ENVIRONMENTAL STRATEGIES CONSULTING LLC
1911 Freedom Drive • Suite 900 • Reston, VA 20190 • (703) 709-6500 • Fax (703) 709-8505

SANITARY SEWER LINE INVESTIGATION REPORT EMERSON POWER TRANSMISSION FACILITY ITHACA, NEW YORK SITE NO. 7-55-010

PREPARED

BY

ENVIRONMENTAL STRATEGIES CONSULTING LLC

JULY 28, 2006

A QUANTA TECHNICAL SERVICES COMPANY

Contents

Acronym List

bgs	below ground surface
EPT	Emerson Power Transmission
µg/kg	micrograms per kilogram
NYSDEC	New York State Department of Environmental Conservation
PCE	tetrachloroethene
PID	photoionization detector
SOP	standard operating procedure
STL	Severn Trent Laboratories, Inc.
TAGM	Technical and Administrative Guidance Memorandum
TCE	trichloroethene
VOCs	volatile organic compounds

1.0 Introduction

On behalf of Emerson, Environmental Strategies Consulting LLC conducted a focused investigation of the sanitary sewer lines that extend from the Emerson Power Transmission (EPT) site to the north along Turner Place in Ithaca, New York. Engineering drawings provided by the Town of Ithaca show that two sanitary sewer lines (one identified as 1878 Line and a second identified as 1979 Line) extend north from the EPT site down Turner Place to the intersection of Pleasant Street. Based on the results of the onsite assessment completed by Emerson in December 2005, the sanitary sewer lines located on Turner Place were considered potential areas of concern. The objective of the focused investigation was to determine if historic releases of site related compounds were associated with these sewer lines.

The scope of work involved drilling and sampling 22 soil borings along the west side of the two sanitary sewer lines that run along Turner Place to the intersection of Pleasant Street. The soil borings were spaced at approximately 100 foot centers beginning at the north limit of the EPT property to the intersection of Pleasant Street. The work was conducted in accordance with the sewer line investigation work plan, dated February 3, 2006, and approved by the New York State Department of Environmental Conservation (NYSDEC) on April 28, 2006. The work was also consistent with requirements outlined in the Consent Order dated July 13, 1987, entered into by the NYSDEC and Emerson.

Section 2 of this report presents background information on the site. The scope of the soil sampling activities is presented in Section 3. This is followed by a discussion of the results and a conclusion of the findings.

2.0 Site Background

2.1 Facility Description

The EPT facility is located at 620 South Aurora Street in Ithaca, New York (Figure 1). The site consists of three main buildings along the northeast and southwest portion of South Hill, one of many relatively steep hills that overlook the city of Ithaca (Figure 1). The majority of the floor space is in the main plant building, which stretches more than 1,600 feet along the eastern edge of the 110-acre site. The main building is flanked by a number of smaller buildings to the west and a series of access roads and parking lots that terrace the hillside above the plant. Further uphill and to the east are South Aurora Street and the campus of Ithaca College. Undeveloped woodland borders the site to the southwest along the steep embankments of the hill. West Spencer Street, which runs parallel to the EPT property, marks the western edge of the wooded section and the base of South Hill. Beyond Spencer Street to the west and in areas along the steep northern approach to South Hill and the EPT property are residential areas. These neighborhoods are bordered by Six Mile Creek, which flows north along the base of South Hill and eventually empties into Cayuga Lake approximately 2 miles northwest of the site.

Sanitary wastewater, process wastewater, non-contact cooling water, boiler blowdown, and miscellaneous wastewater streams are discharged from EPT to the municipal sewer which extends along Turner Place to the north of the EPT facility. According to historic files reviewed as part of the assessment work, solvent may have been historically discharged to the municipal sewers lines located on Turner Place.

3.0 Scope of Work

This section describes the scope of the investigation to evaluate the soil quality along the sanitary sewer lines on Turner Place north of the EPT site. The investigation activities were conducted in accordance with the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 25, 2002, and Environmental Strategies' standard operating procedures (SOPs), which are included as Appendix A. Additionally, all manufacturer specifications were adhered to for operation and maintenance of field sampling and monitoring equipment.

3.1 Soil Borings

Based on engineering drawings provided by the Town of Ithaca, two parallel sewer lines extend from the EPT site to the north on Turner Place a distance of approximately 700 feet where they join at a manhole near the intersection of Columbia Street. Both lines are currently active. As a first step, the location of the two sanitary sewer lines were identified and marked by the Ithaca Water and Sewer Department.

Once located and marked, Environmental Strategies installed a total of 22 soil borings along the west limits of the two sanitary sewer lines located on Turner Place. The soil borings were spaced approximately 100 feet apart, with slight adjustments made based on utility locations. Because of utility conflicts, two soil boring (DP-19 and DP-16) could not be installed. Each soil boring location was marked with paint using unique sample identification. Figure 1 shows the soil boring locations.

The soil borings were installed by Atlantic Testing Laboratories of Utica, New York, using a truck-mounted Geoprobe® unit. Soil samples were collected continuously from the ground surface to bedrock refusal or the depth corresponding to the invert piping elevations, which were obtained from the Ithaca Water and Sewer Department. On retrieval, the soil was logged and classified according to the Unified Soil Classification System (Appendix A). Following lithologic characterization of the soil, samples were screened in the field for organic compounds using a photoionization detector (PID). Soil samples for analytical analysis were collected at each location from the soil material overlying bedrock. Because the sewer lines were installed within a trench mostly surrounded by shallow bedrock, it was difficult to collect

samples directly within the backfill bedding material without damaging the actual sewer line. At most locations, soil samples were collected at approximately 4 feet off the marked lines. At these locations bedrock was generally encountered between 3 and 6 feet below ground surface (bgs). At three locations where elevated PID readings were encountered, samples were collected from additional intervals.

The soil samples were shipped to Severn Trent Laboratories, Inc (STL), which is certified by the New York State Department of Health Environmental Laboratory Approval Program, and analyzed for volatile organic compounds (VOCs) by U.S. Environmental Protection Agency Method 8260.

Following sampling activities, the boreholes were backfilled with coarse bentonite chips, and the bentonite material was hydrated with tap water. All down-hole sampling equipment was decontaminated after each use.

3.2 Quality Assurance/Quality Control

Quality assurance/quality control samples, including equipment blanks, trip blanks, and duplicates, were collected in accordance with SOPs. All samples were sealed, labeled, placed in a cooler with ice, and shipped to STL. Appropriate chain-of-custody procedures were followed.

3.3 Sample Location Survey

The soil sample locations and select manholes located on Turner Place and South Hill Terrace were surveyed by a surveyor licensed in the state of New York. Each sample location was marked by Environmental Strategies with white paint or an orange marking flag so that the sample locations could be accurately identified by the surveyor. Horizontal measurements are accurate to the nearest 0.1 foot and vertical measurements to the nearest 0.01 foot. The survey information was used to prepare a sample location diagram for inclusion in the final report.

4.0 Investigation Results

The soil investigation results identified trace levels of five site-related VOCs, including tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethane, *cis*-1,2-dichloroethene, and methylene chloride in soil samples collected along the Turner Place sanitary sewer lines. None of the detected compounds were detected at concentrations above the NYSDEC's recommended soil cleanup objectives (NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) 4046 Recommended Soil Cleanup Objectives, January 1994). The soil sampling results are depicted in Figure 1 and listed in Table 1. The laboratory data is presented in Appendix B.

PCE was detected in 18 of the 25 collected samples at concentrations ranging from an estimated value of 1 microgram per kilogram (µg/kg) in soil boring DP-7 to 35 µg/kg in soil boring DP-8. All detected concentrations are significantly below the TAGM PCE soil cleanup objective of 1,400 µg/kg. The highest PCE concentration (35 µg/kg) was detected at a depth of 2 to 4 feet bgs in soil boring DP-8 located approximately 40 feet southwest of the Turner Place and South Hill Terrace intersection.

TCE was detected in 18 of the 25 samples with concentrations ranging from an estimated value of 0.44 µg/kg in soil boring DP-1 to 49 µg/kg in soil boring DP-21. All of the detected TCE concentrations were significantly below the TAGM soil cleanup objective of 700 µg/kg. Soil boring DP-21, which contained the highest levels of TCE, was installed west of a manhole located just north of the Turner Place and Columbia Street intersection.

The results of the sampling indicate that minor releases along the Turner Place sewer lines have occurred in the past. However, none of the detected compounds exceed the NYSDEC's recommended soil cleanup objectives.

5.0 Conclusions

The sampling results revealed only trace levels of certain site-related compounds in soil samples collected along the Turner Place sewer lines. PCE and TCE were most frequently detected, and all concentrations were significantly below the NYSDEC soil cleanup objectives. Based on the results of the sampling, no additional investigation is warranted relative to soils along the sewer lines on Turner Place.

6.0 References

New York State Department of Environmental Conservation. 1994. Record of Decision for the Morse Industrial Site Inactive Hazardous Waste Site, Ithaca, Tompkins County, New York. December.

Table 1

Sewer Line Investigation
Soil Sampling Results
June 6 through 8, 2006 (a, b)

Sample ID:	DP-1	DP-9-900 (DP-1 dup.)	DP-2	DP-3	DP-4	DP-5	DP-98-010 (DP-5 dup.)
Sample Depth (feet):	2-4	2-4	6-8	2-4	2-4	1-3	1-3
Sample Date:	6/6/06	6/6/06	6/6/06	6/6/06	6/6/06	6/8/06	6/8/06
VOCs by EPA Method 8260 (ug/kg)							
1,1,1-Trichloroethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,2-Dichloroethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
cis-1,2-Dichloroethene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Methylene chloride	3.8 JB	2.3 JB	3.2 JB	1.7 JB	2.2 JB	5.9 U	5.7 U
Tetrachloroethelene	9.8	7.5	7.6	2.6 J	1.3 J	1.1 J	1.6 J
trans-1,2-Dichloroethene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Trichloroethene	0.44 J	5.3 U	4.8 J	0.54 J	0.9 J	22	44
Vinyl chloride	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,1,2,2-Tetrachloroethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,1,2-Trichloroethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,1-Dichloroethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,1-Dichloroethene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,2,4-Trichlorobenzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,1,2-Trichloroethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,2-Dibromoethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,2-Dibromo-3-chloropropane	11 U	11 U	12 U	12 U	12 U	12 U	11 U
1,2-Dichlorobenzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,2-Dichloropropane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,3-Dichlorobenzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
1,4-Dichlorobenzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
2-Butanone	21 U	21 U	24 U	23 U	23 U	24 U	23 U
2-Hexanone	21 U	21 U	24 U	23 U	23 U	24 U	23 U
4-Methyl-2-pentanone	21 U	21 U	24 U	23 U	23 U	24 U	23 U
Acetone	5.2 JB	21 U	4.4 JB	23 U	3.6 JB	3.2 JB	5.7 JB
Benzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Bromodichloromethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Bromoform	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Bromomethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Carbon disulfide	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Carbon tetrachloride	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Chlorobenzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Chloroethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Chloroform	1.4 J	1.9 J	1.5 J	5.8 U	5.8 U	5.9 U	5.7 U
Chloromethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
cis-1,3-Dichloropropene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Cyclohexane	11 U	11 U	12 U	12 U	12 U	12 U	11 U
Dibromochloromethane	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Ethylbenzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Freon 11	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Freon 113	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Freon 12	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Isopropylbenzene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Methyl Acetate	11 U	11 U	12 U	12 U	11 U	12 U	11 U
Methylcyclohexane	11 U	11 U	12 U	12 U	11 U	12 U	11 U
Methyl tert-butyl ether	21 U	21 U	24 U	23 U	23 U	24 U	23 U
Styrene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Toluene	0.82 J	5.3 U	0.39 J	5.8 U	5.8 U	5.9 U	5.7 U
trans-1.3-Dichloropropene	5.3 U	5.3 U	6.1 U	5.8 U	5.8 U	5.9 U	5.7 U
Xylenes (total)	11 U	11 U	12 U	12 U	11 U	12 U	11 U

a/ - The eight compounds listed at the top of the table have been identified by NYSDEC
b/ - B=Constituent detected in blank sample; U=Not detected above laboratory quantitat

DP-06		DP-7	DP-8	DP-9	DP-10
2-4	4-6	2-4	2-4	4-6	4-6
6/8/06	6/8/06	6/8/06	6/8/06	6/7/06	6/7/06
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	0.62 J	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	7.5
19	2.4 J	1.0 J	35	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
14	2.0 J	0.50 J	1.4 J	2.1 J	1.9 J
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
11 U	12 U	10 U	12 U	12 U	11 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
23 U	23 U	21 U	24 U	24 U	23 U
23 U	23 U	21 U	24 U	24 U	23 U
23 U	23 U	21 U	24 U	24 U	23 U
5.4 JB	5.4 JB	21 U	24 U	11 JB	4.2 JB
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	0.82 J
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
11 U	12 U	10 U	12 U	12 U	11 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
11 U	12 U	10 U	12 U	12 U	11 U
11 U	12 U	10 U	12 U	12 U	11 U
23 U	23 U	21 U	24 U	24 U	23 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
0.52 J	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
5.7 U	5.9 U	5.2 U	6.0 U	6.0 U	5.6 U
11 U	12 U	10 U	12 U	12 U	11 U

as potential constituents of concern for the EPT Site.
ion limit: J=Estimated value

Table 1

Sewer Line Investigation
Soil Sampling Results
June 6 through 8, 2006 (a, b)

Sample ID:	DP-11	DP-12		DP-13	DP-14	DP-15	DP-17	DP-18	DP-20
Sample Depth (feet):	2-4	2-4	4-6	2-4	2-3	4-6	2-4	2-4	2-4
Sample Date:	6/7/06	6/7/06	6/7/06	6/6/06	6/6/06	6/6/06	6/8/06	6/8/06	6/7/06
VOCs by EPA Method 8260 (ug/kg)									
1,1,1-Trichloroethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,2-Dichloroethane	5.6 U	2.2 J	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
cis-1,2-Dichloroethene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	1.6 J
Methylene chloride	5.6 U	6.5	3.3 J	3.7 JB	2.2 JB	1.8 JB	5.6 U	6.0 U	4.6 J
Tetrachloroethelene	5.6 U	6.1 U	6.1 U	8.4	1.2 J	2.3 J	19	5.0 J	4.7 J
trans-1,2-Dichloroethene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Trichloroethene	5.6 U	6.1 U	6.1 U	5.2 U	0.9 J	5.6 U	14	8.8	4.2 J
Vinyl chloride	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,1,2,2-Tetrachloroethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,1,2-Trichloroethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,1-Dichloroethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,1-Dichloroethene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,2,4-Trichlorobenzene	5.6 U	6.1 U	6.1 U	0.74 JB	5.5 U	0.88 JB	5.6 U	6.0 U	5.3 U
1,1,2-Trichloroethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,2-Dibromoethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,2-Dibromo-3-chloropropane	11 U	12 U	12 U	10 U	11 U	11 U	11 U	12 U	11 U
1,2-Dichlorobenzene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	0.42 JB	5.6 U	6.0 U	5.3 U
1,2-Dichloropropane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
1,3-Dichlorobenzene	5.6 U	6.1 U	6.1 U	0.33 JB	5.5 U	0.51 JB	5.6 U	6.0 U	5.3 U
1,4-Dichlorobenzene	5.6 U	6.1 U	6.1 U	0.5 JB	5.5 U	0.66 JB	5.6 U	6.0 U	5.3 U
2-Butanone	22 U	24 U	24 U	21 U	22 U	23 U	22 U	24 U	21 U
2-Hexanone	22 U	24 U	24 U	21 U	22 U	23 U	22 U	24 U	21 U
4-Methyl-2-pentanone	22 U	1.1 J	24 U	21 U	22 U	23 U	22 U	24 U	21 U
Acetone	4.5 JB	5 JB	5.1 JB	3.5 JB	3.1 JB	23 U	22 U	24 U	4.7 JB
Benzene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	0.26 J	6.0 U	5.3 U
Bromodichloromethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Bromoform	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Bromomethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Carbon disulfide	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Carbon tetrachloride	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Chlorobenzene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Chloroethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Chloroform	5.6 U	6.1 U	6.1 U	1.3 J	5.5 U	0.54 J	1.9 J	0.84 J	5.3 U
Chloromethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
cis-1,3-Dichloropropene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Cyclohexane	11 U	12 U	12 U	10 U	11 U	11 U	11 U	12 U	11 U
Dibromochloromethane	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Ethylbenzene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Freon 11	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Freon 113	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Freon 12	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Isopropylbenzene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Methyl Acetate	11 U	12 U	12 U	10 U	11 U	11 U	11 U	12 U	11 U
Methylcyclohexane	11 U	12 U	12 U	10 U	11 U	11 U	11 U	12 U	11 U
Methyl tert-butyl ether	22 U	24 U	24 U	21 U	22 U	23 U	22 U	24 U	21 U
Styrene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Toluene	5.6 U	6.1 U	6.1 U	1.6 J	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
trans-1,3-Dichloropropene	5.6 U	6.1 U	6.1 U	5.2 U	5.5 U	5.6 U	5.6 U	6.0 U	5.3 U
Xylenes (total)	11 U	12 U	12 U	10 U	11 U	11 U	11 U	12 U	11 U

a/ - The eight compounds listed at the top of the table have been identified by NYSDEC as potential co
b/ - B=Constituent detected in blank sample; U=Not detected above laboratory quantitation limit, J=Es

DP-21	DP-22	DP-23		DP-25	
4-6	2-4	2-4	4-6	0.5-2	2-4
6/7/06	6/7/06	6/7/06	6/7/06	6/8/06	6/8/06
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
13	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
1.9 J	3.9 J	3.4 J	5.6 U	5.3 U	1.6 J
4.5 J	5.5 U	6.0 U	5.6 U	6.0	15
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
49	5.5 U	6.0 U	5.6 U	34	26
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
12 U	11 U	12 U	11 U	11 U	11 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
24 U	22 U	24 U	22 U	21 U	22 U
24 U	22 U	24 U	22 U	21 U	22 U
24 U	22 U	24 U	22 U	21 U	22 U
4.9 JB	11 JB	7 JB	22 U	6.6 JB	22 U
6.0 U	5.5 U	6.0 U	5.6 U	2.5 J	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
0.51 J	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
12 U	11 U	12 U	11 U	11 U	11 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
0.55 JB	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
12 U	11 U	12 U	11 U	11 U	11 U
12 U	11 U	12 U	11 U	11 U	11 U
24 U	22 U	24 U	22 U	21 U	22 U
6.0 U	5.5 U	6.0 U	5.6 U	0.31 J	5.6 U
6.0 U	5.5 U	6.0 U	5.6 U	3.5 J	0.68 J
6.0 U	5.5 U	6.0 U	5.6 U	5.3 U	5.6 U
12 U	11 U	12 U	11 U	1.6 J	11 U

nstituents of concern for the EPT Site.
imated value