-05
LABORATORY SAMPLE ID:	93068703	93068704	93068705	93068706
DATE SAMPLED:	5-06-93	5-06-93	5-07-93	5-07-93
DATE EXTRACTED:	5-13-93	5-13-93	5-14-93	5-14-93
% SOLIDS:	88.9	90.0	84.7	90.7
DILUTION FACTOR(S):	1X	1X	1X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRIFLUOROTOLUENE(24/109)	126	104	91	65
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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW24-SB-06	---
LABORATORY SAMPLE ID:	93068707	BLANK
DATE SAMPLED:	5-07-93	---
DATE EXTRACTED:	5-14-93	5-13-93
% SOLIDS:	90.1	---
DILUTION FACTOR(S):	1X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20
TOLUENE _____	50		20	U	20
ETHYL BENZENE _____	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30
STYRENE _____	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A.-TRIFLUOROTOLUENE(24/109)	69	92
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000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 03

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-04	TB-02	—
LABORATORY SAMPLE ID:	93066903	93066904	BLANK
DATE SAMPLED:	5-4-93	5-4-93	—
DATE EXTRACTED:	5-8-93	5-8-93	5-8-93
% SOLIDS:	—	—	—
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRIFLUOROTOLUENE(68/124)	102	99	102
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000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 04

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	TB-03	RB-05	---
LABORATORY SAMPLE ID:	93068001	93068002	BLANK
DATE SAMPLED:	5-5-93	5-5-93	---
DATE EXTRACTED:	5-10-93	5-10-93	5-10-93
% SOLIDS:	---	---	---
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE -----	20	U	20	U	20	U	20
TOLUENE -----	20	U	20	U	20	U	20
ETHYL BENZENE -----	20	U	20	U	20	U	20
TOTAL XYLENES -----	30	U	30	U	30	U	30
STYRENE -----	30	U	30	U	30	U	30
CHLOROBENZENE -----	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE -----	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE -----	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE -----	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	92	97	100
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000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	TB-04	RB-06	RB-07	---
LABORATORY SAMPLE ID:	93068701	93068702	93068708	BLANK
DATE SAMPLED:	5-06-93	5-06-93	5-07-93	---
DATE EXTRACTED:	5-13-93	5-13-93	5-13-93	5-13-93
% SOLIDS:	---	---	---	---
DILUTION FACTOR(S):	1X	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	91	89	82	92
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000009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW24A-SB-04	MW24A-SB-05
LABORATORY SAMPLE ID:	93071307	93071308
DATE SAMPLED:	5-10-93	5-10-93
DATE EXTRACTED:	5-17-93	5-17-93
% SOLIDS:	83.7	90.5
DILUTION FACTOR(S):	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20
TOLUENE _____	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30
STYRENE _____	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRIFLUOROTOLUENE(24/109)	97	93
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000021

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW25-SB-02	MW25-SB-05	MW26-SB-03	MW26-SB-02
LABORATORY SAMPLE ID:	93071311	93071312	93071313	93071314
DATE SAMPLED:	5-11-93	5-11-93	5-11-93	5-11-93
DATE EXTRACTED:	5-18-93	5-18-93	5-18-93	5-18-93
% SOLIDS:	87.6	92.3	88.4	86.8
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRIFLUOROTOLUENE(24/109)	89	87	78	78
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000022

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW26-SB-06	---
LABORATORY SAMPLE ID:	93071315	BLANK
DATE SAMPLED:	5-11-93	---
DATE EXTRACTED:	5-18-93	5-17-93
% SOLIDS:	88.7	---
DILUTION FACTOR(S):	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20
TOLUENE	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30
STYRENE	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRIFLUOROTOLUENE(24/109)	82	99
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000023

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-09	TB-06	RB-10	—
LABORATORY SAMPLE ID:	93071309	93071310	93071320	BLANK
DATE SAMPLED:	5-10-93	5-10-93	5-11-93	—
DATE EXTRACTED:	5-18-93	5-18-93	5-18-93	5-17-93
% SOLIDS:	—	—	—	—
DILUTION FACTOR(S):	1X	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE —————	20	U	20	U	20	U	20	U	20
TOLUENE —————	20	U	20	U	20	U	20	U	20
ETHYL BENZENE —————	20	U	20	U	20	U	20	U	20
TOTAL XYLENES —————	30	U	30	U	30	U	30	U	30
STYRENE —————	30	U	30	U	30	U	30	U	30
CHLOROBENZENE —————	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE —————	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE —————	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE —————	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(68/124)	92	88	93	99
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000024

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 08

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW27-SB-02	MW27-SB-05
LABORATORY SAMPLE ID:	93072301	93072302
DATE SAMPLED:	5-12-93	5-12-93
DATE EXTRACTED:	5-20-93	5-20-93
% SOLIDS:	85.7	89.8
DILUTION FACTOR(S):	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20
TOLUENE	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30
STYRENE	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRIFLUOROTOLUENE(24/109)	88	96
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000027

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8020
PURGEABLE AROMATICS

FIELD SAMPLE ID:
LABORATORY SAMPLE ID:
DATE SAMPLED:
DATE EXTRACTED:
% SOLIDS:
DILUTION FACTOR(S):

MW28-SB-02
93083906
6-3-93
6-9-93
80.5
5X

PARAMETER	RESULT ug/kg	MDL ug/kg
BENZENE _____	20 U	20
TOLUENE _____	20 U	20
ETHYL BENZENE _____	20 U	20
TOTAL XYLENES _____	30 U	30
STYRENE _____	30 U	30
CHLOROBENZENE _____	20 U	20
1,4-DICHLOROBENZENE _____	40 U	40
1,3-DICHLOROBENZENE _____	40 U	40
1,2-DICHLOROBENZENE _____	40 U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)

85

000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	MW28-SB-05	MW29-SB-02	MW29-SB-05	---
LABORATORY SAMPLE ID:	93083907	93083908	93083909	BLANK
DATE SAMPLED:	6-3-93	6-3-93	6-3-93	---
DATE EXTRACTED:	6-9-93	6-9-93	6-9-93	6-8-93
% SOLIDS:	90.2	79.8	91.2	---
DILUTION FACTOR(S):	5X	5X	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	30		20	U	38		20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	92	97	96	100
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000008

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 03

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:		METHOD BLANK		METHOD BLANK		MW20-SB-03		MW20-SB-04		RB-04	
LABORATORY ID:		0669-MB		0669-MB		0669-01		0669-02		0669-03	
DATE SAMPLED:						5/04/93		5/04/93		5/04/93	
DATE ANALYZED:		5/25/93		5/25/93		5/25/93		5/25/93		5/25/93	
% SOLID:		100%		LIQUID BLANK		82.1%		89.3%		LIQUID	
DILUTION FACTOR:		1		1		1		1		1	
PARAMETER		RESULT		RESULT		RESULT		RESULT		RESULT	
		ug/kg		ug/L		ug/kg		ug/kg		ug/L	
CADMIUM METHOD 6010		1,000	U	5.00	U	1,218	U	1,257		5.00	U
CHROMIUM METHOD 6010		2,000	U	10.0	U	27,284		11,907		10.0	U
LEAD METHOD 6010		8,000	U	40.0	U	28,745		10,310		40.0	U
ZINC METHOD 6010		4,000	U	20.0	U	74,300		36,807		20.0	U
DATE ANALYZED:				5/27/93		5/27/93		5/27/93		5/27/93	
DILUTION FACTOR:				1		1		1		1	
FLUORIDE METHOD 340.2				100.0	U	2,070		2,440		100.0	U

000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK	RB-05	MW21-SB-04	MW21-SB-05
	LABORATORY ID:	0680-MB	0680-MB	0680-02	0680-03	0680-04
	DATE SAMPLED:			5/05/93	5/05/93	5/05/93
	DATE ANALYZED:	5/25/93	5/25/93	5/25/93	5/25/93	5/25/93
	% SOLID:	100%	LIQUID BLANK	LIQUID	89.3%	90.4%
	DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT		RESULT	RESULT	RESULT	RESULT
	ug/kg		ug/L	ug/L	ug/kg	ug/kg
CADMIUM METHOD 6010	1,000	U	5.00	U 12.3	1,109	U 1,074
CHROMIUM METHOD 6010	2,000	U	10.0	U 20.4	11,552	11,536
LEAD METHOD 6010	8,000	U	40.0	U 40.0	U 9,290	11,472
ZINC METHOD 6010	4,000	U	20.0	U 29.0	33,481	45,972
	DATE ANALYZED:		5/27/93	5/27/93	5/27/93	5/27/93
	DILUTION FACTOR:		1	1	1	1
FLUORIDE METHOD 340.2			100.0	U 100.0	U 1,020	1,390

000010

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	MW21-SB-06	MW22-SB-04	MW22-SB-05
LABORATORY ID:	0680-05	0680-06	0680-07
DATE SAMPLED:	5/05/93	5/05/93	5/05/93
DATE ANALYZED:	5/25/93	5/25/93	5/25/93
% SOLID:	89.9%	90.2%	90.5%
DILUTION FACTOR:			

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg	
CADMIUM METHOD 6010	1,112	U	1,087	U	1,105	U
CHROMIUM METHOD 6010	11,457		13,065		11,867	
LEAD METHOD 6010	10,011		14,739		10,608	
ZINC METHOD 6010	35,150		34,348		31,823	

DATE ANALYZED:	5/27/93	5/27/93	5/27/93
DILUTION FACTOR:	1	1	1

FLUORIDE METHOD 340.2	1,320	1,860	3,000
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000011

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 04

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:		METHOD BLANK		METHOD BLANK		RB-06		MW23-SB-05		MW23-SB-06	
LABORATORY ID:		0687-MB		0687-MB		0687-02		0687-03		0687-04	
DATE SAMPLED:						05/06/93		05/06/93		05/06/93	
DATE ANALYZED:		5/25/93		5/25/93		5/25/93		5/25/93		5/25/93	
% SOLID:		100%		LIQUID BLANK		LIQUID		88.9%		90.0%	
DILUTION FACTOR:		1		1		1		1		1	
PARAMETER		RESULT		RESULT		RESULT		RESULT		RESULT	
		ug/kg		ug/L		ug/L		ug/kg		ug/L	
CADMIUM METHOD 6010		1,000	U	5.00	U	5.00	U	1,125	U	1,111	U
CHROMIUM METHOD 6010		2,000	U	10.0	U	10.0	U	11,834		8,956	
LEAD METHOD 6010		8,000	U	40.0	U	40.0	U	12,171		8,889	U
ZINC METHOD 6010		4,000	U	20.0	U	20.0	U	43,870		33,556	
DATE ANALYZED:				5/27/93		5/27/93		5/27/93		5/27/93	
DILUTION FACTOR:				1		1		1		1	
FLUORIDE METHOD 340.2				100.0	U	100.0	U	1,980		1,640	

000012

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 04

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	MW24-SB-04	MW24-SB-05	RB-07
LABORATORY ID:	0687-05	0687-06	0687-08
DATE SAMPLED:	05/07/93	05/07/93	05/07/93
DATE ANALYZED:	5/25/93	5/25/93	5/25/93
% SOLID:	84.7%	90.7%	LIQUID
DILUTION FACTOR:			

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/L
CADMIUM METHOD 6010	1,157	1,103 U	5.00 U
CHROMIUM METHOD 6010	18,519	12,304	10.0 U
LEAD METHOD 6010	275,463	17,133	40.0 U
ZINC METHOD 6010	150,000	44,983	20.0 U

DATE ANALYZED:	5/27/93	5/27/93	5/27/93
DILUTION FACTOR:	1	1	1

FLUORIDE METHOD 340.2	7,650	2,290	100.0 U
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000013

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	MW24A-SB-04	MW24A-SB-05
LABORATORY ID:	0713-07	0713-08
DATE SAMPLED:	5/10/93	5/10/93
DATE ANALYZED:	6/01/93	6/01/93
% SOLID:	83.7%	90.5%
DILUTION FACTOR:	1	1
PARAMETER	RESULT	RESULT
	ug/kg	ug/kg
CADMIUM METHOD 6010	1,171 U	1,083 U
CHROMIUM METHOD 6010	26,698	12,936
LEAD METHOD 6010	39,110	11,744
ZINC METHOD 6010	70,960	37,053
DATE ANALYZED:	6/01/93	6/01/93
DILUTION FACTOR:	1	1
FLUORIDE METHOD 340.2	2,380	2,500
DATE ANALYZED:		
pH METHOD 9045		

000038

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	RB-09	MW25-SB-02	MW25-SB-05	MW26-SB-03	MW26-SB-02
LABORATORY ID:	0713-09	0713-11	0713-12	0713-13	0713-14
DATE SAMPLED:	5/10/93	5/11/93	5/11/93	5/11/93	5/11/93
DATE ANALYZED:	6/01/93	6/01/93	6/01/93	6/01/93	6/01/93
% SOLID:	LIQUID	87.6%	92.3%	88.4%	86.8%
DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT ug/L	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg
CADMIUM METHOD 6010	5.00 U	8,650	1,083 U	1,120 U	1,107 U
CHROMIUM METHOD 6010	10.0 U	17,783	11,983	12,945	13,488
LEAD METHOD 6010	40.0 U	20,351	11,939	13,303	12,780
ZINC METHOD 6010	20.0 U	79,912	34,670	37,178	37,431
DATE ANALYZED:	6/01/93	6/01/93	6/01/93	6/01/93	6/01/93
DILUTION FACTOR:	1	1	1	1	1
FLUORIDE METHOD 340.2	100.0 U	5,880	950	1,400	1,520
DATE ANALYZED:	5/13/93				
pH METHOD 9045	6.20 S.U.				

000020

FIELD SAMPLE ID: MW26-SB-06
LABORATORY ID: 0713-15
DATE SAMPLED: 5/11/93
DATE ANALYZED: 6/01/93
% SOLID: 88.7%
DILUTION FACTOR: 1

PARAMETER	RESULT ug/kg
CADMIUM METHOD 6010	1,116 U
CHROMIUM METHOD 6010	11,228
LEAD METHOD 6010	15,223
ZINC METHOD 6010	42,411

DATE ANALYZED: 6/01/93
DILUTION FACTOR: 1

FLUORIDE METHOD 340.2 590

DATE ANALYZED:

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 08

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK	MW27-SB-02	MW27-SB-05	RB-11
	LABORATORY ID:	0723-MB	0723-MB	0723-01	0723-02	0723-07
	DATE SAMPLED:			5/12/93	5/12/93	5/12/93
	DATE ANALYZED:	6/02/93	6/02/93	6/02/93	6/02/93	6/02/93
	% SOLID:	100%	LIQUID BLANK	85.7%	89.8%	LIQUID
	DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT		RESULT		RESULT	
	ug/kg		ug/L		ug/kg	
CADMIUM METHOD 6010	1,000	U	5.00	U	1,122	U
					1,114	U
CHROMIUM METHOD 6010	2,000	U	10.0	U	23,113	14,833
						10.0
LEAD METHOD 6010	8,000	U	40.0	U	33,211	12,584
						40.0
ZINC METHOD 6010	4,000	U	20.0	U	50,040	40,089
						20.0
	DATE ANALYZED:		6/01/93	6/01/93	6/01/93	6/01/93
	DILUTION FACTOR:		1	1	1	1
FLUORIDE METHOD 340.2			100.0	U	1,020	1,110
						100.0

000040

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 08

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	—	—
LABORATORY SAMPLE ID:	BLANK	BLANK
DATE SAMPLED:	—	—
DATE EXTRACTED:	5-19-93	5-19-93
% SOLIDS:	—	—
DILUTION FACTOR(S):	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20
TOLUENE	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30
STYRENE	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	98	100
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000032

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

ANALYSIS PERFORMED ON TOTAL:

FIELD SAMPLE ID:	MW28-SB-02	MW28-SB-05	MW29-SB-02	MW29-SB-05
LABORATORY ID:	0839-06	0839-07	0839-08	0839-09
DATE SAMPLED:	6/03/93	6/03/93	6/03/93	6/03/93
DATE ANALYZED:	6/29/93	6/29/93	6/29/93	6/29/93
% SOLID:	80.5%	90.2%	79.8%	91.2%
DILUTION FACTOR:				

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg	
CADMIUM METHOD 6010	1,218	U	1,087	U	18,772		1,075	U
CHROMIUM METHOD 6010	24,236		11,021		24,006		12,040	
LEAD METHOD 6010	28,986		13,130		36,857		16,082	
ZINC METHOD 6010	67,227		38,911		147,427		37,410	

DATE ANALYZED:	6/14/93	6/14/93	6/14/93	6/14/93
DILUTION FACTOR:	1	1	1	1

FLUORIDE METHOD 340.2	3,560	970	4,150	2,310
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DATE ANALYZED:

pH METHOD 9045

000011

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK
LABORATORY ID:	0839-MB	0839-MB
DATE SAMPLED:		
DATE ANALYZED:	6/29/93	6/29/93
% SOLID:	100%	LIQUID BLANK
DILUTION FACTOR:	1	1

PARAMETER	RESULT ug/kg		RESULT ug/L	
CADMIUM METHOD 6010	1.000	U	5.00	U
CHROMIUM METHOD 6010	2.000	U	10.0	U
LEAD METHOD 6010	8.000	U	40.0	U
ZINC METHOD 6010	4.000	U	20.0	U

DATE ANALYZED:	6/14/93
DILUTION FACTOR:	1

FLUORIDE METHOD 340.2	100.0	U
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DATE ANALYZED:

pH METHOD 9045

000010

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK
LABORATORY ID:	0713-MB	0713-MB
DATE SAMPLED:		
DATE ANALYZED:	6/01/93	6/01/93
% SOLID:	100%	LIQUID BLANK
DILUTION FACTOR:	1	1
PARAMETER	RESULT	RESULT
	ug/kg	ug/L
CADMIUM METHOD 6010	1,000	U 5.00 U
CHROMIUM METHOD 6010	2,000	U 10.0 U
LEAD METHOD 6010	8,000	U 40.0 U
ZINC METHOD 6010	4,000	U 20.0 U
DATE ANALYZED:		6/01/93
DILUTION FACTOR:		1
FLUORIDE METHOD 340.2		100.0 U
DATE ANALYZED:		
pH METHOD 9045		

000037

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID: RB-09
LABORATORY ID: 0713-09
DATE SAMPLED: 5/10/93
DATE ANALYZED: 6/01/93
% SOLID: LIQUID
DILUTION FACTOR: 1

PARAMETER	RESULT ug/L
CADMIUM METHOD 6010	5.00
CHROMIUM METHOD 6010	10.0
LEAD METHOD 6010	40.0
ZINC METHOD 6010	20.0

DATE ANALYZED: 6/01/93
DILUTION FACTOR: 1

FLUORIDE METHOD 340.2	100.0
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DATE ANALYZED: 5/13/93

pH METHOD 9045	6.20 S.U.
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000039

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 03

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW20-SB-03	MW20-SB-04	---
LABORATORY ID:	93066901	93066902	BLANK
DATE SAMPLED:	5-4-93	5-4-93	---
DATE EXTRACTED:	5-8-93	5-9-93	5-8-93
% SOLIDS:	82.1	89.3	
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	101	77	106
1-CHLORO-2-BROMOPROPANE(34/160)	94	74	106
1,4-DICHLOROBUTANE(24/138)	97	79	109

000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 04

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW21-SB-04	MW21-SB-05	MW21-SB-06	MW22-SB-04
LABORATORY ID:	93068003	93068004	93068005	93068006
DATE SAMPLED:	5-5-93	5-5-93	5-5-93	5-5-93
DATE EXTRACTED:	5-10-93	5-11-93	5-11-93	5-11-93
% SOLIDS:	89.3	90.4	89.9	90.2
DILUTION FACTORS:	1X	1X	1X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	13.0		12.0		11.0		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	83	83	84	97
1-CHLORO-2-BROMOPROPANE(34/160)	104	110	109	106
1,4-DICHLOROBUTANE(24/138)	85	99	92	73

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 04

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW22-SB-05	—
LABORATORY ID:	93068007	BLANK
DATE SAMPLED:	5-5-93	—
DATE EXTRACTED:	5-11-93	5-10-93
% SOLIDS:	90.1	—
DILUTION FACTORS:	1X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0
TRICHLOROETHENE	11.0		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	98	88
1-CHLORO-2-BROMOPROPANE(34/160)	136	115
1,4-DICHLOROBUTANE(24/138)	91	117

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW23-SB-05	MW23-SB-06	MW24-SB-04	MW24-SB-05
LABORATORY ID:	93068703	93068704	93068705	93068706
DATE SAMPLED:	5-06-93	5-06-93	5-07-93	5-07-93
DATE EXTRACTED:	5-13-93	5-13-93	5-14-93	5-14-93
% SOLIDS:	88.9	90.0	84.7	90.7
DILUTION FACTORS:	1X	1X	1X	1X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	13.2		17.3		10.0	U	10.0
TRICHLOROFUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	34.8		26.6		5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	130		240		29.7		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	77	72	93	69
1-CHLORO-2-BROMOPROPANE(34/160)	80	68	85	54
1,4-DICHLOROBUTANE(24/138)	79	65	74	62

000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW24-SB-06	—
LABORATORY ID:	93068707	BLANK
DATE SAMPLED:	5-07-93	—
DATE EXTRACTED:	5-14-93	5-13-93
% SOLIDS:	90.1	—
DILUTION FACTORS:	5X	1X

PARAMETER	RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0
VINYL CHLORIDE	76.3		20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.5		46.8		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	830 *		5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.3		5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	320		5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	128	83
1-CHLORO-2-BROMOPROPANE(34/160)	57	80
1,4-DICHLOROBUTANE(24/138)	60	82

000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 03

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-04	TB-02	—
LABORATORY ID:	93066903	93066904	BLANK
DATE SAMPLED:	5-4-93	5-4-93	—
DATE EXTRACTED:	5-8-93	5-8-93	—
% SOLIDS:	—	—	—
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L	RESULT ug/L	RESULT ug/L	MDL ug/L
CHLOROMETHANE	20.0 U	20.0 U	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0 U	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0 U	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0 U	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0 U	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0 U	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
CHLOROFORM	5.0 U	5.0 U	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0 U	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0 U	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0 U	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0 U	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0 U	50.0 U	50.0
BROMOFORM	20.0 U	20.0 U	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0 U	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0 U	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0 U	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	118	104	100
1-CHLORO-2-BROMOPROPANE(62/135)	108	110	100
1,4-DICHLORO BUTANE(61/131)	105	105	100

000006

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 04

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	TB-03	RB-05	—
LABORATORY ID:	93068001	93068002	BLANK
DATE SAMPLED:	5-5-93	5-5-93	—
DATE EXTRACTED:	5-10-93	5-10-93	5-10-93
% SOLIDS:	—	—	—
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	92	92	92
1-CHLORO-2-BROMOPROPANE(62/135)	120	117	126
1,4-DICHLOROBUTANE(61/131)	103	102	104

000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	TB-04	RB-06	RB-07	---
LABORATORY ID:	93068701	93068702	93068708	BLANK
DATE SAMPLED:	5-06-93	5-06-93	5-07-93	---
DATE EXTRACTED:	5-13-93	5-13-93	5-13-93	5-13-93
% SOLIDS:	---	---	---	---
DILUTION FACTORS:	1X	1X	1X	1X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/L		ug/L		ug/L		ug/L		ug/L
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	44.6		46.8		42.3		46.8		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	82	79	91	83
1-CHLORO-2-BROMOPROPANE(62/135)	81	76	69	80
1,4-DICHLOROBUTANE(61/131)	76	77	87	82

000008

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8010
PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW28-SB-02
LABORATORY ID:	93083906
DATE SAMPLED:	6-3-93
DATE EXTRACTED:	6-9-93
% SOLIDS:	80.5
DILUTION FACTORS:	5X

PARAMETER	RESULT ug/kg	MDL ug/kg
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	55.7	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.8	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0
SURROGATE % RECOVERY		
CHLOROBROMOMETHANE(47/155)	69	
1-CHLORO-2-BROMOPROPANE(34/160)	86	
1,4-DICHLOROBUTANE(24/138)	80	

Note: Methylene chloride results should be viewed with caution due to laboratory background

000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW28-SB-05	MW29-SB-02	MW29-SB-05	---
LABORATORY ID:	93083907	93083908	93083909	BLANK
DATE SAMPLED:	6-3-93	6-3-93	6-3-93	---
DATE EXTRACTED:	6-9-93	6-9-93	6-9-93	6-8-93
% SOLIDS:	90.2	79.8	91.2	---
DILUTION FACTORS:	5X	5X	5X	1X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	57.2		16.0		12.3		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	6.2		10.1		5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	7.8		5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	74	80	66	74
1-CHLORO-2-BROMOPROPANE(34/160)	91	116	98	94
1,4-DICHLOROBUTANE(24/138)	82	76	66	91

Note: Methylene chloride results should be viewed with caution due to laboratory background.

000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	---
LABORATORY ID:	BLANK
DATE SAMPLED:	---
DATE EXTRACTED:	6-8-93
% SOLIDS:	---
DILUTION FACTORS:	1X

PARAMETER	RESULT	MDL
	ug/L	ug/L
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	74
1-CHLORO-2-BROMOPROPANE(62/135)	94
1,4-DICHLOROBUTANE(61/131)	91

Note: Methylene chloride results should be viewed with caution due to laboratory background.

000006

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW24A-SB-04	MW24A-SB-05
LABORATORY ID:	93071307	93071308
DATE SAMPLED:	5-10-93	5-10-93
DATE EXTRACTED:	5-17-93	5-17-93
% SOLIDS:	83.7	90.5
DILUTION FACTORS:	5X	5X

PARAMETER	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
CHLOROMETHANE	20.0 U	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0 U	20.0
METHYLENE CHLORIDE	44.7	48.8	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	45.5	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0
CHLOROFORM	5.0 U	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0 U	5.0
1,1,1-TRICHLOROETHANE	6.0	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0
TRICHLOROETHENE	5.0 U	18.9	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0 U	50.0
BROMOFORM	20.0 U	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0 U	15.0
SURROGATE % RECOVERY			
CHLOROBROMOMETHANE(47/155)	118	123	
1-CHLORO-2-BROMOPROPANE(34/160)	153	161	
1,4-DICHLOROBUTANE(24/138)	157	161	

000017

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW25-SB-02	MW25-SB-05	MW26-SB-03	MW26-SB-02
LABORATORY ID:	93071311	93071312	93071313	93071314
DATE SAMPLED:	5-11-93	5-11-93	5-11-93	5-11-93
DATE EXTRACTED:	5-18-93	5-18-93	5-18-93	5-18-93
% SOLIDS:	87.6	92.3	88.4	86.8
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	27.6		32.9		24.1		24.3		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	23.1		70.0		15.8		52.9		5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	12.7		5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	95	139	85	88
1-CHLORO-2-BROMOPROPANE(34/160)	96	147	85	87
1,4-DICHLOROBUTANE(24/138)	82	127	77	76

000018

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW26-SB-06	---
LABORATORY ID:	93071315	BLANK
DATE SAMPLED:	5-11-93	---
DATE EXTRACTED:	5-18-93	5-17-93
% SOLIDS:	88.7	---
DILUTION FACTORS:	5X	1X

PARAMETER	RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	27.8		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	21.0		5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0
TRICHLOROETHENE	50.3		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	86	77
1-CHLORO-2-BROMOPROPANE(34/160)	89	102
1,4-DICHLOROBUTANE(24/138)	79	101

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 08

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	MW27-SB-02	MW27-SB-05	---
LABORATORY ID:	93072301	9372302	BLANK
DATE SAMPLED:	5-12-93	5-12-93	---
DATE EXTRACTED:	5-20-93	5-20-93	5-19-93
% SOLIDS:	85.7	89.8	---
DILUTION FACTORS:	5X	5X	1X

PARAMETER	RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	100		120		11.9		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	88	105	92
1-CHLORO-2-BROMOPROPANE(34/160)	89	123	96
1,4-DICHLOROBUTANE(24/138)	83	119	105

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 07

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-12	RB-13	----
LABORATORY SAMPLE ID:	93072312	93072317	SBLKW1
DATE SAMPLED:	5-13-93	5-14-93	----
DATE EXTRACTED:	5-17-93	5-17-93	5-17-93
DILUTION FACTOR(S):	1	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L	
ACENAPHTHENE -----	10	U	10	U	10	U	10	U
ACENAPHTHYLENE -----	10	U	10	U	10	U	10	U
ANTHRACENE -----	10	U	10	U	10	U	10	U
BENZO(a)ANTHRACENE -----	10	U	10	U	10	U	10	U
BENZO(b)FLUORANTHENE -----	10	U	10	U	10	U	10	U
BENZO(k)FLUORANTHENE -----	10	U	10	U	10	U	10	U
BENZO(a)PYRENE -----	10	U	10	U	10	U	10	U
BENZO(g,h,i)PERYLENE -----	10	U	10	U	10	U	10	U
BENZOIC ACID -----	50	U	50	U	50	U	50	U
BENZYL ALCOHOL -----	10	U	10	U	10	U	10	U
BIS(2-CHLOROETHOXY)METHANE ---	10	U	10	U	10	U	10	U
BIS(2-CHLOROETHYL)ETHER -----	10	U	10	U	10	U	10	U
BIS(2-CHLOROISOPROPYL)ETHER ---	10	U	10	U	10	U	10	U
BIS(2-ETHYLHEXYL)PHTHALATE -----	7	J	10	U	8	J	10	U
BUTYLBENZYL PHTHALATE -----	10	U	10	U	10	U	10	U
4-BROMOPHENYL-PHENYL ETHER ---	10	U	10	U	10	U	10	U
4-CHLOROANILINE -----	10	U	10	U	10	U	10	U
2-CHLORONAPHTHALENE -----	10	U	10	U	10	U	10	U
4-CHLOROPHENYL-PHENYL ETHER ---	10	U	10	U	10	U	10	U
CHRYSENE -----	10	U	10	U	10	U	10	U
DIBENZ(a,h)ANTHRACENE -----	10	U	10	U	10	U	10	U
DIBENZOFURAN -----	10	U	10	U	10	U	10	U
DI-N-BUTYLPHTHALATE -----	10	U	10	U	10	U	10	U
1,2-DICHLOROBENZENE -----	10	U	10	U	10	U	10	U
1,3-DICHLOROBENZENE -----	10	U	10	U	10	U	10	U
1,4-DICHLOROBENZENE -----	10	U	10	U	10	U	10	U
3,3-DICHLOROBENZIDINE -----	20	U	20	U	20	U	20	U
DIETHYL PHTHALATE -----	10	U	10	U	10	U	10	U
DIMETHYL PHTHALATE -----	10	U	10	U	10	U	10	U
2,4-DINITROTOLUENE -----	10	U	10	U	10	U	10	U
2,6-DINITROTOLUENE -----	10	U	10	U	10	U	10	U
DI-N-OCTYL PHTHALATE -----	10	U	10	U	10	U	10	U
FLUORANTHENE -----	10	U	10	U	10	U	10	U
FLUORENE -----	10	U	10	U	10	U	10	U
HEXACHLOROBENZENE -----	10	U	10	U	10	U	10	U
HEXACHLOROBUTADIENE -----	10	U	10	U	10	U	10	U
HEXACHLOROCYCLOPENTADIENE ---	10	U	10	U	10	U	10	U
HEXACHLOROETHANE -----	10	U	10	U	10	U	10	U
INDENO(1,2,3-cd)PYRENE -----	10	U	10	U	10	U	10	U

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 05

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	MW24-SB-05	MW24-SB-06	----
LABORATORY SAMPLE ID:	93068706	93068707	SBLKS2
DATE SAMPLED:	5-07-93	5-07-93	----
DATE EXTRACTED:	5-17-93	5-17-93	5-17-93
% SOLIDS:	90.7	90.1	----
DILUTION FACTOR(S):	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE -----	330	U	330	U	330	U	330
ACENAPHTHYLENE -----	330	U	330	U	330	U	330
ANTHRACENE -----	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE -----	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE -----	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE -----	330	U	330	U	330	U	330
BENZO(a)PYRENE -----	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE -----	330	U	330	U	330	U	330
BENZOIC ACID -----	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL -----	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE ---	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER -----	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER ----	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE ----	330	U	330	U	330	U	330
BUTYLBENZYL PHTHALATE -----	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER ---	330	U	330	U	330	U	330
4-CHLOROANILINE -----	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE -----	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER ---	330	U	330	U	330	U	330
CHRYSENE -----	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE -----	330	U	330	U	330	U	330
DIBENZOFURAN -----	330	U	330	U	330	U	330
DI-N-BUTYL PHTHALATE -----	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE -----	330	U	330	U	330	U	330
1,5-DICHLOROBENZENE -----	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE -----	330	U	330	U	330	U	330
3,3'-DICHLOROBENZIDINE -----	660	U	660	U	660	U	660
DIETHYL PHTHALATE -----	330	U	330	U	330	U	330
DIMETHYL PHTHALATE -----	330	U	330	U	330	U	330
2,4-DINITROTOLUENE -----	330	U	330	U	330	U	330
2,6-DINITROTOLUENE -----	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE -----	330	U	330	U	330	U	330
FLUORANTHENE -----	330	U	330	U	330	U	330
FLUORENE -----	330	U	330	U	330	U	330
HEXACHLOROBENZENE -----	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE -----	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE ---	330	U	330	U	330	U	330
HEXACHLOROETHANE -----	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE -----	330	U	330	U	330	U	330

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

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METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	MW24-SB-05	MW24-SB-06	----
LABORATORY SAMPLE ID:	93068706	93068707	SBLKS2
DATE SAMPLED:	5-07-93	5-07-93	----
DATE EXTRACTED:	5-17-93	5-17-93	5-17-93
% SOLIDS:	90.7	90.1	----
DILUTION FACTOR(S):	1	1	1

PARAMETER	RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			MDL ug/kg		
ISOPHORONE -----	330	U		330	U		330	U		330	U	
2-METHYL NAPHTHALENE -----	330	U		330	U		330	U		330	U	
NAPHTHALENE -----	330	U		330	U		330	U		330	U	
2-NITROANILINE -----	1,600	U		1,600	U		1,600	U		1,600	U	
3-NITROANILINE -----	1,600	U		1,600	U		1,600	U		1,600	U	
4-NITROANILINE -----	1,600	U		1,600	U		1,600	U		1,600	U	
NITROBENZENE -----	330	U		330	U		330	U		330	U	
N-NITROSODIPHENYLAMINE -----	330	U		330	U		330	U		330	U	
N-NITROS-DI-N-PROPYLAMINE -----	330	U		330	U		330	U		330	U	
PHENANTHRENE -----	330	U		330	U		330	U		330	U	
PYRENE -----	330	U		330	U		330	U		330	U	
1,2,4-TRICHLOROBENZENE -----	330	U		330	U		330	U		330	U	
CARBAZOLE -----	330	U		330	U		330	U		330	U	

ACID COMPOUNDS	RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			RESULT ug/kg		
4-CHLORO-3-METHYLPHENOL -----	330	U		330	U		330	U		330	U	
2-CHLOROPHENOL -----	330	U		330	U		330	U		330	U	
2,4-DICHLOROPHENOL -----	330	U		330	U		330	U		330	U	
2,4-DIMETHYL PHENOL -----	330	U		330	U		330	U		330	U	
2,4-DINITROPHENOL -----	1,600	U		1,600	U		1,600	U		1,600	U	
4,6-DINITRO-2-METHYLPHENOL -----	1,600	U		1,600	U		1,600	U		1,600	U	
2-METHYL PHENOL -----	330	U		330	U		330	U		330	U	
4-METHYL PHENOL -----	330	U		330	U		330	U		330	U	
2-NITROPHENOL -----	330	U		330	U		330	U		330	U	
4-NITROPHENOL -----	1,600	U		1,600	U		1,600	U		1,600	U	
PENTACHLOROPHENOL -----	1,600	U		1,600	U		1,600	U		1,600	U	
PHENOL -----	330	U		330	U		330	U		330	U	
2,4,5-TRICHLOROPHENOL -----	1,600	U		1,600	U		1,600	U		1,600	U	
2,4,6-TRICHLOROPHENOL -----	330	U		330	U		330	U		330	U	

SURROGATE % RECOVERY	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	70	72	83	54 -- 143
2-FLUOROBIPHENYL	76	73	84	43 -- 125
TERPHENYL (d14)	90	87	96	25 -- 139
PHENOL (d5)	66	64	74	40 -- 135
2-FLUOROPHENOL	80	81	92	48 -- 140
2,4,6-TRIBROMOPHENOL	61	60	78	18 -- 141
2-CHLOROPHENOL (d4)	72	71	80	43 -- 124
1,2-DICHLOROBENZENE (d4)	66	72	79	38 -- 129

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Sample Delivery Group No.: 07

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	MW24A-SB-04	MW24A-SB-05	----	----
LABORATORY SAMPLE ID:	93071307	93071308	SBLKS2	SBLKS3
DATE SAMPLED:	5-10-93	5-10-93	----	----
DATE EXTRACTED:	5-17-93	5-18-93	5-17-93	5-18-93
% SOLIDS:	83.7	90.5	----	----
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg	
ACENAPHTHENE -----	330	U	330	U	330	U	330	U	330	U
ACENAPHTHYLENE -----	330	U	330	U	330	U	330	U	330	U
ANTHRACENE -----	330	U	330	U	330	U	330	U	330	U
BENZO(a)ANTHRACENE -----	330	U	330	U	330	U	330	U	330	U
BENZO(b)FLUORANTHENE -----	330	U	330	U	330	U	330	U	330	U
BENZO(k)FLUORANTHENE -----	330	U	330	U	330	U	330	U	330	U
BENZO(a)PYRENE -----	330	U	330	U	330	U	330	U	330	U
BENZO(g,h,i)PERYLENE -----	330	U	330	U	330	U	330	U	330	U
BENZOIC ACID -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U
BENZYL ALCOHOL -----	330	U	330	U	330	U	330	U	330	U
BIS(2-CHLOROETHOXY)METHANE -----	330	U	330	U	330	U	330	U	330	U
BIS(2-CHLOROETHYL)ETHER -----	330	U	330	U	330	U	330	U	330	U
BIS(2-CHLOROISOPROPYL)ETHER -----	330	U	330	U	330	U	330	U	330	U
BIS(2-ETHYLHEXYL)PHTHALATE -----	620	U	140	J	330	U	330	U	330	U
BUTYLBENZYL PHTHALATE -----	330	U	330	U	330	U	330	U	330	U
4-BROMOPHENYL-PHENYL ETHER -----	330	U	330	U	330	U	330	U	330	U
4-CHLOROANILINE -----	330	U	330	U	330	U	330	U	330	U
2-CHLORONAPHTHALENE -----	330	U	330	U	330	U	330	U	330	U
4-CHLOROPHENYL-PHENYL ETHER -----	330	U	330	U	330	U	330	U	330	U
CHRYSENE -----	330	U	330	U	330	U	330	U	330	U
DIBENZ(a,h)ANTHRACENE -----	330	U	330	U	330	U	330	U	330	U
DIBENZOFURAN -----	330	U	330	U	330	U	330	U	330	U
DI-N-BUTYL PHTHALATE -----	330	U	330	U	330	U	330	U	330	U
1,2-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330	U
1,3-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330	U
1,4-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330	U
3,3-DICHLOROBENZIDINE -----	660	U	660	U	660	U	660	U	660	U
DIETHYL PHTHALATE -----	330	U	330	U	330	U	330	U	330	U
DIMETHYL PHTHALATE -----	330	U	330	U	330	U	330	U	330	U
2,4-DINITROTOLUENE -----	330	U	330	U	330	U	330	U	330	U
2,6-DINITROTOLUENE -----	330	U	330	U	330	U	330	U	330	U
DI-N-OCTYL PHTHALATE -----	330	U	330	U	330	U	330	U	330	U
FLUORANTHENE -----	330	U	330	U	330	U	330	U	330	U
FLUORENE -----	330	U	330	U	330	U	330	U	330	U
HEXACHLOROBENZENE -----	330	U	330	U	330	U	330	U	330	U
HEXACHLOROBUTADIENE -----	330	U	330	U	330	U	330	U	330	U
HEXACHLOROCYCLOPENTADIENE -----	330	U	330	U	330	U	330	U	330	U
HEXACHLOROETHANE -----	330	U	330	U	330	U	330	U	330	U
INDENO(1,2,3-cd)PYRENE -----	330	U	330	U	330	U	330	U	330	U

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 07

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	MW24A-SB-04	MW24A-SB-05	----	----
LABORATORY SAMPLE ID:	93071307	93071308	SBLKS2	SBLKS3
DATE SAMPLED:	5-10-93	5-10-93	----	----
DATE EXTRACTED:	5-17-93	5-18-93	5-17-93	5-18-93
% SOLIDS:	83.7	90.5	----	----
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE -----	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
2-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE -----	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE -----	330	U	330	U	330	U	330	U	330
N-NITROS-DI-N-PROPYLAMINE -----	330	U	330	U	330	U	330	U	330
PHENANTHRENE -----	330	U	330	U	330	U	330	U	330
PYRENE -----	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
CARBAZOLE -----	330	U	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL -----	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2-NITROPHENOL -----	330	U	330	U	330	U	330	U	330
4-NITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL -----	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	75	50	83	62	54 -- 143
2-FLUOROBIPHENYL	78	54	84	67	43 -- 125
TERPHENYL (d14)	93	70	96	93	25 -- 139
PHENOL (d5)	68	47	74	60	40 -- 135
2-FLUOROPHENOL	83	58	92	73	48 -- 140
2,4,6-TRIBROMOPHENOL	65	47	78	64	18 -- 141
2-CHLOROPHENOL (d4)	75	51	80	64	43 -- 124
1,2-DICHLOROBENZENE (d4)	71	51	79	65	38 -- 129

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 07

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-09	----
LABORATORY SAMPLE ID:	93071309	SBLKW1
DATE SAMPLED:	5-10-93	----
DATE EXTRACTED:	5-17-93	5-17-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L	
ACENAPHTHENE -----	10	U	10	U	10	U
ACENAPHTHYLENE -----	10	U	10	U	10	U
ANTHRACENE -----	10	U	10	U	10	U
BENZO(a)ANTHRACENE -----	10	U	10	U	10	U
BENZO(b)FLUORANTHENE -----	10	U	10	U	10	U
BENZO(k)FLUORANTHENE -----	10	U	10	U	10	U
BENZO(a)PYRENE -----	10	U	10	U	10	U
BENZO(g,h,i)PERYLENE -----	10	U	10	U	10	U
BENZOIC ACID -----	50	U	50	U	50	U
BENZYL ALCOHOL -----	10	U	10	U	10	U
BIS(2-CHLOROETHOXY)METHANE ---	10	U	10	U	10	U
BIS(2-CHLOROETHYL)ETHER -----	10	U	10	U	10	U
BIS(2-CHLOROISOPROPYL)ETHER ---	10	U	10	U	10	U
BIS(2-ETHYLHEXYL)PHTHALATE ---	10	U	8	J	10	U
BUTYLBENZYL PHTHALATE -----	10	U	10	U	10	U
4-BROMOPHENYL-PHENYL ETHER ---	10	U	10	U	10	U
4-CHLOROANILINE -----	10	U	10	U	10	U
2-CHLORONAPHTHALENE -----	10	U	10	U	10	U
4-CHLOROPHENYL-PHENYL ETHER ---	10	U	10	U	10	U
CHRYSENE -----	10	U	10	U	10	U
DIBENZ(a,h)ANTHRACENE -----	10	U	10	U	10	U
DIBENZOFURAN -----	10	U	10	U	10	U
DI-N-BUTYLPHTHALATE -----	10	U	10	U	10	U
1,2-DICHLOROBENZENE -----	10	U	10	U	10	U
1,3-DICHLOROBENZENE -----	10	U	10	U	10	U
1,4-DICHLOROBENZENE -----	10	U	10	U	10	U
3,3-DICHLOROBENZIDINE -----	20	U	20	U	20	U
DIETHYL PHTHALATE -----	10	U	10	U	10	U
DIMETHYL PHTHALATE -----	10	U	10	U	10	U
2,4-DINITROTOLUENE -----	10	U	10	U	10	U
2,6-DINITROTOLUENE -----	10	U	10	U	10	U
DI-N-OCTYL PHTHALATE -----	10	U	10	U	10	U
FLUORANTHENE -----	10	U	10	U	10	U
FLUORENE -----	10	U	10	U	10	U
HEXACHLOROBENZENE -----	10	U	10	U	10	U
HEXACHLOROBUTADIENE -----	10	U	10	U	10	U
HEXACHLOROCYCLOPENTADIENE ---	10	U	10	U	10	U
HEXACHLOROETHANE -----	10	U	10	U	10	U
INDENO(1,2,3-cd)PYRENE -----	10	U	10	U	10	U

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HUNTINGDON ANALYTICAL SERVICES

PAGE 2 OF 2

Sample Delivery Group No.: 07

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-09	---
LABORATORY SAMPLE ID:	93071309	SBLKW1
DATE SAMPLED:	5-10-93	---
DATE EXTRACTED:	5-17-93	5-17-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L	
ISOPHORONE -----	10	U	10	U	10	U
2-METHYL NAPHTHALENE -----	10	U	10	U	10	U
NAPHTHALENE -----	10	U	10	U	10	U
2-NITROANILINE -----	50	U	50	U	50	U
3-NITROANILINE -----	50	U	50	U	50	U
4-NITROANILINE -----	50	U	50	U	50	U
NITROBENZENE -----	10	U	10	U	10	U
N-NITROSODIPHENYLAMINE -----	10	U	10	U	10	U
N-NITROS-DI-N-PROPYLAMINE -----	10	U	10	U	10	U
PHENANTHRENE -----	10	U	10	U	10	U
PYRENE -----	10	U	10	U	10	U
1,2,4-TRICHLOROBENZENE -----	10	U	10	U	10	U
CARBAZOLE -----	10	U	10	U	10	U

ACID COMPOUNDS	RESULT ug/L		RESULT ug/L		RESULT ug/L	
4-CHLORO-3-METHYLPHENOL -----	10	U	10	U	10	U
2-CHLOROPHENOL -----	10	U	10	U	10	U
2,4-DICHLOROPHENOL -----	10	U	10	U	10	U
2,4-DIMETHYL PHENOL -----	10	U	10	U	10	U
2,4-DINITROPHENOL -----	50	U	50	U	50	U
4,6-DINITRO-2-METHYLPHENOL -----	50	U	50	U	50	U
2-METHYL PHENOL -----	10	U	10	U	50	U
4-METHYL PHENOL -----	10	U	10	U	10	U
2-NITROPHENOL -----	10	U	10	U	10	U
4-NITROPHENOL -----	50	U	50	U	50	U
PENTACHLOROPHENOL -----	50	U	50	U	50	U
PHENOL -----	10	U	10	U	10	U
2,4,5-TRICHLOROPHENOL -----	50	U	50	U	50	U
2,4,6-TRICHLOROPHENOL -----	10	U	10	U	10	U

SURROGATE % RECOVERY	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	73	71	16 -- 146
2-FLUOROBIPHENYL	76	75	21 -- 113
TERPHENYL (d14)	87	90	12 -- 146
PHENOL (d5)	30	30	11 -- 104
2-FLUOROPHENOL	57	58	17 -- 117
2,4,6-TRIBROMOPHENOL	64	63	22 -- 144
2-CHLOROPHENOL (d4)	75	72	20 -- 130
1,2-DICHLOROBENZENE (d4)	69	66	20 -- 130

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HUNTINGDON ANALYTICAL SERVICES

PAGE 1 OF 2

Sample Delivery Group No.: 07

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-09	----
LABORATORY SAMPLE ID:	93071309	SBLKW1
DATE SAMPLED:	5-10-93	----
DATE EXTRACTED:	5-17-93	5-17-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L	
ACENAPHTHENE -----	10	U	10	U	10	U
ACENAPHTHYLENE -----	10	U	10	U	10	U
ANTHRACENE -----	10	U	10	U	10	U
BENZO(a)ANTHRACENE -----	10	U	10	U	10	U
BENZO(b)FLUORANTHENE -----	10	U	10	U	10	U
BENZO(k)FLUORANTHENE -----	10	U	10	U	10	U
BENZO(a)PYRENE -----	10	U	10	U	10	U
BENZO(g,h,i)PERYLENE -----	10	U	10	U	10	U
BENZOIC ACID -----	50	U	50	U	50	U
BENZYL ALCOHOL -----	10	U	10	U	10	U
BIS(2-CHLOROETHOXY)METHANE ---	10	U	10	U	10	U
BIS(2-CHLOROETHYL)ETHER -----	10	U	10	U	10	U
BIS(2-CHLOROISOPROPYL)ETHER ---	10	U	10	U	10	U
BIS(2-ETHYLHEXYL)PHTHALATE ---	10	U	8	J	10	U
BUTYLBENZYL PHTHALATE -----	10	U	10	U	10	U
4-BROMOPHENYL-PHENYL ETHER ---	10	U	10	U	10	U
4-CHLOROANILINE -----	10	U	10	U	10	U
2-CHLORONAPHTHALENE -----	10	U	10	U	10	U
4-CHLOROPHENYL-PHENYL ETHER ---	10	U	10	U	10	U
CHRYSENE -----	10	U	10	U	10	U
DIBENZ(a,h)ANTHRACENE -----	10	U	10	U	10	U
DIBENZOFURAN -----	10	U	10	U	10	U
DI-N-BUTYLPHTHALATE -----	10	U	10	U	10	U
1,2-DICHLOROBENZENE -----	10	U	10	U	10	U
1,3-DICHLOROBENZENE -----	10	U	10	U	10	U
1,4-DICHLOROBENZENE -----	10	U	10	U	10	U
3,3-DICHLOROBENZIDINE -----	20	U	20	U	20	U
DIETHYL PHTHALATE -----	10	U	10	U	10	U
DIMETHYL PHTHALATE -----	10	U	10	U	10	U
2,4-DINITROTOLUENE -----	10	U	10	U	10	U
2,6-DINITROTOLUENE -----	10	U	10	U	10	U
DI-N-OCTYL PHTHALATE -----	10	U	10	U	10	U
FLUORANTHENE -----	10	U	10	U	10	U
FLUORENE -----	10	U	10	U	10	U
HEXACHLOROBENZENE -----	10	U	10	U	10	U
HEXACHLOROBUTADIENE -----	10	U	10	U	10	U
HEXACHLOROCYCLOPENTADIENE ---	10	U	10	U	10	U
HEXACHLOROETHANE -----	10	U	10	U	10	U
INDENO(1,2,3-cd)PYRENE -----	10	U	10	U	10	U

HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 07

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-09	----
LABORATORY SAMPLE ID:	93071309	SBLKW1
DATE SAMPLED:	5-10-93	----
DATE EXTRACTED:	5-17-93	5-17-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L	
ISOPHORONE -----	10	U	10	U	10	U
2-METHYL NAPHTHALENE -----	10	U	10	U	10	U
NAPHTHALENE -----	10	U	10	U	10	U
2-NITROANILINE -----	50	U	50	U	50	U
3-NITROANILINE -----	50	U	50	U	50	U
4-NITROANILINE -----	50	U	50	U	50	U
NITROBENZENE -----	10	U	10	U	10	U
N-NITROSODIPHENYLAMINE -----	10	U	10	U	10	U
N-NITROS-DI-N-PROPYLAMINE -----	10	U	10	U	10	U
PHENANTHRENE -----	10	U	10	U	10	U
PYRENE -----	10	U	10	U	10	U
1,2,4-TRICHLOROBENZENE -----	10	U	10	U	10	U
CARBAZOLE -----	10	U	10	U	10	U

ACID COMPOUNDS	RESULT ug/L		RESULT ug/L		RESULT ug/L	
4-CHLORO-3-METHYLPHENOL -----	10	U	10	U	10	U
2-CHLOROPHENOL -----	10	U	10	U	10	U
2,4-DICHLOROPHENOL -----	10	U	10	U	10	U
2,4-DIMETHYL PHENOL -----	10	U	10	U	10	U
2,4-DINITROPHENOL -----	50	U	50	U	50	U
4,6-DINITRO-2-METHYLPHENOL -----	50	U	50	U	50	U
2-METHYL PHENOL -----	10	U	10	U	50	U
4-METHYL PHENOL -----	10	U	10	U	10	U
2-NITROPHENOL -----	10	U	10	U	10	U
4-NITROPHENOL -----	50	U	50	U	50	U
PENTACHLOROPHENOL -----	50	U	50	U	50	U
PHENOL -----	10	U	10	U	10	U
2,4,5-TRICHLOROPHENOL -----	50	U	50	U	50	U
2,4,6-TRICHLOROPHENOL -----	10	U	10	U	10	U

SURROGATE % RECOVERY	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	73	71	16 -- 146
2-FLUOROBIPHENYL	76	75	21 -- 113
TERPHENYL (d14)	87	90	12 -- 146
PHENOL (d5)	30	30	11 -- 104
2-FLUOROPHENOL	57	58	17 -- 117
2,4,6-TRIMETHOPHENOL	64	63	22 -- 144
2-CHLOROPHENOL (d4)	75	72	20 -- 130
1,2-DICHLOROBENZENE (d4)	69	66	20 -- 130

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GROUNDWATER RESULTS

ROUNDS 1 AND 2

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 20

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EPA METHOD 8240
VOLATILE ORGANICS

FIELD SAMPLE ID:	MW20-GW-01	RB-27	MW21-GW-01	MW26-GW-01
LABORATORY SAMPLE ID:	93089601	93089602	93089603	93089604
DATE SAMPLED:	6-14-93	6-14-93	6-15-93	6-15-93
DATE ANALYZED:	6-17-93	6-17-93	6-17-93	6-17-93
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		DL ug/L
CHLOROMETHANE	10	U	10	U	10	U	10	U	10
BROMOMETHANE	10	U	10	U	10	U	10	U	10
VINYL CHLORIDE	120		10	U	10	U	19		10
CHLOROETHANE	10	U	10	U	10	U	10	U	10
METHYLENE CHLORIDE	10	U	10	U	10	U	10	U	10
ACETONE	10	U	10	U	10	U	10	U	10
CARBON DISULFIDE	10	U	10	U	10	U	10	U	10
1,1-DICHLOROETHENE	10	U	10	U	10	U	4	J	10
1,1-DICHLOROETHANE	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHENE (cis)	27		10	U	10	U	180		10
1,2-DICHLOROETHENE (trans)	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHENE (TOTAL)	27		10	U	10	U	180		10
CHLOROFORM	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHANE	10	U	10	U	10	U	10	U	10
2-BUTANONE	10	U	10	U	10	U	10	U	10
1,1,1-TRICHLOROETHANE	10	U	10	U	10	U	3	J	10
CARBON TETRACHLORIDE	10	U	10	U	10	U	10	U	10
VINYL ACETATE	10	U	10	U	10	U	10	U	10
BROMODICHLOROMETHANE	10	U	10	U	10	U	10	U	10
1,2-DICHLOROPROPANE	10	U	10	U	10	U	10	U	10
cis-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10
TRICHLOROETHENE	10	U	10	U	10	U	310		10
DIBROMOCHLOROMETHANE	10	U	10	U	10	U	10	U	10
1,1,2-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10
BENZENE	10	U	10	U	10	U	10	U	10
trans-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10
2-CHLOROETHYL VINYL ETHER	10	U	10	U	10	U	10	U	10
BROMOFORM	10	U	10	U	10	U	10	U	10
4-METHYL-2-PENTANONE	10	U	10	U	10	U	10	U	10
2-HEXANONE	10	U	10	U	10	U	10	U	10
TETRACHLOROETHENE	10	U	10	U	10	U	10	U	10
1,1,2,2-TETRACHLOROETHANE	10	U	10	U	10	U	10	U	10
TOLUENE	10	U	10	U	10	U	10	U	10
CHLOROBENZENE	10	U	10	U	10	U	10	U	10
ETHYL BENZENE	10	U	10	U	10	U	10	U	10
STYRENE	10	U	10	U	10	U	10	U	10
XYLENE (TOTAL)	10	U	10	U	10	U	10	U	10

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
1,2-DICHLOROETHANE d4	98	113	96	99	87 — 114
TOLUENE D8	98	98	96	99	82 — 113
BROMOFLUOROBENZENE	96	95	95	96	83 — 111

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 20

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EPA METHOD 8240
VOLATILE ORGANICS

FIELD SAMPLE ID:	MW01-GW-01	RB-28	TB-19	---
LABORATORY SAMPLE ID:	93089605	93089606	93089607	METHOD BLANK
DATE SAMPLED:	6-15-93	6-15-93	6-15-93	---
DATE ANALYZED:	6-17-93	6-17-93	6-17-93	6-17-93
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		DL ug/L
CHLOROMETHANE	10	U	10	U	10	U	10	U	10
BROMOMETHANE	10	U	10	U	10	U	10	U	10
VINYL CHLORIDE	10	U	10	U	10	U	10	U	10
CHLOROETHANE	10	U	10	U	10	U	10	U	10
METHYLENE CHLORIDE	10	U	10	U	10	U	10	U	10
ACETONE	10	U	10	U	10	U	10	U	10
CARBON DISULFIDE	10	U	10	U	10	U	10	U	10
1,1-DICHLOROETHENE	4	J	10	U	10	U	10	U	10
1,1-DICHLOROETHANE	7	J	10	U	10	U	10	U	10
1,2-DICHLOROETHENE (cis)	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHENE (trans)	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHENE (TOTAL)	10	U	10	U	10	U	10	U	10
CHLOROFORM	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHANE	10	U	10	U	10	U	10	U	10
2-BUTANONE	10	U	10	U	10	U	10	U	10
1,1,1-TRICHLOROETHANE	57		10	U	10	U	10	U	10
CARBON TETRACHLORIDE	10	U	10	U	10	U	10	U	10
VINYL ACETATE	10	U	10	U	10	U	10	U	10
BROMODICHLOROMETHANE	10	U	10	U	10	U	10	U	10
1,2-DICHLOROPROPANE	10	U	10	U	10	U	10	U	10
cis-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10
TRICHLOROETHENE	10	U	10	U	10	U	10	U	10
DIBROMOCHLOROMETHANE	10	U	10	U	10	U	10	U	10
1,1,2-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10
BENZENE	10	U	10	U	10	U	10	U	10
trans-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10
2-CHLOROETHYL VINYL ETHER	10	U	10	U	10	U	10	U	10
BROMOFORM	10	U	10	U	10	U	10	U	10
4-METHYL-2-PENTANONE	10	U	10	U	10	U	10	U	10
2-HEXANONE	10	U	10	U	10	U	10	U	10
TETRACHLOROETHENE	10	U	10	U	10	U	10	U	10
1,1,2,2-TETRACHLOROETHANE	10	U	10	U	10	U	10	U	10
TOLUENE	10	U	10	U	10	U	10	U	10
CHLOROBENZENE	10	U	10	U	10	U	10	U	10
ETHYL BENZENE	10	U	10	U	10	U	10	U	10
STYRENE	10	U	10	U	10	U	10	U	10
XYLENE (TOTAL)	10	U	10	U	10	U	10	U	10

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
1,2-DICHLOROETHANE d4	99	99	101	95	87 -- 114
TOLUENE D8	98	98	96	99	82 -- 113
BROMOFLUOROBENZENE	95	95	96	96	83 -- 111

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 20

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EPA METHOD 8240
VOLATILE ORGANICS

FIELD SAMPLE ID:	MW23-GW-01	MW23-GW-01D	MW22-GW-01	MW25-GW-01
LABORATORY SAMPLE ID:	93090201	93090202	93090203	93090204
DATE SAMPLED:	6-16-93	6-16-93	6-16-93	6-16-93
DATE ANALYZED:	6-17-93	6-17-93	6-17-93	6-17-93
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		DL ug/L	
CHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
BROMOMETHANE	10	U	10	U	10	U	10	U	10	U
VINYL CHLORIDE	10	U	10	U	10	U	590		10	U
CHLOROETHANE	10	U	10	U	10	U	10	U	10	U
METHYLENE CHLORIDE	10	U	10	U	10	U	10	U	10	U
ACETONE	10	U	10	U	10	U	10	U	10	U
CARBON DISULFIDE	10	U	10	U	10	U	10	U	10	U
1,1-DICHLOROETHENE	10	U	10	U	10	U	17		10	U
1,1-DICHLOROETHANE	10	U	10	U	10	U	44		10	U
1,2-DICHLOROETHENE (cis)	31		35		17		2,000		10	U
1,2-DICHLOROETHENE (trans)	10	U	10	U	10	U	6	J	10	U
1,2-DICHLOROETHENE (TOTAL)	31		35		17		2,000		10	U
CHLOROFORM	4	J	5	J	10	U	10	U	10	U
1,2-DICHLOROETHANE	57		64		10	U	10	U	10	U
2-BUTANONE	10	U	10	U	10	U	10	U	10	U
1,1,1-TRICHLOROETHANE	10	U	10	U	10	U	34		10	U
CARBON TETRACHLORIDE	10	U	10	U	10	U	10	U	10	U
VINYL ACETATE	10	U	10	U	10	U	10	U	10	U
BROMODICHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROPROPANE	10	U	10	U	10	U	10	U	10	U
cis-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
TRICHLOROETHENE	16,000		17,000		43		120		10	U
DIBROMOCHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
BENZENE	10	U	10	U	10	U	3	J	10	U
trans-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
2-CHLOROETHYL VINYL ETHER	10	U	10	U	10	U	10	U	10	U
BROMOFORM	10	U	10	U	10	U	10	U	10	U
4-METHYL-2-PENTANONE	10	U	10	U	10	U	10	U	10	U
2-HEXANONE	10	U	10	U	10	U	10	U	10	U
TETRACHLOROETHENE	10	U	10	U	10	U	4	J	10	U
1,1,2,2-TETRACHLOROETHANE	10	U	10	U	10	U	10	U	10	U
TOLUENE	10	U	10	U	10	U	6	J	10	U
CHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
ETHYL BENZENE	10	U	10	U	10	U	10	U	10	U
STYRENE	10	U	10	U	10	U	10	U	10	U
XYLENE (TOTAL)	10	U	10	U	10	U	10	U	10	U

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
1,2-DICHLOROETHANE d4	111	97	102	101	87 — 114
TOLUENE D8	100	99	87	84	82 — 113
BROMOFLUOROBENZENE	94	94	95	94	83 — 111

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 20

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EPA METHOD 8240
VOLATILE ORGANICS

FIELD SAMPLE ID:	MW27-GW-01	MW29-GW-01	MW28-GW-01	MW24-GW-01
LABORATORY SAMPLE ID:	93090205	93090206	93090207	93090208
DATE SAMPLED:	6-16-93	6-16-93	6-16-93	6-16-93
DATE ANALYZED:	6-17-93	6-17-93	6-17-93	6-17-93
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		DL ug/L	
CHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
BROMOMETHANE	10	U	10	U	10	U	10	U	10	U
VINYL CHLORIDE	10	U	51		10	U	8,800		10	U
CHLOROETHANE	10	U	4	J	10	U	10	U	10	U
METHYLENE CHLORIDE	10	U	10	U	10	U	10	U	10	U
ACETONE	10	U	38		10	U	10	U	10	U
CARBON DISULFIDE	10	U	10	U	10	U	10	U	10	U
1,1-DICHLOROETHENE	10	U	10	U	10	U	100		10	U
1,1-DICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROETHENE (cis)	10	U	84		10	U	38,000		10	U
1,2-DICHLOROETHENE (trans)	10	U	10	U	10	U	150		10	U
1,2-DICHLOROETHENE (TOTAL)	10	U	84		10	U	39,000		10	U
CHLOROFORM	10	U	10	U	10	U	6	J	10	U
1,2-DICHLOROETHANE	10	U	10	U	10	U	1,300	J	10	U
2-BUTANONE	10	U	10	U	10	U	10	U	10	U
1,1,1-TRICHLOROETHANE	10	U	10	U	3	J	10	U	10	U
CARBON TETRACHLORIDE	10	U	10	U	10	U	10	U	10	U
VINYL ACETATE	10	U	10	U	10	U	10	U	10	U
BROMODICHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROPROPANE	10	U	10	U	10	U	10		10	U
cis-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
TRICHLOROETHENE	10	U	10	U	11		11,000		10	U
DIBROMOCHLOROMETHANE	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10	U
BENZENE	10	U	6	J	10	U	26		10	U
trans-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10	U
2-CHLOROETHYL VINYL ETHER	10	U	10	U	10	U	10	U	10	U
BROMOFORM	10	U	10	U	10	U	10	U	10	U
4-METHYL-2-PENTANONE	10	U	24		10	U	10	U	10	U
2-HEXANONE	10	U	10	U	10	U	10	U	10	U
TETRACHLOROETHENE	10	U	10	U	10	U	10	U	10	U
1,1,2,2-TETRACHLOROETHANE	10	U	10	U	10	U	10	U	10	U
TOLUENE	10	U	250		10	U	140		10	U
CHLOROBENZENE	10	U	10	U	10	U	10	U	10	U
ETHYL BENZENE	10	U	10	U	10	U	59		10	U
STYRENE	10	U	10	U	10	U	10	U	10	U
XYLENE (TOTAL)	10	U	4	J	10	U	110		10	U
SURROGATE % RECOVERY	% REC		% REC		% REC		% REC		CONTROL LIMITS	
1,2-DICHLOROETHANE d4	101		103		102		102		87 — 114	
TOLUENE D8	97		99		96		99		82 — 113	
BROMOFLUOROBENZENE	95		100		96		95		83 — 111	

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 20

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EPA METHOD 8240
VOLATILE ORGANICS

FIELD SAMPLE ID:	MW08-GW-01	RB-29	TB-20	---
LABORATORY SAMPLE ID:	93090209	93090210	93090211	METHOD BLANK
DATE SAMPLED:	6-16-93	6-16-93	6-16-93	---
DATE ANALYZED:	6-18-93	6-18-93	6-18-93	6-17-93
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		DL ug/L
CHLOROMETHANE	10	U	10	U	10	U	10	U	10
BROMOMETHANE	10	U	10	U	10	U	10	U	10
VINYL CHLORIDE	10	U	10	U	10	U	10	U	10
CHLOROETHANE	10	U	10	U	10	U	10	U	10
METHYLENE CHLORIDE	10	U	10	U	10	U	10	U	10
ACETONE	10	U	10	U	10	U	10	U	10
CARBON DISULFIDE	10	U	10	U	10	U	10	U	10
1,1-DICHLOROETHENE	10	U	10	U	10	U	10	U	10
1,1-DICHLOROETHANE	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHENE (cis)	10	U	3	J	10	U	10	U	10
1,2-DICHLOROETHENE (trans)	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHENE (TOTAL)	10	U	3	J	10	U	10	U	10
CHLOROFORM	10	U	10	U	10	U	10	U	10
1,2-DICHLOROETHANE	10	U	10	U	10	U	10	U	10
2-BUTANONE	10	U	10	U	10	U	10	U	10
1,1,1-TRICHLOROETHANE	22	U	10	U	10	U	10	U	10
CARBON TETRACHLORIDE	10	U	10	U	10	U	10	U	10
VINYL ACETATE	10	U	10	U	10	U	10	U	10
BROMODICHLOROMETHANE	10	U	10	U	10	U	10	U	10
1,2-DICHLOROPROPANE	10	U	10	U	10	U	10	U	10
cis-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10
TRICHLOROETHENE	10	U	3	J	2	J	10	U	10
DIBROMOCHLOROMETHANE	10	U	10	U	10	U	10	U	10
1,1,2-TRICHLOROETHANE	10	U	10	U	10	U	10	U	10
BENZENE	10	U	10	U	10	U	10	U	10
trans-1,3-DICHLOROPROPENE	10	U	10	U	10	U	10	U	10
2-CHLOROETHYL VINYL ETHER	10	U	10	U	10	U	10	U	10
BROMOFORM	10	U	10	U	10	U	10	U	10
4-METHYL-2-PENTANONE	10	U	10	U	10	U	10	U	10
2-HEXANONE	10	U	10	U	10	U	10	U	10
TETRACHLOROETHENE	4	J	10	U	10	U	10	U	10
1,1,2,2-TETRACHLOROETHANE	10	U	10	U	10	U	10	U	10
TOLUENE	10	U	10	U	10	U	10	U	10
CHLOROBENZENE	10	U	10	U	10	U	10	U	10
ETHYL BENZENE	10	U	10	U	10	U	10	U	10
STYRENE	10	U	10	U	10	U	10	U	10
XYLENE (TOTAL)	10	U	10	U	10	U	10	U	10

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
1,2-DICHLOROETHANE d4	96	97	100	95	87 — 114
TOLUENE D8	99	84	100	99	82 — 113
BROMOFLUOROBENZENE	96	95	94	96	83 — 111

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 20

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EPA METHOD 8240
VOLATILE ORGANICS

FIELD SAMPLE ID: ---
LABORATORY SAMPLE ID: METHOD BLANK
DATE SAMPLED: ---
DATE ANALYZED: 6-18-93
DILUTION FACTOR(S): 1

PARAMETER	RESULT ug/L	DL ug/L
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
1,2-DICHLOROETHENE (cis)	10 U	10 U
1,2-DICHLOROETHENE (trans)	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	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
VINYL ACETATE	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
2-CHLOROETHYL VINYL ETHER	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
ETHYL BENZENE	10 U	10 U
STYRENE	10 U	10 U
XYLENE (TOTAL)	10 U	10 U

SURROGATE % RECOVERY	% REC	CONTROL LIMITS
1,2-DICHLOROETHANE d4	94	87 -- 114
TOLUENE D8	100	82 -- 113
BROMOFLUOROBENZENE	95	83 -- 111

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HISTORICAL OUTFALL SOILS

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO3-SB3-04	HO3-SB3-05	HO3-SB3-06
LABORATORY ID:	93083903	93083904	93083905
DATE SAMPLED:	6-3-93	6-3-93	6-3-93
DATE EXTRACTED:	6-9-93	6-9-93	6-18-93
% SOLIDS:	90.3	90.3	89.8
DILUTION FACTORS:	5X	5X	5X

PARAMETER	RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	15.9		74.1		10.7		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.4		8.5		8.0		5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	39.9		174		13.3		5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
SURROGATE % RECOVERY							
CHLOROBROMOMETHANE(47/155)	73		83		118		
1-CHLORO-2-BROMOPROPANE(34/160)	93		117		120		
1,4-DICHLOROBUTANE(24/138)	89		96		113		

Note: Methylene chloride results should be viewed with caution due to laboratory background.

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-26	TB-18	—
LABORATORY ID:	93083901	93083902	BLANK
DATE SAMPLED:	6-3-93	6-3-93	—
DATE EXTRACTED:	6-8-93	6-9-93	6-8-93
% SOLIDS:	—	—	—
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	13.3		13.4		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	84	77	74
1-CHLORO-2-BROMOPROPANE(62/135)	96	95	94
1,4-DICHLOROBUTANE(61/131)	89	88	91

Note: Methylene chloride results should be viewed with caution due to laboratory background.

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 16

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO3-SB6-01	HO3-SB6-02	HO3-SB7-03	HO3-SB7-04
LABORATORY ID:	93080601	93080602	93080603	93080604
DATE SAMPLED:	5-27-93	5-27-93	5-27-93	5-27-93
DATE EXTRACTED:	6-03-93	6-03-93	6-03-93	6-03-93
% SOLIDS:	79.6	83.5	88.4	90.5
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.4		10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	86	99	98	98
1-CHLORO-2-BROMOPROPANE(34/160)	88	97	99	97
1,4-DICHLOROBUTANE(24/138)	79	90	92	88

Note: Methylene chloride results should be viewed with caution due to laboratory background.

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 16

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO1-SB1-04	HO1-SB1-05	—
LABORATORY ID:	93080605	93080606	BLANK
DATE SAMPLED:	5-27-93	5-27-93	—
DATE EXTRACTED:	6-03-93	6-03-93	6-03-93
% SOLIDS:	90.5	91.3	—
DILUTION FACTORS:	5X	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	15.4		13.3		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	6.6		5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	6.6		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	127	99	100
1-CHLORO-2-BROMOPROPANE(34/160)	93	96	104
1,4-DICHLOROBUTANE(24/138)	83	83	94

Note: Methylene chloride results should be viewed with caution due to laboratory background.

000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO5-SB6-01	HO5-SB6-02	HO5-SB6-03	HO5-SB2-01
LABORATORY ID:	93077201	93077202	93077203	93077204
DATE SAMPLED:	5-21-93	5-21-93	5-21-93	5-21-93
DATE EXTRACTED:	5-27-93	5-27-93	6-2-93	6-2-93
% SOLIDS:	90.3	91.1	90.7	89.7
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	12.6		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	9.8		5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	12.0		5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	47	113	97	68
1-CHLORO-2-BROMOPROPANE(34/160)	49	95	136	93
1,4-DICHLOROBUTANE(24/138)	44	86	126	94

Note: Methylene chloride results should be viewed with caution due to laboratory background.

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO5-SB2-02	HO5-SB4-01	HO5-SB4-02	HO5-SB3-01
LABORATORY ID:	93077205	93077206	93077207	93077208
DATE SAMPLED:	5-21-93	5-21-93	5-21-93	5-21-93
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	6-2-93
% SOLIDS:	90.6	88.2	89.9	90.2
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.2	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	8.7	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	6.8	U	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	66	85	64	66
1-CHLORO-2-BROMOPROPANE(34/160)	98	137	88	92
1,4-DICHLOROBUTANE(24/138)	96	129	90	97

Note: Methylene chloride results should be viewed with caution due to laboratory background.

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO5-SB3-02	HO5-SB1-01	HO5-SB1-02	—
LABORATORY ID:	93077209	93077210	93077211	BLANK
DATE SAMPLED:	5-21-93	5-21-93	5-21-93	—
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	5-26-93
% SOLIDS:	87.2	90.9	89.3	—
DILUTION FACTORS:	5X	5X	5X	1X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	180		280		5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	340		590		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	9.3		12.7		3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	64	100	78	131
1-CHLORO-2-BROMOPROPANE(34/160)	88	137	102	138
1,4-DICHLOROBUTANE(24/138)	91	129	104	128

Note: Methylene chloride results should be viewed with caution due to laboratory background.

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8010
PURGEABLE HALOCARBONS

FIELD SAMPLE ID: —
LABORATORY ID: BLANK
DATE SAMPLED: —
DATE EXTRACTED: 6-1-93
% SOLIDS: —
DILUTION FACTORS: 1X

PARAMETER	RESULT	MDL
	ug/kg	ug/kg
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	99
1-CHLORO-2-BROMOPROPANE(34/160)	99
1,4-DICHLOROBUTANE(24/138)	102

Note: Methylene chloride results should be viewed with caution due to laboratory background.

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-18	TB-12	—
LABORATORY ID:	93077212	93077213	BLANK
DATE SAMPLED:	5-21-93	5-21-93	—
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	—	—	—
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	92	89	131
1-CHLORO-2-BROMOPROPANE(62/135)	96	93	138
1,4-DICHLOROBTANE(61/131)	93	89	128

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 16

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-22	TB-15	---
LABORATORY ID:	93080607	93080608	BLANK
DATE SAMPLED:	5-27-93	5-27-93	---
DATE EXTRACTED:	6-03-93	6-03-93	6-03-93
% SOLIDS:	---	---	---
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	99	99	100
1-CHLORO-2-BROMOPROPANE(62/135)	103	100	104
1,4-DICHLOROBUTANE(61/131)	98	92	94

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO7-SB1-01	HO7-SB1-02	HO7-SB2-01	HO7-SB2-02
LABORATORY ID:	93076307	93076308	93076309	93076310
DATE SAMPLED:	5-20-93	5-20-93	5-20-93	5-20-93
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93	5-27-93
% SOLIDS:	90.3	90.5	90.8	90.8
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	11.4		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	7.6		5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	87	82	94	99
1-CHLORO-2-BROMOPROPANE(34/160)	93	84	97	93
1,4-DICHLOROBUTANE(24/138)	88	94	88	84

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-17	TB-11	---
LABORATORY ID:	93076313	93076314	BLANK
DATE SAMPLED:	5-20-93	5-20-93	---
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	---	---	---
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT		RESULT		RESULT		MDL
	ug/L		ug/L		ug/L		ug/L
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	89	94	131
1-CHLORO-2-BROMOPROPANE(62/135)	93	100	138
1,4-DICHLOROBUTANE(61/131)	89	98	128

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO6-SB1-01	HO6-SB1-02	—
LABORATORY ID:	93076311	93076312	BLANK
DATE SAMPLED:	5-20-93	5-20-93	—
DATE EXTRACTED:	5-27-93	5-27-93	5-26-93
% SOLIDS:	91.1	90.2	—
DILUTION FACTORS:	5X	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	13.1		10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	20.8		64.6		5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	6.0		57.5		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	131	112	131
1-CHLORO-2-BROMOPROPANE(34/160)	100	88	138
1,4-DICHLOROBUTANE(24/138)	90	78	128

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO7-SB3-01	HO6-SB2-02	HO7-SB3-02	HO6-SB2-01
LABORATORY ID:	93069001	93069002	93069003	93069004
DATE SAMPLED:	5-9-93	5-9-93	5-9-93	5-9-93
DATE EXTRACTED:	5-15-93	5-15-93	5-15-93	5-16-93
% SOLIDS:	89.4	90.2	90.5	55.0
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.7		20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	15.6		16.3		10.7		10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	9.6		5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	130		5.0	U	110		5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	17.4		5.0	U	5.0	U	13.5		5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	101	130	92	90
1-CHLORO-2-BROMOPROPANE(34/160)	90	106	90	91
1,4-DICHLOROBUTANE(24/138)	82	88	92	91

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO3-SB1-02	HO3-SB1-01	HO4-SB2-01	HO4-SB2-02
LABORATORY ID:	93069005	93069006	93069007	93069008
DATE SAMPLED:	5-9-93	5-9-93	5-9-93	5-9-93
DATE EXTRACTED:	5-16-93	5-16-93	5-16-93	5-16-93
% SOLIDS:	82.6	83.6	87.5	89.2
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	18.3		49.6		29.8		23.3		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	68.2		5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	7.7		29.2		16.5		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155	100	131	118	110
1-CHLORO-2-BROMOPROPANE(34/160)	87	131	101	105
1,4-DICHLOROBUTANE(24/138)	56	84	77	88

000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID: —
 LABORATORY ID: BLANK
 DATE SAMPLED: —
 DATE EXTRACTED: 5-15-93
 % SOLIDS: —
 DILUTION FACTORS: 1X

PARAMETER	RESULT	MDL
	ug/kg	ug/kg
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	113
1-CHLORO-2-BROMOPROPANE(34/160)	106
1,4-DICHLOROBUTANE(24/138)	97

000006

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-26	TB-18	—
LABORATORY ID:	93083901	93083902	BLANK
DATE SAMPLED:	6-3-93	6-3-93	—
DATE EXTRACTED:	6-8-93	6-9-93	6-8-93
% SOLIDS:	—	—	—
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	94	96	100
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006009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-08	TB-05	---
LABORATORY ID:	93069009	93069010	BLANK
DATE SAMPLED:	5-9-93	5-9-93	---
DATE EXTRACTED:	5-15-93	5-15-93	5-15-93
% SOLIDS:	---	---	---
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L	RESULT ug/L	RESULT ug/L	MDL ug/L
CHLOROMETHANE	20.0 U	20.0 U	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0 U	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0 U	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0 U	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0 U	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0 U	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
CHLOROFORM	5.0 U	5.0 U	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0 U	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0 U	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0 U	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0 U	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0 U	50.0 U	50.0
BROMOFORM	20.0 U	20.0 U	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0 U	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0 U	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0 U	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	110	114	113
1-CHLORO-2-BROMOPROPANE(62/135)	101	108	106
1,4-DICHLOROBUTANE(61/131)	104	98	97

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	HO1-SB2-01	HO1-SB2-02	HO5-SB5-01	HO5-SB5-02
LABORATORY ID:	93071301	93071302	93071303	93071304
DATE SAMPLED:	5-10-93	5-10-93	5-10-93	5-10-93
DATE EXTRACTED:	5-17-93	5-17-93	5-17-93	5-17-93
% SOLIDS:	78.2	78.4	80.8	88.8
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	38.0		34.0		53.0		47.0		10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	86	72	75	102
1-CHLORO-2-BROMOPROPANE(34/160)	98	95	97	141
1,4-DICHLOROBUTANE(24/138)	100	99	100	133

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	H02-SB4-01	H02-SB4-02
LABORATORY ID:	93071305	93071306
DATE SAMPLED:	5-10-93	5-10-93
DATE EXTRACTED:	5-17-93	5-17-93
% SOLIDS:	79.4	68.1
DILUTION FACTORS:	5X	5X

PARAMETER	RESULT	RESULT	MDL
	ug/kg	ug/kg	ug/kg
CHLOROMETHANE	20.0 U	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0 U	20.0
METHYLENE CHLORIDE	34.0	24.9	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0 U	5.0
cis-1,2-DICHLOROETHENE	62.0	76.9	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0
CHLOROFORM	5.0 U	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0
TRICHLOROETHENE	15.9	7.0	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0 U	50.0
BROMOFORM	20.0 U	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	107	75
1-CHLORO-2-BROMOPROPANE(34/160)	141	91
1,4-DICHLOROBUTANE(24/138)	112	84

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	---
LABORATORY ID:	BLANK
DATE SAMPLED:	---
DATE EXTRACTED:	5-17-93
% SOLIDS:	---
DILUTION FACTORS:	1X

PARAMETER	RESULT	MDL
	ug/kg	ug/kg
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	77
1-CHLORO-2-BROMOPROPANE(34/160)	102
1,4-DICHLOROBUTANE(24/138)	101

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	H04-SB1-01
LABORATORY ID:	93079508
DATE SAMPLED:	5-25-93
DATE EXTRACTED:	5-29-93
% SOLIDS:	91.1
DILUTION FACTORS:	5X

PARAMETER	RESULT ug/kg	MDL ug/kg
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	112	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	8.2	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	200	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	35.2	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0
SURROGATE % RECOVERY		
CHLOROBROMOMETHANE(47/155)	101	
1-CHLORO-2-BROMOPROPANE(34/160)	92	
1,4-DICHLOROBUTANE(24/138)	81	

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	H04-SB1-02	H03-SB5-01	H03-SB5-02	H03-SB4-02
LABORATORY ID:	93079509	93079510	93079511	93079513
DATE SAMPLED:	5-25-93	5-25-93	5-25-93	5-26-93
DATE EXTRACTED:	5-29-93	5-29-93	5-29-93	5-29-93
% SOLIDS:	89.9	90.3	89.3	89.9
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.3		5.0
cis-1,2-DICHLOROETHENE	145		9.8		71.6		8.8		5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	7.7		5.0	U	5.0	U	39.2		5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	400		21.5		28.0		5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	18.0		3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	93	51	91	84
1-CHLORO-2-BROMOPROPANE(34/160)	96	52	88	90
1,4-DICHLOROBUTANE(24/138)	72	44	71	79

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	H03-SB4-03	H03-SB2-02	H03-SB2-03
LABORATORY ID:	93079514	93079515	93079516
DATE SAMPLED:	5-26-93	5-26-93	5-26-93
DATE EXTRACTED:	5-29-93	5-30-93	5-30-93
% SOLIDS:	89.7	90.3	88.9
DILUTION FACTORS:	5X	5X	5X

PARAMETER	RESULT		RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg		ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	9.3		5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	24.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	12.1		40.2		143		5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0
CHLORO BENZENE	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	105	86	83
1-CHLORO-2-BROMOPROPANE(34/160)	88	85	84
1,4-DICHLOROBUTANE(24/138)	79	71	72

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	H02-SB1-02
LABORATORY ID:	93079521
DATE SAMPLED:	5-26-93
DATE EXTRACTED:	5-30-93
% SOLIDS:	86.9
DILUTION FACTORS:	5X

PARAMETER	RESULT	MDL
	ug/kg	ug/kg
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	35.5	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	360	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	14.2	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0
SURROGATE % RECOVERY		
CHLOROBROMOMETHANE(47/155)	95	
1-CHLORO-2-BROMOPROPANE(34/160)	85	
1,4-DICHLOROBUTANE(24/138)	72	

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	H02-SB1-03	H02-SB3-02	H02-SB3-03	H02-SB2-01
LABORATORY ID:	93079522	93079523	93079524	93079525
DATE SAMPLED:	5-26-93	5-26-93	5-26-93	5-26-93
DATE EXTRACTED:	5-30-93	5-30-93	5-30-93	6-1-93
% SOLIDS:	90.4	79.9	84.5	85.8
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	260		20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	627		5.0	U	10.0		109		5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	6.8		5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.8		12.2		5.0	U	22.9		5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	18.8		15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	95	125	107	98
1-CHLORO-2-BROMOPROPANE(34/160)	87	127	105	95
1,4-DICHLOROBUTANE(24/138)	76	110	93	93

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	H02-SB2-02	H02-SB2-03	---	---
LABORATORY ID:	93079526	93079527	BLANK	BLANK
DATE SAMPLED:	5-26-93	5-26-93	---	---
DATE EXTRACTED:	6-1-93	6-1-93	5-29-93	6-1-93
% SOLIDS:	87.9	90.3	---	---
DILUTION FACTORS:	5X	5X	1X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	92.3		118		5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	14.2		66.4		5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	17.8		16.1		15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(47/155)	72	70	81	99
1-CHLORO-2-BROMOPROPANE(34/160)	97	95	80	99
1,4-DICHLOROBUTANE(24/138)	103	92	82	102

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-20	RB-21	TB-14	---
LABORATORY ID:	93079512	93079528	93079529	BLANK
DATE SAMPLED:	5-25-93	5-26-93	5-26-93	---
DATE EXTRACTED:	5-28-93	6-1-93	6-1-93	5-29-93
% SOLIDS:	---	---	---	---
DILUTION FACTORS:	1X	1X	1X	1X

PARAMETER	RESULT		RESULT		RESULT		RESULT		MDL
	ug/L		ug/L		ug/L		ug/L		ug/L
CHLOROMETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
BROMOMETHANE	50.0	U	50.0	U	50.0	U	50.0	U	50.0
VINYL CHLORIDE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
CHLOROETHANE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
METHYLENE CHLORIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
TRICHLOROFLUOROMETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-DICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CHLOROFORM	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,2-DICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
1,1,1-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
CARBON TETRACHLORIDE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
BROMODICHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,2-DICHLOROPROPANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
CIS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
TRICHLOROETHENE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
DIBROMOCHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U	10.0
1,1,2-TRICHLOROETHANE	5.0	U	5.0	U	5.0	U	5.0	U	5.0
2-CHLOROETHYL VINYL ETHER	50.0	U	50.0	U	50.0	U	50.0	U	50.0
BROMOFORM	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
TETRACHLOROETHENE	3.0	U	3.0	U	3.0	U	3.0	U	3.0
CHLOROBENZENE	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,4-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,2-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0
1,3-DICHLOROBENZENE	15.0	U	15.0	U	15.0	U	15.0	U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	98	94	78	81
1-CHLORO-2-BROMOPROPANE(62/135)	99	99	85	80
1,4-DICHLOROBUTANE(61/131)	99	101	86	82

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID: —
 LABORATORY ID: BLANK
 DATE SAMPLED: —
 DATE EXTRACTED: 6-1-93
 % SOLIDS: —
 DILUTION FACTORS: 1X

PARAMETER	RESULT	MDL
	ug/L	ug/L
CHLOROMETHANE	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0
CHLOROFORM	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0
BROMOFORM	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	99
1-CHLORO-2-BROMOPROPANE(62/135)	99
1,4-DICHLOROBUTANE(61/131)	102

000012

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 19

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO3-SB3-04	HO3-SB3-05	HO3-SB3-06
LABORATORY SAMPLE ID:	93083903	93083904	93083905
DATE SAMPLED:	6-3-93	6-3-93	6-3-93
DATE EXTRACTED:	6-9-93	6-9-93	6-9-93 4/18/93
% SOLIDS:	90.3	90.3	89.8
DILUTION FACTOR(S):	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	55	93	86
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000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 16

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO3-SB6-01	HO3-SB6-02	HO3-SB7-03	HO3-SB7-04
LABORATORY SAMPLE ID:	93080601	93080602	93080603	93080604
DATE SAMPLED:	5-27-93	5-27-93	5-27-93	5-27-93
DATE EXTRACTED:	6-03-93	6-03-93	6-03-93	6-03-93
% SOLIDS:	79.6	83.5	88.4	90.5
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	83	92	93	88
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000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 16

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO1-SB1-04	HO1-SB1-05	—
LABORATORY SAMPLE ID:	93080605	93080606	BLANK
DATE SAMPLED:	5-27-93	5-27-93	—
DATE EXTRACTED:	6-03-93	6-03-93	6-03-93
% SOLIDS:	90.5	91.3	—
DILUTION FACTOR(S):	5X	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	83	91	94
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000008

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 16

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-22	TB-15	—
LABORATORY SAMPLE ID:	93080607	93080608	BLANK
DATE SAMPLED:	5-27-93	5-27-93	—
DATE EXTRACTED:	6-03-93	6-03-93	6-03-93
% SOLIDS:	—	—	—
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(68/124)	91	89	94
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000009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO5-SB6-01	HO5-SB6-02	HO5-SB6-03	HO5-SB2-01
LABORATORY ID:	93077201	93077202	93077203	93077204
DATE SAMPLED:	5-21-93	5-21-93	5-21-93	5-21-93
DATE EXTRACTED:	5-27-93	5-27-93	5-27-93	6-2-93
% SOLIDS:	90.3	91.1	90.7	89.7
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			MDL ug/kg
BENZENE _____	20	U		20	U		20	U		20	U		20
TOLUENE _____	20	U		20	U		20	U		20	U		20
ETHYL BENZENE _____	20	U		20	U		20	U		20	U		20
TOTAL XYLENES _____	30	U		30	U		30	U		30	U		30
STYRENE _____	30	U		30	U		30	U		30	U		30
CHLOROBENZENE _____	20	U		20	U		20	U		20	U		20
1,4-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40
1,3-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40
1,2-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	43	82	91	93
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000009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO5-SB2-02	HO5-SB4-01	HO5-SB4-02	HO5-SB3-01
LABORATORY ID:	93077205	93077206	93077207	93077208
DATE SAMPLED:	5-21-93	5-21-93	5-21-93	5-21-93
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	6-2-93
% SOLIDS:	90.6	88.2	89.9	90.2
DILUTION FACTORS:	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	89	92	88	91
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000010

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO5-SB3-02	HO5-SB1-01	HO5-SB1-02	—
LABORATORY ID:	93077209	93077210	93077211	BLANK
DATE SAMPLED:	5-21-93	5-21-93	5-21-93	—
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	5-26-93
% SOLIDS:	87.2	90.9	89.3	—
DILUTION FACTORS:	5X	5X	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	91	97	83	96
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000011

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID: —
LABORATORY ID: BLANK
DATE SAMPLED: —
DATE EXTRACTED: 6-1-93
% SOLIDS: —
DILUTION FACTORS: 1X

PARAMETER	RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20
TOLUENE _____	20	U	20
ETHYL BENZENE _____	20	U	20
TOTAL XYLENES _____	30	U	30
STYRENE _____	30	U	30
CHLOROBENZENE _____	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109) 101

000012

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-18	TB-12	—
LABORATORY SAMPLE ID:	93077212	93077213	BLANK
DATE SAMPLED:	5-21-93	5-21-93	—
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	—	—	—
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L			RESULT ug/L			RESULT ug/L			MDL ug/L
BENZENE —————	20	U		20	U		20	U		20
TOLUENE —————	20	U		20	U		20	U		20
ETHYL BENZENE —————	20	U		20	U		20	U		20
TOTAL XYLENES —————	30	U		30	U		30	U		30
STYRENE —————	30	U		30	U		30	U		30
CHLOROBENZENE —————	20	U		20	U		20	U		20
1,4-DICHLOROBENZENE —————	40	U		40	U		40	U		40
1,3-DICHLOROBENZENE —————	40	U		40	U		40	U		40
1,2-DICHLOROBENZENE —————	40	U		40	U		40	U		40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(68/124)	89	87	96
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000013

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO7-SB1-01	HO7-SB1-02	HO7-SB2-01	HO7-SB2-02
LABORATORY SAMPLE ID:	93076307	93076308	93076309	93076310
DATE SAMPLED:	5-20-93	5-20-93	5-20-93	5-20-93
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93	5-27-93
% SOLIDS:	90.3	90.5	90.8	90.8
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	84	77	89	86
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000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO6-SB1-01	HO6-SB1-02	---
LABORATORY SAMPLE ID:	93076311	93076312	BLANK
DATE SAMPLED:	5-20-93	5-20-93	---
DATE EXTRACTED:	5-27-93	5-27-93	5-26-93
% SOLIDS:	91.1	90.2	---
DILUTION FACTOR(S):	5X	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	88	78	96
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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO7-SB3-01	HO6-SB2-02	HO7-SB3-02	HO6-SB2-01
LABORATORY SAMPLE ID:	93069001	93069002	93069003	93069004
DATE SAMPLED:	5-9-93	5-9-93	5-9-93	5-9-93
DATE EXTRACTED:	5-15-93	5-15-93	5-15-93	5-16-93
% SOLIDS:	89.4	90.2	90.5	55.0
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109):	99	96	92	38
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000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO3-SB1-02	HO3-SB1-01	HO4-SB2-01	HO4-SB2-02
LABORATORY SAMPLE ID:	93069005	93069006	93069007	93069008
DATE SAMPLED:	5-9-93	5-9-93	5-9-93	5-9-93
DATE EXTRACTED:	5-16-93	5-16-93	5-16-93	5-16-93
% SOLIDS:	82.6	83.6	87.5	89.2
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109):	78	89	91	91
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000008

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID: —
LABORATORY SAMPLE ID: BLANK
DATE SAMPLED: —
DATE EXTRACTED: 5-15-93
% SOLIDS: —
DILUTION FACTOR(S): 1X

PARAMETER	RESULT ug/kg		MDL ug/kg
BENZENE —————	20	U	20
TOLUENE —————	20	U	20
ETHYL BENZENE —————	20	U	20
TOTAL XYLENES —————	30	U	30
STYRENE —————	30	U	30
CHLOROBENZENE —————	20	U	20
1,4-DICHLOROBENZENE —————	40	U	40
1,3-DICHLOROBENZENE —————	40	U	40
1,2-DICHLOROBENZENE —————	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109): 99

000009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 06

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-08	TB-05	---
LABORATORY SAMPLE ID:	93069009	93069010	BLANK
DATE SAMPLED:	5-9-93	5-9-93	---
DATE EXTRACTED:	5-15-93	5-15-93	5-15-93
% SOLIDS:	---	---	---
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE _____	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124):	100	98	99
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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO1-SB2-01	HO1-SB2-02	HO5-SB5-01	HO5-SB5-02
LABORATORY SAMPLE ID:	93071301	93071302	93071303	93071304
DATE SAMPLED:	5-10-93	5-10-93	5-10-93	5-10-93
DATE EXTRACTED:	5-17-93	5-17-93	5-17-93	5-17-93
% SOLIDS:	78.2	78.4	80.8	88.8
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRIFLUOROTOLUENE(24/109)	89	86	89	90
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000020

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	HO2-SB4-01	HO2-SB4-02
LABORATORY SAMPLE ID:	93071305	93071306
DATE SAMPLED:	5-10-93	5-10-93
DATE EXTRACTED:	5-17-93	5-17-93
% SOLIDS:	79.4	68.1
DILUTION FACTOR(S):	5X	5X

PARAMETER	RESULT		RESULT		MDL
	ug/kg		ug/kg		ug/kg
BENZENE _____	20	U	20	U	20
TOLUENE _____	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30
STYRENE _____	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRIFLUOROTOLUENE(24/109)	88	80
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000021

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	—
LABORATORY SAMPLE ID:	BLANK
DATE SAMPLED:	—
DATE EXTRACTED:	5-17-93
% SOLIDS:	—
DILUTION FACTOR(S):	1X

PARAMETER	RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20
TOLUENE _____	20	U	20
ETHYL BENZENE _____	20	U	20
TOTAL XYLENES _____	30	U	30
STYRENE _____	30	U	30
CHLOROBENZENE _____	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40

SURROGATE % RECOVERY

A,A,A-TRIFLUOROTOLUENE(24/109)	99
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000023

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-09	TB-06	RB-10	—
LABORATORY SAMPLE ID:	93071309	93071310	93071320	BLANK
DATE SAMPLED:	5-10-93	5-10-93	5-11-93	—
DATE EXTRACTED:	5-18-93	5-18-93	5-18-93	5-17-93
% SOLIDS:	—	—	—	—
DILUTION FACTOR(S):	1X	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE —————	20	U	20	U	20	U	20	U	20
TOLUENE —————	20	U	20	U	20	U	20	U	20
ETHYL BENZENE —————	20	U	20	U	20	U	20	U	20
TOTAL XYLENES —————	30	U	30	U	30	U	30	U	30
STYRENE —————	30	U	30	U	30	U	30	U	30
CHLOROBENZENE —————	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE —————	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE —————	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE —————	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	92	88	93	99
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000024

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:
LABORATORY SAMPLE ID:
DATE SAMPLED:
DATE EXTRACTED:
% SOLIDS:
DILUTION FACTOR(S):

H04-SB1-01
93079508
5-25-93
5-29-93
91.1
5X

PARAMETER

BENZENE _____
TOLUENE _____
ETHYL BENZENE _____
TOTAL XYLENES _____
STYRENE _____
CHLOROBENZENE _____
1,4-DICHLOROBENZENE _____
1,3-DICHLOROBENZENE _____
1,2-DICHLOROBENZENE _____

RESULT
ug/kg

MDL
ug/kg

20	U	20
20	U	20
20	U	20
30	U	30
30	U	30
20	U	20
40	U	40
40	U	40
40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)

112

000014

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	H04-SB1-02	H03-SB5-01	H03-SB5-02	H03-SB4-02
LABORATORY SAMPLE ID:	93079509	93079510	93079511	93079513
DATE SAMPLED:	5-25-93	5-25-93	5-25-93	5-26-93
DATE EXTRACTED:	5-29-93	5-29-93	5-29-93	5-29-93
% SOLIDS:	89.9	90.3	89.3	89.9
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	114	49	86	87
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000015

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	H03-SB4-03	H03-SB2-02	H03-SB2-03
LABORATORY SAMPLE ID:	93079514	93079515	93079516
DATE SAMPLED:	5-26-93	5-26-93	5-26-93
DATE EXTRACTED:	5-29-93	5-30-93	5-30-93
% SOLIDS:	89.7	90.3	88.9
DILUTION FACTOR(S):	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	87	84	86
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000016

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	H02-SB1-02
LABORATORY SAMPLE ID:	93079521
DATE SAMPLED:	5-26-93
DATE EXTRACTED:	5-30-93
% SOLIDS:	86.9
DILUTION FACTOR(S):	5X

PARAMETER	RESULT ug/kg	MDL ug/kg
BENZENE _____	20 U	20
TOLUENE _____	20 U	20
ETHYL BENZENE _____	20 U	20
TOTAL XYLENES _____	30 U	30
STYRENE _____	30 U	30
CHLOROBENZENE _____	20 U	20
1,4-DICHLOROBENZENE _____	40 U	40
1,3-DICHLOROBENZENE _____	40 U	40
1,2-DICHLOROBENZENE _____	40 U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	85
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000017

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	H02-SB1-03	H02-SB3-02	H02-SB3-03	H02-SB2-01
LABORATORY SAMPLE ID:	93079522	93079523	93079524	93079525
DATE SAMPLED:	5-26-93	5-26-93	5-26-93	5-26-93
DATE EXTRACTED:	5-30-93	5-30-93	5-30-93	6-1-93
% SOLIDS:	90.4	79.9	84.5	85.8
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	86	84	70	96
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000018

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	H02-SB2-02	H02-SB2-03	---	---
LABORATORY SAMPLE ID:	93079526	93079527	BLANK	BLANK
DATE SAMPLED:	5-26-93	5-26-93	---	---
DATE EXTRACTED:	6-1-93	6-1-93	5-29-93	6-1-93
% SOLIDS:	87.9	90.3	---	---
DILUTION FACTOR(S):	5X	5X	1X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE -----	20	U	20	U	20	U	20	U	20
TOLUENE -----	20	U	20	U	20	U	20	U	20
ETHYL BENZENE -----	20	U	20	U	20	U	20	U	20
TOTAL XYLENES -----	30	U	30	U	30	U	30	U	30
STYRENE -----	30	U	30	U	30	U	30	U	30
CHLOROBENZENE -----	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE -----	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE -----	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE -----	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	96	89	90	101
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000019

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 15

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-20	RB-21	TB-14	---
LABORATORY SAMPLE ID:	93079512	93079528	93079529	BLANK
DATE SAMPLED:	5-25-93	5-26-93	5-26-93	---
DATE EXTRACTED:	5-28-93	6-1-93	6-1-93	6-1-93
% SOLIDS:	---	---	---	---
DILUTION FACTOR(S):	1X	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(68/124)	96	96	84	101
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000020

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK	RB-26	HO3-SB3-04	HO3-SB3-05				
	LABORATORY ID:	0839-MB	0839-MB	0839-01	0839-03	0839-04				
	DATE SAMPLED:			6/03/93	6/03/93	6/03/93				
	DATE ANALYZED:	6/29/93	6/29/93	6/29/93	6/29/93	6/29/93				
	% SOLID:	100%	LIQUID BLANK	LIQUID	90.3%	90.3%				
	DILUTION FACTOR:	1	1	1	1	1				
PARAMETER	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT				
	ug/kg	ug/L	ug/L	ug/kg	ug/kg	ug/kg				
CADMIUM METHOD 6010	1.000	U	5.00	U	5.00	U	1.075	U	1.107	U
CHROMIUM METHOD 6010	2.000	U	10.0	U	10.0	U	12.171		12.669	
LEAD METHOD 6010	8.000	U	40.0	U	40.0	U	12.063		9.590	
ZINC METHOD 6010	4.000	U	20.0	U	20.0	U	50.748		37.874	
	DATE ANALYZED:		6/14/93		6/14/93		6/14/93		6/14/93	
	DILUTION FACTOR:		1		1		1		1	
FLUORIDE METHOD 340.2			100.0	U	100.0	U	1.110		1.550	
	DATE ANALYZED:				6/07/93		6/07/93		6/07/93	
pH METHOD 9045					8.49		7.47		7.50	

000010

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 13

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID: HO3-SB3-06
LABORATORY ID: 0839-05
DATE SAMPLED: 6/03/93
DATE ANALYZED: 6/29/93
% SOLID: 89.8%
DILUTION FACTOR:

PARAMETER	RESULT ug/kg
CADMIUM METHOD 6010	1,103
CHROMIUM METHOD 6010	11,555
LEAD METHOD 6010	10,673
ZINC METHOD 6010	40,574

DATE ANALYZED: 6/14/93
DILUTION FACTOR: 1

FLUORIDE METHOD 340.2	1,380
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DATE ANALYZED: 6/07/93

pH METHOD 9045	7.53
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00001

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

ANALYSIS PERFORMED ON TOTALS

		FIELD SAMPLE ID:	METHOD BLANK		METHOD BLANK		H05-SB6-01		H05-SB6-02		H05-SB6-03	
		LABORATORY ID:	0772-MB		0772-MB		0772-01		0772-02		0772-03	
		DATE SAMPLED:					5/21/93		5/21/93		5/21/93	
		DATE ANALYZED:	6/02/93		6/02/93		6/02/93		6/02/93		6/02/93	
		% SOLID:	100%		LIQUID BLANK		90.3%		91.1%		90.7%	
		DILUTION FACTOR:	1		1		1		1		1	
PARAMETER			RESULT		RESULT		RESULT		RESULT		RESULT	
			ug/kg		ug/L		ug/kg		ug/kg		ug/kg	
CADMIUM METHOD 6010			1.000	U	5.00	U	1,086	U	1,076	U	1,081	U
CHROMIUM METHOD 6010			2.000	U	10.0	U	15,591		14,593		14,290	
LEAD METHOD 6010			8.000	U	40.0	U	14,288		13,431		13,663	
ZINC METHOD 6010			4.000	U	20.0	U	57,542		32,070		31,563	
			DATE ANALYZED:		6/01/93		6/01/93		6/01/93		6/01/93	
			DILUTION FACTOR:		1		1		1		1	
FLUORIDE METHOD 340.2					100.0	U	1,600		700		1,440	
			DATE ANALYZED:				5/25/93		5/25/93		5/25/93	
pH METHOD 9045							7.55 S.U.		7.45 S.U.		7.54 S.U.	

000014

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	H05-SB2-01	H05-SB2-02	H05-SB4-01	H05-SB4-02	H05-SB3-01
LABORATORY ID:	0772-04	0772-05	0772-06	0772-07	0772-08
DATE SAMPLED:	5/21/93	5/21/93	5/21/93	5/21/93	5/21/93
DATE ANALYZED:	6/02/93	6/02/93	6/02/93	6/02/93	6/02/93
% SOLID:	89.7%	90.6%	88.2%	89.9%	90.0%
DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT	RESULT	RESULT	RESULT	RESULT
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
CADMIUM METHOD 6010	1,093 U	1,072 U	1,123 U	1,091 U	1,100 U
CHROMIUM METHOD 6010	15,935	14,402	15,604	14,526	14,917
LEAD METHOD 6010	14,187	13,545	16,098	15,813	14,851
ZINC METHOD 6010	34,975	34,934	36,146	37,078	31,903
DATE ANALYZED:	6/01/93	6/01/93	6/01/93	6/01/93	6/01/93
DILUTION FACTOR:	1	1	1	1	1
FLUORIDE METHOD 340.2	3,250	1,820	1,360	1,240	1,730
DATE ANALYZED:	5/25/93	5/25/93	5/25/93	5/25/93	5/25/93
pH METHOD 9045	7.57 S.U.	7.48 S.U.	7.43 S.U.	7.47 S.U.	7.51 S.U.

000015

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	H05-SB3-02	H05-SB1-01	H05-SB1-02	RB-18
	LABORATORY ID:	0772-09	0772-10	0772-11	0772-12
	DATE SAMPLED:	5/21/93	5/21/93	5/21/93	5/21/93
	DATE ANALYZED:	6/02/93	6/02/93	6/02/93	6/02/93
	% SOLID:	87.2%	90.9%	89.3%	LIQUID
	DILUTION FACTOR:	1	1	1	1
PARAMETER	RESULT	RESULT	RESULT	RESULT	
	ug/kg	ug/kg	ug/kg	ug/L	
CADMIUM METHOD 6010	1,113 U	1,089 U	1,120 U	5.00 U	
CHROMIUM METHOD 6010	13,806	11,894	12,340	10.0 U	
LEAD METHOD 6010	12,581	10,108	10,952	40.0 U	
ZINC METHOD 6010	35,851	31,805	32,027	20.0 U	
	DATE ANALYZED:	6/01/93	6/01/93	6/01/93	6/01/93
	DILUTION FACTOR:	1	1	1	1
FLUORIDE METHOD 340.2	2010.0	1,310	1,330	100.0 U	
	DATE ANALYZED:	5/25/93	5/25/93	5/25/93	5/25/93
pH METHOD 9045	7.45 S.U.	7.55 S.U.	7.48 S.U.	8.04 S.U.	

000016

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 09

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK	H07-SB1-01	H07-SB1-02	H07-SB2-01
	LABORATORY ID:	0763-MB	0763-MB	0763-07	0763-08	0763-09
	DATE SAMPLED:			5/20/93	5/20/93	5/20/93
	DATE ANALYZED:	6/02/93	6/02/93	6/02/93	6/02/93	6/02/93
	% SOLID:	100%	LIQUID BLANK	90.3%	90.5%	90.8%
	DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT		RESULT	RESULT	RESULT	RESULT
	ug/kg		ug/L	ug/kg	ug/kg	ug/kg
CADMIUM METHOD 6010	1,000	U	5.00	U 3,040	1,094	U 1,090
CHROMIUM METHOD 6010	2,000	U	10.0	U 13,593	12,559	14,284
LEAD METHOD 6010	8,000	U	40.0	U 12,268	13,478	12,867
ZINC METHOD 6010	4,000	U	20.0	U 51,462	35,884	34,239
	DATE ANALYZED:		6/01/93	6/01/93	6/01/93	6/01/93
	DILUTION FACTOR:		1	1	1	1
FLUORIDE METHOD 340.2			100.0	U 750	620	780
	DATE ANALYZED:			5/25/93	5/25/93	5/25/93
pH METHOD 9045				7.26 S.U.	7.42 S.U.	7.50 S.U.

000013

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 09

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	H07-SB2-02		H06-SB1-01		H06-SB1-02		RB-17
	LABORATORY ID:	0763-10		0763-11		0763-12		0763-13
	DATE SAMPLED:	5/20/93		5/20/93		5/20/93		5/20/93
	DATE ANALYZED:	6/02/93		6/02/93		6/02/93		6/02/93
	% SOLID:	90.8%		91.1%		90.2%		LIQUID
	DILUTION FACTOR:	1		1		1		1
PARAMETER	RESULT		RESULT		RESULT		RESULT	
	ug/kg		ug/kg		ug/kg		ug/L	
CADMIUM METHOD 6010	1,069	U	1,055	U	1,098	U	5.00	U
CHROMIUM METHOD 6010	14,371		24,276		13,611		10.0	U
LEAD METHOD 6010	10,457		26,598		13,326		40.0	U
ZINC METHOD 6010	35,713		57,418		33,369		20.0	U
	DATE ANALYZED:	6/01/93		6/01/93		6/01/93		6/01/93
	DILUTION FACTOR:	1		1		1		1
FLUORIDE METHOD 340.2	610		1,820		1,460		100.0	U
	DATE ANALYZED:	5/25/93		5/25/93		5/25/93		5/25/93
pH METHOD 9045	7.49 S.U.		7.65 S.U.		7.67 S.U.		9.02 S.U.	

000014

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK	H07-SB3-01	H06-SB2-02	H07-SB3-02
	LABORATORY ID:	0690-MB	0690-MB	0690-01	0690-02	0690-03
	DATE SAMPLED:			05/09/93	05/09/93	05/09/93
	DATE ANALYZED:	5/25/93	5/25/93	5/25/93	5/25/93	5/25/93
	% SOLID:	100%	LIQUID BLANK	89.4%	90.2%	90.5%
	DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT		RESULT	RESULT	RESULT	RESULT
	ug/kg		ug/L	ug/kg	ug/kg	ug/kg
CADMIUM METHOD 6010	1,000	U	5.00	U 41,260	1,076	U 1,083
CHROMIUM METHOD 6010	2,000	U	10.0	U 17,242	12,702	13,954
LEAD METHOD 6010	8,000	U	40.0	U 31,705	13,132	9,751
ZINC METHOD 6010	4,000	U	20.0	U 317,047	33,800	35,320
	DATE ANALYZED:		5/27/93	5/27/93	5/27/93	5/27/93
	DILUTION FACTOR:		1	1	1	1
FLUORIDE METHOD 340.2			100.0	U 2,150	3,090	1,760
	DATE ANALYZED:			5/12/93	5/12/93	5/12/93
pH METHOD 150.1				7.42 S.U.	7.43 S.U.	7.51 S.U.

000012

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	H06-SB2-01		H03-SB1-02		H03-SB1-01		H04-SB2-01		H04-SB2-02
	LABORATORY ID:	0690-04		0690-05		0690-06		0690-07		0690-08
	DATE SAMPLED:	05/09/93		05/09/93		05/09/93		05/09/93		05/09/93
	DATE ANALYZED:	5/25/93		5/25/93		5/25/93		5/25/93		5/25/93
	% SOLID:	55.0%		82.6%		83.6%		87.5%		89.2%
	DILUTION FACTOR:	1		1		1		1		1
		RESULT		RESULT		RESULT		RESULT		RESULT
PARAMETER		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg
CADMIUM METHOD 6010		1,783	U	64,269		5,431		20,954		11,185
CHROMIUM METHOD 6010		3,565	U	22,902		17,967		17,048		13,534
LEAD METHOD 6010		14,260	U	31,415		56,459		17,603		16,422
ZINC METHOD 6010		7,130	U	278,177		131,340		73,030		52,802
	DATE ANALYZED:	5/27/93		5/27/93		5/27/93		5/27/93		5/27/93
	DILUTION FACTOR:	1		1		1		1		1
FLUORIDE METHOD 340.2		3,270		3,530		19,450		24,440		23,800
	DATE ANALYZED:	5/12/93		5/12/93		5/12/93		5/12/93		5/12/93
pH METHOD 150.1		8.17 S.U.		7.36 S.U.		7.44 S.U.		7.99 S.U.		7.53 S.U.

000013

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 05

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID: RB-08
LABORATORY ID: 0690-09
DATE SAMPLED: 05/09/93
DATE ANALYZED: 5/25/93
% SOLID: LIQUID SAMPLE
DILUTION FACTOR: 1

PARAMETER	RESULT	
	ug/L	
CADMIUM METHOD 6010	5.00	U
CHROMIUM METHOD 6010	10.0	U
LEAD METHOD 6010	40.0	U
ZINC METHOD 6010	20.0	U

DATE ANALYZED: 5/27/93
DILUTION FACTOR: 1

FLUORIDE METHOD 340.2	100.0	U
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DATE ANALYZED: 5/11/93

pH METHOD 150.1	6.33 S.U.
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000014

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:		METHOD BLANK		METHOD BLANK		H01-SB2-01	H01-SB2-02	H05-SB5-01
LABORATORY ID:		0713-MB		0713-MB		0713-01	0713-02	0713-03
DATE SAMPLED:						5/10/93	5/10/93	5/10/93
DATE ANALYZED:		6/01/93		6/01/93		6/01/93	6/01/93	6/01/93
% SOLID:		100%		LIQUID BLANK		78.2%	78.4%	80.8%
DILUTION FACTOR:		1		1		1	1	1
PARAMETER		RESULT		RESULT		RESULT	RESULT	RESULT
		ug/kg		ug/L		ug/kg	ug/kg	ug/kg
CADMIUM	METHOD 6010	1,000	U	5.00	U	4,621	1,250	U 1,214 U
CHROMIUM	METHOD 6010	2,000	U	10.0	U	11,702	19,325	21,335
LEAD	METHOD 6010	8,000	U	40.0	U	247,453	27,250	18,665
ZINC	METHOD 6010	4,000	U	20.0	U	117,516	60,750	52,184
DATE ANALYZED:				6/01/93		6/01/93	6/01/93	6/01/93
DILUTION FACTOR:				1		1	1	1
FLUORIDE METHOD 340.2				100.0		U 1,870	1,490	970
DATE ANALYZED:						5/18/93	5/18/93	5/18/93
pH METHOD 9045						7.40 S.U.	7.85 S.U.	7.80 S.U.

000037

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 07

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	H05-SB5-02	H02-SB4-01	H02-SB4-02	
LABORATORY ID:	0713-04	0713-05	0713-06	
DATE SAMPLED:	5/10/93	5/10/93	5/10/93	
DATE ANALYZED:	6/01/93	6/01/93	6/01/93	
% SOLID:	88.8%	79.4%	68.1%	
DILUTION FACTOR:	1	1	1	
PARAMETER	RESULT	RESULT	RESULT	
	ug/kg	ug/kg	ug/kg	
CADMIUM METHOD 6010	1,073	U 20,073	405,286	J
CHROMIUM METHOD 6010	11,867	17,359	47,871	
LEAD METHOD 6010	12,575	40,342	142,731	
ZINC METHOD 6010	32,833	147,922	1,113,069	
DATE ANALYZED:	6/01/93	6/01/93	6/01/93	
DILUTION FACTOR:	1	1	1	
FLUORIDE METHOD 340.2	740	6,770	6,810	
DATE ANALYZED:	5/18/93	5/18/93	5/18/93	
pH METHOD 9045	7.52 S.U.	7.77 S.U.	7.38 S.U.	

000038

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	METHOD BLANK	METHOD BLANK
LABORATORY ID:	0795-MB	0795-MB
DATE SAMPLED:		
DATE ANALYZED:	6/10/93	6/10/93
% SOLID:	100%	LIQUID BLANK
DILUTION FACTOR:	1	1

PARAMETER	RESULT ug/kg		RESULT ug/L	
CADMIUM METHOD 6010	1.000	U	5.00	U
CHROMIUM METHOD 6010	2.000	U	10.0	U
LEAD METHOD 6010	8.000	U	40.0	U
ZINC METHOD 6010	4.000	U	20.0	U

DATE ANALYZED:	6/14/93
DILUTION FACTOR:	1

FLUORIDE METHOD 340.2	100.0	U
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DATE ANALYZED:	----
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pH METHOD 9045	----
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000021

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	H04-SB1-01
LABORATORY ID:	0795-08
DATE SAMPLED:	5/25/93
DATE ANALYZED:	6/16/93
% SOLID:	89.7%
DILUTION FACTOR:	1

PARAMETER	RESULT
	ug/kg
CADMIUM METHOD 6010	J 1,115 U
CHROMIUM METHOD 6010	14,114
LEAD METHOD 6010	19,978
ZINC METHOD 6010	37,235
DATE ANALYZED:	6/14/93
DILUTION FACTOR:	1
FLUORIDE METHOD 340.2	1,060
DATE ANALYZED:	6/3/93
pH METHOD 9045	7.39 S.U.

000022

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	H04-SB1-02	H03-SB5-01	H03-SB5-02	RB-20	H03-SB4-02
	LABORATORY ID:	0795-09	0795-10	0795-11	0795-12	0795-13
	DATE SAMPLED:	5/25/93	5/25/93	5/25/93	5/25/93	5/26/93
	DATE ANALYZED:	6/16/93	6/16/93	6/16/93	6/16/93	6/16/93
	% SOLID:	89.9%	90.3%	89.3%	LIQUID	89.9%
	DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
	ug/kg	ug/kg	ug/kg	ug/L	ug/kg	
CADMIUM METHOD 6010	1,112 U	1,107 U	1,109 U	5.00 U	1,101 U	
CHROMIUM METHOD 6010	13,304	10,676	12,595	10.0 U	18,150	
LEAD METHOD 6010	14,149	13,732	14,103	40.0 U	15,859	
ZINC METHOD 6010	36,263	35,437	51,223	25.9	36,124	
	DATE ANALYZED:	6/14/93	6/14/93	6/14/93	6/14/93	6/14/93
	DILUTION FACTOR:	1	1	1	1	1
FLUORIDE METHOD 340.2	930.0	1,460	830	100 U	1,430	
	DATE ANALYZED:	6/3/93	6/3/93	6/3/93	5/27/93	6/3/93
pH METHOD 9045	7.59 S.U.	7.61 S.U.	7.59 S.U.	6.63 S.U.	7.61 S.U.	

000023

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

ANALYSIS PERFORMED ON TOTALS

	FIELD SAMPLE ID:	H03-SB4-03	H03-SB2-02	H03-SB2-03
	LABORATORY ID:	0795-14	0795-15	0795-16
	DATE SAMPLED:	5/26/93	5/26/93	5/26/93
	DATE ANALYZED:	6/16/93	6/16/93	6/16/93
	% SOLID:	89.7%	90.3%	88.9%
	DILUTION FACTOR:	1	1	1
PARAMETER	RESULT	RESULT	RESULT	
	ug/kg	ug/kg	ug/kg	
CADMIUM METHOD 6010	1,082 U	1,096 U	1,125	
CHROMIUM METHOD 6010	11,538	13,004	13,003	
LEAD METHOD 6010	11,430	15,614	15,163	
ZINC METHOD 6010	33,337	33,552	36,670	
	DATE ANALYZED:	6/14/93	6/14/93	6/14/93
	DILUTION FACTOR:	1	1	1
FLUORIDE METHOD 340.2	1.370	1400.0	1260.0	
	DATE ANALYZED:	6/3/93	6/3/93	6/3/93
pH METHOD 9045	7.63 S.U.	7.65 S.U.	7.67 S.U.	

000024

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	H02-SB1-02		H02-SB1-03		H02-SB3-02	
LABORATORY ID:	0795-21		0795-22		0795-23	
DATE SAMPLED:	5/26/93		5/26/93		5/26/93	
DATE ANALYZED:	6/16/93		6/16/93		6/16/93	
% SOLID:	86.9%		90.4%		79.9%	
DILUTION FACTOR:	1		1		1	
PARAMETER	RESULT		RESULT		RESULT	
	ug/kg		ug/kg		ug/kg	
CADMIUM METHOD 6010	1,139	U	1,106	U	1,227	U
CHROMIUM METHOD 6010	13,399		13,451		32,884	
LEAD METHOD 6010	14,994		15,929		47,363	
ZINC METHOD 6010	38,738		37,611		85,646	
DATE ANALYZED:	6/14/93		6/14/93		6/14/93	
DILUTION FACTOR:	1		1		1	
FLUORIDE METHOD 340.2	2560.0		1810.0		44600.0	
DATE ANALYZED:	6/3/93		6/3/93		6/3/93	
pH METHOD 9045	7.54 S.U.		7.46 S.U.		5.64 S.U.	

000025

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

ANALYSIS PERFORMED ON TOTALS

FIELD SAMPLE ID:	H02-SB3-03	H02-SB2-01	H02-SB2-02	H02-SB2-03	RB-21
LABORATORY ID:	0795-24	0795-25	0795-26	0795-27	0795-28
DATE SAMPLED:	5/26/93	5/26/93	5/26/93	5/26/93	5/26/93
DATE ANALYZED:	6/16/93	6/16/93	6/16/93	6/16/93	6/16/93
% SOLID:	84.5%	85.8%	87.9%	90.3%	LIQUID
DILUTION FACTOR:	1	1	1	1	1
PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/L
CADMIUM METHOD 6010	1,160 U	1,143 U	1,126 U	1,107 U	5.00 U
CHROMIUM METHOD 6010	20,513	19,973	17,099	15,127	10.0 U
LEAD METHOD 6010	24,597	20,293	19,329	19,513	40.0 U
ZINC METHOD 6010	53,603	50,734	44,830	47,841	20.0 U
DATE ANALYZED:	6/14/93	6/14/93	6/14/93	6/14/93	6/14/93
DILUTION FACTOR:	1	1	1	1	1
FLUORIDE METHOD 340.2	43900.0	23300.0	19900.0	18000.0	100.0 U
DATE ANALYZED:	6/3/93	6/3/93	6/3/93	6/3/93	5/27/93
pH METHOD 9045	7.04 S.U.	7.30 S.U.	7.44 S.U.	7.50 S.U.	6.52 S.U.

000026

UNDERGROUND STORAGE TANK

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.:11

METHOD 8015

VOLATILE ORGANIC COMPOUNDS

FIELD SAMPLE ID:	VO1-SB2-01	VO1-SB2-02	VO1-SB1-01	VO1-SB1-02
LABORATORY ID:	93075107	93075108	93075110	93075111
DATE SAMPLED:	5-19-93	5-19-93	5-19-93	5-19-93
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93	5-26-93
% SOLIDS:	87.5	90.1	87.7	89.2
DILUTION FACTORS:	1X	1X	1X	1X

ANALYTE	RESULT ug/g	RESULT ug/g	RESULT ug/g	RESULT ug/g	MDL ug/g
METHANOL-----	0.88	0.62	0.60	0.62	0.50

000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.:11

METHOD 8015

VOLATILE ORGANIC COMPOUNDS

FIELD SAMPLE ID:	VO2-SB1-01	VO2-SB1-02	----
LABORATORY ID:	93075112	93075113	BLANK
DATE SAMPLED:	5-19-93	5-19-93	----
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	89.8	90.4	----
DILUTION FACTORS:	1X	1X	1X

ANALYTE	RESULT ug/g	RESULT ug/g	RESULT ug/g	MDL ug/g
METHANOL-----	0.62	0.60	0.63	0.50

000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.:12

METHOD 8015

VOLATILE ORGANIC COMPOUNDS

FIELD SAMPLE ID:	VO2-SB2-01	VO2-SB2-02	VO2-SB3-01	VO2-SB3-02
LABORATORY ID:	93076301	93076302	93076303	93076304
DATE SAMPLED:	5-20-93	5-20-93	5-20-93	5-20-93
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93	5-26-93
% SOLIDS:	80.8	85.4	82.7	80.8
DILUTION FACTORS:	1X	1X	1X	1X

ANALYTE	RESULT ug/g	RESULT ug/g	RESULT ug/g	RESULT ug/g	MDL ug/g
METHANOL-----	0.63	<0.50 U	<0.50 U	<0.50 U	0.50

000010

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.:12

METHOD 8015

VOLATILE ORGANIC COMPOUNDS

FIELD SAMPLE ID:	VO1-SB3-01	VO1-SB3-02	----
LABORATORY ID:	93076305	93076306	BLANK
DATE SAMPLED:	5-20-93	5-20-93	----
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	89.0	89.8	----
DILUTION FACTORS:	1X	1X	1X

ANALYTE	RESULT ug/g		RESULT ug/g		RESULT ug/g	MDL ug/g
METHANOL-----	<0.50	U	<0.50	U	0.63	0.50

000011

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.:12

METHOD 8015

VOLATILE ORGANIC COMPOUNDS

FIELD SAMPLE ID:	RB-17	TB-11	----
LABORATORY ID:	93076313	93076314	BLANK
DATE SAMPLED:	5-19-93	5-19-93	----
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	----	----	----
DILUTION FACTORS:	1X	1X	1X

ANALYTE	RESULT ug/mL		RESULT ug/mL		RESULT ug/mL		MDL ug/mL
METHANOL-----	<0.50	U	<0.50	U	0.63	U	0.50

000012

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.:11

METHOD 8015

VOLATILE ORGANIC COMPOUNDS

FIELD SAMPLE ID:	RB-16	----
LABORATORY ID:	93075109	BLANK
DATE SAMPLED:	5-19-93	----
DATE EXTRACTED:	5-26-93	5-26-93
% SOLIDS:	----	----
DILUTION FACTORS:	1X	1X

ANALYTE	RESULT ug/mL	RESULT ug/mL	MDL ug/mL
METHANOL-----	<0.50	U 0.63	0.50

000006

HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 10

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO6-SB1-01	VO6-SB1-02	VO5-SB1-01	VO5-SB1-02
LABORATORY SAMPLE ID:	93075001	93075002	93075003	93075004
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.2	89.9	90.7	89.8
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE	330	U	330	U	330	U	330	U	330
ACENAPHTHYLENE	330	U	330	U	330	U	330	U	330
ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(a)PYRENE	330	U	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE	330	U	330	U	330	U	330	U	330
BENZOIC ACID	1,600	U	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330	U	330	U	330	U	330
BUTYLBENZYL PHTHALATE	330	U	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
4-CHLOROANILINE	330	U	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE	330	U	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
CHRYSENE	330	U	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE	330	U	330	U	330	U	330	U	330
DIBENZOFURAN	330	U	330	U	330	U	330	U	330
DI-N-BUTYL PHTHALATE	330	U	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
3,3'-DICHLOROBENZIDINE	660	U	660	U	660	U	660	U	660
DIETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
DIMETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
2,4-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
2,6-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE	330	U	330	U	330	U	330	U	330
FLUORANTHENE	330	U	330	U	330	U	330	U	330
FLUORENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBENZENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROETHANE	330	U	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE	330	U	330	U	330	U	330	U	330

000010

HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 10

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO6-SB1-01	VO6-SB1-02	VO5-SB1-01	VO5-SB1-02
LABORATORY SAMPLE ID:	93075001	93075002	93075003	93075004
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.2	89.9	90.7	89.8
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE	330	U	330	U	330	U	330	U	330
NAPHTHALENE	330	U	330	U	330	U	330	U	330
2-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE	330	U	330	U	330	U	330	U	330
N-NITROS-DI-N-PROPYLAMINE	330	U	330	U	330	U	330	U	330
PHENANTHRENE	330	U	330	U	330	U	330	U	330
PYRENE	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE	330	U	330	U	330	U	330	U	330
CARBAZOLE	330	U	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL	330	U	330	U	330	U	330	U	330
2-NITROPHENOL	330	U	330	U	330	U	330	U	330
4-NITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	57	54	60	80	54 - 143
2-FLUOROBIPHENYL	64	64	66	85	43 - 125
TERPHENYL (d14)	43	44	41	57	25 - 139
PHENOL (d5)	46	45	48	67	40 - 135
2-FLUOROPHENOL	72	71	77	101	48 - 140
2,4,6-TRIBROMOPHENOL	22	22	25	40	18 - 141
2-CHLOROPHENOL (d4)	57	55	59	77	43 - 124
1,2-DICHLOROBENZENE (d4)	60	58	63	79	38 - 129

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Sample Delivery Group No.: 10

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO5-SB2-01	VO5-SB2-02	VO5-SB3-01	VO5-SB3-02
LABORATORY SAMPLE ID:	93075005	93075006	93075007	93075008
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:	5-25-93	5-25-93	5-24-93	5-24-93
% SOLIDS:	89.7	89.9	89.8	90.3
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE	330	U	330	U	330	U	330	U	330
ACENAPHTHYLENE	330	U	330	U	330	U	330	U	330
ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(a)PYRENE	330	U	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE	330	U	330	U	330	U	330	U	330
BENZOIC ACID	1,600	U	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330	U	320	J	330	U	330
BUTYLBENZYL PHTHALATE	330	U	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
4-CHLOROANILINE	330	U	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE	330	U	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
CHRYSENE	330	U	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE	330	U	330	U	330	U	330	U	330
DIBENZOFURAN	330	U	330	U	330	U	330	U	330
DI-N-BUTYL PHTHALATE	330	U	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
3,3'-DICHLOROBENZIDINE	660	U	660	U	660	U	660	U	660
DIETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
DIMETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
2,4-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
2,6-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE	330	U	330	U	330	U	330	U	330
FLUORANTHENE	330	U	330	U	330	U	330	U	330
FLUORENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBENZENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROETHANE	330	U	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE	330	U	330	U	330	U	330	U	330

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Sample Delivery Group No.: 10

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO5-SB2-01	VO5-SB2-02	VO5-SB3-01	VO5-SB3-02
LABORATORY SAMPLE ID:	93075005	93075006	93075007	93075008
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:	5-25-93	5-25-93	5-24-93	5-24-93
% SOLIDS:	89.7	89.9	89.8	90.3
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE	330	U	330	U	330	U	330	U	330
NAPHTHALENE	330	U	330	U	330	U	330	U	330
2-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE	330	U	330	U	330	U	330	U	330
N-NITROS-DI-N-PROPYLAMINE	330	U	330	U	330	U	330	U	330
PHENANTHRENE	330	U	330	U	330	U	330	U	330
PYRENE	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE	330	U	330	U	330	U	330	U	330
CARBAZOLE	330	U	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL	330	U	330	U	330	U	330	U	330
2-NITROPHENOL	330	U	330	U	330	U	330	U	330
4-NITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	72	67	75	68	54 - 143
2-FLUOROBIPHENYL	79	76	81	76	43 - 125
TERPHENYL (d14)	61	58	82	89	25 - 139
PHENOL (d5)	60	53	65	59	40 - 135
2-FLUOROPHENOL	95	86	91	82	48 - 140
2,4,6-TRIBROMOPHENOL	32	27	64	67	18 - 141
2-CHLOROPHENOL (d4)	72	65	76	69	43 - 124
1,2-DICHLOROBENZENE (d4)	75	69	75	68	38 - 129

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Sample Delivery Group No.: 10

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO6-SB2-01	VO6-SB2-02	VO7-SB3-01	VO7-SB3-02
LABORATORY SAMPLE ID:	93075009	93075010	93075012	93075013
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.8	90.4	91.0	90.9
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE	330	U	330	U	330	U	330	U	330
ACENAPHTHYLENE	330	U	330	U	330	U	330	U	330
ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(a)PYRENE	330	U	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE	330	U	330	U	330	U	330	U	330
BENZOIC ACID	1,600	U	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330	U	330	U	330	U	330
BUTYLBENZYL PHTHALATE	330	U	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
4-CHLOROANILINE	330	U	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE	330	U	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
CHRYSENE	330	U	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE	330	U	330	U	330	U	330	U	330
DIBENZOFURAN	330	U	330	U	330	U	330	U	330
DI-N-BUTYLPHthalate	330	U	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
3,3'-DICHLOROBENZIDINE	660	U	660	U	660	U	660	U	660
DIETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
DIMETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
2,4-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
2,6-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE	330	U	330	U	330	U	330	U	330
FLUORANTHENE	330	U	330	U	330	U	330	U	330
FLUORENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBENZENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROETHANE	330	U	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE	330	U	330	U	330	U	330	U	330

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Sample Delivery Group No.: 10

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METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO6-SB2-01	VO6-SB2-02	VO7-SB3-01	VO7-SB3-02
LABORATORY SAMPLE ID:	93075009	93075010	93075012	93075013
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.8	90.4	91.0	90.9
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE	330	U	330	U	330	U	330	U	330
NAPHTHALENE	330	U	330	U	330	U	330	U	330
2-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE	330	U	330	U	330	U	330	U	330
N-NITROS-DI-N-PROPYLAMINE	330	U	330	U	330	U	330	U	330
PHENANTHRENE	330	U	330	U	330	U	330	U	330
PYRENE	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE	330	U	330	U	330	U	330	U	330
CARBAZOLE	330	U	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL	330	U	330	U	330	U	330	U	330
2-NITROPHENOL	330	U	330	U	330	U	330	U	330
4-NITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	82	77	74	75	54 - 143
2-FLUOROBIPHENYL	77	73	70	77	43 - 125
TERPHENYL (d14)	71	77	73	79	25 - 139
PHENOL (d5)	86	80	72	62	40 - 135
2-FLUOROPHENOL	82	76	70	88	48 - 140
2,4,6-TRIBROMOPHENOL	79	81	70	59	18 - 141
2-CHLOROPHENOL (d4)	79	75	66	73	43 - 124
1,2-DICHLOROBENZENE (d4)	79	77	69	72	38 - 129

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Sample Delivery Group No.: 14

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID: V08-SB1-07
 LABORATORY SAMPLE ID: 93078001
 DATE SAMPLED: 5-24-93
 DATE EXTRACTED: 6-2-93
 % SOLIDS: 90.5
 DILUTION FACTOR(S): 1

PARAMETER	RESULT ug/kg		MDL ug/kg
ACENAPHTHENE	330	U	330
ACENAPHTHYLENE	330	U	330
ANTHRACENE	330	U	330
BENZO(a)ANTHRACENE	330	U	330
BENZO(b)FLUORANTHENE	330	U	330
BENZO(k)FLUORANTHENE	330	U	330
BENZO(a)PYRENE	330	U	330
BENZO(g,h,i)PERYLENE	330	U	330
BENZOIC ACID	1,600	U	1,600
BENZYL ALCOHOL	330	U	330
BIS(2-CHLOROETHOXY)METHANE	330	U	330
BIS(2-CHLOROETHYL)ETHER	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330
BUTYLBENZYL PHTHALATE	330	U	330
4-BROMOPHENYL-PHENYL ETHER	330	U	330
4-CHLOROANILINE	330	U	330
2-CHLORONAPHTHALENE	330	U	330
4-CHLOROPHENYL-PHENYL ETHER	330	U	330
CHRYSENE	330	U	330
DIBENZ(a,h)ANTHRACENE	330	U	330
DIBENZOFURAN	330	U	330
DI-N-BUTYLPHTHALATE	330	U	330
1,2-DICHLOROBENZENE	330	U	330
1,3-DICHLOROBENZENE	330	U	330
1,4-DICHLOROBENZENE	330	U	330
3,3'-DICHLOROBENZIDINE	660	U	660
DIETHYL PHTHALATE	330	U	330
DIMETHYL PHTHALATE	330	U	330
2,4-DINITROTOLUENE	330	U	330
2,6-DINITROTOLUENE	330	U	330
DI-N-OCTYL PHTHALATE	330	U	330
FLUORANTHENE	330	U	330
FLUORENE	330	U	330
HEXACHLOROBENZENE	330	U	330
HEXACHLOROBUTADIENE	330	U	330
HEXACHLOROCYCLOPENTADIENE	330	U	330
HEXACHLOROETHANE	330	U	330
INDENO(1,2,3-cd)PYRENE	330	U	330

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 14

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID: V08-SB1-07
LABORATORY SAMPLE ID: 93078001
DATE SAMPLED: 5-24-93
DATE EXTRACTED: 6-2-93
% SOLIDS: 90.5
DILUTION FACTOR(S): 1

PARAMETER	RESULT ug/kg	MDL ug/kg
ISOPHORONE	330 U	330
2-METHYL NAPHTHALENE	330 U	330
NAPHTHALENE	330 U	330
2-NITROANILINE	1,600 U	1,600
3-NITROANILINE	1,600 U	1,600
4-NITROANILINE	1,600 U	1,600
NITROBENZENE	330 U	330
N-NITROSODIPHENYLAMINE	330 U	330
N-NITROS-DI-N-PROPYLAMINE	330 U	330
PHENANTHRENE	330 U	330
PYRENE	330 U	330
1,2,4-TRICHLOROBENZENE	330 U	330
CARBAZOLE	330 U	330

ACID COMPOUNDS	RESULT ug/kg	RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330 U	330
2-CHLOROPHENOL	330 U	330
2,4-DICHLOROPHENOL	330 U	330
2,4-DIMETHYL PHENOL	330 U	330
2,4-DINITROPHENOL	1,600 U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600 U	1,600
2-METHYL PHENOL	330 U	330
4-METHYL PHENOL	330 U	330
2-NITROPHENOL	330 U	330
4-NITROPHENOL	1,600 U	1,600
PENTACHLOROPHENOL	1,600 U	1,600
PHENOL	330 U	330
2,4,5-TRICHLOROPHENOL	1,600 U	1,600
2,4,6-TRICHLOROPHENOL	330 U	330

SURROGATE % RECOVERY	% REC	CONTROL LIMITS
NITROBENZENE (d5)	75	54 - 143
2-FLUOROBIPHENYL	79	43 - 125
TERPHENYL (d14)	83	25 - 139
PHENOL (d5)	60	40 - 135
2-FLUOROPHENOL	89	48 - 140
2,4,6-TRIBROMOPHENOL	47	18 - 141
2-CHLOROPHENOL (d4)	75	43 - 124
1,2-DICHLOROBENZENE (d4)	78	38 - 129

000011

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V08-SB1-07	V08-SB1-08	V08-SB3-01	V08-SB3-02
LABORATORY SAMPLE ID:	93078001	93078002	93078003	93078004
DATE SAMPLED:	5-24-93	5-24-93	5-24-93	5-24-93
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	6-2-93
% SOLIDS:	90.5	90.4	90.7	90.6
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
ACENAPHTHENE	330 U	330 U	330 U	330 U	330
ACENAPHTHYLENE	330 U	330 U	330 U	330 U	330
ANTHRACENE	330 U	330 U	330 U	330 U	330
BENZO(a)ANTHRACENE	330 U	330 U	330 U	330 U	330
BENZO(b)FLUORANTHENE	330 U	330 U	330 U	330 U	330
BENZO(k)FLUORANTHENE	330 U	330 U	330 U	330 U	330
BENZO(a)PYRENE	330 U	330 U	330 U	330 U	330
BENZO(g,h,i)PERYLENE	330 U	330 U	330 U	330 U	330
BENZOIC ACID	1,600 U	1,600 U	1,600 U	1,600 U	1,600
BENZYL ALCOHOL	330 U	330 U	330 U	330 U	330
BIS(2-CHLOROETHOXY)METHANE	330 U	330 U	330 U	330 U	330
BIS(2-CHLOROETHYL)ETHER	330 U	330 U	330 U	330 U	330
BIS(2-CHLOROISOPROPYL)ETHER	330 U	330 U	330 U	330 U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330 U	330 U	330 U	330 U	330
BUTYLBENZYL PHTHALATE	330 U	330 U	330 U	330 U	330
4-BROMOPHENYL-PHENYL ETHER	330 U	330 U	330 U	330 U	330
4-CHLOROANILINE	330 U	330 U	330 U	330 U	330
2-CHLORONAPHTHALENE	330 U	330 U	330 U	330 U	330
4-CHLOROPHENYL-PHENYL ETHER	330 U	330 U	330 U	330 U	330
CHRYSENE	330 U	330 U	330 U	330 U	330
DIBENZ(a,h)ANTHRACENE	330 U	330 U	330 U	330 U	330
DIBENZOFURAN	330 U	330 U	330 U	330 U	330
DI-N-BUTYLPHthalate	330 U	330 U	330 U	330 U	330
1,2-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330
1,3-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330
1,4-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330
3,3'-DICHLOROBENZIDINE	660 U	660 U	660 U	660 U	660
DIETHYL PHTHALATE	330 U	330 U	330 U	330 U	330
DIMETHYL PHTHALATE	330 U	330 U	330 U	330 U	330
2,4-DINITROTOLUENE	330 U	330 U	330 U	330 U	330
2,6-DINITROTOLUENE	330 U	330 U	330 U	330 U	330
DI-N-OCTYL PHTHALATE	330 U	330 U	330 U	330 U	330
FLUORANTHENE	330 U	330 U	330 U	330 U	330
FLUORENE	330 U	330 U	330 U	330 U	330
HEXACHLOROBENZENE	330 U	330 U	330 U	330 U	330
HEXACHLOROBUTADIENE	330 U	330 U	330 U	330 U	330
HEXACHLOROCYCLOPENTADIENE	330 U	330 U	330 U	330 U	330
HEXACHLOROETHANE	330 U	330 U	330 U	330 U	330
INDENO(1,2,3-cd)PYRENE	330 U	330 U	330 U	330 U	330

000010

Sample Delivery Group No.: 14

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V08-SB1-07	V08-SB1-08	V08-SB3-01	V08-SB3-02
LABORATORY SAMPLE ID:	93078001	93078002	93078003	93078004
DATE SAMPLED:	5-24-93	5-24-93	5-24-93	5-24-93
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	6-2-93
% SOLIDS:	90.5	90.4	90.7	90.6
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
ISOPHORONE	330 U	330 U	330 U	330 U	330
2-METHYL NAPHTHALENE	330 U	330 U	330 U	330 U	330
NAPHTHALENE	330 U	330 U	330 U	330 U	330
2-NITROANILINE	1,600 U	1,600 U	1,600 U	1,600 U	1,600
3-NITROANILINE	1,600 U	1,600 U	1,600 U	1,600 U	1,600
4-NITROANILINE	1,600 U	1,600 U	1,600 U	1,600 U	1,600
NITROBENZENE	330 U	330 U	330 U	330 U	330
N-NITROSODIPHENYLAMINE	330 U	330 U	330 U	330 U	330
N-NITRO-DI-N-PROPYLAMINE	330 U	330 U	330 U	330 U	330
PHENANTHRENE	330 U	330 U	330 U	330 U	330
PYRENE	330 U	330 U	330 U	330 U	330
1,2,4-TRICHLOROBENZENE	330 U	330 U	330 U	330 U	330
CARBAZOLE	330 U	330 U	330 U	330 U	330

ACID COMPOUNDS	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330 U	330 U	330 U	330 U	330
2-CHLOROPHENOL	330 U	330 U	330 U	330 U	330
2,4-DICHLOROPHENOL	330 U	330 U	330 U	330 U	330
2,4-DIMETHYL PHENOL	330 U	330 U	330 U	330 U	330
2,4-DINITROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600
2-METHYL PHENOL	330 U	330 U	330 U	330 U	330
4-METHYL PHENOL	330 U	330 U	330 U	330 U	330
2-NITROPHENOL	330 U	330 U	330 U	330 U	330
4-NITROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600
PENTACHLOROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600
PHENOL	330 U	330 U	330 U	330 U	330
2,4,5-TRICHLOROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600
2,4,6-TRICHLOROPHENOL	330 U	330 U	330 U	330 U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	75	76	87	81	54 - 143
2-FLUOROBIPHENYL	79	80	80	75	43 - 125
TERPHENYL (d14)	83	87	70	68	25 - 139
PHENOL (d5)	60	61	91	83	40 - 135
2-FLUOROPHENOL	89	89	89	83	48 - 140
2,4,6-TRIBROMOPHENOL	47	49	78	69	18 - 141
2-CHLOROPHENOL (d4)	75	76	82	77	43 - 124
1,2-DICHLOROBENZENE (d4)	78	78	85	79	38 - 129

000011

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V08-SB2-01	V08-SB2-02	V08-SB4-01	V08-SB4-02	—
LABORATORY SAMPLE ID:	93078005	93078006	93078007	93078008	SBLKS7
DATE SAMPLED:	5-24-93	5-24-93	5-24-93	5-24-93	—
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	6-2-93	6-2-93
% SOLIDS:	89.5	90.2	89.8	90.2	—
DILUTION FACTOR(S):	1	1	1	1	1

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
ACENAPHTHENE	330 U	330 U	330 U	330 U	330 U	330
ACENAPHTHYLENE	330 U	330 U	330 U	330 U	330 U	330
ANTHRACENE	330 U	330 U	330 U	330 U	330 U	330
BENZO(a)ANTHRACENE	330 U	330 U	330 U	330 U	330 U	330
BENZO(b)FLUORANTHENE	330 U	330 U	330 U	330 U	330 U	330
BENZO(k)FLUORANTHENE	330 U	330 U	330 U	330 U	330 U	330
BENZO(a)PYRENE	330 U	330 U	330 U	330 U	330 U	330
BENZO(g,h,i)PERYLENE	330 U	330 U	330 U	330 U	330 U	330
BENZOIC ACID	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
BENZYL ALCOHOL	330 U	330 U	330 U	330 U	330 U	330
BIS(2-CHLOROETHOXY)METHANE	330 U	330 U	330 U	330 U	330 U	330
BIS(2-CHLOROETHYL)ETHER	330 U	330 U	330 U	330 U	330 U	330
BIS(2-CHLOROISOPROPYL)ETHER	330 U	330 U	330 U	330 U	330 U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330 U	330 U	330 U	330 U	330 U	330
BUTYLBENZYL PHTHALATE	330 U	330 U	330 U	330 U	330 U	330
4-BROMOPHENYL-PHENYL ETHER	330 U	330 U	330 U	330 U	330 U	330
4-CHLOROANILINE	330 U	330 U	330 U	330 U	330 U	330
2-CHLORONAPHTHALENE	330 U	330 U	330 U	330 U	330 U	330
4-CHLOROPHENYL-PHENYL ETHER	330 U	330 U	330 U	330 U	330 U	330
CHRYSENE	330 U	330 U	330 U	330 U	330 U	330
DIBENZ(a,h)ANTHRACENE	330 U	330 U	330 U	330 U	330 U	330
DIBENZOFURAN	330 U	330 U	330 U	330 U	330 U	330
DI-N-BUTYLPHTHALATE	330 U	330 U	330 U	330 U	330 U	330
1,2-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330
1,3-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330
1,4-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330
3,3'-DICHLOROBENZIDINE	660 U	660 U	660 U	660 U	660 U	660
DIETHYL PHTHALATE	330 U	330 U	330 U	330 U	330 U	330
DIMETHYL PHTHALATE	330 U	330 U	330 U	330 U	330 U	330
2,4-DINITROTOLUENE	330 U	330 U	330 U	330 U	330 U	330
2,6-DINITROTOLUENE	330 U	330 U	330 U	330 U	330 U	330
DI-N-OCTYL PHTHALATE	330 U	330 U	330 U	330 U	330 U	330
FLUORANTHENE	330 U	330 U	330 U	330 U	330 U	330
FLUORENE	330 U	330 U	330 U	330 U	330 U	330
HEXACHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330
HEXACHLOROBUTADIENE	330 U	330 U	330 U	330 U	330 U	330
HEXACHLOROCYCLOPENTADIENE	330 U	330 U	330 U	330 U	330 U	330
HEXACHLOROETHANE	330 U	330 U	330 U	330 U	330 U	330
INDENO(1,2,3-cd)PYRENE	330 U	330 U	330 U	330 U	330 U	330

000012

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V08-SB2-01	V08-SB2-02	V08-SB4-01	V08-SB4-02	---
LABORATORY SAMPLE ID:	93078005	93078006	93078007	93078008	SBLKS7
DATE SAMPLED:	5-24-93	5-24-93	5-24-93	5-24-93	---
DATE EXTRACTED:	6-2-93	6-2-93	6-2-93	6-2-93	6-2-93
% SOLIDS:	89.5	90.2	89.9	90.2	---
DILUTION FACTOR(S):	1	1	1	1	1

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
ISOPHORONE	330 U	330 U	330 U	330 U	330 U	330
2-METHYL NAPHTHALENE	330 U	330 U	330 U	330 U	330 U	330
NAPHTHALENE	330 U	330 U	330 U	330 U	330 U	330
2-NITROANILINE	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
3-NITROANILINE	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
4-NITROANILINE	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
NITROBENZENE	330 U	330 U	330 U	330 U	330 U	330
N-NITROSODIPHENYLAMINE	330 U	330 U	330 U	330 U	330 U	330
N-NITROS-DI-N-PROPYLAMINE	330 U	330 U	330 U	330 U	330 U	330
PHENANTHRENE	330 U	330 U	330 U	330 U	330 U	330
PYRENE	330 U	330 U	330 U	330 U	330 U	330
1,2,4-TRICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330
CARBAZOLE	330 U	330 U	330 U	330 U	330 U	330

ACID COMPOUNDS	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330 U	330 U	330 U	330 U	330 U	330
2-CHLOROPHENOL	330 U	330 U	330 U	330 U	330 U	330
2,4-DICHLOROPHENOL	330 U	330 U	330 U	330 U	330 U	330
2,4-DIMETHYL PHENOL	330 U	330 U	330 U	330 U	330 U	330
2,4-DINITROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
2-METHYL PHENOL	330 U	330 U	330 U	330 U	330 U	330
4-METHYL PHENOL	330 U	330 U	330 U	330 U	330 U	330
2-NITROPHENOL	330 U	330 U	330 U	330 U	330 U	330
4-NITROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
PENTACHLOROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
PHENOL	330 U	330 U	330 U	330 U	330 U	330
2,4,5-TRICHLOROPHENOL	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600
2,4,6-TRICHLOROPHENOL	330 U	330 U	330 U	330 U	330 U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	87	99	82	81	73	54 - 143
2-FLUOROBIPHENYL	81	86	73	78	79	43 - 125
TERPHENYL (d14)	68	83	67	68	82	25 - 139
PHENOL (d5)	85	100	82	74	55	40 - 135
2-FLUOROPHENOL	84	94	79	76	75	48 - 140
2,4,6-TRIBROMOPHENOL	78	90	72	74	37	18 - 141
2-CHLOROPHENOL (d4)	81	88	75	73	66	43 - 124
1,2-DICHLOROBENZENE (d4)	83	85	77	71	76	38 - 129

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Sample Delivery Group No.: 10

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V11-SB3-03	V11-SB3-04	V11-SB3-05	—
LABORATORY SAMPLE ID:	93075014	93075015	93075016	SBLK55
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	—
DATE EXTRACTED:	5-28-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.1	85.1	89.7	—
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE	330	U	330	U	330	U	330	U	330
ACENAPHTHYLENE	330	U	330	U	330	U	330	U	330
ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(a)PYRENE	330	U	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE	330	U	330	U	330	U	330	U	330
BENZOIC ACID	1,600	U	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330	U	330	U	330	U	330
BUTYLBENZYL PHTHALATE	330	U	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
4-CHLOROANILINE	330	U	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE	330	U	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
CHRYSENE	330	U	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE	330	U	330	U	330	U	330	U	330
DIBENZOFURAN	330	U	330	U	330	U	330	U	330
DI-N-BUTYLPHTHALATE	330	U	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
3,3'-DICHLOROBENZIDINE	660	U	660	U	660	U	660	U	660
DIETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
DIMETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
2,4-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
2,6-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE	330	U	330	U	330	U	330	U	330
FLUORANTHENE	330	U	330	U	330	U	330	U	330
FLUORENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBENZENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROETHANE	330	U	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE	330	U	330	U	330	U	330	U	330

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Sample Delivery Group No.: 10

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V11-SB3-03	V11-SB3-04	V11-SB3-05	—
LABORATORY SAMPLE ID:	93075014	93075015	93075016	SBLK55
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	—
DATE EXTRACTED:	5-28-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.1	85.1	89.7	—
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE	330	U	330	U	330	U	330	U	330
NAPHTHALENE	330	U	330	U	330	U	330	U	330
2-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE	330	U	330	U	330	U	330	U	330
N-NITRO-DI-N-PROPYLAMINE	330	U	330	U	330	U	330	U	330
PHENANTHRENE	330	U	330	U	330	U	330	U	330
PYRENE	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE	330	U	330	U	330	U	330	U	330
CARBAZOLE	330	U	330	U	330	U	330	U	330
ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL	330	U	330	U	330	U	330	U	330
2-NITROPHENOL	330	U	330	U	330	U	330	U	330
4-NITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL	330	U	330	U	330	U	330	U	330
SURROGATE % RECOVERY	% REC		% REC		% REC		% REC		CONTROL LIMITS
NITROBENZENE (d5)	66		71		76		57		54 - 143
2-FLUOROBIPHENYL	72		75		80		66		43 - 125
TERPHENYL (d14)	73		80		92		42		25 - 139
PHENOL (d5)	54		62		62		47		40 - 135
2-FLUOROPHENOL	77		83		88		75		48 - 140
2,4,6-TRIBROMOPHENOL	48		61		54		27		18 - 141
2-CHLOROPHENOL (d4)	66		71		75		58		43 - 124
1,2-DICHLOROBENZENE (d4)	67		70		75		60		38 - 129

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Sample Delivery Group No.: 04

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-15	---
LABORATORY SAMPLE ID:	93075011	SBLKW2
DATE SAMPLED:	5-18-93	---
DATE EXTRACTED:	5-24-93	5-24-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT		RESULT		MDL	
	ug/L		ug/L		ug/L	
ACENAPHTHENE	10	U	10	U	10	U
ACENAPHTHYLENE	10	U	10	U	10	U
ANTHRACENE	10	U	10	U	10	U
BENZO(a)ANTHRACENE	10	U	10	U	10	U
BENZO(b)FLUORANTHENE	10	U	10	U	10	U
BENZO(k)FLUORANTHENE	10	U	10	U	10	U
BENZO(a)PYRENE	10	U	10	U	10	U
BENZO(g,h,i)PERYLENE	10	U	10	U	10	U
BENZOIC ACID	50	U	50	U	50	U
BENZYL ALCOHOL	10	U	10	U	10	U
BIS(2-CHLOROETHOXY)METHANE	10	U	10	U	10	U
BIS(2-CHLOROETHYL)ETHER	10	U	10	U	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U	10	U	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	10	U	10	U
BUTYLBENZYL PHTHALATE	10	U	10	U	10	U
4-BROMOPHENYL-PHENYL ETHER	10	U	10	U	10	U
4-CHLOROANILINE	10	U	10	U	10	U
2-CHLORONAPHTHALENE	10	U	10	U	10	U
4-CHLOROPHENYL-PHENYL ETHER	10	U	10	U	10	U
CHRYSENE	10	U	10	U	10	U
DIBENZ(a,h)ANTHRACENE	10	U	10	U	10	U
DIBENZOFURAN	10	U	10	U	10	U
DI-N-BUTYLPHTHALATE	10	U	10	U	10	U
1,2-DICHLOROBENZENE	10	U	10	U	10	U
1,3-DICHLOROBENZENE	10	U	10	U	10	U
1,4-DICHLOROBENZENE	10	U	10	U	10	U
3,3-DICHLOROBENZIDINE	20	U	20	U	20	U
DIETHYL PHTHALATE	10	U	10	U	10	U
DIMETHYL PHTHALATE	10	U	10	U	10	U
2,4-DINITROTOLUENE	10	U	10	U	10	U
2,6-DINITROTOLUENE	10	U	10	U	10	U
DI-N-OCTYL PHTHALATE	10	U	10	U	10	U
FLUORANTHENE	10	U	10	U	10	U
FLUORENE	10	U	10	U	10	U
HEXACHLOROBENZENE	10	U	10	U	10	U
HEXACHLOROBUTADIENE	10	U	10	U	10	U
HEXACHLOROCYCLOPENTADIENE	10	U	10	U	10	U
HEXACHLOROETHANE	10	U	10	U	10	U
INDENO(1,2,3-cd)PYRENE	10	U	10	U	10	U

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 04

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-15	---
LABORATORY SAMPLE ID:	93075011	SBLKW2
DATE SAMPLED:	5-18-93	---
DATE EXTRACTED:	5-24-93	5-24-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L	
ISOPHORONE	10	U	10	U	10	U
2-METHYL NAPHTHALENE	10	U	10	U	10	U
NAPHTHALENE	10	U	10	U	10	U
2-NITROANILINE	50	U	50	U	50	U
3-NITROANILINE	50	U	50	U	50	U
4-NITROANILINE	50	U	50	U	50	U
NITROBENZENE	10	U	10	U	10	U
N-NITROSODIPHENYLAMINE	10	U	10	U	10	U
N-NITROS-DI-N-PROPYLAMINE	10	U	10	U	10	U
PHENANTHRENE	10	U	10	U	10	U
PYRENE	10	U	10	U	10	U
1,2,4-TRICHLOROBENZENE	10	U	10	U	10	U
CARBAZOLE	10	U	10	U	10	U

ACID COMPOUNDS	RESULT ug/L		RESULT ug/L		RESULT ug/L	
4-CHLORO-3-METHYLPHENOL	10	U	10	U	10	U
2-CHLOROPHENOL	10	U	10	U	10	U
2,4-DICHLOROPHENOL	10	U	10	U	10	U
2,4-DIMETHYL PHENOL	10	U	10	U	10	U
2,4-DINITROPHENOL	50	U	50	U	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U	50	U	50	U
2-METHYL PHENOL	10	U	10	U	50	U
4-METHYL PHENOL	10	U	10	U	10	U
2-NITROPHENOL	10	U	10	U	10	U
4-NITROPHENOL	50	U	50	U	50	U
PENTACHLOROPHENOL	50	U	50	U	50	U
PHENOL	10	U	10	U	10	U
2,4,5-TRICHLOROPHENOL	50	U	50	U	50	U
2,4,6-TRICHLOROPHENOL	10	U	10	U	10	U

SURROGATE % RECOVERY	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	75	85	16 - 146
2-FLUOROBIPHENYL	85	81	21 - 113
TERPHENYL (d14)	79	74	12 - 146
PHENOL (d5)	29	42	11 - 104
2-FLUOROPHENOL	60	78	17 - 117
2,4,6-TRIBROMOPHENOL	53	56	22 - 144
2-CHLOROPHENOL (d4)	77	82	20 - 130
1,2-DICHLOROBENZENE (d4)	76	79	20 - 130

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 08

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO9-SB2-01	VO9-SB2-02
LABORATORY SAMPLE ID:	93072313	93072314
DATE SAMPLED:	5-10-93	5-10-93
DATE EXTRACTED:	5-20-93	5-19-93
% SOLIDS:	82.5	88.7
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg	
ACENAPHTHENE -----	330	U	330	U	330	U
ACENAPHTHYLENE -----	330	U	330	U	330	U
ANTHRACENE -----	330	U	330	U	330	U
BENZO(a)ANTHRACENE -----	330	U	330	U	330	U
BENZO(b)FLUORANTHENE -----	330	U	330	U	330	U
BENZO(k)FLUORANTHENE -----	330	U	330	U	330	U
BENZO(a)PYRENE -----	330	U	330	U	330	U
BENZO(g,h,i)PERYLENE -----	330	U	330	U	330	U
BENZOIC ACID -----	1,600	U	1,600	U	1,600	U
BENZYL ALCOHOL -----	330	U	330	U	330	U
BIS(2-CHLOROETHOXY)METHANE ----	330	U	330	U	330	U
BIS(2-CHLOROETHYL)ETHER -----	330	U	330	U	330	U
BIS(2-CHLOROISOPROPYL)ETHER ----	330	U	330	U	330	U
BIS(2-ETHYLHEXYL)PHTHALATE ----	330	U	330	U	330	U
BUTYLBENZYL PHTHALATE -----	330	U	330	U	330	U
4-BROMOPHENYL-PHENYL ETHER ----	330	U	330	U	330	U
4-CHLOROANILINE -----	330	U	330	U	330	U
2-CHLORONAPHTHALENE -----	330	U	330	U	330	U
4-CHLOROPHENYL-PHENYL ETHER ---	330	U	330	U	330	U
CHRYSENE -----	330	U	330	U	330	U
DIBENZ(a,b)ANTHRACENE -----	330	U	330	U	330	U
DIBENZOFURAN -----	330	U	330	U	330	U
DI-N-BUTYLPHTHALATE -----	330	U	330	U	330	U
1,2-DICHLOROBENZENE -----	330	U	330	U	330	U
1,3-DICHLOROBENZENE -----	330	U	330	U	330	U
1,4-DICHLOROBENZENE -----	330	U	330	U	330	U
3,3'-DICHLOROBENZIDINE -----	660	U	660	U	660	U
DIETHYL PHTHALATE -----	330	U	330	U	330	U
DIMETHYL PHTHALATE -----	330	U	330	U	330	U
2,4-DINITROTOLUENE -----	330	U	330	U	330	U
2,6-DINITROTOLUENE -----	330	U	330	U	330	U
DI-N-OCTYL PHTHALATE -----	330	U	330	U	330	U
FLUORANTHENE -----	330	U	330	U	330	U
FLUORENE -----	330	U	330	U	330	U
HEXACHLOROBENZENE -----	330	U	330	U	330	U
HEXACHLOROBUTADIENE -----	330	U	330	U	330	U
HEXACHLOROCYCLOPENTADIENE ---	330	U	330	U	330	U
HEXACHLOROETHANE -----	330	U	330	U	330	U
INDENO(1,2,3-cd)PYRENE -----	330	U	330	U	330	U

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 08

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	VO9-SB2-01	VO9-SB2-02
LABORATORY SAMPLE ID:	93072313	93072314
DATE SAMPLED:	5-10-93	5-10-93
DATE EXTRACTED:	5-20-93	5-19-93
% SOLIDS:	82.5	88.7
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg	
ISOPHORONE -----	330	U	330	U	330	U
2-METHYL NAPHTHALENE -----	330	U	330	U	330	U
NAPHTHALENE -----	330	U	330	U	330	U
2-NITROANILINE -----	1,600	U	1,600	U	1,600	U
3-NITROANILINE -----	1,600	U	1,600	U	1,600	U
4-NITROANILINE -----	1,600	U	1,600	U	1,600	U
NITROBENZENE -----	330	U	330	U	330	U
N-NITROSODIPHENYLAMINE -----	330	U	330	U	330	U
N-NITROS-DI-N-PROPYLAMINE -----	330	U	330	U	330	U
PHENANTHRENE -----	330	U	330	U	330	U
PYRENE -----	330	U	330	U	330	U
1,2,4-TRICHLOROBENZENE -----	330	U	330	U	330	U
CARBAZOLE -----	330	U	330	U	330	U

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg	
4-CHLORO-3-METHYLPHENOL -----	330	U	330	U	330	U
2-CHLOROPHENOL -----	330	U	330	U	330	U
2,4-DICHLOROPHENOL -----	330	U	330	U	330	U
2,4-DIMETHYL PHENOL -----	330	U	330	U	330	U
2,4-DINITROPHENOL -----	1,600	U	1,600	U	1,600	U
4,6-DINITRO-2-METHYLPHENOL -----	1,600	U	1,600	U	1,600	U
2-METHYL PHENOL -----	330	U	330	U	330	U
4-METHYL PHENOL -----	330	U	330	U	330	U
2-NITROPHENOL -----	330	U	330	U	330	U
4-NITROPHENOL -----	1,600	U	1,600	U	1,600	U
PENTACHLOROPHENOL -----	1,600	U	1,600	U	1,600	U
PHENOL -----	330	U	330	U	330	U
2,4,5-TRICHLOROPHENOL -----	1,600	U	1,600	U	1,600	U
2,4,6-TRICHLOROPHENOL -----	330	U	330	U	330	U

SURROGATE % RECOVERY	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	70	74	54 -- 143
2-FLUOROBIPHENYL	72	76	43 -- 125
TERPHENYL (d14)	79	89	25 -- 139
PHENOL (d5)	65	67	40 -- 135
2-FLUOROPHENOL	85	87	48 -- 140
2,4,6-TRIBROMOPHENOL	64	56	18 -- 141
2-CHLOROPHENOL (d4)	72	75	43 -- 124
1,2-DICHLOROBENZENE (d4)	72	74	38 -- 129

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 09

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V09-SB3A-01	V09-SB3A-02	V09-SB3A-03	V09-SB4-01
LABORATORY SAMPLE ID:	93073501	93073502	93073503	93073504
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-21-93	5-21-93	5-21-93	5-21-93
% SOLIDS:	87.5	89.6	89.8	91.0
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg	
ACENAPHTHENE	330	U	330	U	330	U	190	J	330	U
ACENAPHTHYLENE	330	U	330	U	330	U	330	U	330	U
ANTHRACENE	330	U	330	U	330	U	440		330	U
BENZO(a)ANTHRACENE	330	U	330	U	330	U	570		330	U
BENZO(b)FLUORANTHENE	330	U	330	U	330	U	330	U	330	U
BENZO(k)FLUORANTHENE	330	U	330	U	330	U	660		330	U
BENZO(a)PYRENE	330	U	330	U	330	U	420		330	U
BENZO(g,h,i)PERYLENE	330	U	330	U	330	U	470		330	U
BENZOIC ACID	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U
BENZYL ALCOHOL	330	U	330	U	330	U	330	U	330	U
BIS(2-CHLOROETHOXY)METHANE	330	U	330	U	330	U	330	U	330	U
BIS(2-CHLOROETHYL)ETHER	330	U	330	U	330	U	330	U	330	U
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330	U	330	U	330	U	330	U
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330	U	330	U	190	J	330	U
BUTYLBENZYL PHTHALATE	330	U	330	U	330	U	330	U	330	U
4-BROMOPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330	U
4-CHLOROANILINE	330	U	330	U	330	U	330	U	330	U
2-CHLORONAPHTHALENE	330	U	330	U	330	U	330	U	330	U
4-CHLOROPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330	U
CHRYSENE	330	U	330	U	330	U	470		330	U
DIBENZ(a,h)ANTHRACENE	330	U	330	U	330	U	330	U	330	U
DIBENZOFURAN	330	U	330	U	330	U	330	U	330	U
DI-N-BUTYL PHTHALATE	330	U	330	U	330	U	330	U	330	U
1,2-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330	U
1,3-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330	U
1,4-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330	U
3,3'-DICHLOROBENZIDINE	660	U	660	U	660	U	660	U	660	U
DIETHYL PHTHALATE	330	U	330	U	330	U	330	U	330	U
DIMETHYL PHTHALATE	330	U	330	U	330	U	330	U	330	U
2,4-DINITROTOLUENE	330	U	330	U	330	U	330	U	330	U
2,6-DINITROTOLUENE	330	U	330	U	330	U	330	U	330	U
DI-N-OCTYL PHTHALATE	330	U	330	U	330	U	330	U	330	U
FLUORANTHENE	330	U	330	U	330	U	1,800		330	U
FLUORENE	330	U	330	U	330	U	190	J	330	U
HEXACHLOROBENZENE	330	U	330	U	330	U	330	U	330	U
HEXACHLOROBUTADIENE	330	U	330	U	330	U	330	U	330	U
HEXACHLOROCYCLOPENTADIENE	330	U	330	U	330	U	330	U	330	U
HEXACHLOROETHANE	330	U	330	U	330	U	330	U	330	U
INDENO(1,2,3-cd)PYRENE	330	U	330	U	330	U	200	J	330	U

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Sample Delivery Group No.: 09

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V09-SB3A-01	V09-SB3A-02	V09-SB3A-03	V09-SB4-01
LABORATORY SAMPLE ID:	93073501	93073502	93073503	93073504
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-21-93	5-21-93	5-21-93	5-21-93
% SOLIDS:	87.5	89.6	89.8	91.0
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE -----	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
2-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE -----	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE -----	330	U	330	U	330	U	330	U	330
N-NITRO-S-DI-N-PROPYLAMINE -----	330	U	330	U	330	U	330	U	330
PHENANTHRENE -----	330	U	330	U	330	U	1,500		330
PYRENE -----	330	U	330	U	330	U	1,500		330
1,2,4-TRICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
CARBAZOLE -----	330	U	330	U	330	U	160	J	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL -----	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2-NITROPHENOL -----	330	U	330	U	330	U	330	U	330
4-NITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL -----	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	73	69	61	76	54 - 143
2-FLUOROBIPHENYL	74	77	67	79	43 - 125
TERPHENYL (d14)	77	78	71	87	25 - 139
PHENOL (d5)	73	75	62	67	40 - 135
2-FLUOROPHENOL	76	77	60	95	48 - 140
2,4,6-TRIBROMOPHENOL	83	86	71	68	18 - 141
2-CHLOROPHENOL (d4)	75	76	62	77	43 - 124
1,2-DICHLOROBENZENE (d4)	74	77	65	76	38 - 129

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Sample Delivery Group No.: 09

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V09-SB4-02	V09-SB1C-01	V09-SB1C-02	V07-SB1-01
LABORATORY SAMPLE ID:	93073505	93073506	93073507	93073510
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-21-93	5-21-93	5-21-93	5-21-93
% SOLIDS:	87.7	89.1	89.1	90.7
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE -----	330	U	330	U	330	U	330	U	330
ACENAPHTHYLENE -----	330	U	330	U	330	U	330	U	330
ANTHRACENE -----	330	U	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE -----	330	U	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE -----	330	U	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE -----	330	U	330	U	330	U	330	U	330
BENZO(a)PYRENE -----	330	U	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE -----	330	U	330	U	330	U	330	U	330
BENZOIC ACID -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL -----	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE -----	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER -----	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER -----	330	U	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE -----	330	U	330	U	330	U	330	U	330
BUTYLBENZYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER -----	330	U	330	U	330	U	330	U	330
4-CHLOROANILINE -----	330	U	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE -----	330	U	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER -----	330	U	330	U	330	U	330	U	330
CHRYSENE -----	330	U	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE -----	330	U	330	U	330	U	330	U	330
DIBENZOFURAN -----	330	U	330	U	330	U	330	U	330
DI-N-BUTYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
3,3'-DICHLOROBENZIDINE -----	660	U	660	U	660	U	660	U	660
DIETHYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
DIMETHYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
2,4-DINITROTOLUENE -----	330	U	330	U	330	U	330	U	330
2,6-DINITROTOLUENE -----	330	U	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
FLUORANTHENE -----	330	U	330	U	330	U	330	U	330
FLUORENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROETHANE -----	330	U	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE -----	330	U	330	U	330	U	330	U	330

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Sample Delivery Group No.: 09

METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V09-SB4-02	V09-SB1C-01	V09-SB1C-02	V07-SB1-01
LABORATORY SAMPLE ID:	93073505	93073506	93073507	93073510
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-21-93	5-21-93	5-21-93	5-21-93
% SOLIDS:	87.7	89.1	89.1	90.7
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE -----	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
2-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE -----	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE -----	330	U	330	U	330	U	330	U	330
N-NITROS-DI-N-PROPYLAMINE -----	330	U	330	U	330	U	330	U	330
PHENANTHRENE -----	330	U	330	U	330	U	330	U	330
PYRENE -----	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
CARBAZOLE -----	330	U	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL -----	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2-NITROPHENOL -----	330	U	330	U	330	U	330	U	330
4-NITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL -----	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	67	85	81	75	54 - 143
2-FLUOROBIPHENYL	74	87	85	74	43 - 125
TERPHENYL (d14)	68	74	76	77	25 - 139
PHENOL (d5)	56	72	62	57	40 - 135
2-FLUOROPHENOL	78	102	93	84	48 - 140
2,4,6-TRIBROMOPHENOL	47	51	34	33	18 - 141
2-CHLOROPHENOL (d4)	66	82	76	71	43 - 124
1,2-DICHLOROBENZENE (d4)	62	83	78	74	38 - 129

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 09

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V07-SB1-02	----
LABORATORY SAMPLE ID:	93073511	SBLKS4
DATE SAMPLED:	5-17-93	----
DATE EXTRACTED:	5-21-93	5-21-93
% SOLIDS:	89.3	----
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg	
ACENAPHTHENE -----	330	U	330	U	330	U
ACENAPHTHYLENE -----	330	U	330	U	330	U
ANTHRACENE -----	330	U	330	U	330	U
BENZO(a)ANTHRACENE -----	330	U	330	U	330	U
BENZO(b)FLUORANTHENE -----	330	U	330	U	330	U
BENZO(k)FLUORANTHENE -----	330	U	330	U	330	U
BENZO(a)PYRENE -----	330	U	330	U	330	U
BENZO(g,h,i)PERYLENE -----	330	U	330	U	330	U
BENZOIC ACID -----	1,600	U	1,600	U	1,600	U
BENZYL ALCOHOL -----	330	U	330	U	330	U
BIS(2-CHLOROETHOXY)METHANE -----	330	U	330	U	330	U
BIS(2-CHLOROETHYL)ETHER -----	330	U	330	U	330	U
BIS(2-CHLOROISOPROPYL)ETHER -----	330	U	330	U	330	U
BIS(2-ETHYLHEXYL)PHTHALATE -----	330	U	330	U	330	U
BUTYLBENZYL PHTHALATE -----	330	U	330	U	330	U
4-BROMOPHENYL-PHENYL ETHER -----	330	U	330	U	330	U
4-CHLOROANILINE -----	330	U	330	U	330	U
2-CHLORONAPHTHALENE -----	330	U	330	U	330	U
4-CHLOROPHENYL-PHENYL ETHER -----	330	U	330	U	330	U
CHRYSENE -----	330	U	330	U	330	U
DIBENZ(a,h)ANTHRACENE -----	330	U	330	U	330	U
DIBENZOFURAN -----	330	U	330	U	330	U
DI-N-BUTYLPHTHALATE -----	330	U	330	U	330	U
1,2-DICHLOROBENZENE -----	330	U	330	U	330	U
1,3-DICHLOROBENZENE -----	330	U	330	U	330	U
1,4-DICHLOROBENZENE -----	330	U	330	U	330	U
3,3'-DICHLOROBENZIDINE -----	660	U	660	U	660	U
DIETHYL PHTHALATE -----	330	U	330	U	330	U
DIMETHYL PHTHALATE -----	330	U	330	U	330	U
2,4-DINITROTOLUENE -----	330	U	330	U	330	U
2,6-DINITROTOLUENE -----	330	U	330	U	330	U
DI-N-OCTYL PHTHALATE -----	330	U	330	U	330	U
FLUORANTHENE -----	330	U	330	U	330	U
FLUORENE -----	330	U	330	U	330	U
HEXACHLOROBENZENE -----	330	U	330	U	330	U
HEXACHLOROBUTADIENE -----	330	U	330	U	330	U
HEXACHLOROCYCLOPENTADIENE -----	330	U	330	U	330	U
HEXACHLOROETHANE -----	330	U	330	U	330	U
INDENO(1,2,3-cd)PYRENE -----	330	U	330	U	330	U

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 09

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V07-SB1-02	—
LABORATORY SAMPLE ID:	93073511	SBLKS4
DATE SAMPLED:	5-17-93	—
DATE EXTRACTED:	5-21-93	5-21-93
% SOLIDS:	89.3	—
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		MDL ug/kg	
ISOPHORONE -----	330	U	330	U	330	U
2-METHYL NAPHTHALENE -----	330	U	330	U	330	U
NAPHTHALENE -----	330	U	330	U	330	U
2-NITROANILINE -----	1,600	U	1,600	U	1,600	U
3-NITROANILINE -----	1,600	U	1,600	U	1,600	U
4-NITROANILINE -----	1,600	U	1,600	U	1,600	U
NITROBENZENE -----	330	U	330	U	330	U
N-NITROSODIPHENYLAMINE -----	330	U	330	U	330	U
N-NITROS-DI-N-PROPYLAMINE -----	330	U	330	U	330	U
PHENANTHRENE -----	330	U	330	U	330	U
PYRENE -----	330	U	330	U	330	U
1,2,4-TRICHLOROBENZENE -----	330	U	330	U	330	U
CARBAZOLE -----	330	U	330	U	330	U

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg	
4-CHLORO-3-METHYLPHENOL -----	330	U	330	U	330	U
2-CHLOROPHENOL -----	330	U	330	U	330	U
2,4-DICHLOROPHENOL -----	330	U	330	U	330	U
2,4-DIMETHYL PHENOL -----	330	U	330	U	330	U
2,4-DINITROPHENOL -----	1,600	U	1,600	U	1,600	U
4,6-DINITRO-2-METHYLPHENOL -----	1,600	U	1,600	U	1,600	U
2-METHYL PHENOL -----	330	U	330	U	330	U
4-METHYL PHENOL -----	330	U	330	U	330	U
2-NITROPHENOL -----	330	U	330	U	330	U
4-NITROPHENOL -----	1,600	U	1,600	U	1,600	U
PENTACHLOROPHENOL -----	1,600	U	1,600	U	1,600	U
PHENOL -----	330	U	330	U	330	U
2,4,5-TRICHLOROPHENOL -----	1,600	U	1,600	U	1,600	U
2,4,6-TRICHLOROPHENOL -----	330	U	330	U	330	U

SURROGATE % RECOVERY	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	80	67	54 - 143
2-FLUOROBIPHENYL	80	71	43 - 125
TEIRPHENYL (d14)	81	76	25 - 139
PHENOL (d5)	64	69	40 - 135
2-FLUOROPHENOL	92	71	48 - 140
2,4,6-TRIBROMOPHENOL	40	67	18 - 141
2-CHLOROPHENOL (d4)	77	69	43 - 124
1,2-DICHLOROBENZENE (d4)	78	68	38 - 129

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HUNTINGDON ANALYTICAL SERVICES

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METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-14	---
LABORATORY SAMPLE ID:	93073508	SBLKW2
DATE SAMPLED:	5-17-93	---
DATE EXTRACTED:	5-24-93	5-24-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L	
ACENAPHTHENE -----	10	U	10	U	10	U
ACENAPHTHYLENE -----	10	U	10	U	10	U
ANTHRACENE -----	10	U	10	U	10	U
BENZO(a)ANTHRACENE -----	10	U	10	U	10	U
BENZO(b)FLUORANTHENE -----	10	U	10	U	10	U
BENZO(k)FLUORANTHENE -----	10	U	10	U	10	U
BENZO(a)PYRENE -----	10	U	10	U	10	U
BENZO(g,h,i)PERYLENE -----	10	U	10	U	10	U
BENZOIC ACID -----	50	U	50	U	50	U
BENZYL ALCOHOL -----	10	U	10	U	10	U
BIS(2-CHLOROETHOXY)METHANE ---	10	U	10	U	10	U
BIS(2-CHLOROETHYL)ETHER -----	10	U	10	U	10	U
BIS(2-CHLOROISOPROPYL)ETHER ---	10	U	10	U	10	U
BIS(2-ETHYLHEXYL)PHTHALATE ---	18		150		10	U
BUTYLBENZYL PHTHALATE -----	10	U	10	U	10	U
4-BROMOPHENYL-PHENYL ETHER ---	10	U	10	U	10	U
4-CHLOROANILINE -----	10	U	10	U	10	U
2-CHLORONAPHTHALENE -----	10	U	10	U	10	U
4-CHLOROPHENYL-PHENYL ETHER ---	10	U	10	U	10	U
CHRYSENE -----	10	U	10	U	10	U
DIBENZ(a,h)ANTHRACENE -----	10	U	10	U	10	U
DIBENZOFURAN -----	10	U	10	U	10	U
DI-N-BUTYLPHTHALATE -----	10	U	10	U	10	U
1,2-DICHLOROBENZENE -----	10	U	10	U	10	U
1,3-DICHLOROBENZENE -----	10	U	10	U	10	U
1,4-DICHLOROBENZENE -----	10	U	10	U	10	U
3,3-DICHLOROBENZIDINE -----	20	U	20	U	20	U
DIETHYL PHTHALATE -----	10	U	10	U	10	U
DIMETHYL PHTHALATE -----	10	U	10	U	10	U
2,4-DINITROTOLUENE -----	10	U	10	U	10	U
2,6-DINITROTOLUENE -----	10	U	10	U	10	U
DI-N-OCTYL PHTHALATE -----	10	U	10	U	10	U
FLUORANTHENE -----	10	U	10	U	10	U
FLUORENE -----	10	U	10	U	10	U
HEXACHLOROBENZENE -----	10	U	10	U	10	U
HEXACHLOROBUTADIENE -----	10	U	10	U	10	U
HEXACHLOROCYCLOPENTADIENE ---	10	U	10	U	10	U
HEXACHLOROETHANE -----	10	U	10	U	10	U
INDENO(1,2,3-cd)PYRENE -----	10	U	10	U	10	U

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group New York

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METHOD 8270
SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-14	---
LABORATORY SAMPLE ID:	93073508	SBLKW2
DATE SAMPLED:	5-17-93	---
DATE EXTRACTED:	5-24-93	5-24-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L	
ISOPHORONE -----	10	U	10	U	10	U
2-METHYL NAPHTHALENE -----	10	U	10	U	10	U
NAPHTHALENE -----	10	U	10	U	10	U
2-NITROANILINE -----	50	U	50	U	50	U
3-NITROANILINE -----	50	U	50	U	50	U
4-NITROANILINE -----	50	U	50	U	50	U
NITROBENZENE -----	10	U	10	U	10	U
N-NITROSODIPHENYLAMINE -----	10	U	10	U	10	U
N-NITROS-DI-N-PROPYLAMINE -----	10	U	10	U	10	U
PHENANTHRENE -----	10	U	10	U	10	U
PYRENE -----	10	U	10	U	10	U
1,2,4-TRICHLOROBENZENE -----	10	U	10	U	10	U
CARBAZOLE -----	10	U	10	U	10	U

ACID COMPOUNDS	RESULT ug/L		RESULT ug/L		RESULT ug/L	
4-CHLORO-3-METHYLPHENOL -----	10	U	10	U	10	U
2-CHLOROPHENOL -----	10	U	10	U	10	U
2,4-DICHLOROPHENOL -----	10	U	10	U	10	U
2,4-DIMETHYL PHENOL -----	10	U	10	U	10	U
2,4-DINITROPHENOL -----	50	U	50	U	50	U
4,6-DINITRO-2-METHYLPHENOL -----	50	U	50	U	50	U
3-METHYL PHENOL -----	10	U	10	U	50	U
4-METHYL PHENOL -----	10	U	10	U	10	U
2-NITROPHENOL -----	10	U	10	U	10	U
4-NITROPHENOL -----	50	U	50	U	50	U
PENTACHLOROPHENOL -----	50	U	50	U	50	U
PHENOL -----	10	U	10	U	10	U
2,4,5-TRICHLOROPHENOL -----	50	U	50	U	50	U
2,4,6-TRICHLOROPHENOL -----	10	U	10	U	10	U

SURROGATE % RECOVERY	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	85	68	16 - 146
2-FLUOROBIPHENYL	81	78	21 - 113
TERPHENYL (d14)	74	76	12 - 146
PHENOL (d5)	42	27	11 - 104
2-FLUOROPHENOL	78	54	17 - 117
2,4,6-TRIBROMOPHENOL	56	49	22 - 144
2-CHLOROPHENOL (d4)	82	74	20 - 130
1,2-DICHLOROBENZENE (d4)	79	64	20 - 130

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 11

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-16	—
LABORATORY SAMPLE ID:	93075109	SBLKW2
DATE SAMPLED:	5-19-93	—
DATE EXTRACTED:	5-24-93	5-24-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L
ACENAPHTHENE	10	U	10	U	10
ACENAPHTHYLENE	10	U	10	U	10
ANTHRACENE	10	U	10	U	10
BENZO(a)ANTHRACENE	10	U	10	U	10
BENZO(b)FLUORANTHENE	10	U	10	U	10
BENZO(k)FLUORANTHENE	10	U	10	U	10
BENZO(a)PYRENE	10	U	10	U	10
BENZO(g,h,i)PERYLENE	10	U	10	U	10
BENZOIC ACID	50	U	50	U	50
BENZYL ALCOHOL	10	U	10	U	10
BIS(2-CHLOROETHOXY)METHANE	10	U	10	U	10
BIS(2-CHLOROETHYL)ETHER	10	U	10	U	10
BIS(2-CHLOROISOPROPYL)ETHER	10	U	10	U	10
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	150		10
BUTYLBENZYL PHTHALATE	10	U	10	U	10
4-BROMOPHENYL-PHENYL ETHER	10	U	10	U	10
4-CHLOROANILINE	10	U	10	U	10
2-CHLORONAPHTHALENE	10	U	10	U	10
4-CHLOROPHENYL-PHENYL ETHER	10	U	10	U	10
CHRYSENE	10	U	10	U	10
DIBENZ(a,h)ANTHRACENE	10	U	10	U	10
DIBENZOFURAN	10	U	10	U	10
DI-N-BUTYLPHTHALATE	10	U	10	U	10
1,2-DICHLOROBENZENE	10	U	10	U	10
1,3-DICHLOROBENZENE	10	U	10	U	10
1,4-DICHLOROBENZENE	10	U	10	U	10
3,3-DICHLOROBENZIDINE	20	U	20	U	20
DIETHYL PHTHALATE	10	U	10	U	10
DIMETHYL PHTHALATE	10	U	10	U	10
2,4-DINITROTOLUENE	10	U	10	U	10
2,6-DINITROTOLUENE	10	U	10	U	10
DI-N-OCTYL PHTHALATE	10	U	10	U	10
FLUORANTHENE	10	U	10	U	10
FLUORENE	10	U	10	U	10
HEXACHLOROBENZENE	10	U	10	U	10
HEXACHLOROBUTADIENE	10	U	10	U	10
HEXACHLOROCYCLOPENTADIENE	10	U	10	U	10
HEXACHLOROETHANE	10	U	10	U	10
INDENO(1,2,3-cd)PYRENE	10	U	10	U	10

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 11

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-16	—
LABORATORY SAMPLE ID:	93075109	SBLKW2
DATE SAMPLED:	5-19-93	—
DATE EXTRACTED:	5-24-93	5-24-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L
ISOPHORONE	10	U	10	U	10
2-METHYL NAPHTHALENE	10	U	10	U	10
NAPHTHALENE	10	U	10	U	10
2-NITROANILINE	50	U	50	U	50
3-NITROANILINE	50	U	50	U	50
4-NITROANILINE	50	U	50	U	50
NITROBENZENE	10	U	10	U	10
N-NITROSODIPHENYLAMINE	10	U	10	U	10
N-NITROS-DI-N-PROPYLAMINE	10	U	10	U	10
PHENANTHRENE	10	U	10	U	10
PYRENE	10	U	10	U	10
1,2,4-TRICHLOROBENZENE	10	U	10	U	10
CARBAZOLE	10	U	10	U	10

ACID COMPOUNDS	RESULT ug/L		RESULT ug/L		RESULT ug/L
4-CHLORO-3-METHYLPHENOL	10	U	10	U	10
2-CHLOROPHENOL	10	U	10	U	10
2,4-DICHLOROPHENOL	10	U	10	U	10
2,4-DIMETHYL PHENOL	10	U	10	U	10
2,4-DINITROPHENOL	50	U	50	U	50
4,6-DINITRO-2-METHYLPHENOL	50	U	50	U	50
2-METHYL PHENOL	10	U	10	U	50
4-METHYL PHENOL	10	U	10	U	10
2-NITROPHENOL	10	U	10	U	10
4-NITROPHENOL	50	U	50	U	50
PENTACHLOROPHENOL	50	U	50	U	50
PHENOL	10	U	10	U	10
2,4,5-TRICHLOROPHENOL	50	U	50	U	50
2,4,6-TRICHLOROPHENOL	10	U	10	U	10

SURROGATE % RECOVERY	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	80	85	16 - 146
2-FLUOROBIPHENYL	86	81	21 - 113
TERPHENYL (d14)	70	74	12 - 146
PHENOL (d5)	27	42	11 - 104
2-FLUOROPHENOL	57	78	17 - 117
2,4,6-TRIBROMOPHENOL	38	56	22 - 144
2-CHLOROPHENOL (d4)	79	82	20 - 130

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 11

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V11-SB4-03	V11-SB4-04	V11-SB2-01	V11-SB2-02
LABORATORY SAMPLE ID:	93075101	93075102	93075103	93075104
DATE SAMPLED:	5-19-93	5-19-93	5-19-93	5-19-93
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.8	90.5	90.2	89.7
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE	330	U	330	U	330	U	330	U	330
ACENAPHTHYLENE	330	U	330	U	330	U	330	U	330
ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE	330	U	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE	330	U	330	U	330	U	330	U	330
BENZO(a)PYRENE	330	U	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE	330	U	330	U	330	U	330	U	330
BENZOIC ACID	1,600	U	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330	U	330	U	330	U	330
BUTYLBENZYL PHTHALATE	330	U	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
4-CHLOROANILINE	330	U	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE	330	U	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER	330	U	330	U	330	U	330	U	330
CHRYSENE	330	U	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE	330	U	330	U	330	U	330	U	330
DIBENZOFURAN	330	U	330	U	330	U	330	U	330
DI-N-BUTYLPHTHALATE	330	U	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE	330	U	330	U	330	U	330	U	330
3,3'-DICHLOROBIENZIDINE	660	U	660	U	660	U	660	U	660
DIETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
DIMETHYL PHTHALATE	330	U	330	U	330	U	330	U	330
2,4-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
2,6-DINITROTOLUENE	330	U	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE	330	U	330	U	330	U	330	U	330
FLUORANTHENE	330	U	330	U	330	U	330	U	330
FLUORENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBENZENE	330	U	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE	330	U	330	U	330	U	330	U	330
HEXACHLOROETHANE	330	U	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE	330	U	330	U	330	U	330	U	330

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 11

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V11-SB4-03	V11-SB4-04	V11-SB2-01	V11-SB2-02
LABORATORY SAMPLE ID:	93075101	93075102	93075103	93075104
DATE SAMPLED:	5-19-93	5-19-93	5-19-93	5-19-93
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93	5-26-93
% SOLIDS:	90.8	90.5	90.2	89.7
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE	330	U	330	U	330	U	330	U	330
NAPHTHALENE	330	U	330	U	330	U	330	U	330
2-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE	330	U	330	U	330	U	330	U	330
N-NITROS-DI-N-PROPYLAMINE	330	U	330	U	330	U	330	U	330
PHENANTHRENE	330	U	330	U	330	U	330	U	330
PYRENE	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE	330	U	330	U	330	U	330	U	330
CARBAZOLE	330	U	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL	330	U	330	U	330	U	330	U	330
2-NITROPHENOL	330	U	330	U	330	U	330	U	330
4-NITROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL	330	U	330	U	330	U	330	U	330
2,4,6-TRICHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC		% REC		% REC		% REC		CONTROL LIMITS
NITROBENZENE (d5)	79		82		82		76		54 - 143
2-FLUOROBIPHENYL	86		81		88		82		43 - 125
TERPHENYL (d14)	78		77		87		77		25 - 139
PHENOL (d5)	87		87		89		87		40 - 135
2-FLUOROPHENOL	87		90		85		88		48 - 140
2,4,6-TRIBROMOPHENOL	84		81		88		84		18 - 141
2-CHLOROPHENOL (d4)	86		82		84		84		43 - 124
1,2-DICHLOROBENZENE (d4)	78		78		78		78		38 - 129

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Sample Delivery Group No.: 11

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V11-SB1-01	V11-SB1-02	---
LABORATORY SAMPLE ID:	93075105	93075106	SBLKS6
DATE SAMPLED:	5-19-93	5-19-93	---
DATE EXTRACTED:	5-25-93	5-25-93	5-26-93
% SOLIDS:	90.6	88.7	---
DILUTION FACTOR(S):	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE	330	U	330	U	330	U	330
ACENAPHTHYLENE	330	U	330	U	330	U	330
ANTHRACENE	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE	330	U	330	U	330	U	330
BENZO(a)PYRENE	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE	330	U	330	U	330	U	330
BENZOIC ACID	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	330	U	330	U	330
BUTYLBENZYL PHTHALATE	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER	330	U	330	U	330	U	330
4-CHLOROANILINE	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER	330	U	330	U	330	U	330
CHRYSENE	330	U	330	U	330	U	330
DIBENZ(a,b)ANTHRACENE	330	U	330	U	330	U	330
DIBENZOFURAN	330	U	330	U	330	U	330
DI-N-BUTYLPHTHALATE	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE	330	U	330	U	330	U	330
3,3'-DICHLORO BENZIDINE	660	U	660	U	660	U	660
DIETHYL PHTHALATE	330	U	330	U	330	U	330
DIMETHYL PHTHALATE	330	U	330	U	330	U	330
2,4-DINITROTOLUENE	330	U	330	U	330	U	330
2,6-DINITROTOLUENE	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE	330	U	330	U	330	U	330
FLUORANTHENE	330	U	330	U	330	U	330
FLUORENE	330	U	330	U	330	U	330
HEXACHLOROBENZENE	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE	330	U	330	U	330	U	330
HEXACHLOROETHANE	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE	330	U	330	U	330	U	330

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Sample Delivery Group No.: 11

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	V11-SB1-01	V11-SB1-02	—
LABORATORY SAMPLE ID:	93075105	93075106	SBLKS6
DATE SAMPLED:	5-19-93	5-19-93	—
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	90.6	88.7	—
DILUTION FACTOR(S):	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE	330	U	330	U	330	U	330
NAPHTHALENE	330	U	330	U	330	U	330
2-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE	330	U	330	U	330	U	330
N-NITRO-DI-N-PROPYLAMINE	330	U	330	U	330	U	330
PHENANTHRENE	330	U	330	U	330	U	330
PYRENE	330	U	330	U	330	U	330
1,2,4-TRICHLORO BENZENE	330	U	330	U	330	U	330
CARBAZOLE	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL	330	U	330	U	330	U	330
2-CHLOROPHENOL	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL	330	U	330	U	330	U	330
2,4-DINITROPHENOL	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL	330	U	330	U	330	U	330
4-METHYL PHENOL	330	U	330	U	330	U	330
2-NITROPHENOL	330	U	330	U	330	U	330
4-NITROPHENOL	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600
PHENOL	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	78	81	74	54 - 143
2-FLUOROBIPHENYL	80	83	76	43 - 125
TERPHENYL (d14)	84	79	78	25 - 139
PHENOL (d5)	89	94	79	40 - 135
2-FLUOROPHENOL	86	90	83	48 - 140
2,4,6-TRIBROMOPHENOL	82	91	77	18 - 141
2-CHLOROPHENOL (d4)	82	87	77	43 - 124
1,2-DICHLORO BENZENE (d4)	78	78	78	38 - 129

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 14

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-19	—
LABORATORY SAMPLE ID:	93078009	SBLKW3
DATE SAMPLED:	5-24-93	—
DATE EXTRACTED:	5-27-93	5-27-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L
ACENAPHTHENE	10	U	10	U	10
ACENAPHTHYLENE	10	U	10	U	10
ANTHRACENE	10	U	10	U	10
BENZO(a)ANTHRACENE	10	U	10	U	10
BENZO(b)FLUORANTHENE	10	U	10	U	10
BENZO(k)FLUORANTHENE	10	U	10	U	10
BENZO(a)PYRENE	10	U	10	U	10
BENZO(g,h,i)PERYLENE	10	U	10	U	10
BENZOIC ACID	50	U	50	U	50
BENZYL ALCOHOL	10	U	10	U	10
BIS(2-CHLOROETHOXY)METHANE	10	U	10	U	10
BIS(2-CHLOROETHYL)ETHER	10	U	10	U	10
BIS(2-CHLOROISOPROPYL)ETHER	10	U	10	U	10
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	10	U	10
BUTYLBENZYL PHTHALATE	10	U	10	U	10
4-BROMOPHENYL-PHENYL ETHER	10	U	10	U	10
4-CHLOROANILINE	10	U	10	U	10
2-CHLORONAPHTHALENE	10	U	10	U	10
4-CHLOROPHENYL-PHENYL ETHER	10	U	10	U	10
CHRYSENE	10	U	10	U	10
DIBENZ(a,b)ANTHRACENE	10	U	10	U	10
DIBENZOFURAN	10	U	10	U	10
DI-N-BUTYLPHTHALATE	10	U	10	U	10
1,2-DICHLOROBENZENE	10	U	10	U	10
1,3-DICHLOROBENZENE	10	U	10	U	10
1,4-DICHLOROBENZENE	10	U	10	U	10
3,3-DICHLOROBENZIDINE	20	U	20	U	20
DIETHYL PHTHALATE	10	U	10	U	10
DIMETHYL PHTHALATE	10	U	10	U	10
2,4-DINITROTOLUENE	10	U	10	U	10
2,6-DINITROTOLUENE	10	U	10	U	10
DI-N-OCTYL PHTHALATE	10	U	10	U	10
FLUORANTHENE	10	U	10	U	10
FLUORENE	10	U	10	U	10
HEXACHLOROBENZENE	10	U	10	U	10
HEXACHLOROBUTADIENE	10	U	10	U	10
HEXACHLOROCYCLOPENTADIENE	10	U	10	U	10
HEXACHLOROETHANE	10	U	10	U	10
INDENO(1,2,3-cd)PYRENE	10	U	10	U	10

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HUNTINGDON ANALYTICAL SERVICES

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Sample Delivery Group No.: 14

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	RB-19	---
LABORATORY SAMPLE ID:	93078009	SBLKW3
DATE SAMPLED:	5-24-93	---
DATE EXTRACTED:	5-27-93	5-27-93
DILUTION FACTOR(S):	1	1

PARAMETER	RESULT ug/L		RESULT ug/L		MDL ug/L
ISOPHORONE _____	10	U	10	U	10
2-METHYL NAPHTHALENE _____	10	U	10	U	10
NAPHTHALENE _____	10	U	10	U	10
2-NITROANILINE _____	50	U	50	U	50
3-NITROANILINE _____	50	U	50	U	50
4-NITROANILINE _____	50	U	50	U	50
NITROBENZENE _____	10	U	10	U	10
N-NITROSODIPHENYLAMINE _____	10	U	10	U	10
N-NITROS-DI-N-PROPYLAMINE _____	10	U	10	U	10
PHENANTHRENE _____	10	U	10	U	10
PYRENE _____	10	U	10	U	10
1,2,4-TRICHLOROBENZENE _____	10	U	10	U	10
CARBAZOLE _____	10	U	10	U	10
ACID COMPOUNDS	RESULT ug/L		RESULT ug/L		RESULT ug/L
4-CHLORO-3-METHYLPHENOL _____	10	U	10	U	10
2-CHLOROPHENOL _____	10	U	10	U	10
2,4-DICHLOROPHENOL _____	10	U	10	U	10
2,4-DIMETHYL PHENOL _____	10	U	10	U	10
2,4-DINITROPHENOL _____	50	U	50	U	50
4,6-DINITRO-2-METHYLPHENOL _____	50	U	50	U	50
2-METHYL PHENOL _____	10	U	10	U	50
4-METHYL PHENOL _____	10	U	10	U	10
2-NITROPHENOL _____	10	U	10	U	10
4-NITROPHENOL _____	50	U	50	U	50
PENTACHLOROPHENOL _____	50	U	50	U	50
PHENOL _____	10	U	10	U	10
2,4,5-TRICHLOROPHENOL _____	50	U	50	U	50
2,4,6-TRICHLOROPHENOL _____	10	U	10	U	10
SURROGATE % RECOVERY	% REC		% REC		CONTROL LIMITS
NITROBENZENE (d5)	90		83		16 - 146
2-FLUOROBIPHENYL	88		83		21 - 113
TERPHENYL (d14)	91		84		12 - 146
PHENOL (d5)	42		33		11 - 104
2-FLUOROPHENOL	57		42		17 - 117
2,4,6-TRIBROMOPHENOL	86		88		22 - 144
2-CHLOROPHENOL (d4)	75		71		20 - 130
1,2-DICHLOROBENZENE (d4)	89		82		20 - 130

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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	U07-SB2-05	U07-SB2-06	U07-SB2-07	----
LABORATORY SAMPLE ID:	93066115	93066116	93066117	SBLKS1
DATE SAMPLED:	5-3-93	5-3-93	5-3-93	----
DATE EXTRACTED:	5-7-93	5-7-93	5-7-93	5-7-93
% SOLIDS:	90.3	90.3	90.4	----
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ACENAPHTHENE -----	330	U	330	U	330	U	330	U	330
ACENAPHTHYLENE -----	330	U	330	U	330	U	330	U	330
ANTHRACENE -----	330	U	330	U	330	U	330	U	330
BENZO(a)ANTHRACENE -----	330	U	330	U	330	U	330	U	330
BENZO(b)FLUORANTHENE -----	330	U	330	U	330	U	330	U	330
BENZO(k)FLUORANTHENE -----	330	U	330	U	330	U	330	U	330
BENZO(a)PYRENE -----	330	U	330	U	330	U	330	U	330
BENZO(g,h,i)PERYLENE -----	330	U	330	U	330	U	330	U	330
BENZOIC ACID -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
BENZYL ALCOHOL -----	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHOXY)METHANE -----	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROETHYL)ETHER -----	330	U	330	U	330	U	330	U	330
BIS(2-CHLOROISOPROPYL)ETHER -----	330	U	330	U	330	U	330	U	330
BIS(2-ETHYLHEXYL)PHTHALATE -----	180	J	3,700		320	J	330	U	330
BUTYLBENZYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
4-BROMOPHENYL-PHENYL ETHER -----	330	U	330	U	330	U	330	U	330
4-CHLOROANILINE -----	330	U	330	U	330	U	330	U	330
2-CHLORONAPHTHALENE -----	330	U	330	U	330	U	330	U	330
4-CHLOROPHENYL-PHENYL ETHER -----	330	U	330	U	330	U	330	U	330
CHRYSENE -----	330	U	330	U	330	U	330	U	330
DIBENZ(a,h)ANTHRACENE -----	330	U	330	U	330	U	330	U	330
DIBENZOFURAN -----	330	U	330	U	330	U	330	U	330
DI-N-BUTYLPHTHALATE -----	330	U	330	U	330	U	330	U	330
1,2-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
1,3-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
1,4-DICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
3,3'-DICHLOROBENZIDINE -----	660	U	660	U	660	U	660	U	660
DIETHYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
DIMETHYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
2,4-DINITROTOLUENE -----	330	U	330	U	330	U	330	U	330
2,6-DINITROTOLUENE -----	330	U	330	U	330	U	330	U	330
DI-N-OCTYL PHTHALATE -----	330	U	330	U	330	U	330	U	330
FLUORANTHENE -----	330	U	330	U	330	U	330	U	330
FLUORENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROBUTADIENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROCYCLOPENTADIENE -----	330	U	330	U	330	U	330	U	330
HEXACHLOROETHANE -----	330	U	330	U	330	U	330	U	330
INDENO(1,2,3-cd)PYRENE -----	330	U	330	U	330	U	330	U	330

000006

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

METHOD 8270

SEMIVOLATILE ORGANICS

FIELD SAMPLE ID:	U07-SB2-05	U07-SB2-06	U07-SB2-07	----
LABORATORY SAMPLE ID:	93066115	93066116	93066117	SBLKS1
DATE SAMPLED:	5-3-93	5-3-93	5-3-93	----
DATE EXTRACTED:	5-7-93	5-7-93	5-7-93	5-7-93
% SOLIDS:	90.3	90.3	90.4	----
DILUTION FACTOR(S):	1	1	1	1

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
ISOPHORONE -----	330	U	330	U	330	U	330	U	330
2-METHYL NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
NAPHTHALENE -----	330	U	330	U	330	U	330	U	330
2-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
3-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4-NITROANILINE -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
NITROBENZENE -----	330	U	330	U	330	U	330	U	330
N-NITROSODIPHENYLAMINE -----	330	U	330	U	330	U	330	U	330
N-NITROS-DI-N-PROPYLAMINE -----	330	U	330	U	330	U	330	U	330
PHENANTHRENE -----	330	U	330	U	330	U	330	U	330
PYRENE -----	330	U	330	U	330	U	330	U	330
1,2,4-TRICHLOROBENZENE -----	330	U	330	U	330	U	330	U	330
CARBAZOLE -----	330	U	330	U	330	U	330	U	330

ACID COMPOUNDS	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg
4-CHLORO-3-METHYLPHENOL -----	330	U	330	U	330	U	330	U	330
2-CHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DIMETHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2,4-DINITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
4,6-DINITRO-2-METHYLPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
4-METHYL PHENOL -----	330	U	330	U	330	U	330	U	330
2-NITROPHENOL -----	330	U	330	U	330	U	330	U	330
4-NITROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PENTACHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
PHENOL -----	330	U	330	U	330	U	330	U	330
2,4,5-TRICHLOROPHENOL -----	1,600	U	1,600	U	1,600	U	1,600	U	1,600
2,4,6-TRICHLOROPHENOL -----	330	U	330	U	330	U	330	U	330

SURROGATE % RECOVERY	% REC	% REC	% REC	% REC	CONTROL LIMITS
NITROBENZENE (d5)	73	77	87	68	54 -- 143
2-FLUOROBIPHENYL	79	81	90	73	43 -- 125
TERPHENYL (d14)	79	97	115	81	25 -- 139
PHENOL (d5)	71	76	85	67	40 -- 135
2-FLUOROPHENOL	85	90	100	78	48 -- 140
2,4,6-TRIBROMOPHENOL	66	64	63	55	18 -- 141
2-CHLOROPHENOL (d4)	76	80	89	70	43 -- 124
1,2-DICHLOROBENZENE (d4)	74	78	88	69	38 -- 129

000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

METHOD 8010

PURGEABLE HALOCARBONS

FIELD SAMPLE ID:	RB-17	TB-11	---
LABORATORY ID:	93076313	93076314	BLANK
DATE SAMPLED:	5-20-93	5-20-93	---
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	---	---	---
DILUTION FACTORS:	1X	1X	1X

PARAMETER	RESULT ug/L	RESULT ug/L	RESULT ug/L	MDL ug/L
CHLOROMETHANE	20.0 U	20.0 U	20.0 U	20.0
BROMOMETHANE	50.0 U	50.0 U	50.0 U	50.0
VINYL CHLORIDE	20.0 U	20.0 U	20.0 U	20.0
CHLOROETHANE	20.0 U	20.0 U	20.0 U	20.0
METHYLENE CHLORIDE	10.0 U	10.0 U	10.0 U	10.0
TRICHLOROFLUOROMETHANE	5.0 U	5.0 U	5.0 U	5.0
1,1-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
1,1-DICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
cis-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
trans-1,2-DICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
CHLOROFORM	5.0 U	5.0 U	5.0 U	5.0
1,2-DICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
1,1,1-TRICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
CARBON TETRACHLORIDE	5.0 U	5.0 U	5.0 U	5.0
BROMODICHLOROMETHANE	10.0 U	10.0 U	10.0 U	10.0
1,2-DICHLOROPROPANE	10.0 U	10.0 U	10.0 U	10.0
CIS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0 U	20.0
TRICHLOROETHENE	5.0 U	5.0 U	5.0 U	5.0
TRANS-1,3-DICHLOROPROPENE	20.0 U	20.0 U	20.0 U	20.0
DIBROMOCHLOROMETHANE	10.0 U	10.0 U	10.0 U	10.0
1,1,2-TRICHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0
2-CHLOROETHYL VINYL ETHER	50.0 U	50.0 U	50.0 U	50.0
BROMOFORM	20.0 U	20.0 U	20.0 U	20.0
1,1,2,2-TETRACHLOROETHANE	3.0 U	3.0 U	3.0 U	3.0
TETRACHLOROETHENE	3.0 U	3.0 U	3.0 U	3.0
CHLOROBENZENE	20.0 U	20.0 U	20.0 U	20.0
1,4-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0
1,2-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0
1,3-DICHLOROBENZENE	15.0 U	15.0 U	15.0 U	15.0

SURROGATE % RECOVERY

CHLOROBROMOMETHANE(66/136)	89	94	131
1-CHLORO-2-BROMOPROPANE(62/135)	93	100	138
1,4-DICHLOROBUTANE(61/131)	89	98	128

000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	VO5-SB2-01	VO5-SB2-02	VO5-SB3-01	VO5-SB3-02
LABORATORY SAMPLE ID:	93075005	93075006	93075007	93075008
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:	5-24-93	5-24-93	5-24-93	5-24-93
% SOLIDS:	89.7	89.9	89.8	90.3
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
BENZENE _____	21	20 U	20 U	20 U	20
TOLUENE _____	55	20 U	20 U	20 U	20
ETHYL BENZENE _____	20	20 U	20 U	20 U	20
TOTAL XYLENES _____	87	30 U	30 U	30 U	30
STYRENE _____	30 U	30 U	30 U	30 U	30
CHLOROBENZENE _____	20 U	20 U	20 U	20 U	20
1,4-DICHLOROBENZENE _____	40 U	40 U	40 U	40 U	40
1,3-DICHLOROBENZENE _____	40 U	40 U	40 U	40 U	40
1,2-DICHLOROBENZENE _____	40 U	40 U	40 U	40 U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	88	75	89	85
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000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

METHOD 8020
PURGEABLE AROMATICS

FIELD SAMPLE ID:	VO6-SB1-01	VO6-SB1-02	VO5-SB1-01	VO5-SB1-02
LABORATORY SAMPLE ID:	93075001	93075002	93075003	93075004
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-21-93	5-21-93	5-21-93	5-21-93
% SOLIDS:	90.2	89.9	90.7	89.8
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			MDL ug/kg
BENZENE _____	20	U		20	U		20	U		20	U		20
TOLUENE	20	U		20	U		20	U		20	U		20
ETHYL BENZENE _____	20	U		20	U		20	U		20	U		20
TOTAL XYLENES _____	30	U		30	U		30	U		30	U		30
STYRENE _____	30	U		30	U		30	U		30	U		30
CHLOROBENZENE _____	20	U		20	U		20	U		20	U		20
1,4-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40
1,3-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40
1,2-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	85	90	81	72
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000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	VO6-SB2-01	VO6-SB2-02	VO7-SB3-01	VO7-SB3-02
LABORATORY SAMPLE ID:	93075009	93075010	93075012	93075013
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	5-18-93
DATE EXTRACTED:	5-24-93	5-24-93	5-24-93	5-25-93
% SOLIDS:	90.8	90.4	91.0	90.9
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	72	72	91	87
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000006

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V11-SB3-03	V11-SB3-04	V11-SB3-05	---
LABORATORY SAMPLE ID:	93075014	93075015	93075016	BLANK
DATE SAMPLED:	5-18-93	5-18-93	5-18-93	---
DATE EXTRACTED:	5-28-93	5-25-93	5-25-93	5-21-93
% SOLIDS:	90.1	85.1	89.7	---
DILUTION FACTOR(S):	5X	5X	5X	1X

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
BENZENE	20 U	20 U	20 U	20 U	20
TOLUENE	20 U	20 U	20 U	20 U	20
ETHYL BENZENE	20 U	20 U	20 U	20 U	20
TOTAL XYLENES	30 U	30 U	30 U	30 U	30
STYRENE	30 U	30 U	30 U	30 U	30
CHLOROBENZENE	20 U	20 U	20 U	20 U	20
1,4-DICHLOROBENZENE	40 U	40 U	40 U	40 U	40
1,3-DICHLOROBENZENE	40 U	40 U	40 U	40 U	40
1,2-DICHLOROBENZENE	40 U	40 U	40 U	40 U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	87	96	81	101
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000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 10

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID: —
LABORATORY SAMPLE ID: BLANK
DATE SAMPLED: —
DATE EXTRACTED: 5-24-93
% SOLIDS: —
DILUTION FACTOR(S): 1X

PARAMETER	RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20
TOLUENE	20	U	20
ETHYL BENZENE	20	U	20
TOTAL XYLENES	30	U	30
STYRENE	30	U	30
CHLOROBENZENE	20	U	20
1,4-DICHLOROBENZENE	40	U	40
1,3-DICHLOROBENZENE	40	U	40
1,2-DICHLOROBENZENE	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109) 99

000008

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 04

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-15	TB-09	—
LABORATORY SAMPLE ID:	93075011	93075017	BLANK
DATE SAMPLED:	5-18-93	5-18-93	—
DATE EXTRACTED:	5-24-93	5-24-93	5-24-93
% SOLIDS:	—	—	—
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE _____	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	88	83	99
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000009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 14

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V08-SB1-07	V08-SB1-08	V08-SB3-01	V08-SB3-02
LABORATORY SAMPLE ID:	93078001	93078002	93078003	93078004
DATE SAMPLED:	5-24-93	5-24-93	5-24-93	5-24-93
DATE EXTRACTED:	5-27-93	5-27-93	5-27-93	5-27-93
% SOLIDS:	90.5	90.4	90.7	90.6
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
BENZENE _____	20 U	20 U	20 U	20 U	20
TOLUENE _____	20 U	20 U	20 U	20 U	20
ETHYL BENZENE _____	20 U	20 U	20 U	20 U	20
TOTAL XYLENES _____	30 U	30 U	30 U	30 U	30

SURROGATE % RECOVERY

AAA-TRICHLOROTOLUENE(24/109)	93	89	76	90
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000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 14

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V08-SB2-01	V08-SB2-02	V08-SB4-01	V08-SB4-02
LABORATORY SAMPLE ID:	93078005	93078006	93078007	93078008
DATE SAMPLED:	5-24-93	5-24-93	5-24-93	5-24-93
DATE EXTRACTED:	5-27-93	5-28-93	5-28-93	5-28-93
% SOLIDS:	89.5	90.2	89.9	90.2
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109)	81	76	74	83
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000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 14

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID: —
LABORATORY SAMPLE ID: BLANK
DATE SAMPLED: —
DATE EXTRACTED: 5-27-93
% SOLIDS: —
DILUTION FACTOR(S): 1X

PARAMETER	RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20
TOLUENE _____	20	U	20
ETHYL BENZENE _____	20	U	20
TOTAL XYLENES _____	30	U	30

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(24/109) 95

000006

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 14

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-19	TB-13	---
LABORATORY SAMPLE ID:	93078009	93078010	BLANK
DATE SAMPLED:	5-24-93	5-24-93	---
DATE EXTRACTED:	5-27-93	5-27-93	5-27-93
% SOLIDS:	---	---	---
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	73	76	95
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000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 09

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V09-SB3A-01	V09-SB3A-02	V09-SB3A-03	V09-SB4-01
LABORATORY SAMPLE ID:	93073501	93073502	93073503	93073504
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-20-93	5-20-93	5-20-93	5-20-93
% SOLIDS:	87.5	89.6	89.8	91.0
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	72	70	68	80
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000004

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 09

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V09-SB4-02	V09-SB1C-01	V09-SB1C-02	V07-SB1-01
LABORATORY SAMPLE ID:	93073505	93073506	93073507	93073510
DATE SAMPLED:	5-17-93	5-17-93	5-17-93	5-17-93
DATE EXTRACTED:	5-20-93	5-21-93	5-21-93	5-21-93
% SOLIDS:	87.7	89.1	89.1	90.7
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	83	77	85	56
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000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 09

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V07-SB1-02	—	—
LABORATORY SAMPLE ID:	93073511	BLANK	BLANK
DATE SAMPLED:	5-17-93	—	—
DATE EXTRACTED:	5-21-93	5-20-93	5-21-93
% SOLIDS:	89.3	—	—
DILUTION FACTOR(S):	5X	1X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE _____	20	U	20	U	20	U	20
TOLUENE _____	20	U	20	U	20	U	20
ETHYL BENZENE _____	20	U	20	U	20	U	20
TOTAL XYLENES _____	30	U	30	U	30	U	30
STYRENE _____	30	U	30	U	30	U	30
CHLOROBENZENE _____	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE _____	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE _____	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	74	101	101
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000006

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 09

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-14	TB-08	—
LABORATORY SAMPLE ID:	93073508	93073509	BLANK
DATE SAMPLED:	5-17-93	5-17-93	—
DATE EXTRACTED:	5-21-93	5-21-93	5-21-93
% SOLIDS:	—	—	—
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(68/124)	87	87	101
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000007

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 11

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V11-SB4-03	V11-SB4-04	V11-SB2-01	V11-SB2-02
LABORATORY SAMPLE ID:	93075101	93075102	93075103	93075104
DATE SAMPLED:	5-19-93	5-19-93	5-19-93	5-19-93
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.8	90.5	90.2	89.7
DILUTION FACTOR(S):	5X	5X	5X	5X

PARAMETER	RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			MDL ug/kg
BENZENE _____	20	U		20	U		20	U		20	U		20
TOLUENE _____	20	U		20	U		20	U		20	U		20
ETHYL BENZENE _____	20	U		20	U		20	U		20	U		20
TOTAL XYLENES _____	30	U		30	U		30	U		30	U		30
STYRENE _____	30	U		30	U		30	U		30	U		30
CHLOROBENZENE _____	20	U		20	U		20	U		20	U		20
1,4-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40
1,3-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40
1,2-DICHLOROBENZENE _____	40	U		40	U		40	U		40	U		40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	86	88	86	86
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HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 11

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	V11-SB1-01	V11-SB1-02	—
LABORATORY SAMPLE ID:	93075105	93075106	BLANK
DATE SAMPLED:	5-19-93	5-19-93	—
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93
% SOLIDS:	90.6	88.7	—
DILUTION FACTOR(S):	5X	5X	1X

PARAMETER	RESULT ug/kg		RESULT ug/kg		RESULT ug/kg		MDL ug/kg
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(24/109)	88	83	102
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000008

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 11

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-16	TB-10	—
LABORATORY SAMPLE ID:	93075109	93075114	BLANK
DATE SAMPLED:	5-19-93	5-19-93	—
DATE EXTRACTED:	5-25-93	5-25-93	5-25-93
% SOLIDS:	—	—	—
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A-TRICHLOROTOLUENE(68/124)	87	90	102
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000009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	U07-SB2-05	U07-SB2-06	U07-SB2-07	---
LABORATORY SAMPLE ID:	93066115	93066116	93066117	BLANK
DATE SAMPLED:	5-3-93	5-3-93	5-3-93	---
DATE EXTRACTED:	5-8-93	5-8-93	5-8-93	5-8-93
% SOLIDS:	90.3	90.3	90.4	---
DILUTION FACTOR(S):	1X	1X	1X	1X

PARAMETER	RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			RESULT ug/kg			MDL ug/kg
BENZENE -----	20	U		20	U		20	U		20	U		20
TOLUENE -----	20	U		20	U		20	U		20	U		20
ETHYL BENZENE -----	20	U		20	U		20	U		20	U		20
TOTAL XYLENES -----	30	U		30	U		30	U		30	U		30
STYRENE -----	30	U		30	U		30	U		30	U		30
CHLOROBENZENE -----	20	U		20	U		20	U		20	U		20
1,4-DICHLOROBENZENE -----	40	U		40	U		40	U		40	U		40
1,3-DICHLOROBENZENE -----	40	U		40	U		40	U		40	U		40
1,2-DICHLOROBENZENE -----	40	U		40	U		40	U		40	U		40

SURROGATE % RECOVERY

A,A,A-TRIFLUOTOLUENE(24/109)	63	71	67	101
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0000C4

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 02

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	TB-01	RB-02	---
LABORATORY SAMPLE ID:	93066118	93066120	BLANK
DATE SAMPLED:	5-3-93	5-3-93	---
DATE EXTRACTED:	5-8-93	5-8-93	5-8-93
% SOLIDS:	---	---	---
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT		RESULT		RESULT		MDL
	ug/L		ug/L		ug/L		ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A,A,A,-TRIFLUOROTOLUENE(68/124)	103	63	102
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000005

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 12

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	RB-17	TB-11	---
LABORATORY SAMPLE ID:	93076313	93076314	BLANK
DATE SAMPLED:	5-20-93	5-20-93	---
DATE EXTRACTED:	5-26-93	5-26-93	5-26-93
% SOLIDS:	---	---	---
DILUTION FACTOR(S):	1X	1X	1X

PARAMETER	RESULT ug/L		RESULT ug/L		RESULT ug/L		MDL ug/L
BENZENE	20	U	20	U	20	U	20
TOLUENE	20	U	20	U	20	U	20
ETHYL BENZENE	20	U	20	U	20	U	20
TOTAL XYLENES	30	U	30	U	30	U	30
STYRENE	30	U	30	U	30	U	30
CHLOROBENZENE	20	U	20	U	20	U	20
1,4-DICHLOROBENZENE	40	U	40	U	40	U	40
1,3-DICHLOROBENZENE	40	U	40	U	40	U	40
1,2-DICHLOROBENZENE	40	U	40	U	40	U	40

SURROGATE % RECOVERY

A.A.A-TRICHLOROTOLUENE(68/124)	87	93	96
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000009

HUNTINGDON ANALYTICAL SERVICES

Sample Delivery Group No.: 08

METHOD 8020

PURGEABLE AROMATICS

FIELD SAMPLE ID:	VO9-SB2-01	VO9-SB2-02
LABORATORY SAMPLE ID:	93072313	93072314
DATE SAMPLED:	5-10-93	5-10-93
DATE EXTRACTED:	5-20-93	5-19-93
% SOLIDS:	82.5	88.7
DILUTION FACTOR(S):	5X	5X

PARAMETER	RESULT ug/kg	RESULT ug/kg	MDL ug/kg
BENZENE _____	20 U	20 U	20
TOLUENE _____	20 U	20 U	20
ETHYL BENZENE _____	20 U	20 U	20
TOTAL XYLENES _____	30 U	30 U	30
STYRENE _____	30 U	30 U	30
CHLOROBENZENE _____	20 U	20 U	20
1,4-DICHLOROBENZENE _____	40 U	40 U	40
1,3-DICHLOROBENZENE _____	40 U	40 U	40
1,2-DICHLOROBENZENE _____	40 U	40 U	40

SURROGATE % RECOVERY

A,A,A-TRIFLUOROTOLUENE(24/109)	81	96
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000028

APPENDIX D
SLUG TEST DATA SUMMARY

**SUMMARY OF HYDRAULIC CONDUCTIVITY
FROM SLUG TEST DATA**

PHILIPS DISPLAY COMPONENTS CO.
SENECA FALLS, NY

AVERAGE HYDRAULIC CONDUCTIVITY

WELL	RISING HEAD TEST	FALLING HEAD TEST				
	(FT/MIN)	(FT/MIN)	(FT/MIN)	(FT/DAY)	(CM/SEC)	(GPD/FT2)
MW-20	3.0E-04	NA	3.0E-04	4.3E-01	1.5E-04	3.25
MW-21	1.3E-05	8.7E-05	5.0E-05	7.2E-02	2.6E-05	0.54
MW-22	8.5E-05	1.2E-04	1.0E-04	1.5E-01	5.3E-05	1.12
MW-23	7.8E-05	7.2E-05	7.5E-05	1.1E-01	3.8E-05	0.81
MW-24	1.8E-05	1.9E-05	1.8E-05	2.6E-02	9.3E-06	0.20
MW-25	1.1E-05	1.1E-05	1.1E-05	1.6E-02	5.6E-06	0.12
MW-26	2.2E-05	3.1E-05	2.7E-05	3.8E-02	1.3E-05	0.29
MW-27	3.4E-05	7.4E-05	5.4E-05	7.8E-02	2.8E-05	0.58
MW-28	7.5E-05	8.5E-05	8.0E-05	1.2E-01	4.1E-05	0.86
MW-29	9.7E-06	2.2E-05	1.6E-05	2.3E-02	8.2E-06	0.17

Supplementary Sampling Visit, Seneca Falls, New York

