

**RCRA FACILITY INVESTIGATION REPORT
CARRIER CORPORATION, THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK**

EnSafe Project No. 3133-031

Prepared for:

**UTC Shared Remediation Services
Hartford, Connecticut**

Prepared by:



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**September 19, 2001
Revised: December 21, 2001
Revised: September 30, 2002**

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Acronyms Frequently Used in this Report

µg/L	micrograms per liter
AOC	area of concern
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DCE	dichloroethene
DMR	Discharge Monitoring Report
DPT	direct push technology
gpd	gallons per day
I.D.	inner diameter
MCL	maximum contaminant level
MW	monitoring well
ND	not detected
NYSDEC	New York State Department of Environmental Conservation
OSHA	Occupational Safety and Health Administration
PCB	polychlorinated biphenyls
PEL	permissible exposure limit
PID	photoionization detector
ppb	parts per billion
ppm	parts per million
PSA	potential source area
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SAP	Sampling and Analysis Plan
SPDES	state pollutant discharge elimination system
SWMU	solid waste management unit
TCE	trichloroethene
TLV	threshold limit value
TWA	time-weighted average
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes the activities performed and findings of a RCRA Facility Investigation (RFI) at the Carrier Corporation facility at Thompson Road, Syracuse, New York. The RFI Work Plan previously submitted was requested by the New York State Department of Environmental Conservation (NYSDEC) in conjunction with EPA, Region 2, to investigate certain findings of a 1997 RCRA Facility Assessment (RFA) prepared by A.T. Kearney, Inc. on behalf of United States Environmental Protection Agency (USEPA) Region 2.

This investigation addresses the solid waste management units and the area of concerns (SWMUs and AOCs) identified in the RFA that are the subject of NYSDEC comments (December 1, 2000). Many of these comments were addressed in the *Release Assessment Report*, (EnSafe, January 17, 2001), which documented findings of investigations conducted by Carrier since the RFA was prepared. The previously submitted RFI Work Plan (EnSafe, 2001) and Carrier's response to NYSDEC comments (May 17, 2001) addresses comments not adequately addressed by the *Release Assessment Report*. All RFI activities were performed in accordance with the NYSDEC-approved work plan. In addition, NYSDEC provided oversight during a portion of the RFI field activities.

1.1 History of Site Investigations

In 1986, Dames & Moore was contracted by Carrier Corporation to study soil and groundwater conditions (*Phase I and Phase II Groundwater Evaluation Reports*) surrounding an underground storage tank area at Carrier's Syracuse, New York, facility. Because closure of one of the tanks (a 20,000-gallon cement tank) was being considered by Carrier, it was thought that data collected from such a study would support the tank closure application. This investigation is briefly summarized below.

Phase I Groundwater Evaluation Report, 1986 – This study included the installation of five monitoring wells, one upgradient (MW-1) and four downgradient (MW-2, MW-3S, MW-3D, and MW-4) in the underground storage tank area. (SWMUs 1 to 4 are located in this area, which is referred to in other reports as potential source area [PSA]-1). Results indicated that

volatile organic compounds (VOCs) are in groundwater near the tank and were probably attributed to the tank.

Phase II Groundwater Evaluation Report, 1987 – To further define the extent of groundwater contamination, a second phase was performed. In this investigation, two downgradient shallow wells (MW-5 and MW-6) were installed. Results indicated that these wells did not appear to have been affected by SWMUs 1 to 4.

In the initial discharge monitoring report (DMR) submitted to NYSDEC as part of Carrier's State Pollutant Discharge Elimination System (SPDES) 1989 permit, Carrier reported trichloroethene (TCE) in Outfalls 002 and 007 and phenol in Outfall 005 at concentrations exceeding the permit limits.

- SPDES Permitted Outfall Evaluation Report, 1989 – In this evaluation, Blasland & Bouck Engineers analyzed the discharges from the permitted outfalls.
- Storm Sewer System Report, 1990 – Because TCE and phenol concentrations in several outfalls exceeded permit limits, Blasland & Bouck Engineers evaluated the existing storm sewer system.

In 1990, the NYSDEC and Carrier entered into a Consent Order as a result of the TCE detections in storm water discharges from the facility. A hydrogeologic evaluation was conducted by Blasland & Bouck Engineers to satisfy some requirements of this Order and a stormwater capture system was designed and installed under NYSDEC review.

- Hydrogeologic Evaluation, 1991 – Two soil borings (B-1 and B-2) and three monitoring wells (MW-7 to MW-9) were installed during this evaluation to supplement the five monitoring wells installed for the Phase I and II groundwater evaluations. Results confirmed the presence of VOCs in soils and shallow groundwater, the report concluded that contamination detected at the PSAs is confined by the geology and influenced by the storm sewer system.

In 1997, a RFA was initiated by the USEPA Region 2 (and prepared by A.T. Kearney). The following summarizes reports generated since the RFA was initiated.

- RCRA Facility Assessment Report, 1997 – The report summarizes a visual site inspection in which 17 SWMUs and 2 AOCs were identified. The RFA determined that most of these units identified at the facility are located indoors over concrete. The RFA further states that there is minimal potential for release from these units and that they require no further action. Those units where it was concluded there is more than a minimal potential for release are SWMUs 1 to 6, which include two former 20,000-gallon concrete storage tanks (SWMUs 1 and 2), two former 8,000-gallon steel storage tanks (SWMUs 3 and 4) located in the immediate area of SWMUs 1 and 2, and two former 8,000-gallon concrete storage tanks (SWMUs 5 and 6).
- Release Assessment Report, 2001 – Investigations were performed by EnSafe to further evaluate groundwater contamination. These investigations started in 1999 with a shallow groundwater investigation, combined with a storm sewer capture evaluation. Based on the results of the shallow groundwater investigation, a supplemental shallow groundwater investigation was also performed in 1999 to gain a better understanding of the shallow groundwater system. When the shallow groundwater investigations were completed, a third phase of groundwater investigation in 2000 focused on deep groundwater, both in the area of PSA-1 and at the northern Carrier property boundary. The findings of these investigations are summarized in the *Release Assessment Report*.
- Carrier Thompson Road Facility RFI Report, September 2001 – This report summarizes an investigation by EnSafe to assist Carrier in determining the overall extent of impact to areas of concern, as outlined in the NYSDEC comments on the *Release Assessment Report* of (January 17, 2001) and the *RFI Work Plan* of (January 16, 2001). The primary objectives of this investigation were to determine: (1) the extent of PCB impact to sediments in Sanders Creek and manholes at the facility, (2) the extent of TCE impact to soils at SWMUs 5 and 6 and at PSA-2, and (3) if TCE was migrating offsite and to Sanders Creek near the current storm sewer outfalls. These areas were investigated as part of the RFI process under the direction of NYSDEC. Results are summarized in this report.

- Carrier Thompson Road Facility RFI Report, Revised December 2001 – The purpose of this investigation and report was to follow up on outstanding issues left in the September 2001 RFI Report. Areas of investigation included: (1) SWMUs 5 and 6; (2) continued site-wide groundwater monitoring, and 3) a descriptive history of the Carrier-DeWitt Landfill.
- Carrier Thompson Road Facility RFI Report, Revised September 2002 – This report summarizes the most recent investigation by EnSafe to: (1) further evaluate the extent of contamination at SWMUs 5 and 6, (2) establish site-specific background soils concentrations for metals, (3) address potential air contamination issues in Buildings TR-18 and TR-18S, and (4) address potential surface water contamination at the Carrier-DeWitt Landfill.

2.0 BACKGROUND

2.1 Facility Description

The Carrier Thompson Road Facility is located in the northeast portion of Syracuse, New York, approximately one mile south of the New York State Thruway (Figure 2.1 – Site Location Map). The facility is bordered by Sanders Creek to the north, Thompson Road to the west, Kinne Street to the east, and a residential area to the south. The property slopes slightly north toward Sanders Creek. The facility property covers approximately 175 acres and most is either paved or covered by manufacturing and office buildings.

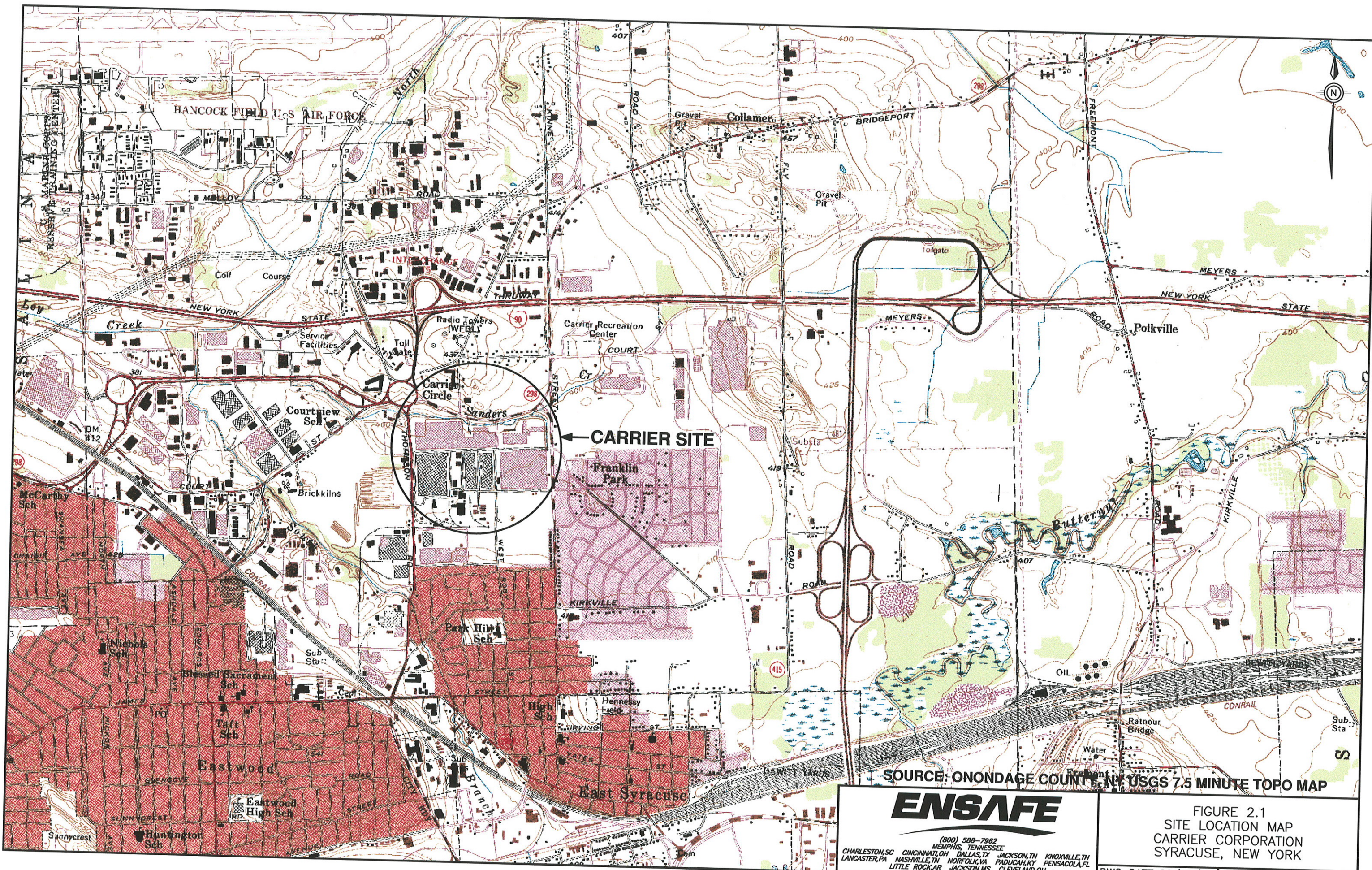
2.2 Facility History

The facility was purchased in the 1950s by Carrier. The Carrier Syracuse facility produces or has produced a variety of products associated with the HVAC (heating, ventilation, air conditioning units) industry for home and commercial applications over the years. Operations include or have included the manufacture and assembly of various components associated with these HVAC units. Carlyle compressors are also manufactured at the facility.

The RCRA Facility Assessment Report for the Carrier facility prepared by A.T. Kearney, Inc. (January 6, 1997) describes pre-1950 use of the property as follows: “Prior to the purchase of the facility by Carrier, the existing facility was owned and operated by the General Electric Corporation, which was built in 1942 for defense purposes; Defense Corporation, a government-owned World War II manufacturing facility; and Syracuse University. Prior to World War II, the property was utilized as farmland.” Additionally, a Phase II Groundwater Evaluation Report prepared by Dames & Moore (January 16, 1987) states that “...two concrete tanks were installed around 1945 by General Electric (G.E.), former owner of the site.”

2.3 Local Geology

The local bedrock near of the Carrier facility consists primarily of Silurian-age carbonates and shales. The Vernon Shale Member of the Salina Group underlies the area. The Vernon Shale is a red shale 600 to 800 feet thick. The top of the bedrock onsite is approximately 40 to 60 feet below ground surface (bgs).



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FIGURE 2.1
 SITE LOCATION MAP
 CARRIER CORPORATION
 SYRACUSE, NEW YORK

DWG DATE: 09/23/02 DWG NAME: 3133057R001

Overlying the Vernon Shale are sandy silts, clayey silts, fine-grained sands, and clays. Descriptions of soils from installation of groundwater monitoring wells and piezometers at the facility indicate a relatively uniform lithologic section across the site (see *Release Assessment Report*, Appendix A for well logs and for cross-sections).

Silts and clayey silts are the predominant soils throughout the site. These silts are generally stiff to very stiff, dense, and brittle. The silts are brown to brownish gray and commonly contain iron staining and yellow-red mottling throughout. Fine-grained sands and dense clays were frequently intermixed with the silts observed during drilling. These deposits are interpreted to represent lacustrine deposits.

The upper 1 to 4 feet of most borings consisted of fill material including roots, rock fragments up to 1 inch in diameter, and loose, unconsolidated sands and gravels. In borings installed through asphalt, a gravel and sand base 1 to 2 feet thick was found below the asphalt. In some piezometer borings, fill material was encountered over the total depth of the boring. These borings were near buildings or in areas that had been filled during construction at the facility.

Beneath the fill, saturated silts and sands with minor amounts of clay become prevalent. In the northern area of the facility a peaty, organic-rich layer occurs. Till is encountered below the silts and sands over the entire facility. The till is encountered at depths ranging from approximately 29 to approximately 40 bgs.

2.4 Local Hydrogeology

Groundwater occurs at approximately 6 feet bgs in the southern portion of the facility to approximately 9 feet bgs near the northern property boundary. Groundwater is present in the “native” silty clays and silty sands, beneath the fill material and throughout the lacustrine and glacial till material encountered with depth. The saturated interval continues to the top of bedrock, which ranges from approximately 40 to 60 feet bgs across the facility.

Water level measurements from the piezometer and groundwater monitoring well network, and the elevations of the storm sewer lines located throughout the facility indicate that the main lines of the storm sewer are located below the water table. Based on previous water level elevation data collected, the potentiometric surface map of the facility indicates that the storm sewer system is exerting an influence over the local groundwater flow system. This influence is demonstrated by the flow lines (arrows which are perpendicular to the groundwater elevation lines) indicating groundwater flowing toward the main storm sewer lines, as opposed to north toward Sanders Creek.

The most reliable portion of the maps is that area between the main lines identified as Lines 001, 002, and 007. The data indicates that the influence of the storm sewer lines reach essentially from sewer line to sewer line in this area. While there is a good deal of interpretation in the areas not covered by the piezometer transects, the data along the transects is very definitive.

The influence of the main sewer lines appears to be stronger in the southern part of the facility than in the northern area around Buildings TR-2 and TR-3. The influence of the storm sewer system in the northern area is also appears to be controlled by the sewer system, although not as definitive as in the southern portion of the facility.

3.0 INVESTIGATION APPROACH AND RESULTS

This section outlines the various investigative activities conducted at the SWMUs and AOCs identified for further evaluation in the *Draft RCRA Facility Assessment Report (1997)*. In some cases, SWMUs and AOCs were previously investigated by Carrier as part of separate investigations not conducted as part of the most recent RFI activities. The results of these historic investigations are summarized in the previously submitted *Release Assessment Report* (EnSafe, 2001) and *RCRA Facility Investigation Report* (September 19, 2001, Revised December 21, 2001). For those SWMUs being investigated for the first time as part of the RFI, all activities performed are described and data are presented in this section. Figure 3.1 illustrates the areas investigated during the RFI.

RFI activities performed at the Carrier facility were in accordance with the NYSDEC-approved work plan. Samples were collected in accordance with the approved Sampling and Analysis Plan (SAP) and the Quality Assurance Project Plan (QAPP) previously submitted to NYSDEC as part of the work plan. All samples were sent to Accutest Laboratories, Dayton, New Jersey (New York Certification Number 10983) for analysis.

Well identification numbers were not consecutive in previous investigations and reports; therefore, they were renumbered, as shown in Table 3.1. July 2001 sample ID numbers and the wells from which they were collected are listed in Table 3.2. June 2002 sample ID numbers are listed in Table 3.2B.

Table 3.1 Well Identifications	
Former Well Identification	New Well Identification
MW-99-01	MW-10
MW-99-02	MW-11
MW-99-03	MW-12
MW-99-04	MW-13D
MW-005S	MW-14
MW-00-5D	MW-14D
MW-00-06	MW-15D
MW-00-BG	MW-16D

Table 3.2
Sample/Groundwater Monitoring Well Correlations
July 2001

Sample Identification	Well Identification
ENS-SYR-TMP-MW01-CARGMW0104	MW-01
ENS-SYR-TMP-MW3S-CARGMW3S04	MW-03S
ENS-SYR-TMP-MW3D-CARGMW3D04	MW-03D
ENS-SYR-TMP-MW05-CARGMW0504	MW-05
ENS-SYR-TMP-MW06-CARGMW0006	MW-06
ENS-SYR-TMP-MW06-CARHWMW0006	MW-06 duplicate
ENS-SYR-TMP-MW07-CARGMW0704	MW-07
ENS-SYR-TMP-MW08-CARGMW0804	MW-08
ENS-SYR-TMP-MW08-CARHWMW0804	MW-08 duplicate
ENS-SYR-TMP-MW09-CARGMW0904	MW-09
ENS-SYR-TMP-9901-CARG990104	MW-10
ENS-SYR-TMP-9902-CARG990204	MW-11
ENS-SYR-TMP-9903-CARG990304	MW-12
ENS-SYR-TMP-BAG-CARG990403	MW-13D (diffusion bag sample)
ENS-SYR-TMP-9904-CARG990401	MW-13D (discrete sample)
ENS-SYR-TMP-9904-CARH990408	MW-13D (discrete sample duplicate)
ENS-SYR-TMP-005S-CARGMW5S04	MW-14
ENS-SYR-TMP-005D-CARGMW5D04	MW-14D
ENS-SYR-TMP-0006-CARG000604	MW-15D
ENS-SYR-TMP-00BG-CARGMW5604	MW-16D
ENS-SYR-TMP-0107-CARG010704	MW-17
ENS-SYR-TMP-0108-CARG010804	MW-18

Table 3.2B
Sample/Groundwater Monitoring Well Correlations
June 2002

Sample Identification	Well Identification
ENS-SYR-TMP-MW01-CARGMW0105	MW-01
ENS-SYR-TMP-MW3S-CARGMW3S05	MW-03S
ENS-SYR-TMP-MW3S-CARHWMW3S05	MW-03S duplicate
ENS-SYR-TMP-MW3D-CARGMW3D05	MW-03D
ENS-SYR-TMP-MW05-CARGMW0505	MW-05
ENS-SYR-TMP-MW06-CARGMW0605	MW-06
ENS-SYR-TMP-MW07-CARGMW0705	MW-07
ENS-SYR-TMP-MW08-CARGMW0805	MW-08
ENS-SYR-TMP-MW09-CARGMW0905	MW-09
ENS-SYR-TMP-MW10-CARGMW1005	MW-10
ENS-SYR-TMP-MW11-CARGMW1105	MW-11
ENS-SYR-TMP-MW12-CARGMW1205	MW-12
ENS-SYR-TMP-MW13D01-CARG13D001	MW-13D (diffusion bag sample-first interval[10 total intervals therefore 01 through 10])
ENS-SYR-TMP-MW13D-DUP-CARH13D006	MW-13D (diffusion bag sample-duplicate)
ENS-SYR-TMP-MW14-CARGMW1405	MW-14
ENS-SYR-TMP-MW14D-CARGMW14D05	MW-14D
ENS-SYR-TMP-MW14D-CARHWMW14D05	MW-14D duplicate
ENS-SYR-TMP-MW15D-CARGMW15D05	MW-15D
ENS-SYR-TMP-MW16D-CARGMW16D05	MW-16D
ENS-SYR-TMP-MW17-CARGMW1705	MW-17
ENS-SYR-TMP-MW18-CARGMW1805	MW-18
ENS-SYR-TMP-MW19-CARGMW1901	MW-19



NOTES:
 ELEVATIONS REFERRED TO CITY OF SYRACUSE DATUM.
 ADD 362.00 FEET TO OBTAIN USGS DATUM OF 1929.

BENCHMARKS: (NOT SHOWN)
 BM 164 (ELEV.=42.68)
 IRON BOLT AT NORTHEAST CORNER OF CONCRETE SLAB, APPROX.
 80 FEET NORTH AND APPROX. 30 FEET EAST OF THE SOUTHEAST
 CORNER OF BUILDING TR-4.

BM 500 (ELEV.=44.87)
 CHISELED CROSS ON EAST NUT OF POSITION INDICATION VALVE,
 APPROX. 75 FEET NORTHWEST OF THE SOUTHWEST CORNER OF
 BUILDING TR-7 AND APPROX. 90 FEET NORTHEAST OF THE
 SOUTHEAST CORNER OF BUILDING TR-1.

HYDROPUNCH LOCATIONS (HP-01) ARE APPORXIMATE.

MONITORING WELL IDENTIFICATION KEY	
FORMER WELL IDENTIFICATION	NEW WELL IDENTIFICATION
MW-99-01	MW-10
MW-99-02	MW-11
MW-99-03	MW-12
MW-99-04	MW-13D
MW-00-5S	MW-14
MW-00-5D	MW-14D
MW-00-06	MW-15D
MW-00-BG	MW-16D

- LEGEND**
- TR-2 — BUILDING
 - ▨ — FORMER USTs
 - — MONUMENT
 - ⊕ — MONITORING WELL
 - ⊕ — FORMER HYDROPUNCH LOCATION
 - ⊕ — SOIL AND/OR GROUNDWATER DPT SAMPLING LOCATION
 - — RFI AREA OF INVESTIGATION



SOURCE:
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FIGURE 3.1
 RFI AREAS OF INVESTIGATION
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DWG DATE: 09/27/02 | DWG NAME: 3133057R002

3.1 SWMUs 1 to 4

NYSDEC Comment 1: The extent, nature and rate of migration of contamination beneath the former 20,000- gallon concrete storage tanks and the former 8,000-gallon steel storage tanks (SWMUs 1-4) must be documented, and the efficacy of any past remedial activities assessed.

To evaluate the impact of any releases from SWMUs 1 to 4, previous investigations were performed and monitoring wells have been installed. The *Release Assessment Report* (EnSafe, 2001) summarizes the data collected from these wells in the immediate area of the former tanks and data collected from an area soil-gas survey and soil sampling. The historical data indicates that releases from these former tanks are largely limited to the tank area. A monitoring well at the facility boundary does not show contamination has migrated to that point.

In a continued effort to monitor the groundwater conditions at PSA-1 and throughout the site, and to ensure that significant fluctuations in the contaminant concentrations are not occurring, the work plan proposed collecting groundwater samples from all existing groundwater monitoring wells, and analyzing for VOCs.

Depth-to-groundwater was measured using an electronic water level indicator to the nearest 0.01 foot from the top of the well casing in all existing groundwater monitoring wells and temporary piezometers installed as part of the 1999 storm sewer investigation. In addition, monitoring wells at the facility were sampled for VOCs. Prior to sampling, an attempt was made to purge the wells using Micro Purge techniques, as outlined in Attachment 1 of the *Response to Comments on the Carrier Thompson Road Facility RFI Work Plan, 2001*. The recharge rate of many wells did not permit a stable drawdown to be sustained. In these cases, an attempt to purge three well volumes was made. Some wells were purged dry during this process and allowed to recharge before sampling. Sampling was carried out at each well using a dedicated, disposable polypropylene bailer and nylon rope.

Table 3.3 and Figure 3.2 show the analytical results from the July 2001 RFI sampling, as well as recent historic sampling at the facility. A copy of the laboratory analytical data sheets is included in Appendix B. The RFI results are consistent with previous sampling results, especially near SWMUs 1 to 4. Water data are summarized in Table 3.4. The piezometers not measured had been damaged due to snow removal and other activities at the Carrier facility. The potentiometric surface developed from July 2001 depth-to-water measurements is included as Figure 3.3. The April 2000 shallow groundwater potentiometric surface (Figure 3.4) is included as a basis for comparison. Flow directions and water quality data were consistent with previous observations for the historical wells. In addition, a deep groundwater potentiometric map, presented as Figure 3.3B, was generated based on depth-to-groundwater measurements from wells screened at the top of bedrock at the facility.

A cross-section was constructed — using water level measurements taken in shallow wells and piezometers in the area of SWMUs 1 to 4 — to depict the groundwater flow across the former tank area, storm water sewer line 002, and shallow groundwater monitoring wells downgradient of the former tank locations. Figure 3.3C shows that shallow groundwater in the former tank area intercepts the tanks or is just below their former locations. The concrete tanks were known to be approximately one foot higher than the surrounding ground surface and have a depth of 8 feet deep. Contamination from these tanks would be intercepted by the shallow groundwater and then by the storm sewer system (Line 002 as shown on Figure 3.3C) and ultimately treated through the treatment facility operated by Carrier. The cluster of wells (MW-3S, MW-3D, and MW-13D) installed downgradient from the SWMUs 1 to 4 area monitor the entire saturated thickness of the shallow groundwater. Contamination from the SWMUs would be detected by these three wells as shown in Figure 3.3C. Historical groundwater quality data for the three wells is also presented on Figure 3.3C.

Table 3.3
Groundwater Laboratory Analytical Results

Well Number	Sample Identification	Sample Date	Acetone µg/L	Benzene µg/L	Carbon disulfide µg/L	MEK µg/L	Chloro- form µg/L	Chloro- ethane µg/L	1,1-DCA µg/L	1,2- DCA µg/L	1,1-DCE µg/L	Total 1,2-DCE µg/L	trans- 1,2-DCE µg/L	cis- 1,2-DCE µg/L	MC µg/L	1,1,1- TCA µg/L	1,1,2- TCA µg/L	TCE µg/L	Vinyl Chloride µg/L	Ethyl benzene µg/L	Toluene µg/L	Total Xylenes µg/L	Sulfate mg/L	TOC mg/L
NYSDEC Standard			50 G	1	50	7	50 G	5	7	0.6	5		5	5	5	5	1	5	2	5	5	5		
MW-19	CARGMW1901	6-28-02	ND	ND	ND	ND	0.32 J	ND	ND	ND	ND	NA	ND	1.2 J	ND	ND	ND	0.71 J	ND	ND	ND	ND	NA	NA
MW-10	CARG990101	4-25-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
(MW-99-01)	CARGW99103	4-19-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARG990104	7-11-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW1005	6-24-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-11	CARG990201	4-25-99	6.5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
(MW-99-02)	CARGW99203	5-02-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARG990204	7-11-01	45.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW1105	6-25-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-12	CARG990301	4-25-99	6.1	ND	ND	ND	ND	ND	ND	ND	ND	NA	14.1	5.2	ND	ND	ND	2.9	ND	ND	ND	ND	NA	NA
(MW-99-03)	CARGW99303	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.5	NA	NA	ND	ND	ND	1.4	ND	ND	ND	ND	NA	NA
	CARG9903-04	7-11-01	26.5	ND	ND	ND	ND	ND	ND	ND	ND	5.8 J	1.9 J	3.9 J	ND	ND	ND	1.1	ND	ND	ND	ND	NA	NA
	CARGMW1205	6-25-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-13D	CARG-990401	10-11-99	ND	ND	ND	ND	ND	ND	128	ND	17.7 J	NA	ND	2,440	ND	ND	ND	21.8	568	ND	ND	ND	NA	NA
(MW-99-04)	CARGW99401	5-02-00	ND	3.0 J	ND	ND	ND	ND	160	ND	26	3,900	NA	NA	ND	ND	1.1 J	36	610	ND	ND	ND	NA	NA
(Diffusion Samples)	CARG990401	7-13-01	ND	ND	ND	ND	ND	ND	34.4 J	ND	9.7 J	1,210	ND	1,210	ND	ND	ND	ND	199	ND	ND	ND	NA	NA
	CARG13D001	8-13-02	66.8	1.4 J	ND	ND	ND	ND	32.6	ND	1.7 J	NA	ND	530	ND	ND	ND	2.4 J	26.9	ND	ND	ND	NA	NA
	CARG-99402	10-11-99	ND	ND	ND	ND	ND	ND	247 J	ND	57.9 J	NA	ND	6,940	ND	ND	ND	ND	1,850	ND	ND	ND	NA	NA
	CARGW99402	5-02-00	ND	1.1 J	ND	ND	ND	ND	180	ND	45	6,000	NA	NA	ND	ND	2.5 J	12	970	ND	ND	ND	NA	NA
	CARG990402	07-13-01	ND	ND	ND	ND	ND	ND	32.0 J	ND	ND	NA	ND	1,160	ND	ND	ND	ND	190	ND	ND	ND	NA	NA
	CARG13D002	08-13-02	ND	ND	ND	ND	ND	ND	163 J	ND	41.1 J	NA	ND	5,570	ND	ND	ND	ND	680	ND	ND	ND	NA	NA
	CARG-99403	10-11-99	ND	ND	ND	ND	ND	ND	230 J	ND	55.9 J	NA	ND	6,520	ND	ND	ND	ND	1,720	ND	ND	ND	NA	NA
	CARGW99403	5-02-00	ND	ND	ND	ND	ND	ND	160	ND	34	5,200	NA	NA	ND	ND	2.6 J	7.3	830	ND	ND	ND	NA	NA
Diffusion sample	CARG990403	07-13-01	ND	ND	ND	ND	ND	ND	137	ND	ND	NA	22.1 J	4,080	ND	ND	ND	ND	500	ND	ND	ND	NA	NA
Low-flow	CARG990403	07-13-01	ND	ND	ND	ND	ND	ND	45.1 J	ND	10.3 J	NA	ND	1,600	6.8 J	ND	ND	ND	230	ND	ND	ND	NA	NA
Diff. sample	CARG13D003	08-13-02	ND	ND	ND	ND	ND	ND	174 J	ND	41.8 J	NA	ND	6,170	ND	ND	ND	ND	730	ND	ND	ND	NA	NA
	CARG-990404	10-11-99	ND	ND	ND	ND	ND	ND	225 J	ND	51.8	NA	ND	6,130	ND	ND	ND	ND	1,580	ND	ND	ND	NA	NA
	CARGW99404	5-02-00	4.6 J	ND	ND	ND	ND	ND	160	1.1 J	40	5,500	NA	NA	ND	ND	2.3 J	8.2	696	ND	ND	ND	NA	NA
	CARG990404	07-13-01	ND	ND	ND	ND	ND	ND	69.9 J	ND	ND	NA	ND	2,390	15.0 J	ND	ND	ND	338	ND	ND	ND	NA	NA
	CARG13D004	08-13-02	ND	ND	ND	ND	ND	ND	135 J	ND	36.7 J	NA	ND	5,140	ND	ND	ND	ND	573	ND	ND	ND	NA	NA
	CARG-99405	10-11-99	ND	ND	ND	ND	ND	ND	225 J	ND	56.0 J	NA	ND	6,310	ND	ND	ND	ND	1,670	ND	ND	ND	NA	NA

Table 3.3
Groundwater Laboratory Analytical Results

Well Number	Sample Identification	Sample Date	Acetone µg/L	Benzene µg/L	Carbon disulfide µg/L	MEK µg/L	Chloro- form µg/L	Chloro- ethane µg/L	1,1-DCA µg/L	1,2-DCA µg/L	1,1-DCE µg/L	Total 1,2-DCE µg/L	trans- 1,2-DCE µg/L	cis- 1,2-DCE µg/L	MC µg/L	1,1,1- TCA µg/L	1,1,2- TCA µg/L	TCE µg/L	Vinyl Chloride µg/L	Ethyl benzene µg/L	Toluene µg/L	Total Xylenes µg/L	Sulfate mg/L	TOC mg/L
NYSDEC Standard			50 G	1	50	7	50 G	5	7	0.6	5		5	5	5	5	1	5	2	5	5	5		
Diffusion sample low flow Diff. sample	CARGW99405	5-02-00	ND	ND	ND	ND	ND	ND	170	1.1 J	44	5,600	NA	NA	ND	ND	2.3 J	8.7	880	ND	ND	ND	NA	NA
	CARG990405	07-13-01	ND	ND	ND	ND	ND	ND	52.0	ND	11.2 J	NA	ND	1,730	8.5 J	ND	ND	ND	259	ND	ND	ND	NA	NA
	CARG13D005	08-13-02	ND	ND	ND	ND	ND	ND	147 J	ND	34.4 J	NA	ND	5,360	ND	ND	ND	ND	607	ND	ND	ND	NA	NA
	CARG-99406	10-11-99	NS	NS	ND	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGW99406	5-02-00	ND	ND	ND	ND	ND	ND	120	ND	29	4,800	NA	NA	ND	ND	2.0 J	5.7	760	ND	ND	ND	NA	NA
	CARG990406	07-13-01	ND	ND	ND	ND	ND	ND	182 J	ND	ND	NA	ND	6,720	ND	ND	ND	ND	1,090	ND	ND	ND	NA	NA
	CARG990406	07-13-01	ND	ND	ND	ND	ND	ND	52.7	ND	11.2 J	NA	ND	1,810	ND	ND	ND	ND	256	ND	ND	ND	NA	NA
	CARG13D006	08-13-02	ND	ND	ND	ND	ND	ND	149 J	ND	36.2 J	NA	ND	5,350	ND	ND	ND	ND	692	ND	ND	ND	NA	NA
	CARG13D006	08-13-02	ND	ND	ND	ND	ND	ND	149	ND	30.0 J	NA	ND	5,390	ND	ND	ND	ND	630	ND	ND	ND	NA	NA
	CARG-99407	10-11-99	NS	NS	ND	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGW99407	5-02-00	ND	ND	ND	ND	ND	ND	89	ND	20	2,900	NA	NA	ND	ND	1.5 J	3.9 J	390	ND	ND	ND	NA	NA
	CARG990407	07-13-01	ND	ND	ND	ND	ND	ND	61.1 J	ND	ND	NA	ND	2,070	14.8 J	ND	ND	ND	332	ND	ND	ND	NA	NA
	CARG13D007	08-13-02	ND	ND	ND	ND	ND	ND	76.4 J	ND	17.8 J	NA	ND	2,780	ND	ND	ND	ND	337	ND	ND	ND	NA	NA
	CARG-990408	10-11-99	ND	ND	ND	ND	ND	ND	138 J	ND	30.2 J	NA	ND	4,290	ND	ND	ND	ND	1,060	ND	ND	ND	NA	NA
	CARGW99408	5-02-00	ND	ND	ND	ND	ND	ND	61	ND	14	1,900	NA	NA	ND	ND	ND	2.6 J	280	ND	ND	ND	NA	NA
	CARG990408	07-13-01	ND	ND	ND	ND	ND	ND	53.7	ND	11.6 J	NA	ND	1,870	8.5 J	ND	ND	ND	282	ND	ND	ND	NA	NA
	CARG990408	07-13-01	ND	ND	ND	ND	ND	ND	54.4	ND	12.0 J	NA	ND	1,850	ND	ND	ND	ND	281	ND	ND	ND	NA	NA
	CARG13D008	08-13-02	ND	ND	ND	ND	ND	ND	69.8 J	ND	16.0 J	NA	ND	2,660	ND	ND	ND	ND	310	ND	ND	ND	NA	NA
	CARG-990409	10-11-99	ND	ND	ND	ND	ND	ND	110 J	ND	24.7 J	NA	ND	3,230	ND	ND	ND	ND	822	ND	ND	ND	NA	1.6
	CARGW99409	05-02-00	ND	ND	ND	ND	ND	ND	41	ND	9.6	1,500	NA	NA	4.8 J	ND	ND	2.0 J	190	ND	ND	1.3 J	NA	NA
	CARG990409	07-13-01	ND	ND	ND	ND	ND	ND	60.4 J	ND	ND	NA	ND	1,950	ND	ND	ND	ND	268	ND	ND	ND	NA	NA
	CARG13D009	08-13-02	ND	ND	ND	ND	ND	ND	61.4 J	ND	14.3 J	NA	ND	2,340	ND	ND	ND	ND	273	ND	ND	ND	NA	NA
	CARG-990410	10-11-99	ND	ND	ND	ND	ND	ND	82.8 J	ND	18.8 J	NA	ND	2,360	ND	ND	ND	ND	601	ND	ND	ND	ND	NA
	CARGW994010	5-02-00	ND	ND	ND	ND	ND	ND	13	ND	3.1 J	390	NA	NA	ND	ND	ND	ND	66	ND	ND	ND	NA	NA
	CARG990410	07-13-01	ND	ND	ND	ND	ND	ND	43.4 J	ND	ND	NA	ND	1,480	7.1 J	ND	ND	ND	219	ND	ND	ND	NA	NA
	CARG13D010	08-13-02	ND	ND	ND	ND	ND	ND	50.1	ND	10.7	NA	ND	1,720	ND	ND	ND	ND	231	ND	ND	ND	NA	NA
MW-17 (MW-01-07)	CARG010704*	07-13-01	6.0	ND	ND	ND	ND	ND	ND	ND	ND	NA	2.5 J	249	ND	ND	ND	42.6	11.0	ND	ND	ND	NA	NA

Table 3.3
Groundwater Laboratory Analytical Results

Well Number	Sample Identification	Sample Date	Acetone µg/L	Benzene µg/L	Carbon disulfide µg/L	MEK µg/L	Chloro- form µg/L	Chloro- ethane µg/L	1,1-DCA µg/L	1,2- DCA µg/L	1,1-DCE µg/L	Total 1,2-DCE µg/L	trans- 1,2-DCE µg/L	cis- 1,2-DCE µg/L	MC µg/L	1,1,1- TCA µg/L	1,1,2- TCA µg/L	TCE µg/L	Vinyl Chloride µg/L	Ethyl benzene µg/L	Toluene µg/L	Total Xylenes µg/L	Sulfate mg/L	TOC mg/L
NYSDEC Standard			50 G	1	50	7	50 G	5	7	0.6	5		5	5	5	5	1	5	2	5	5	5		
MW-18 (MW-01-08)	CARGMW1705	06-26-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARG010804*	07-13-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	29.2 J	7,020	ND	ND	ND	8,760	505	ND	ND	ND	NA	NA
MW-18 cont.	CARGMW1805	06-26-02	ND	ND	ND	ND	ND	ND	10.6 J	ND	15.4 J	NA	35.7 J	2,770	ND	ND	ND	5,580	233	ND	ND	ND	NA	NA
MW-14 (MW-00-5S)	CARGMW005S	4-27-00	28	ND	ND	6.5 J	ND	ND	2.2J	ND	ND	1.9 J	NA	NA	ND	ND	ND	ND	6.0	ND	ND	ND	32	15
MW-14D (MW-00-5D)	CARGMW5S04	7-11-01	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	ND	ND	NA	NA
	CARGMW5S05	06-24-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW005D	4-28-00	8.1 J	ND	ND	ND	3.0 J	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW5D04	7-11-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-15D (MW-00-06)	CARGMW1405	6-25-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARH000604	7-11-01	7.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW15D05	6-25-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW006	4-28-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-16D (MW-00-BG)	CARG000604	7-11-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARH000604	7-11-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW15D05	6-25-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW00BG	4-27-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	1,500	ND
MW-01	CARGMW5604	07-10-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW16D05	06-24-02	76.8	ND	ND	7.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	MW-01	12-31-85	NA	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	MW-1	11-16-90	NA	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-03S	MW-1 (DUP)	11-16-90	NA	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0103	4-18-00	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0104	07-12-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0105	06-24-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-03S	MW-3S	12-31-85	NA	NA	ND	NA	ND	ND	78	ND	15	NA	982	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	MW-3S	11-16-90	NA	NA	ND	NA	NA	ND	490	7.6	100.0	NA	6.4	NA	120	17	9.5	11.0	1,600	ND	14	ND	NA	NA
	MW-3S (DUP)	11-16-90	NA	NA	ND	NA	NA	ND	1,100	12.0	250.0	NA	12.0	NA	3.3	ND	10	15.0	1,200	ND	20	ND	NA	NA
	CARGMW3S03	4-20-00	ND	ND	ND	ND	ND	ND	240	1.8 J	60	8,100	NA	NA	ND	ND	3.7 J	4.6 J	1,100	ND	ND	ND	46	2.8

Table 3.3
Groundwater Laboratory Analytical Results

Well Number	Sample Identification	Sample Date	Acetone µg/L	Benzene µg/L	Carbon disulfide µg/L	MEK µg/L	Chloro- form µg/L	Chloro- ethane µg/L	1,1-DCA µg/L	1,2- DCA µg/L	1,1-DCE µg/L	Total 1,2-DCE µg/L	trans- 1,2-DCE µg/L	cis- 1,2-DCE µg/L	MC µg/L	1,1,1- TCA µg/L	1,1,2- TCA µg/L	TCE µg/L	Vinyl Chloride µg/L	Ethyl benzene µg/L	Toluene µg/L	Total Xylenes µg/L	Sulfate mg/L	TOC mg/L
NYSDEC Standard			50 G	1	50	7	50 G	5	7	0.6	5		5	5	5	5	1	5	2	5	5	5		
MW-03D	CARGMW3S04	07-12-01	ND	ND	ND	ND	ND	ND	164	ND	38.3 J	ND	13.9 J	5,780	ND	ND	ND	ND	567	ND	ND	ND	NA	NA
	CARGMW3S05	06-25-02	ND	ND	ND	ND	ND	ND	163	ND	34.0	ND	ND	5,410 E	ND	ND	ND	2.6 J	746	ND	ND	ND	NA	NA
	CARHWMW3S05	06-25-02	ND	ND	ND	ND	ND	ND	159	ND	34.0	ND	ND	5,320 E	ND	ND	ND	2.2 J	739	ND	ND	ND	NA	NA
	MW-3D	12-31-85	NA	NA	ND	NA	ND	ND	ND	ND	ND	NA	39	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
MW-03D	CARGW03D03	5-2-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	NA	NA	ND	ND	ND	ND	1.1 J	ND	ND	ND	1,000	ND
Cont.	CARGMW3D04	07-12-01	ND	ND	ND	ND	ND	ND	0.72 J	ND	ND	NA	1.2 J	23.2	ND	ND	ND	ND	ND	ND	ND	ND	NA	<1.0
	CARGMW3D05	06-25-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	6.2	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-05	MW-5	11-16-90	NA	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0503	5-02-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0504	07-12-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0505	06-24-02	117	ND	1.4 J	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-06	MW-6	11-16-90	NA	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0603	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	110	1
	CARGMW0604	07-12-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0605	06-24-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-07	MW-7	11-16-90	NA	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0703	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0704	07-11-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0705	06-24-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-08	MW-8	11-16-90	NA	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0803	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0804	07-12-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARHWMW0804	07-12-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGMW0805	06-25-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-09	MW-9	11-16-90	NA	NA	ND	NA	NA	ND	2.4	1.6	ND	NA	ND	NA	3.0	8.8	ND	2.8	ND	ND	ND	ND	NA	NA
	CARGMW0903	4-18-00	ND	ND	ND	ND	ND	ND	1.9 J	ND	ND	2.9 J	NA	NA	ND	3.7 J	ND	4.4 J	ND	ND	ND	ND	NA	NA
	CARGMW0904	7-10-01	ND	ND	ND	ND	ND	ND	2.4 J	ND	ND	4.51 J	0.61 J	3.9 J	ND	6.6	ND	6.2	ND	ND	ND	ND	NA	NA
	CARGMW0905	6-25-02	ND	ND	ND	ND	ND	ND	1.9 J	ND	ND	ND	ND	3.3 J	ND	5.9	ND	6.6	ND	ND	ND	ND	NA	NA

Table 3.3
Groundwater Laboratory Analytical Results

Well Number	Sample Identification	Sample Date	Acetone µg/L	Benzene µg/L	Carbon disulfide µg/L	MEK µg/L	Chloro- form µg/L	Chloro- ethane µg/L	1,1-DCA µg/L	1,2-DCA µg/L	1,1-DCE µg/L	Total 1,2-DCE µg/L	trans- 1,2-DCE µg/L	cis- 1,2-DCE µg/L	MC µg/L	1,1,1- TCA µg/L	1,1,2- TCA µg/L	TCE µg/L	Vinyl Chloride µg/L	Ethyl benzene µg/L	Toluene µg/L	Total Xylenes µg/L	Sulfate mg/L	TOC mg/L
NYSDEC Standard			50 G	1	50	7	50 G	5	7	0.6	5		5	5	5	5	1	5	2	5	5	5		
Hydropunch #1	UTC GHP0124 20-24'	4-17-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0134 30-34'	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0144 40-44'	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #2	UTC GHP0214 10-14'	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #2 cont.	UTC GHP0224 20-24'	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0226 24-26'	4-18-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #3	UTC GHP0330 26-30'	4-19-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0340 36-40'	4-19-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0350 46-50'	4-19-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #4	UTC GHP0424 20-24'	4-20-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0434 32-34'	4-20-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0435 34-35'	4-20-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #5	UTC GHP0516 12-16'	4-21-00	12	ND	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	NA	ND	ND	ND	ND	14	ND	ND	ND	NA	NA
	UTC GHP0536 32-36'	4-21-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	UTC GHP0545 42-45.7'	4-21-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #6	CARGHP0610 10-14'	6-24-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31,900	ND	ND	ND	13,500	ND	ND	ND	ND	NA	NA
	CARGHP0620 20-24'	6-24-02	54.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	271 E	ND	ND	ND	39.2	ND	ND	ND	ND	NA	NA
	CARGHP0630 30-24'	6-24-02	5.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA



Table 3.3
Groundwater Laboratory Analytical Results

Well Number	Sample Identification	Sample Date	Acetone μg/L	Benzene μg/L	Carbon disulfide μg/L	MEK μg/L	Chloro- form μg/L	Chloro- ethane μg/L	1,1-DCA μg/L	1,2-DCA μg/L	1,1-DCE μg/L	Total 1,2-DCE μg/L	trans- 1,2-DCE μg/L	cis- 1,2-DCE μg/L	MC μg/L	1,1,1- TCA μg/L	1,1,2- TCA μg/L	TCE μg/L	Vinyl Chloride μg/L	Ethyl benzene μg/L	Toluene μg/L	Total Xylenes μg/L	Sulfate mg/L	TOC mg/L
NYSDEC Standard			50 G	1	50	7	50 G	5	7	0.6	5		5	5	5	5	1	5	2	5	5	5		
Hydropunch #7	CARGHP0710 10-14'	6-25-02	9.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGHP0720 20-24'	6-26-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.91 J	ND	ND	ND	ND	ND	ND	ND	NA	NA
	CARGHP0730 30-34'	6-26-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #8	CARGHP0814 14-17'	6-27-02	ND	ND	ND	ND	ND	ND	0.73 J	ND	ND	ND	ND	3.1 J	ND	ND	ND	0.70 J	ND	ND	ND	ND	NA	NA
	CARGHP0821 21-24'	6-27-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Hydropunch #9	CARGHP0910 10-14'	6-28-02	ND	ND	ND	ND	0.65 J	ND	21.2	ND	10.9	NA	1.9 J	629 E	ND	15.8	0.43 J	184	7.8	ND	ND	ND	NA	NA
	CARGHP0920 20-24'	6-28-02	ND	ND	ND	ND	ND	ND	3.4 J	ND	0.55 J	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	NA	NA
Hydropunch #10	CARGHP1002 2-4'	7-01-02	12.0	ND	ND	2.4 J	ND	12.5	23.0	ND	ND	NA	1.6 J	9.4	ND	1.2 J	ND	2.4	2.7	2.9	3.6	9.6	NA	NA
	CARGHP1010 10-14'	7-01-02	ND	ND	ND	ND	ND	ND	122	ND	48.0	ND	ND	2,490 E	ND	ND	ND	14.7	114	ND	ND	2.8	NA	NA
	CARGHP1020 20-24'	7-01-02	7.0 J	ND	ND	ND	ND	ND	0.60 J	ND	0.66 J	ND	ND	5.3	ND	ND	ND	15.8	ND	ND	ND	ND	NA	NA
	CARHHP1020 20-24'	7-01-00	8.3 J	ND	ND	ND	ND	ND	0.46 J	ND	ND	ND	NA	4.5 J	ND	ND	ND	13.7	ND	ND	ND	ND	NA	NA

Notes:
Well Identifications changed for the following monitoring wells:
MW-99-01 = MW-10 MW-00-5D = MW-14D
MW-99-02 = MW-11 MW-00-06 = MW-15D
MW-99-03 = MW-12 MW-00-BG = MW-16D
MW-99-04 = MW-13D MW-01-07 = MW-17
MW-00-5S = MW-14 MW-01-08 = MW-18
ND = Not detected above method detection limits
NA = Not Analyzed
mg/L = milligrams per liter
μg/L = micrograms per liter
Detections highlighted in **BOLD**
J value indicates concentration is estimated and is below method detection limits.
E indicates concentration exceeds calibration range of the instrument.



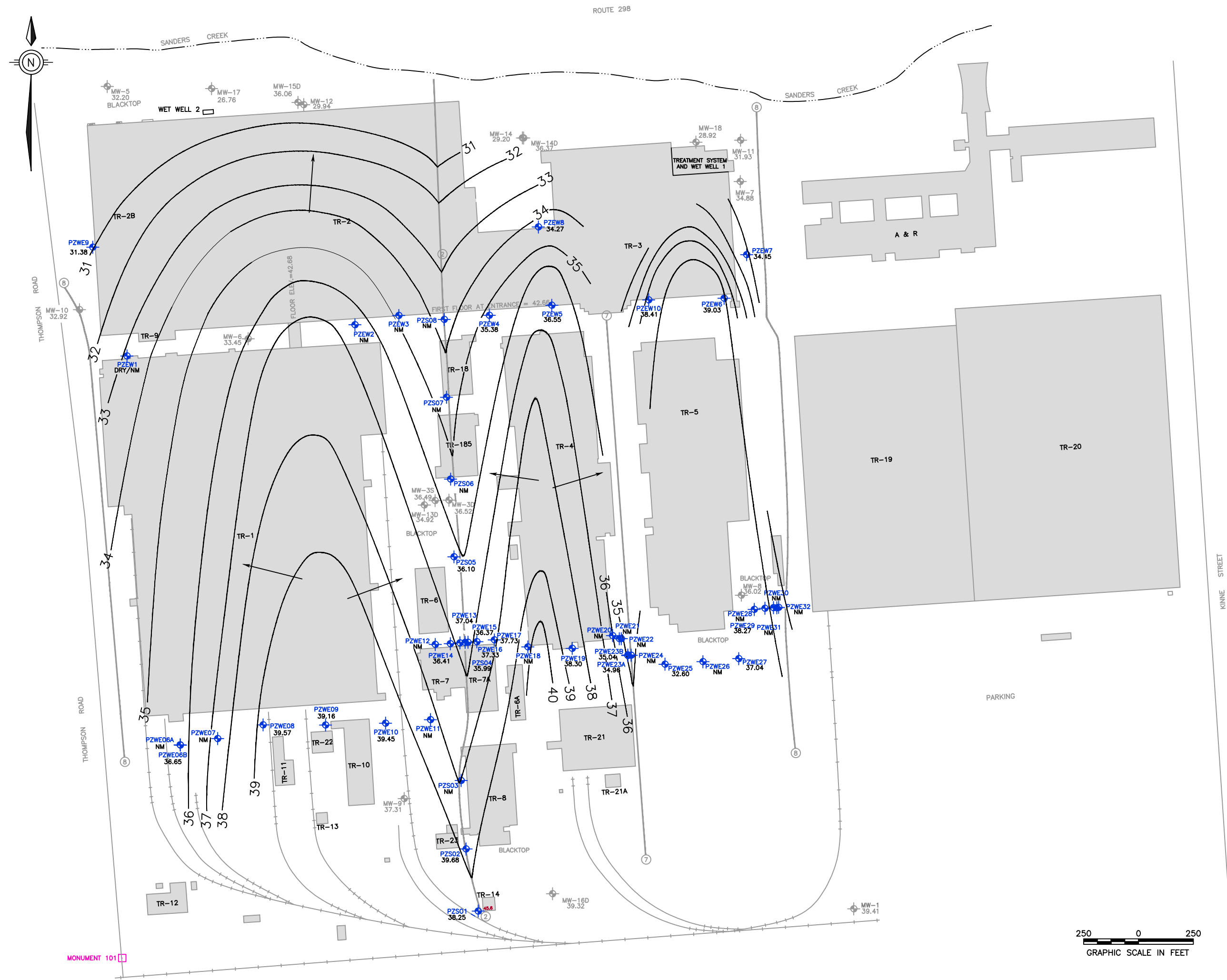
Table 3.4
Summary of Piezometer and Groundwater Data

Well Number	Well Depth	Surface Elevation	Top of Casing Elevation	Well Screen Length	Riser Length	Well Screen Depth Interval	June 2002		July 2001		April 2000		October 1999		April 1999	
							Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation
MW-10 (MW-99-01)	14	40.41	39.66	10	4	4 to 14	6.74	32.92	7.11	32.55	6.84	32.82	7.37	32.29	6.60	33.06
MW-11 (MW-99-02)	16	41.52	40.82	10	6	6 to 16	8.89	31.93	9.20	31.62	8.60	32.22	8.19	32.63	7.07	33.75
MW-12 (MW-99-03)	16	39.62	38.82	10	6	6 to 16	8.88	29.94	9.68	29.14	6.38	32.44	9.71	29.11	9.19	30.43
MW-01* ¹	17.70	47.00	49.44	10	6.2	4 to 14	10.03	39.41	9.90	39.54	9.45	39.99	NM	NM	9.32	40.12
MW-3S*	14.35	41.53	43.13	10	5.2	3 to 13	6.64	36.49	6.69	36.44	6.40	36.73	6.79	36.34	6.26	36.87
MW-3D*	29.87	41.55	44.23	5	24.2	22 to 27	7.71	36.52	8.78	35.45	7.11	37.12	9.63	34.60	7.82	36.41
MW-05* ¹	17.15	33.40	35.70	10	7.2	5 to 15	3.50	32.20	3.83	31.87	3.48	32.22	5.27	30.43	3.15	32.55
MW-06* ¹	17.05	42.60	44.80	10	7.2	5 to 15	11.35	33.45	11.56	33.24	11.30	33.50	11.75	33.05	11.40	33.40
MW-07* ¹	14.70	41.60	41.40	10	5	5 to 15	6.52	34.88	6.28	35.12	5.68	35.72	3.98	37.42	5.12	36.28
MW-08* ¹	14.78	42.90	42.59	10	5	5 to 15	6.57	36.02	5.64	36.95	5.35	37.24	5.87	36.72	5.55	37.04
MW-09* ¹	17.45	43.20	44.79	10	7.2	5 to 15	9.86	37.31	7.53	37.26	6.87	37.92	7.15	37.64	NM	NM
WE-06A	10	43.55	43.05	1	9	9 to 10	NM	NM	NM	NM	DRY	NM	5.07	37.98	4.60	38.45
WE-06B	5.5	43.55	42.50	1	4.5	4.5 to 5.5	6.85	35.65	6.80	35.70	6.73	35.77	6.45	35.74	6.90	35.50
WE-07	8	41.90	41.07	1	7	7 to 8	NM	NM	NM	NM	6.95	34.12	6.76	34.31	7.02	34.05
WE-08	8	43.10	42.88	1	7	7 to 8	3.31	39.57	3.23	39.65	3.20	39.68	3.25	39.63	3.36	39.52
WE-09	8	41.99	41.89	1	7	7 to 8	2.73	39.16	2.80	39.09	2.72	39.26	3.15	38.74	2.87	39.02
WE-10	8	42.54	42.88	1	7	7 to 8	3.43	39.45	3.49	39.39	3.43	39.45	3.75	39.13	3.59	39.29
WE-11	8	42.71	43.33	1	7	7 to 8	NM	NM	NM	NM	5.47	37.86	5.84	37.49	5.78	37.55
WE-12	8	42.67	42.96	1	7	7 to 8	NM	NM	NM	NM	4.32	38.64	5.27	37.69	4.11	38.85
WE-13	8	42.59	42.95	1	7	7 to 8	5.91	37.04	6.19	36.76	4.77	38.18	5.93	37.02	4.08	38.87
WE-14	8	42.53	43.13	1	7	7 to 8	6.72	36.41	6.79	36.34	6.24	36.89	6.67	36.46	6.16	36.97
WE-15	8	42.43	42.91	1	7	7 to 8	6.54	36.37	6.78	36.13	5.73	37.18	6.53	36.38	5.00	37.91
WE-16	8	42.49	43.06	1	7	7 to 8	5.73	37.33	6.39	36.67	4.82	38.24	5.96	37.10	4.75	38.31
WE-17	8	43.08	43.46	1	7	7 to 8	5.73	37.73	6.04	37.02	4.97	38.49	5.86	37.60	4.81	38.65
WE-18	8	42.72	43.17	5	3	3 to 8	NM	NM	3.08	40.09	NM	NM	4.28	38.89	3.85	39.32
WE-19	8	42.56	43.17	1	7	7 to 8	4.87	38.30	4.59	38.58	4.77	38.40	5.25	37.92	4.89	38.28
WE-20	8	42.50	42.38	1	7	7 to 8	NM	NM	NM	NM	NM	NM	NM	NM	6.26	36.12
WE-21	8	42.41	42.95	1	7	7 to 8	NM	NM	NM	NM	NM	NM	7.27	35.68	7.43	35.52



Table 3.4
Summary of Piezometer and Groundwater Data

Well Number	Well Depth	Surface Elevation	Top of Casing Elevation	Well Screen Length	Riser Length	Well Screen Depth Interval	June 2002		July 2001		April 2000		October 1999		April 1999	
							Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation	Depth to Water From TOC	Groundwater Elevation
WE-22	10	42.55	43.11	5	5	5 to 10	NM	NM	NM	NM	8.59	34.52	8.66	34.45	8.62	34.49
WE-23A	8	42.19	42.10	1	7	7 to 8	7.14	34.96	NM	NM	7.19	34.99	7.29	34.81	7.17	34.93
WE-23B	16	42.19	42.21	1	15	15 to 16	7.17	35.04	NM	NM	6.97	35.24	7.03	35.18	7.96	34.25
WE-24	9	42.38	42.87	2	7	7 to 9	NM	NM	NM	NM	NM	NM	7.84	35.03	7.94	34.93
WE-25	7.3	42.20	42.72	1	6.3	6.3 to 7.3	10.12	32.60	7.16	35.56	7.02	35.70	7.04	35.68	6.73	35.99
WE-26	8	42.00	41.99	1	7	7 to 8	NM	NM	NM	NM	5.98	36.01	6.04	35.95	5.36	36.63
WE-27	8	42.20	42.98	2	4	4 to 6	5.94	37.04	6.19	36.79	6.20	36.78	6.15	36.83	6.05	36.93
WE-28	8	42.50	42.75	1	7	7 to 8	NM	NM	NM	NM	NM	NM	6.17	36.58	5.70	37.05
WE-29	8	42.10	43.17	2	6	6 to 8	4.90	38.27	4.89	38.28	5.03	38.14	4.59	38.58	3.44	39.73
WE-30	8	41.85	40.94	2	6	6 to 8	NM	NM	NM	NM	5.05	35.89	5.15	35.79	1.26	40.94
WE-31	8	42.02	42.27	2	6	6 to 8	NM	NM	NM	NM	5.26	37.01	5.28	36.99	4.85	40.94
WE-32	8	42.16	41.43	5	5	3 to 8	NM	NM	NM	NM	5.12	36.31	5.34	36.09	4.20	37.73
SO-01	9	45.24	45.37	1	8	8 to 9	7.12	38.25	7.01	38.36	NM	NM	7.17	38.20	6.80	38.57
SO-02	8	43.42	44.73	1	7	7 to 8	5.05	39.68	5.40	39.33	5.40	39.33	6.30	38.43	6.27	38.46
SO-03	8	43.75	43.93	1	7	7 to 8	NM	NM	NM	NM	6.70	37.23	6.98	36.95	7.13	36.80
SO-04A	8	42.40	43.10	1	7	7 to 8	7.11	35.99	7.13	35.97	6.71	36.39	6.73	36.37	3.26	39.84
SO-04B	16	42.40	43.08	5	11	11 to 16	NM	NM	6.14	36.94	5.78	37.30	6.25	36.83	5.98	37.10
SO-05	8	42.52	42.64	1	7	7 to 8	6.54	36.10	6.99	35.65	NM	NM	6.24	36.40	NM	NM
SO-06	7	NA	42.08	1	6	6 to 7	NM	NM	NM	NM	NM	NM	6.45	35.63	4.14	37.94
SO-07	12	43.12	42.87	5	7	7 to 12	NM	NM	NM	NM	NM	NM	8.25	34.62	7.89	34.98
SO-08	8	40.09	39.44	1	7	7 to 8	NM	NM	NM	NM	NM	NM	NM	NM	5.71	33.73
EW-01	8	43.30	43.87	5	3	5 to 10	DRY	NM	DRY	NM	NM	NM	DRY	NM	NI	NI
EW-02	10	40.30	48.78	5	5	5 to 10	NM	NM	NM	NM	5.07	43.71	11.69	37.09	NI	NI
EW-03	8.3	38.58	38.30	5	3.3	3.3 to 8.3	NM	NM	NM	NM	NM	NM	3.53	34.77	NI	NI
EW-04	10.75	42.30	43.41	5	5.35	5.35 to 10.75	8.03	35.38	7.93	35.48	NM	NM	7.68	35.73	NI	NI
EW-05	10.7	42.60	42.60	5	5.7	5.7 to 10.7	6.05	36.55	4.75	37.85	5.27	37.33	5.70	36.90	NI	NI
EW-06	10	42.50	43.14	5	5	5 to 10	4.05	39.09	NM	NM	NM	NM	4.16	38.98	NI	NI
EW-07	10.75	41.80	41.45	5	5.75	5.75 to 10.75	7.00	34.45	8.42	33.03	5.69	35.76	7.93	33.52	NI	NI
EW-08	8	38.40	38.13	5	3	3 to 8	3.86	34.27	3.89	34.21	3.89	34.24	3.99	34.14	NI	NI
EW-09	9.8	38.27	38.02	5	4.8	4.8 to 9.8	6.65	31.37	6.88	31.14	6.58	31.44	6.97	31.05	NI	NI



NOTES:
ELEVATIONS REFERRED TO CITY OF SYRACUSE DATUM.
ADD 362.00 FEET TO OBTAIN USGS DATUM OF 1929.
LOCATION OF UNDERGROUND UTILITIES AND OTHER
UNDERGROUND STRUCTURES OBTAINED BY FIELD
MEASUREMENTS WHERE POSSIBLE, OTHERWISE
OBTAINED FROM OTHER SOURCES AND MAY BE
APPROXIMATE ONLY.
OTHER UNDERGROUND UTILITIES AND STRUCTURES
MAY EXIST, THE LOCATIONS OF WHICH ARE
CURRENTLY UNKNOWN.
WATER LEVELS MEASURED JULY 9 THRU 12, 2001

BENCHMARKS: (NOT SHOWN)
BM 164 (ELEV.=42.68)
IRON BOLT AT NORTHEAST CORNER OF CONCRETE SLAB,
APPROX. 80 FEET NORTH AND APPROX. 30 FEET EAST
OF THE SOUTHEAST CORNER OF BUILDING TR-4.
BM 500 (ELEV.=44.87)
CHISELED CROSS ON EAST NUT OF POSITION INDICATION
VALVE, APPROX. 75 FEET NORTHWEST OF THE
SOUTHWEST CORNER OF BUILDING TR-7 AND APPROX.
90 FEET NORTHEAST OF THE SOUTHEAST CORNER OF
BUILDING TR-1.
GROUNDWATER ELEVATION CONTOURS PRODUCED FROM
PIEZOMETER DEPTH TO GROUNDWATER MEASUREMENTS.
WELLS SCREENED WERE NOT USED IN CONSTRUCTING
POTENTIOMETRIC SURFACE.

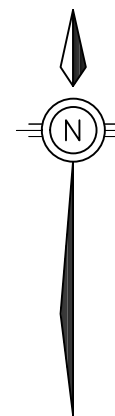
MONITORING WELL IDENTIFICATION KEY	
FORMER WELL IDENTIFICATION	NEW WELL IDENTIFICATION
MW-99-01	MW-10
MW-99-02	MW-11
MW-99-03	MW-12
MW-99-04	MW-13D
MW-00-5S	MW-14
MW-00-5D	MW-14D
MW-00-06	MW-15D
MW-00-BG	MW-16D

- LEGEND
- TR-21 - BUILDING
 - 42.20 - GROUNDWATER ELEVATION, FT
 - MONUMENT
 - PZ - MONITORING WELL
 - PZ - PIEZOMETER
 - GROUNDWATER FLOW DIRECTION
 - 40 - GROUNDWATER ELEVATION CONTOUR
 - STORM DRAIN MAIN LINE
 - 7 - ENSAFE STORM DRAIN REFERENCE NUMBER
 - NM - NOT MEASURED (PIEZOMETER (DESTROYED))
 - FORMER RAILROAD SPUR LOCATION

SOURCE:
PHILLIPS & ASSOCIATES
SURVEYORS, P.C.
LIVERPOOL, NEW YORK
(FILE 2700.001)

ENSAFÉ
(800) 588-7862
MEMPHIS, TENNESSEE
CHARLESTON, SC CINCINNATI, OH DALLAS, TX JACKSON, TN KNOXVILLE, TN
LANCASTER, PA NASHVILLE, TN NORFOLK, VA PADUCAH, KY PENSACOLA, FL
LITTLE ROCK, AR JACKSON, MS CLEVELAND, OH

FIGURE 3.3
SHALLOW POTENTIOMETRIC SURFACE
JUNE, 2002
CARRIER CORPORATION
SYRACUSE, NEW YORK
DWG DATE: 07/14/04 DWG NAME: 3133057R004



NOTES:
ELEVATIONS REFERRED TO CITY OF SYRACUSE DATUM.
ADD 362.00 FEET TO OBTAIN USGS DATUM OF 1929.
LOCATION OF UNDERGROUND UTILITIES AND OTHER
UNDERGROUND STRUCTURES OBTAINED BY FIELD
MEASUREMENTS WHERE POSSIBLE, OTHERWISE
OBTAINED FROM OTHER SOURCES AND MAY BE
APPROXIMATE ONLY.
OTHER UNDERGROUND UTILITIES AND STRUCTURES
MAY EXIST, THE LOCATIONS OF WHICH ARE
CURRENTLY UNKNOWN.
WATER LEVELS MEASURED JULY 9 THRU 12, 2001

BENCHMARKS: (NOT SHOWN)
BM 164 (ELEV.=42.68)
IRON BOLT AT NORTHEAST CORNER OF CONCRETE SLAB,
APPROX. 80 FEET NORTH AND APPROX. 30 FEET EAST
OF THE SOUTHEAST CORNER OF BUILDING TR-4.
BM 500 (ELEV.=44.87)
CHISELED CROSS ON EAST NUT OF POSITION INDICATION
VALVE, APPROX. 75 FEET NORTHWEST OF THE
SOUTHWEST CORNER OF BUILDING TR-7 AND APPROX.
90 FEET NORTHEAST OF THE SOUTHEAST CORNER OF
BUILDING TR-1.

ONLY DEEP MONITORING WELLS MW-14D, MW-15D
AND MW-16D WERE USED TO CONSTRUCT
POTENTIOMETRIC SURFACE.
WATER LEVEL FROM MW-13D NOT INCLUDED DUE TO
WELL BEING FULLY SCREENED THROUGHOUT THE
SATURATED ZONE TO BEDROCK.

MONITORING WELL IDENTIFICATION KEY	
FORMER WELL IDENTIFICATION	NEW WELL IDENTIFICATION
MW-99-01	MW-10
MW-99-02	MW-11
MW-99-03	MW-12
MW-99-04	MW-13D
MW-00-5S	MW-14
MW-00-5D	MW-14D
MW-00-06	MW-15D
MW-00-BG	MW-16D

- LEGEND
- BUILDING
 - GROUNDWATER ELEVATION, FT
 - MONUMENT
 - SHALLOW GROUNDWATER MONITORING WELL
 - PIEZOMETER
 - DEEP GROUNDWATER MONITORING WELL
 - GROUNDWATER ELEVATION CONTOUR
 - STORM DRAIN MAIN LINE
 - ENSAFE STORM DRAIN REFERENCE NUMBER
 - FORMER RAILROAD SPUR LOCATION

0 200 400
SCALE FEET

SOURCE:
PHILLIPS & ASSOCIATES
SURVEYORS, P.C.
LIVERPOOL, NEW YORK
(FILE 2700.001)

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LITTLE ROCK, AR JACKSON, MS CLEVELAND, OH

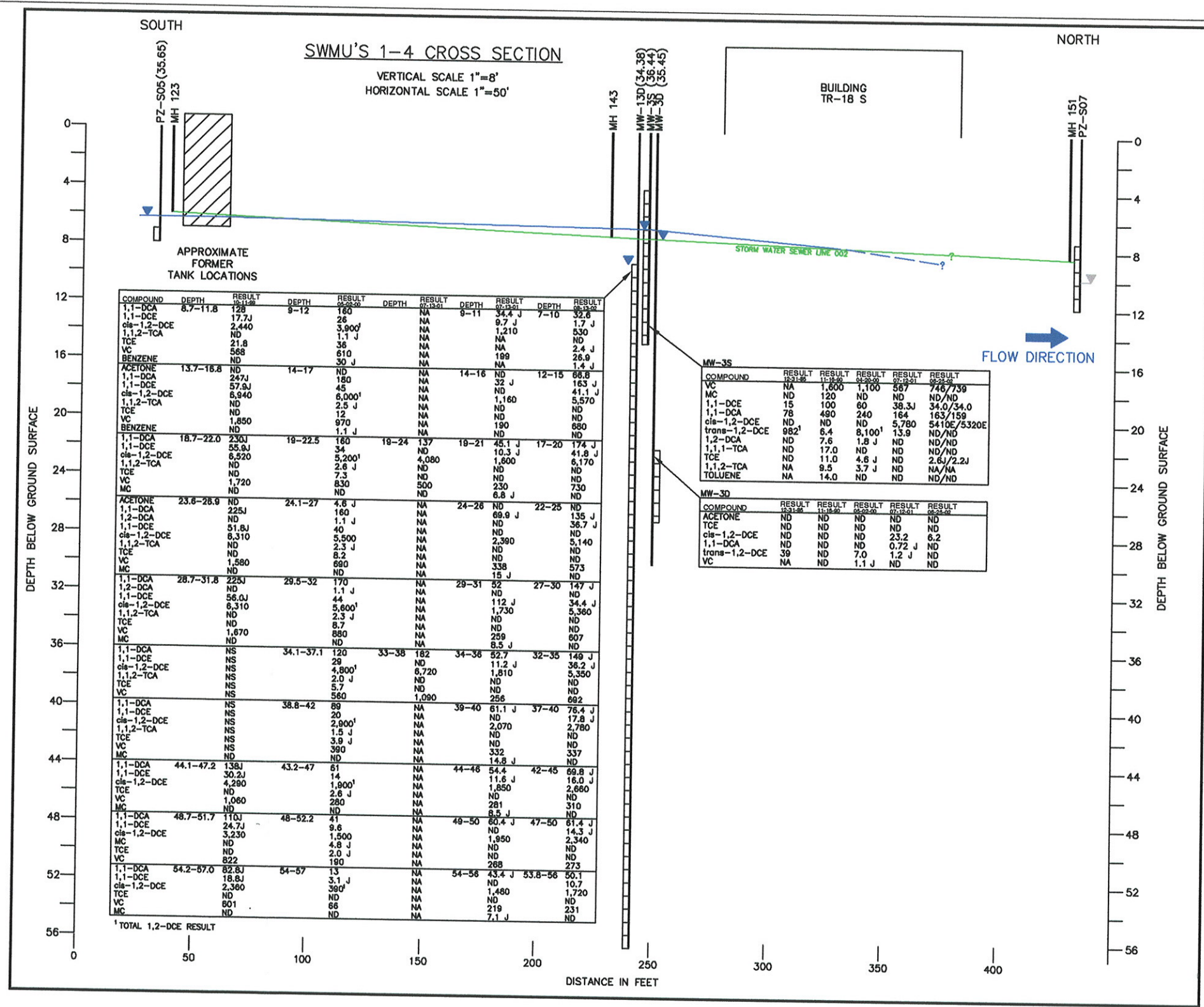
FIGURE 3.3B
DEEP GROUNDWATER POTENTIOMETRIC
SURFACE - JUNE 2002
CARRIER CORPORATION
SYRACUSE, NEW YORK
DWG DATE: 07/14/04 DWG NAME: 3133057R005



NOTES:
ALL RESULTS ARE IN MICROGRAMS PER LITER (ug/L)
1,1-DCA - 1,1-DICHLOROETHANE
1,1-DCE - 1,1-DICHLOROETHENE
cis-1,2-DCE - cis-1,2-DICHLOROETHENE
trans-1,2-DCE - trans-1,2-DICHLOROETHENE
1,2-DCA - 1,2-DICHLOROETHANE
1,1,1-TCA - 1,1,1-TRICHLOROETHANE
1,1,2-TCA - 1,1,2-TRICHLOROETHANE
TCE - TRICHLOROETHENE
MC - METHYLENE CHLORIDE
VC - VINYL CHLORIDE
ND - NOT REPORTED ABOVE METHOD DETECTION LIMITS
NS - NOT SAMPLED
J VALUE INDICATES RESULTS ESTIMATED FROM LABORATORY
TANK CONSTRUCTION NOTES INDICATE TANK WAS COMPLETED APPROXIMATELY 1 FOOT ABOVE
GROUND AND WAS 8 FEET DEEP.
SURFACE IS ASPHALT-PAVED PARKING AREA OR BENEATH BUILDINGS
SHALLOW GROUNDWATER LEVEL IS DEPICTED IN BLUE
GREEN LINE IS BOTTOM OF SEWER LINE 002
GROUNDWATER ELEVATIONS ARE FROM JUNE 2002
CONCENTRATIONS ARE IN ug/L
PZS06 WAS NOT USED DUE TO DAMAGE.

MONITORING WELL IDENTIFICATION KEY	
FORMER WELL IDENTIFICATION	NEW WELL IDENTIFICATION
MW-99-04	MW-13D

- LEGEND:
- TR-18 - BUILDING
 - PZ - MONITORING WELL
 - PZ - PIEZOMETER
 - MW-3D (34.45) - GROUNDWATER MONITORING WELL IDENTIFICATION AND GROUNDWATER ELEVATION
 - - WELL SCREEN INTERVAL

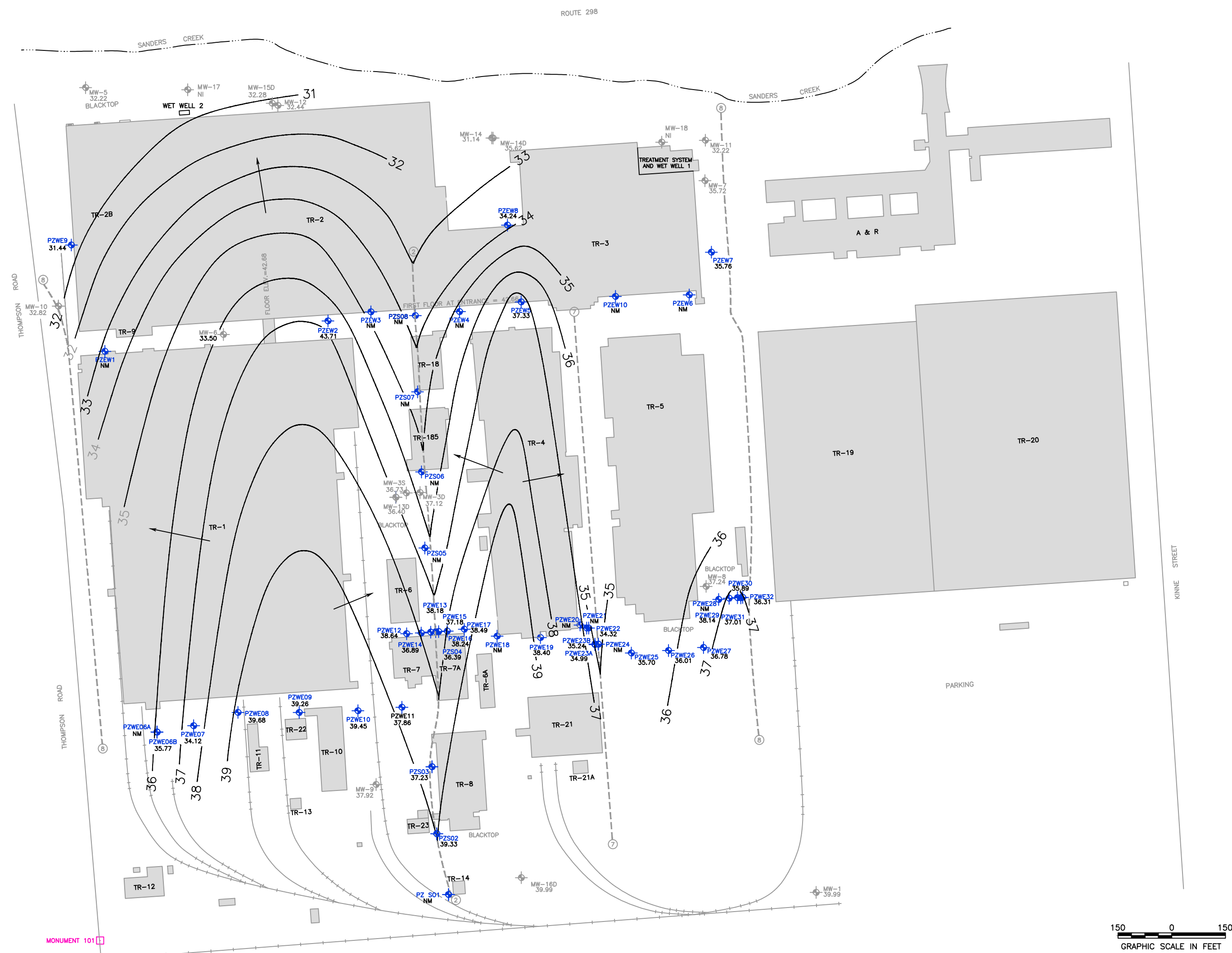


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FIGURE 3.3C
SWMU's 1-4 CROSS SECTION
CARRIER CORPORATION
SYRACUSE, NEW YORK

DWG DATE: 09/23/02 DWG NAME: 3133057R006



NOTES:

ELEVATIONS REFERRED TO CITY OF SYRACUSE DATUM.
ADD 362.00 FEET TO OBTAIN USGS DATUM OF 1929.

LOCATION OF UNDERGROUND UTILITIES AND OTHER
UNDERGROUND STRUCTURES OBTAINED BY FIELD
MEASUREMENTS WHERE POSSIBLE, OTHERWISE
OBTAINED FROM OTHER SOURCES AND MAY BE
APPROXIMATE ONLY.

OTHER UNDERGROUND UTILITIES AND STRUCTURES
MAY EXIST, THE LOCATIONS OF WHICH ARE
CURRENTLY UNKNOWN.

WATER LEVELS MEASURED APRIL 17, 2000

BENCHMARKS: (NOT SHOWN)

BM 164 (ELEV.=42.68)
IRON BOLT AT NORTHEAST CORNER OF CONCRETE SLAB,
APPROX. 80 FEET NORTH AND APPROX. 30 FEET EAST
OF THE SOUTHEAST CORNER OF BUILDING TR-4.

BM 500 (ELEV.=44.87)
CHISELED CROSS ON EAST NUT OF POSITION INDICATION
VALVE, APPROX. 75 FEET NORTHWEST OF THE
SOUTHWEST CORNER OF BUILDING TR-7 AND APPROX.
90 FEET NORTHEAST OF THE SOUTHEAST CORNER OF
BUILDING TR-1.

WELLS SCREENED GRAY WERE NOT USED IN CONSTRUCTING
POTENTIOMETRIC SURFACE.

MONITORING WELL IDENTIFICATION KEY	
FORMER WELL IDENTIFICATION	NEW WELL IDENTIFICATION
MW-99-01	MW-10
MW-99-02	MW-11
MW-99-03	MW-12
MW-99-04	MW-13D
MW-00-5S	MW-14
MW-00-5D	MW-14D
MW-00-06	MW-15D
MW-00-BG	MW-16D

LEGEND	
	- BUILDING
	- ELEVATION, FT
	- MONITORING WELL
	- PIEZOMETER
	- GROUNDWATER FLOW DIRECTION
	- GROUNDWATER ELEVATION CONTOUR
	- STORM DRAIN MAIN LINE
	- ENSAFE STORM DRAIN REFERENCE NUMBER
	- NOT MEASURED
	- WELL NOT INSTALLED AT THIS TIME
	- FORMER RAILROAD SPUR LOCATION

SOURCE:

PHILLIPS & ASSOCIATES
SURVEYORS, P.C.
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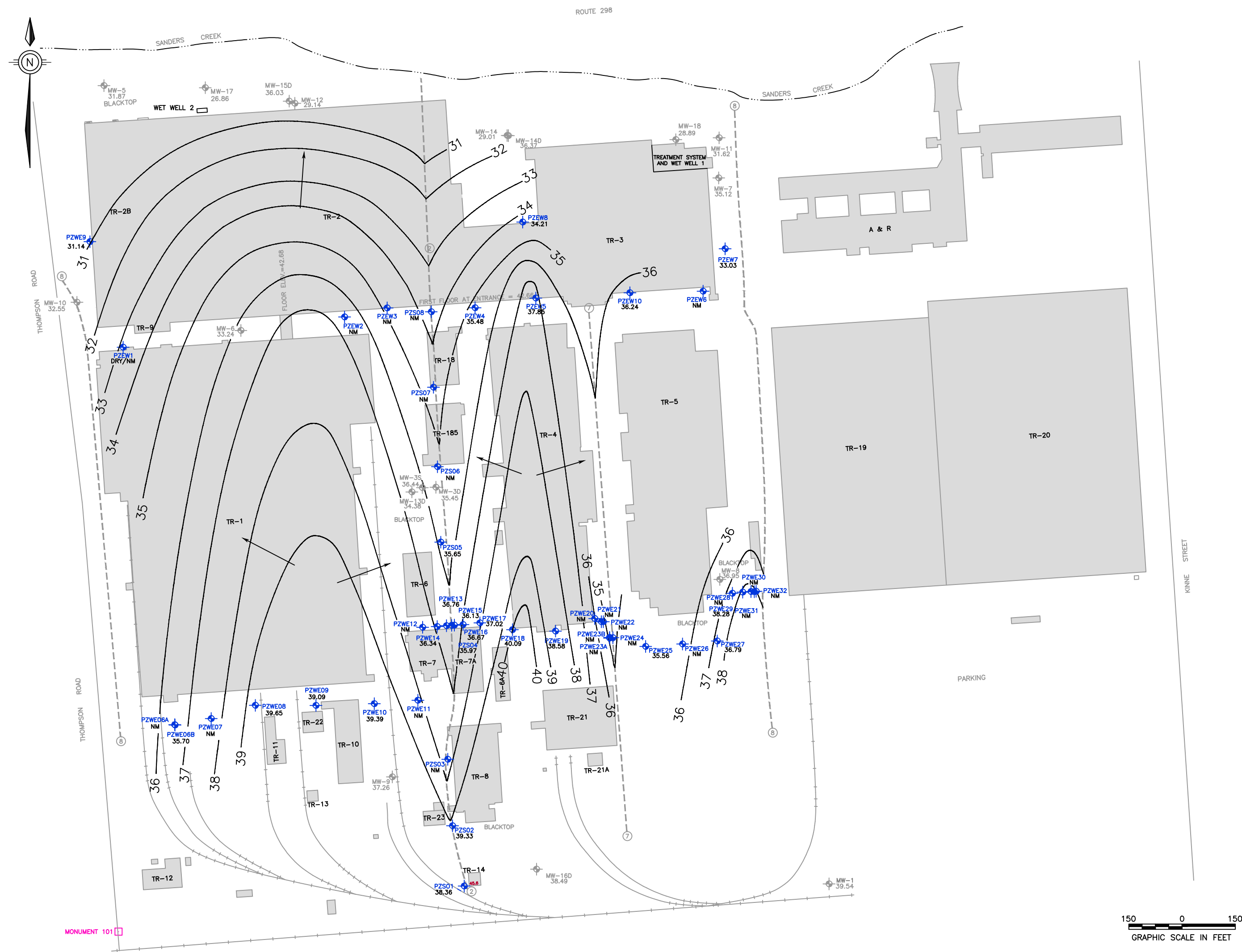
FIGURE 3.4
POTENTIOMETRIC SURFACE MAP
APRIL, 2000
CARRIER CORPORATION
SYRACUSE, NEW YORK

DWG DATE: 09/27/02 DWG NAME: 3133057R009

June 2002 Investigation and Sampling

As part of the most recent investigation, continued sampling of wells in the SWMU 1 through 4 area was performed. Table 3.3 and Figure 3.2 show the analytical results from the June 2002 RFI sampling, as well as recent historic sampling at the facility. A copy of the laboratory analytical data sheets is included in Appendix B. As illustrated in Figure 3.2, the June 2002 results are consistent with previous historic sampling results, especially near SWMUs 1 to 4.

Depth to groundwater data are summarized in Table 3.4. The piezometers without measurements had been damaged due to snow removal and other activities at the Carrier facility. The potentiometric surface developed from June 2002 depth-to-water measurements is included as Figure 3.3. In addition, a deep groundwater potentiometric map, presented as Figure 3.3B, was generated based on depth-to-groundwater measurements from wells screened over the 10-foot interval immediately above the top of bedrock at the facility. The July 2001 shallow groundwater potentiometric surface (Figure 3.3D) and the July 2001 deep groundwater potentiometric surface maps (Figure 3.3E) are included as a basis for comparison, as is the April 2000 shallow potentiometric surface (Figure 3.4). Flow directions and water quality data for 2002 were consistent with previous observations for the historical wells. Shallow groundwater flow continues to be toward the storm sewers across the site. This direction varies, and can be to the west, northwest, north, and northeast depending on the specific location. However, in general, the shallow groundwater flow is to the north toward Sanders Creek. Deep groundwater across the site flows to the north-northwest.



NOTES:
 ELEVATIONS REFERRED TO CITY OF SYRACUSE DATUM.
 ADD 362.00 FEET TO OBTAIN USGS DATUM OF 1929.
 LOCATION OF UNDERGROUND UTILITIES AND OTHER
 UNDERGROUND STRUCTURES OBTAINED BY FIELD
 MEASUREMENTS WHERE POSSIBLE, OTHERWISE
 OBTAINED FROM OTHER SOURCES AND MAY BE
 APPROXIMATE ONLY.
 OTHER UNDERGROUND UTILITIES AND STRUCTURES
 MAY EXIST, THE LOCATIONS OF WHICH ARE
 CURRENTLY UNKNOWN.
 WATER LEVELS MEASURED JULY 9 THRU 12, 2001

BENCHMARKS: (NOT SHOWN)
 BM 164 (ELEV.=42.68)
 IRON BOLT AT NORTHEAST CORNER OF CONCRETE SLAB,
 APPROX. 80 FEET NORTH AND APPROX. 30 FEET EAST
 OF THE SOUTHEAST CORNER OF BUILDING TR-4.
 BM 500 (ELEV.=44.87)
 CHISELED CROSS ON EAST NUT OF POSITION INDICATION
 VALVE, APPROX. 75 FEET NORTHWEST OF THE
 SOUTHWEST CORNER OF BUILDING TR-7 AND APPROX.
 90 FEET NORTHEAST OF THE SOUTHEAST CORNER OF
 BUILDING TR-1.
 GROUNDWATER ELEVATION CONTOURS PRODUCED FROM
 PIEZOMETER DEPTH TO GROUNDWATER MEASUREMENTS.
 WELLS SCREENED WERE NOT USED IN CONSTRUCTING
 POTENTIOMETRIC SURFACE.

MONITORING WELL IDENTIFICATION KEY	
FORMER WELL IDENTIFICATION	NEW WELL IDENTIFICATION
MW-99-01	MW-10
MW-99-02	MW-11
MW-99-03	MW-12
MW-99-04	MW-13D
MW-00-5S	MW-14
MW-00-5D	MW-14D
MW-00-06	MW-15D
MW-00-BG	MW-16D

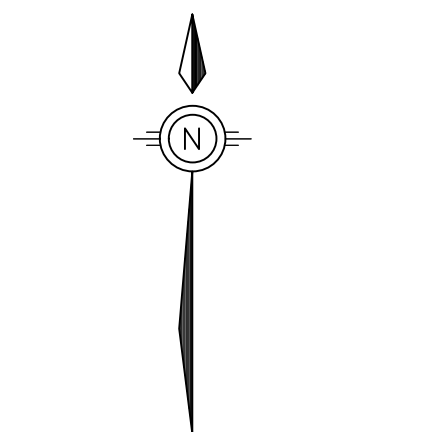
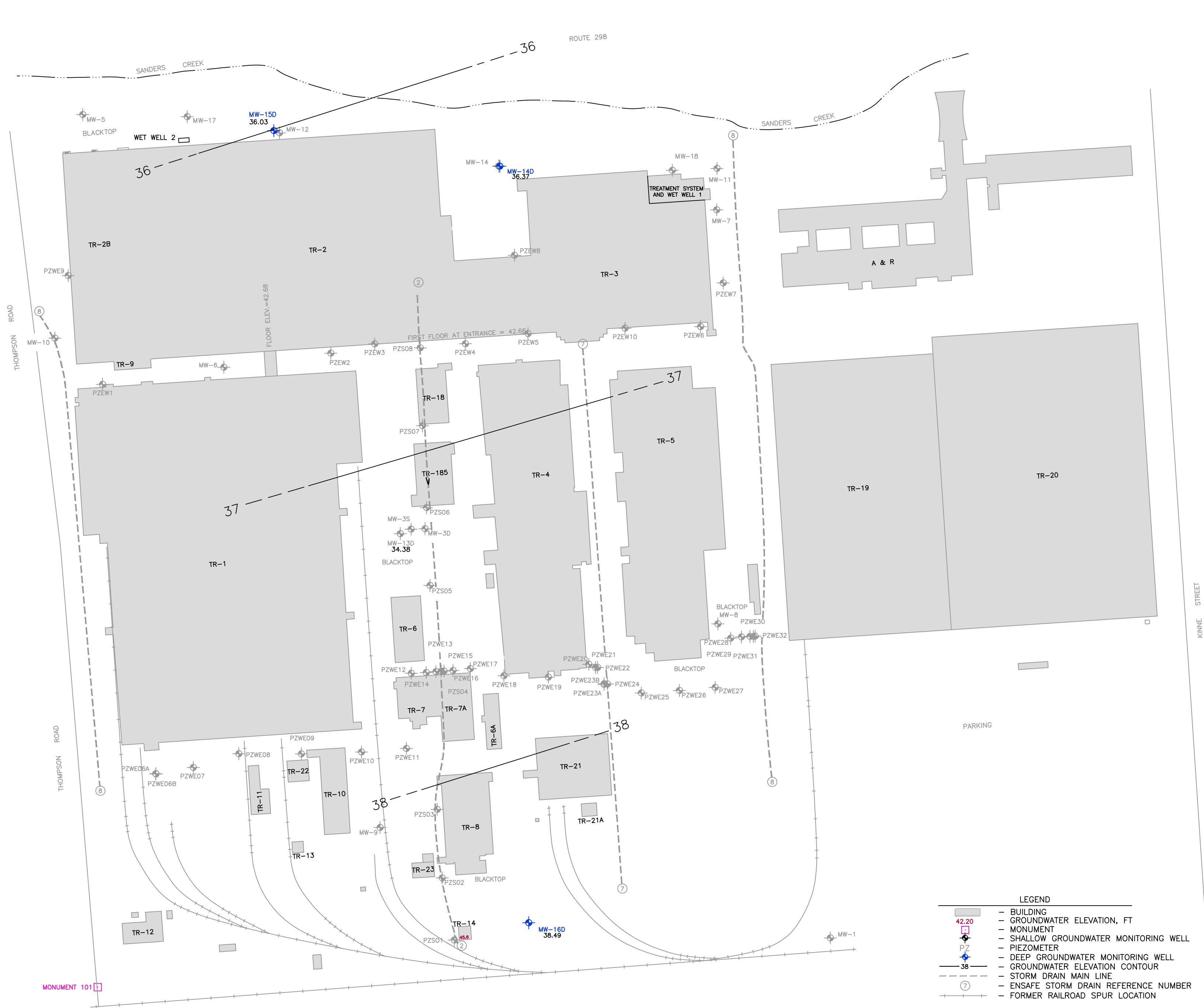
LEGEND

- BUILDING
- GROUNDWATER ELEVATION, FT
- MONUMENT
- MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR
- STORM DRAIN MAIN LINE
- ENSAFE STORM DRAIN REFERENCE NUMBER
- NOT MEASURED (PIEZOMETER DESTROYED)
- FORMER RAILROAD SPUR LOCATION

SOURCE:
PHILLIPS & ASSOCIATES
 SURVEYORS, P.C.
 LIVERPOOL, NEW YORK
 (FILE 2700.001)

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 LITTLE ROCK, AR JACKSON, MS CLEVELAND, OH

FIGURE 3.3D
 SHALLOW POTENTIOMETRIC SURFACE
 JULY, 2001
 CARRIER CORPORATION
 SYRACUSE, NEW YORK
 DWG DATE: 09/23/02 DWG NAME: 3133057R007



NOTES:
ELEVATIONS REFERRED TO CITY OF SYRACUSE DATUM.
ADD 362.00 FEET TO OBTAIN USGS DATUM OF 1929.
LOCATION OF UNDERGROUND UTILITIES AND OTHER
UNDERGROUND STRUCTURES OBTAINED BY FIELD
MEASUREMENTS WHERE POSSIBLE, OTHERWISE
OBTAINED FROM OTHER SOURCES AND MAY BE
APPROXIMATE ONLY.
OTHER UNDERGROUND UTILITIES AND STRUCTURES
MAY EXIST, THE LOCATIONS OF WHICH ARE
CURRENTLY UNKNOWN.
WATER LEVELS MEASURED JULY 9 THRU 12, 2001

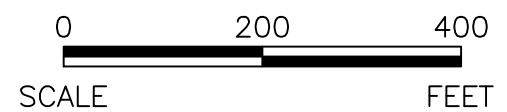
BENCHMARKS: (NOT SHOWN)
BM 164 (ELEV.=42.68)
IRON BOLT AT NORTHEAST CORNER OF CONCRETE SLAB,
APPROX. 80 FEET NORTH AND APPROX. 30 FEET EAST
OF THE SOUTHEAST CORNER OF BUILDING TR-4.
BM 500 (ELEV.=44.87)
CHISELED CROSS ON EAST NUT OF POSITION INDICATION
VALVE, APPROX. 75 FEET NORTHWEST OF THE
SOUTHWEST CORNER OF BUILDING TR-7 AND APPROX.
90 FEET NORTHEAST OF THE SOUTHEAST CORNER OF
BUILDING TR-1.

ONLY DEEP MONITORING WELLS MW-14D, MW-15D
AND MW-16D WERE USED TO CONSTRUCT
POTENTIOMETRIC SURFACE.

WATER LEVEL FROM MW-13D NOT INCLUDED DUE TO
WELL BEING FULLY SCREENED THROUGHOUT THE
SATURATED ZONE TO BEDROCK.

MONITORING WELL IDENTIFICATION KEY	
FORMER WELL IDENTIFICATION	NEW WELL IDENTIFICATION
MW-99-01	MW-10
MW-99-02	MW-11
MW-99-03	MW-12
MW-99-04	MW-13D
MW-00-5S	MW-14
MW-00-5D	MW-14D
MW-00-06	MW-15D
MW-00-BG	MW-16D

- LEGEND
- BUILDING
 - GROUNDWATER ELEVATION, FT
 - MONUMENT
 - SHALLOW GROUNDWATER MONITORING WELL
 - PIEZOMETER
 - DEEP GROUNDWATER MONITORING WELL
 - GROUNDWATER ELEVATION CONTOUR
 - STORM DRAIN MAIN LINE
 - ENSAFE STORM DRAIN REFERENCE NUMBER
 - FORMER RAILROAD SPUR LOCATION



SOURCE:
PHILLIPS & ASSOCIATES
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VIRGINIA SLOVAKIA

FIGURE 3.3E
DEEP GROUNDWATER POTENTIOMETRIC
SURFACE
CARRIER CORPORATION
SYRACUSE, NEW YORK
DWG DATE: 09/27/02 DWG NAME: 3133057R008

3.2 Bedding Material beneath Sewer Lines

NYSDEC Comment 2: Demonstrate that offsite migration is not occurring through the storm sewers or through the bedding material beneath the sewer lines; or if this demonstration cannot be made, assess the nature and extent of any on-site or off-site contamination that has occurred.

The possible pathways for contaminated groundwater to migrate offsite are through the storm sewer system piping discharges or through groundwater flow. The *Release Assessment Report* (EnSafe, 2001) further details the previous investigations into the storm sewer (1999) and onsite groundwater quality at the northern property boundary (2000).

During the RFI, two groundwater monitoring wells were installed in the bedding material of the storm sewer lines leading to Outfalls 010 and 011. The wells (MW-17 and MW-18) were installed downgradient of Carrier's existing storm water collection system and air stripper treatment system, near the storm sewers' discharge point to Sanders Creek. MW-17 was installed south of Outfall 010 and MW-18 was installed south of Outfall 011. Both were installed by Parratt-Wolfe of Syracuse, New York, using hollow-stem auger drilling techniques. Soil samples were collected continuously by direct-push methods using 4-foot-long plastic sample sleeves inside macro-core rods. Logs of the monitoring well borings are presented in Appendix A.

In MW-17, fill and topsoil material were encountered to a depth of 2.5 feet bgs followed by coarse gravel consisting of angular limestone rock fragments to a depth of 11.5 feet bgs. A thin silt to clayey silt unit was encountered from 11.5 to 12 feet, which abruptly graded into coarse gravel from 12 to 14 feet bgs. Silt was encountered from 14 to 15 feet bgs with a minor amount of perched water. The dry silt was in sharp contact with a tan wet silt to 15.5 feet bgs.

In MW-18, beneath the approximately 2-foot thick topsoil materials, coarse gravel composed of angular limestone rock fragments was intermixed with finer gravel and sand-sized material to the 15-foot bgs total depth of the well. The gravel became wet at approximately 10 feet bgs.

Both groundwater monitoring wells were constructed using stainless-steel components installed inside the hollow-stem augers. A 5-foot stainless steel, 0.010-inch slot screen with end cap was used as well as 10 feet of stainless steel riser in each well. A locking expansion cap was placed at the top of the riser. Filter sand was installed around the well materials from total depth to 2 feet above the top of the screen. A 2-foot thick seal of bentonite pellets was placed above the sand in each well. The bentonite pellets were hydrated with potable water and allowed to stand for at least four hours prior to continuing well construction activities. The remaining annular space was filled with a bentonite-cement grout mixture. Each well was finished flush with the ground surface using a bolt-down protective cover set to a depth of 2 feet bgs in a 2-foot by 2 foot by 2-foot concrete pad.

Both wells were developed until the water was visually clear and sampled the following day using techniques described above. Groundwater sample results (Appendix B) are summarized in Table 3.3 and shown on Figure 3.2. *cis*-1,2-DCE, *trans*-1,2-DCE, TCE, and vinyl chloride were detected in the samples collected from each well. Concentrations of *cis*-1,2-DCE, TCE, and vinyl chloride exceeded their New York State Ambient Water Quality Standards and Guidance Values/Principal Organic Contaminant Standards of 5 ug/L, 5 ug/L, and 2 ug/L, respectively, in both wells. *Trans*-1,2-DCE exceeded standard of 5 ug/L in MW-18.

Currently, the only wells impacted with VOC detections in the vicinity of the storm water lines are MW-17 and MW-18. MW-5, MW-12, MW-14, and MW-14D — along the northern Carrier property boundary in the vicinity of MW-17 — do not exhibit substantial concentrations of chlorinated solvents. These compounds were not detected in MW-5, MW-12, and only low concentrations of these compounds were detected in MW-15. Also, no detectable concentrations of VOCs were found in groundwater samples collected in the deep Hydropunch boring HP-02 near well MW-5.

Wells MW-07, MW-11, MW-14, MW-14D — located in the vicinity of well MW-18 — exhibit low to no dissolved concentrations of chlorinated solvents, as does the deep Hydropunch boring HP-04 near MW-12. No chlorinated solvents have been detected in MW-07, MW-11, or in the adjacent deeper Hydropunch boring HP-03. Farther west of MW-18, no solvents have been

detected in groundwater from deep monitoring well MW-14D and only low concentrations have been identified in shallow well MW-14. Low concentrations of chlorinated solvents were detected in the sample collected from the shallow interval within the Hydropunch boring installed at this location (HP-05). No chlorinated solvents were detected in samples collected from deeper intervals in this boring.

The CMS report will evaluate as a remedy the collection and treatment of water found in the sewer line bedding material. Carrier currently operates a treatment system consisting of two air strippers with a maximum capacity 1,440,000 gpd (SPDES permit limit is 1.5 million gpd). This system is being used to treat storm water and groundwater that is collected by the site-wide network of storm sewers. The average daily flow in 2001 (as of September 2001) for both air strippers is 293,000 gpd, which includes rainfall days. Typical non-rainfall day flows range from 70,000 to 150,000 gpd. While it is not known the rate at which groundwater will be recovered from the bedding material at outfalls 010 and 011, it is anticipated that the existing treatment system will have sufficient capacity to accommodate these flows. An evaluation of expected recovery rates will be performed as part of remedy evaluation.

June 2002 Investigation and Sampling

No additional investigation was performed in this area as part of the June 2002 RFI activities. However, continued sampling of MW-17 and MW-18 was performed. Analytical data shows a significant decrease in contaminant concentrations over this sampling period. A brief summary of the contaminants found are presented below.

Summary of Contaminants Found at Outfalls 010 and 011
(all results in ug/L)

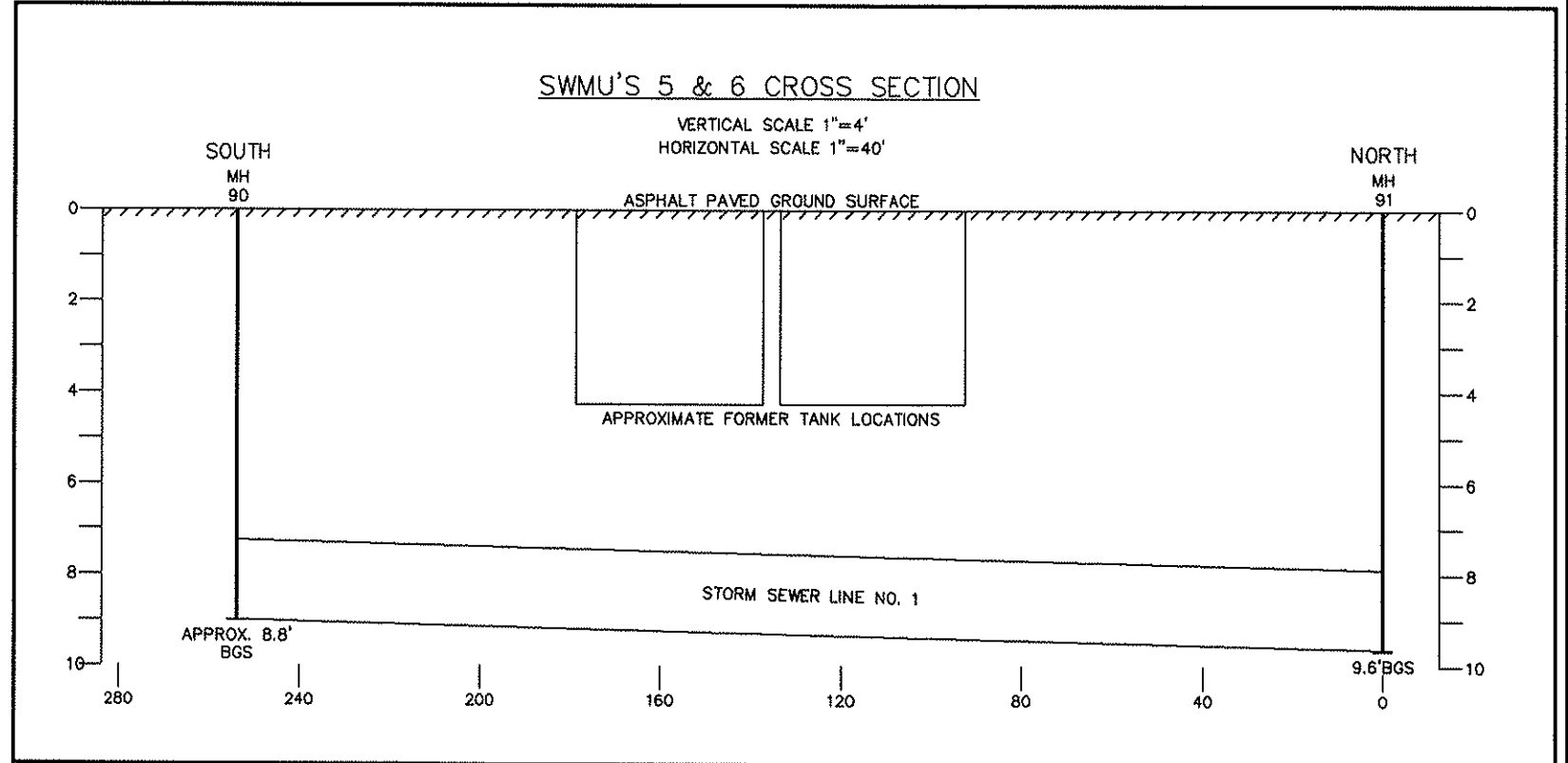
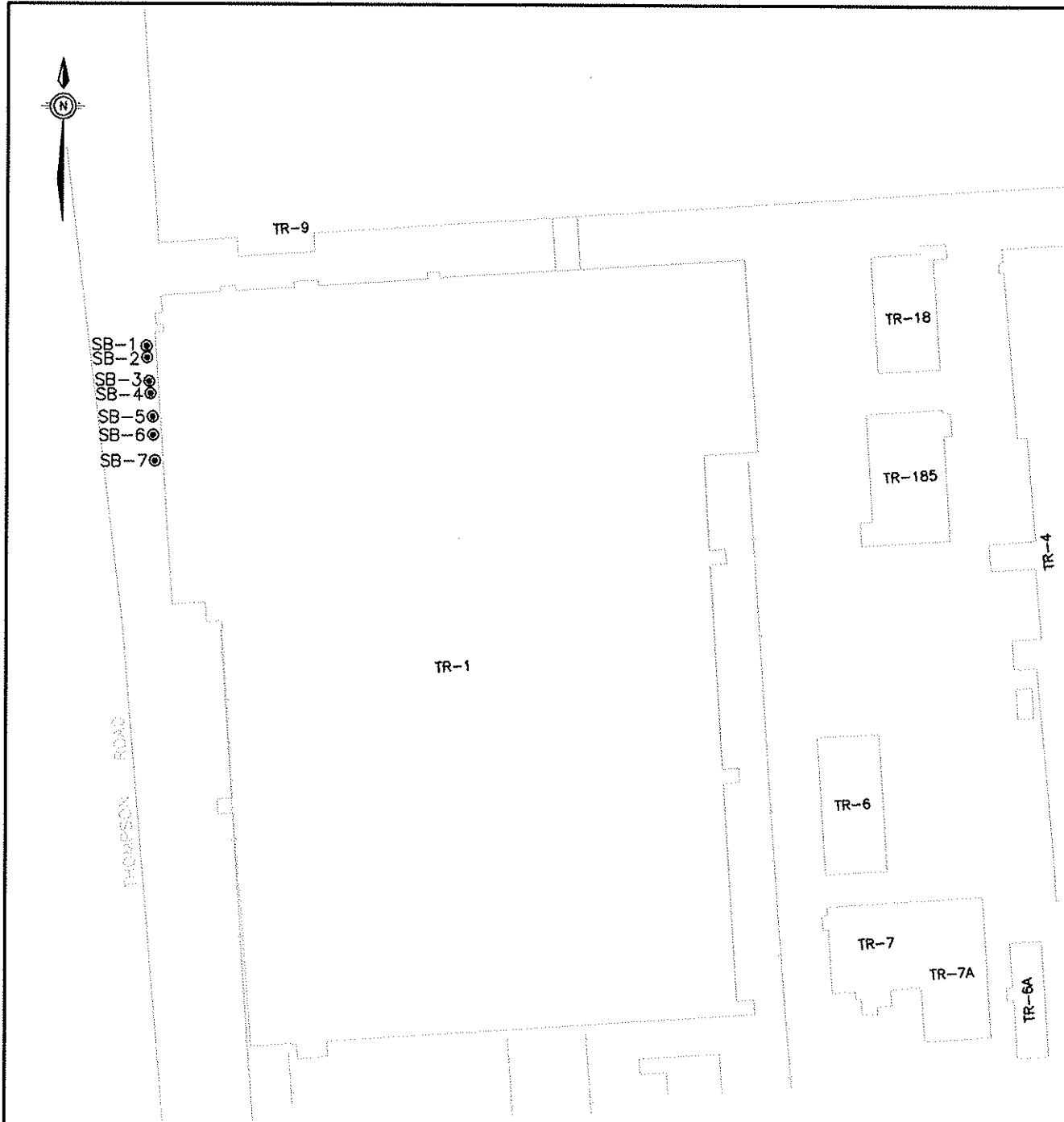
Well Number	Date Sampled	acetone	cis-1,2-DCE	TCE	vinyl chloride
MW-17	7-13-01	6.0	249	42.6	11.0
	6-26-02	ND	ND	ND	ND
MW18	7-13-01	ND	7,020	8,760	505
	6-26-02	ND	2,770	5,580	233

3.3 SWMUs 5 and 6

NYSDEC Comment 3: The extent, nature and rate of migration of contamination beneath the former 8,000 gallon concrete Storage Tanks #1 and #2 (SWMUs 5 and 6) must be assessed.

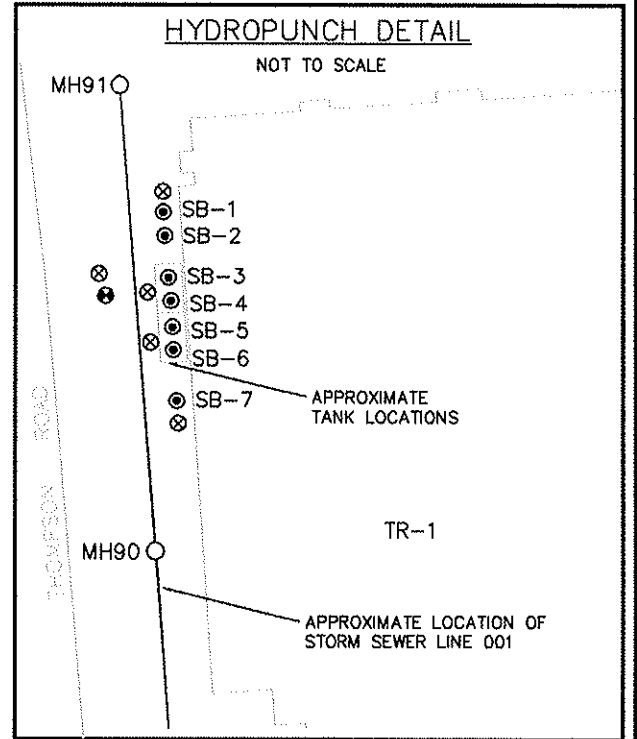
As outlined in the RFI Work Plan, a direct push technology (DPT) investigation was proposed at these SWMUs with four to six DPT borings installed to groundwater in and around the tank-hold (Figure 3.5). Seven DPT borings were installed to groundwater or refusal as part of the RFI activities. In accordance with the approved work plan, soil samples were collected from three of the borings at depths estimated to be below the former tanks. Samples were analyzed for pH, cyanide, VOCs, and the metals identified in Carrier's SPDES permit copper, lead, manganese, and nickel.

Two soil borings (SB-1 and SB-2) were installed and sampled continuously to groundwater north (immediately downgradient) of the former tank location. Groundwater was encountered at approximately 8 to 10 feet bgs at these two locations. Additional soil borings SB-3 to SB-6 were installed south of the initial two borings. During drilling, refusal was encountered at approximately 6 feet bgs and a perched water zone — thought to be the water collected by the former tank-hold — was identified in all four borings. This refusal may represent the bottoms of the former concrete tanks, indicating the tanks may have been left in place and backfilled with fill material. A sample of the perched "groundwater" was collected from SB-4 at the direction of Mr. Tim DiGiulio, who provided oversight for the NYSDEC. Boring SB-7, located immediately south of the former tanks, was installed and sampled continuously to groundwater (approximately 10 feet bgs). Following the work plan protocols, one soil sample was collected from borings SB-1, SB-2, and SB-7 from the 2-foot interval above the first indication of groundwater. The groundwater sample collected from SB-4 was submitted for the same analyses as the soil samples.



NOTE: SB-3 THROUGH SB-6 NOT SAMPLED

SWMU's 5 and 6 DATA SUMMARY JULY 2001 CARRIER FACILITY, THOMPSON ROAD, SYRACUSE, NY (ALL RESULTS IN ug/kg OR ug/L)				
	SB-1 (CARSW56110)	SB-2 (CARSW56208)	SB-7 (CARSW56706)	SB-4 (groundwater) (CARSW56401)
acetone	ND	ND	30.6	ND
1,1-DCA	ND	ND	4.8J	7.7
1,1-DCE	ND	ND	ND	1.8J
cis-1,2-DCE	78.7	ND	ND	281
trans-1,2-DCE	ND	ND	ND	26.8
ethylbenzene	ND	4.2J	ND	ND
TCE	109	ND	ND	38.7
Xylene (total)	ND	16.3	ND	ND
Vinyl Chloride	ND	ND	ND	8.8



SOURCE:
PHILLIPS & ASSOCIATES
 SURVEYORS, P.C.
 LIVERPOOL, NEW YORK
 (FILE 2700.001)

- LEGEND**
- TR-2 — BUILDING
 - ⊙ — APPROXIMATE SOIL BORING LOCATION
 - ⊗ — APPROXIMATE LOCATIONS OF PROPOSED HYDROPUNCH BORINGS
 - ⊕ — APPROXIMATE LOCATION OF PROPOSED SHALLOW MONITORING WELL



FIGURE 3.5
SWMU'S 5 & 6 SOIL BORING LOCATIONS
CARRIER CORPORATION
SYRACUSE, NEW YORK

3133-057 JOB NO.	DESIGNED: X	SCALE: AS SHOWN	REV:	SHT 1 OF 1
	DRAWN BY: JER	DATE: 09/23/02	APPR'D: JPG	
FILE NAME: G:\A-L\CARRIER\SYRACUSE\DWG2001\RFI\3133031R010				

VOCs and Metals in Soil – The VOC results from SWMUs 5 and 6 are summarized in Table 3.5 and on Figure 3.5. None of the VOCs detected in soils exceeded the New York soil cleanup objectives protective of groundwater. Except for copper (SB-2) and nickel (SB-7), none of the metals exceeded the New York soil cleanup objectives. The New York soil cleanup objectives for lead and manganese are site background values, which have not been established at the Carrier facility. However, the metals concentrations detected at SWMUs 5 and 6 as part of the preliminary investigation were below the USEPA Region 9 Preliminary Remediation Goals (PRGs) for both industrial and residential soils (see Table 3.5).

June 2002 Investigation and Sampling

Background Soil Metals – A soil sampling program was initiated in June 2002 to establish background concentrations of selected metals in soils at the Carrier Thompson Road facility, related to soil sampling conducted in July 2001 at SWMUs 5 and 6. Four locations within the facility boundaries, BG-01 to BG-04, were sampled (Figure 3.5B). These locations were selected by Carrier personnel and estimated to be free of impact from Carrier's industrial activities. All utilities at each location were cleared with Carrier facility personnel as well as individual utility providers prior to initiating the investigation. The borings were installed using a tractor-mounted direct-push technology (DPT) drilling rig. Two samples from each of the four borings were collected: one sample at the 0 to 2 foot interval and another at the 6 to 8 foot depth interval. NYSDEC approved the locations and sampling depth during their site visit. Follow-up correspondence dated July 10, 2002, from Mr. Bill Penn (UTC) to Mr. Larry Rosenmann (NYSDEC), confirmed agreement on sampling locations, depth, and number of samples. Samples were collected and shipped via overnight courier using chain-of-custody procedures to Accutest Laboratories in Dayton, New Jersey and analyzed using United States Environmental Protection Agency (USEPA) method SW-846 6010 for total arsenic, copper, iron, lead, manganese, and nickel. Analytical results are summarized in Table 3.5B below. The concentrations of all metals analyzed in the July 2001 investigation were within the range of site background values established for the site.

Table 3.5
 SWMU 5 and 6 Soils and Groundwater Analytical Data
 (soil in mg/kg; groundwater in µg/l)

	Copper	Lead ¹	Manganese	Nickel	Arsenic	Iron	pH	1,1-DCA	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Region 9 PRGs (Residential/Industrial)	2,900/76,000	400/1,000	1,800/32,000	1,600/41,000	—	—	—	—	—	—	—	—
NY soil cleanup objective	25.5	Site background	Site background	13	—	—	—	—	—	—	—	—
Site Background (6 to 8 ft interval)	15.1 to 27.1	3.6 to 9.4	254 to 780	10.0 to 26.4	—	—	—	—	—	—	—	—
Naturally-occurring in NY soils	3.0 to 70	ND to 50	2 to 7,000	ND to 30	—	—	—	—	—	—	—	—
Naturally-occurring in US soils	<1 to 700	<10 to 300	<2 to 7,000	<5 to 700	—	—	—	—	—	—	—	—
SB-1	15.9	3.7	308	10.7	—	—	—	—	—	—	—	—
SB-2	25.7	3.4	525	8.9	—	—	—	—	—	—	—	—
SB-7	23.6	9.2	312	23.3	—	—	—	—	—	—	—	—
Background Monitoring Well (MW-1)	—	<3	—	<40	—	—	—	ND	ND	ND	ND	ND
SB-4 (gw)	—	13.1	4,600	272	5.2	29,000	11.1	7.7	281	26.8	38.7	8.8

¹ Appendix A of TAGM #4046; TABLE 4 - Recommended soil cleanup objectives (mg/kg or ppm) Heavy Metals: Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Table 3.5B
Background Soil Metals Concentrations

Sample Identification	Depth Interval	Arsenic	Copper	Iron	Lead	Manganese	Nickel
CARSBG0100	0 to 2	3.2	12.4	25,500	8.4	377	17.4
CARSBG0106	6 to 8	6.2	27.1	19,700	9.4	780	26.4
CARSBG0200	0 to 2	4.3	49.0	10,000	20.4	248	11.2
CARSBG0206	6 to 8	4.4	25.0	18,400	7.3	418	19.7
CARSBG0300	0 to 2	3.8	26.6	25,200	9.3	410	25.6
CARSBG0306	6 to 8	2.5	16.7	10,800	3.6	254	10.2
CARCBG0306	6 to 8	5.2	23.2	16,600	6.0	426	22.0
CARSBG0400	0 to 2	5.2	28.7	24,500	9.8	1,150	31.3
CARSBG0406	6 to 8	2.0	15.1	13,200	4.1	384	10.0
Range of Conc.	0 to 2	3.2 to 5.2	12.4 to 49.0	10,000 to 25,500	8.4 to 20.4	248 to 1,150	11.2 to 31.3
Range of Conc.	6 to 8	2.0 to 6.2	15.1 to 27.1	10,800 to 19,700	3.6 to 9.4	254 to 780	10.0 to 26.4

Notes:

- All results are reported in milligrams per kilogram (mg/kg)
- Depth interval range is in feet below ground surface (bgs)
- CARCBG0306 – Duplicate sample
- SB – Site Background



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 SURVEYORS, P.C.
 LIVERPOOL, NEW YORK
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FIGURE 3.5B
 BACKGROUND SOIL METALS
 BORING LOCATIONS
 CARRIER CORPORATION
 SYRACUSE, NEW YORK

DWG DATE: 09/27/02 DWG NAME: 3133057R011

The four background soil borings generally consisted of stiff, brown clayey silts with traces of fine-grained sand. Samples were moist to wet when collected. The analytical results indicate the range of metals concentrations for the background soil borings are consistent with the metals concentrations found in DPT borings SB-1, SB-2 and SB-7 from SWMUs 5 and 6. Concentrations for copper, lead, manganese, and nickel from SB-1, SB-2, and SB-7 are within the range of concentrations detected in the background soil borings and are considered background levels. Based on the laboratory analytical results from the background soil samples, no further action is deemed necessary for metals in the site soils at SWMUs 5 and 6.

VOCs and Metals in Groundwater –A perched “groundwater” sample from a depth of 2 feet bgs was collected from boring SB-4 and contained the VOCs 1,1-DCE at 1.8J µg/L, *cis*-1,2-DCE at 281 µg/L, *trans*-1,2-DCE at 26.8 µg/L, TCE at 38.7 µg/L, and vinyl chloride at 8.8 µg/L. This sample is not a true “groundwater” sample, but likely represents water that collected in tank-hold that was trapped due to the higher permeability of the fill material. All constituents except 1,1-DCE exceed their respective New York State standards. However, concentrations of these VOCs in the perched water at this location are consistent with groundwater concentrations in other areas of the site.

The groundwater sample had a pH of 11.1 and contained several metals in dissolved concentrations: arsenic (5.2 µg/L), iron (29,000 µg/L), lead (13.1 µg/L), manganese (4,600 µg/L), and nickel (272 µg/L). As the data indicate, the metals concentrations in the grab sample are higher in this sample than those of MW-1 – located southeast of the main developed area of the facility and considered a background monitoring well. The higher metals concentrations are partly attributed to the turbidity of the sample, which had a high fraction of suspended clay and silt-sized particles due to the nature of the backfill material in the borehole sampled.

The groundwater flow direction in this area of the facility was reviewed. Using the available groundwater elevation information from nearby shallow groundwater piezometers and monitoring wells, shallow groundwater flows northwest. Based on the information obtained during field investigations, the water perched in the former tanks/tank-hold has the potential to

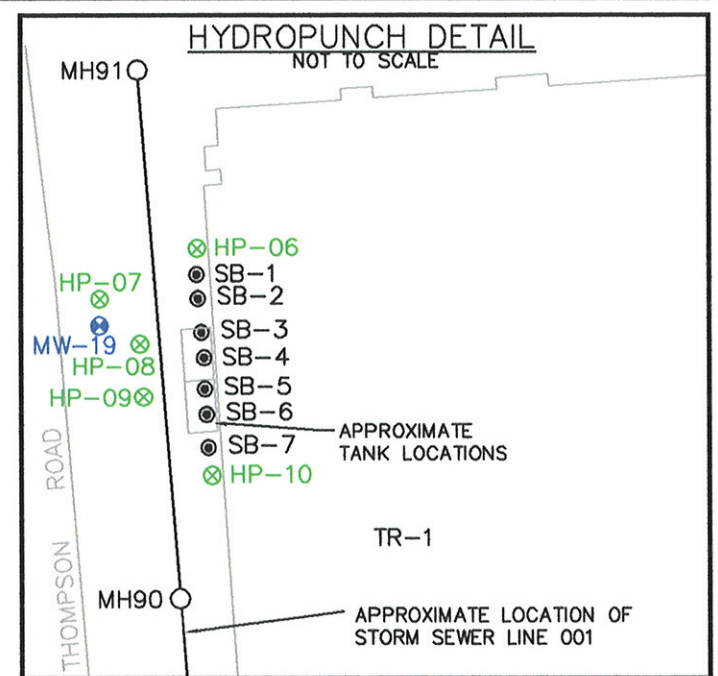
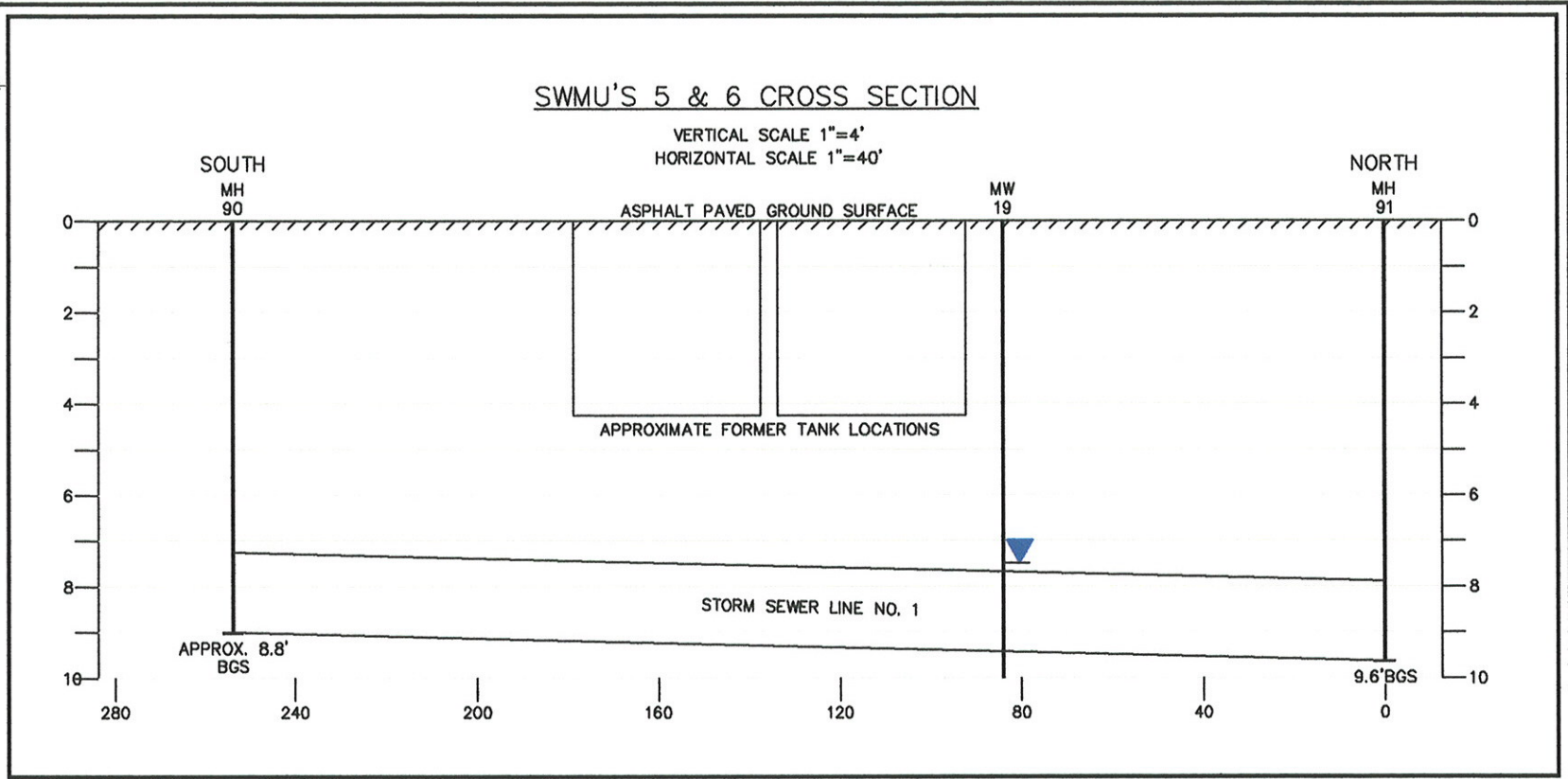
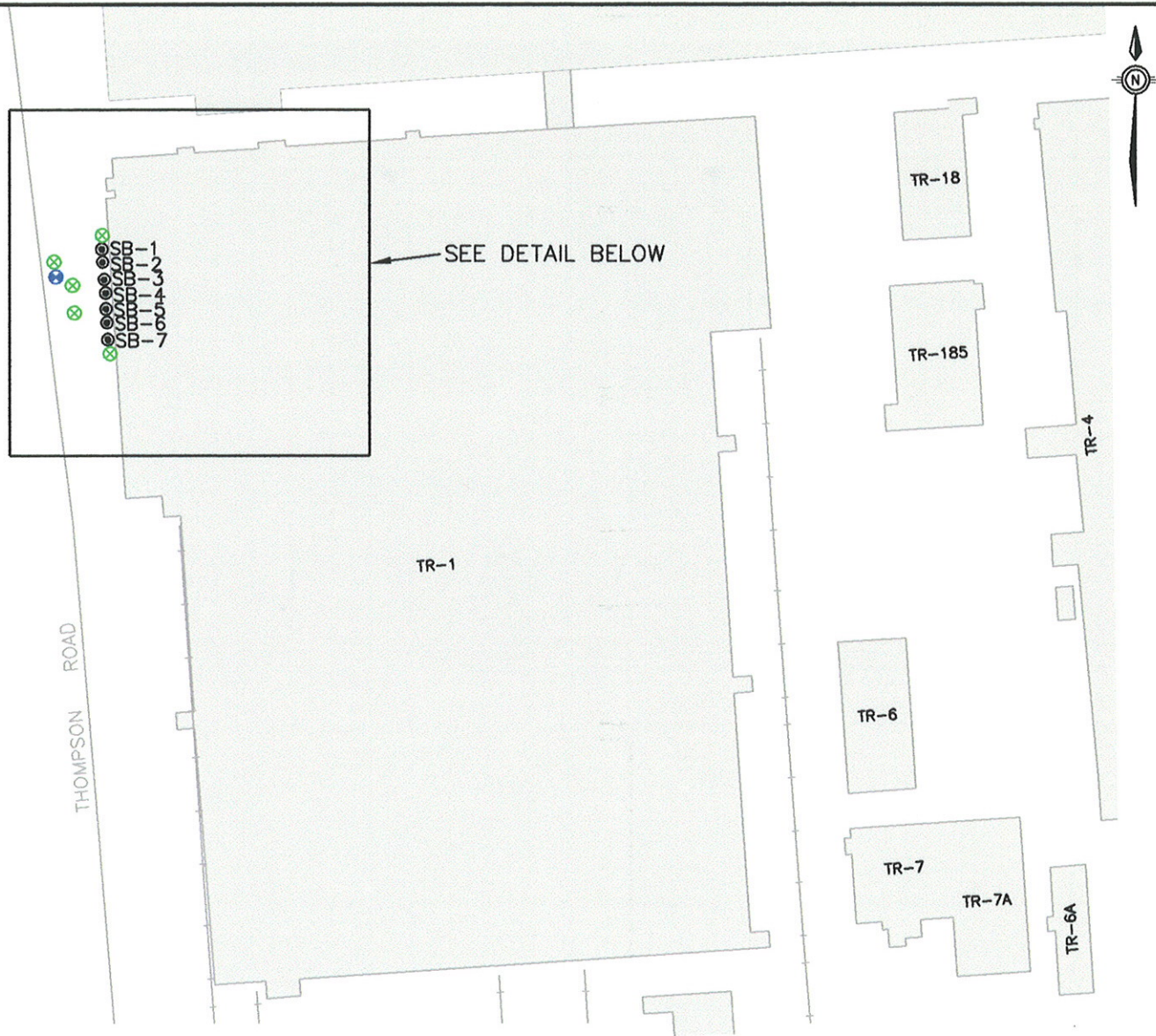
infiltrate into the storm sewer system (see Figure 3.5). During the DPT drilling program, refusal occurred at approximately 6 feet bgs, and it is thought that the tank bottoms were encountered. Sewer line 001 is west of the former tanks and is between 8 and 9 feet bgs in this area. The northwesterly flow direction of shallow groundwater and the depth of the storm sewer line make it likely that water infiltrating into the tanks/tank-hold is hydraulically connected to the groundwater at the storm sewer.

Carrier has investigated the groundwater at SMWUs 5 and 6 by installing two Hydropunch soil borings downgradient of the former tank locations, one Hydropunch boring upgradient from the former tank locations, and two Hydropunch soil boring adjacent to the former tank-hold (see Figure 3.5C). Groundwater was sampled every 10 feet in the Hydropunch boring and analyzed for VOCs. In addition to sampling for VOCs, a total and dissolved metals sample was collected from the five borings. Metals analyzed were the same as those analyzed in the previous investigation conducted at SWMUs 5 and 6 in July 2001.

June 2002 Investigation and Sampling

A shallow and intermediate depth groundwater investigation was implemented in June 2002 at SWMUs 5 and 6 as a result of a shallow soil investigation of these SMWUs in July 2001 which identified several metals in site soils along with low concentrations of VOCs in perched water samples.

Five soil borings (HP-06 through HP-10) of varying depths and one groundwater monitoring well were installed using hollow-stem auger drilling techniques at the SWMUs. Hydropunch borings were installed both downgradient and upgradient from the two former tank locations to determine if contaminants had migrated from the tanks and to determine the vertical profile of the contamination in this area, if present. Continuous split-spoon soil samples were described and logged during the drilling (boring logs in Appendix A), and groundwater samples were collected every ten feet to obtain a vertical profile of water quality to total depth. Groundwater samples were collected using Hydropunch sampling techniques. Groundwater was encountered between 4 and 8 feet bgs in the borings during drilling. Originally, all five borings were to be installed to the top of the bedrock; however, in a conference with Mr. Larry Rosenmann,



- LEGEND**
- TR-2 — BUILDING
 - — APPROXIMATE SOIL BORING LOCATION
 - ⊗ — APPROXIMATE LOCATIONS OF HYDROPUNCH BORINGS
 - ⊕ — LOCATION OF SHALLOW MONITORING WELL

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FIGURE 3.5C
 SWMU'S 5 & 6 HYDROPUNCH LOCATIONS
 CARRIER CORPORATION
 SYRACUSE, NEW YORK

DWG DATE: 09/27/02 | DWG NAME: 3133057R022

NYSDEC, on Monday June 24, 2002, the work plan for these SWMUs was modified to focus on the shallow groundwater. Follow-up correspondence dated July 10, 2002, from Mr. Bill Penn (UTC) to Mr. Larry Rosenmann (NYSDEC), confirmed agreement on Hydropunch locations, depth, and number of groundwater samples. Total sampling depths for the two downgradient borings (north and northwest of the former tanks) were modified to 34 feet bgs. Three groundwater samples were collected from these two borings; one sample each from approximately 10 to 14 feet bgs, 20 to 24 feet bgs, and 30 to 34 feet bgs. The total sampling depths of the remaining three borings (west and south of the former tank locations) were modified to 24 feet bgs. Two groundwater samples were collected using Hydropunch techniques from borings HP-08 and HP-09 from approximate depths of 10 to 14 feet bgs and 20 to 24 feet bgs. Three groundwater samples were collected using Hydropunch techniques from boring HP-10 from approximately 2 to 4 feet bgs, 10 to 14 feet bgs, and 20 to 24 feet bgs.

All Hydropunch groundwater samples were collected and shipped via overnight courier using chain-of-custody procedures to Accutest Laboratories in Dayton, New Jersey. Each sample was analyzed for VOCs using USEPA SW-846 method 8260. In addition, after each boring was drilled a grab groundwater sample was collected for total and dissolved metals analysis using USEPA SW-846 method 6010. Metals analyzed include arsenic, chromium, iron, lead, manganese, nickel, and selenium.

One Hydropunch location (HP-07) was identified in the December 2001 RFI Investigation Report (EnSafe, 2001) for installation of a shallow groundwater monitoring well. The location was downgradient (northwest) of the former tanks, along Thompson Road. A separate borehole was drilled approximately seven feet south from the original Hydropunch location, and a groundwater monitoring well was installed.

The shallow groundwater well was constructed using a stainless steel riser and 0.010 slot stainless steel screen. A well screen 10 feet in length was installed. A sand filter pack extending from total depth to two feet above the top of the well screen was placed in the annular space between the screen and the borehole. A bentonite seal two feet thick was set on top of the sand pack and the remainder of the boring was grouted to the surface. The well was then completed

with a flush mount, bolt-down steel protective casing and a two foot by two foot concrete pad. Groundwater data are presented in Table 3.2 and presented on Figure 3.2. Copies of laboratory data sheets are included in Appendix B.

Results indicate the northern-most Hydropunch boring HP-06 contains several VOCs in the shallow groundwater sample collected at 10 to 14 feet bgs (Table 3.3). The concentration of *cis*-1,2-DCE in this boring was the highest of all samples collected. TCE was also detected in this sample at the highest concentration of all five borings. 1,1-DCA and 1,1-DCE were also detected in the sample at much lower concentrations. The groundwater sample collected from approximately 20 to 23 feet bgs contained acetone – a common laboratory artifact – *cis*-1,2-DCE, and TCE. The deeper groundwater sample collected at 30 to 34 feet bgs contained only the laboratory artifact acetone. Based on these results, laboratory analytical results suggest that the TCE and *cis*-1,2-DCE detected in the uppermost sampling interval (10 to 14 ft. bgs) were quickly attenuated as concentration in the deeper two sampling intervals decreased dramatically.

Hydropunch boring HP-07 groundwater samples were non-detect for VOCs except for very low estimated concentrations of acetone and *cis*-1,2-DCE in the 10 to 14 feet bgs sample, and methylene chloride in the 20 to 24 feet bgs sample. All USEPA SW-846 method 8260 VOCs were non-detect in the 30 to 32 feet bgs groundwater sample collected from HP-07.

Very minor estimated concentrations of 1,1-DCA, *cis*-1,2-DCE, and TCE were detected in the groundwater sample collected from HP-08 at 14 to 17 feet bgs. The depth interval for samples collected from this boring were altered slightly due to the lack of water infiltrating the temporary screen over the 10 to 13 feet bgs interval. No VOCs were detected in the groundwater sample collected from the 21 to 24 feet bgs interval.

In HP-09, the groundwater sample collected from 10 to 14 feet bgs contained several VOCs including chloroform (estimated concentration), 1,1-DCA, 1,1-DCE, *cis*-1,2-DCE, 1,1,1-TCA, TCE, and vinyl chloride. In the 20 to 24 feet bgs groundwater sample, the VOCs detected included 1,1-DCA and 1,1-DCE (estimated concentrations), and *cis*-1,2-DCE and TCE at concentrations lower than detected in the overlying sample.

Several VOCs were identified in the shallow groundwater sample collected from 2 to 4 feet bgs in Hydropunch boring HP-10. A sample was collected from this perched groundwater interval due to an observed sheen on the 2 to 4 foot interval split spoon sample when retrieved from the boring. Table 3.2 shows concentrations of acetone (laboratory artifact), methyl ethyl ketone, chloroethane, 1,1-DCA, *cis*-1,2-DCE, *trans*-1,2-DCE, ethylbenzene, toluene, 1,1,1-TCA, TCE, vinyl chloride, and xylenes were identified in the sample. 1,1-DCA, 1,1-DCE, *cis*-1,2-DCE, TCE, vinyl chloride, and xylenes were identified in the 10 to 14 feet bgs interval (Table 3.3). Various compounds were identified in the 20 to 24 feet interval but their concentrations were estimated due to the concentrations being lower than the method detection limit for the sample. These compounds include acetone, 1,1-DCA, 1,1-DCE, and *cis*-1,2-DCE. TCE was also detected. Estimated concentrations of acetone, 1,1-DCA, and *cis*-1,2-DCE were identified in the duplicate sample collected from the 20 to 24 feet bgs interval at concentrations lower than detected in the overlying sample.

The trip blank, equipment blank, and field blanks associated with the Hydropunch samples contained minor concentrations of chloroform. The chloroform is thought to have originated from the water source used for these samples and is a by-product of the chlorination process.

Sample results from MW-19 identified estimated concentrations of chloroform, *cis*-1,2-DCE, and TCE. Concentrations of chloroform, *cis*-1,2-DCE, and TCE are below their respective NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitation of 7 µg/L, 5 µg/L, and 5 µg/L, respectively.

Currently, the storm sewer lines located immediately west of the Hydropunch locations and east of MW-19 are exerting influence on the shallow groundwater in this area, as indicated by potentiometric surface maps of the facility (see *Release Assessment Report, January 17, 2000* for more information on influence of storm sewer system on shallow groundwater). The shallow groundwater flow direction is toward the storm sewer lines at SWMUs 5 and 6. Deep groundwater flows to the north-northwest across the site. The case for capture of shallow groundwater by the storm sewer is supported by the fact that low concentrations of facility-associated VOCs were detected in newly installed well MW-19, immediately downgradient of

the former tanks and that facility-associated VOCs are non-detect in wells MW-10 and MW-6 downgradient of the SWMU 5 and 6 area.

Metals in Groundwater Discussion

Dissolved and total metals samples were collected from each Hydropunch boring installed at SWMUs 5 and 6. Metals samples were collected after the deepest groundwater sample was collected for VOC analysis and all drilling equipment was removed from the boring. No attempt was made to minimize the turbidity of the groundwater recovered as the study's focus was the comparison of total metals concentrations versus filtered (dissolved) metals concentrations in the groundwater of this area. Samples were collected using a dedicated disposable bailer and nylon cord. Samples were subsequently placed in laboratory-provided plastic containers which were preserved for total metals analysis and unpreserved for dissolved metals analysis. The laboratory filtered and subsequently preserved the dissolved metals sample after arrival.

In all five locations, the total metals sample contained the highest concentrations of each constituent; which is directly related to the turbidity of the collected sample. Samples were collected shortly after removing drilling equipment from the borehole which mobilized the silt and silty clay into suspension in the groundwater creating high turbidity in each of the samples. and samples were arsenic, chromium, iron, lead, manganese, and nickel were detected in the total metals sample from each boring (Table 3.5C). Concentrations of all these constituents from each of the borings are above their respective New York State Ambient Water Quality Standards and Guidance Values (NYSAWQSGV) for groundwater. The filtered or dissolved metals sample for the five locations displayed drastically reduced concentrations of each constituent. Arsenic (HP-06 and HP-10), iron (HP-06 and HP-10), lead (HP-06), and manganese (HP-06 through HP-10) were detected in the filtered samples at low concentrations (Table 3.5C). All arsenic concentrations in the filtered samples are well below the New York State Ambient Water Quality Standard and Guidance Value (NYSAWQSGV) of 25 µg/L for groundwater. Iron concentrations in HP-06 and HP-10 filtered samples are below the NYSAWQSGV of 300 µg/L. The lead detection in the filtered sample from HP-06 is below the NYSAWQSGV of 25 µg/L. Manganese in filtered samples from only borings HP-08 and HP-09 exceeds the NYSAWQSGV of 300 µg/L.

Results also indicate that total metals concentrations of chromium, iron, lead, and manganese were detected in MW-19 (Table 3.5C). Arsenic, nickel, and selenium concentrations were below method detection limits. Chromium and lead concentrations do not exceed their respective NYSAWQSGVs. Iron and manganese concentrations in MW-19 do exceed their respective NYSAWQSGVs. The sample collected from this well contained low turbidity and Carrier believes that the iron and manganese concentrations are inherent in the groundwater system at the site.

Carrier believes the groundwater metals issue at SWMUs 5 and 6 has been comprehensively studied and thus proposes no further recommendations for collecting groundwater samples for selected metals analysis at the site.

Table 3.5C
Hydropunch Groundwater Metals Analytical Results

Hydro-punch ID	Lab Sample ID	Sample Date	Arsenic	Chromium	Iron	Lead	Manganese	Nickel	Selenium
Hydropunch #6	CARGHP0601 (total)	6-25-02	811	2,560	3,990,000	2,160	182,000J	4,320	<250
	CARGHP0601 (dissolved)	6-25-02	7.8	<10	115	3.5	59.8	<40	<5.0
Hydropunch #7	CARGHP0701 (total)	6-26-02	578	1,850	2,640,000	1,250	108,000	2,870	<130
	CARGHP0701 (dissolved)	6-26-02	<5.0	<10	<100	<3.0	130	<40	<5.0
Hydropunch #8	CARGHP0801 (total)	6-27-02	151	591	660,000	306	17,300	765	<20
	CARGHP0801 (dissolved)	6-27-02	<5.0	<10	<100	<3.0	1,360	<40	<5.0
Hydropunch #9	CARGHP0901 (total)	6-28-02	294	1,350	1,600,000	796	45,400	1,990	<25
	CARGHP0901 (dissolved)	6-28-02	<5.0	<10	<100	<3.0	1,380	<40	<5.0
Hydropunch #10	CARGHP1001 (total)	7-01-02	461	2,340	2,300,000	1,040	54,900	2,300	<100
	CARGHP1001 (dissolved)	7-01-02	6.8	<10	196	<3.0	144	<40	5.4
MW-19	CARGMW1901 (total)	6-28-02	<5.0	20.7	19,000	13.9	542	<40	<5.0
	CARGMW1901 (dissolved)	6-28-02	<5.0	<10	<100	<3.0	152	<40	<5.0

Notes:

All results are reported in micrograms per liter (µg/L)

Samples are grab samples from water infiltrating into Hydropunch boring after removal of drilling equipment.

BOLD indicates detections above method detection limits.

Filtered (or dissolved) metals samples were filtered and subsequently preserved at analytical laboratory.

3.4 PSA-2

NYSDEC Comment 4: The extent and nature of contamination reported in the area of PSA-2, (Hydrogeologic Evaluation; Carrier Corporation, Syracuse New York January 1991 boring B-2) must be assessed. This should include an investigation into the possible origin of this contamination.

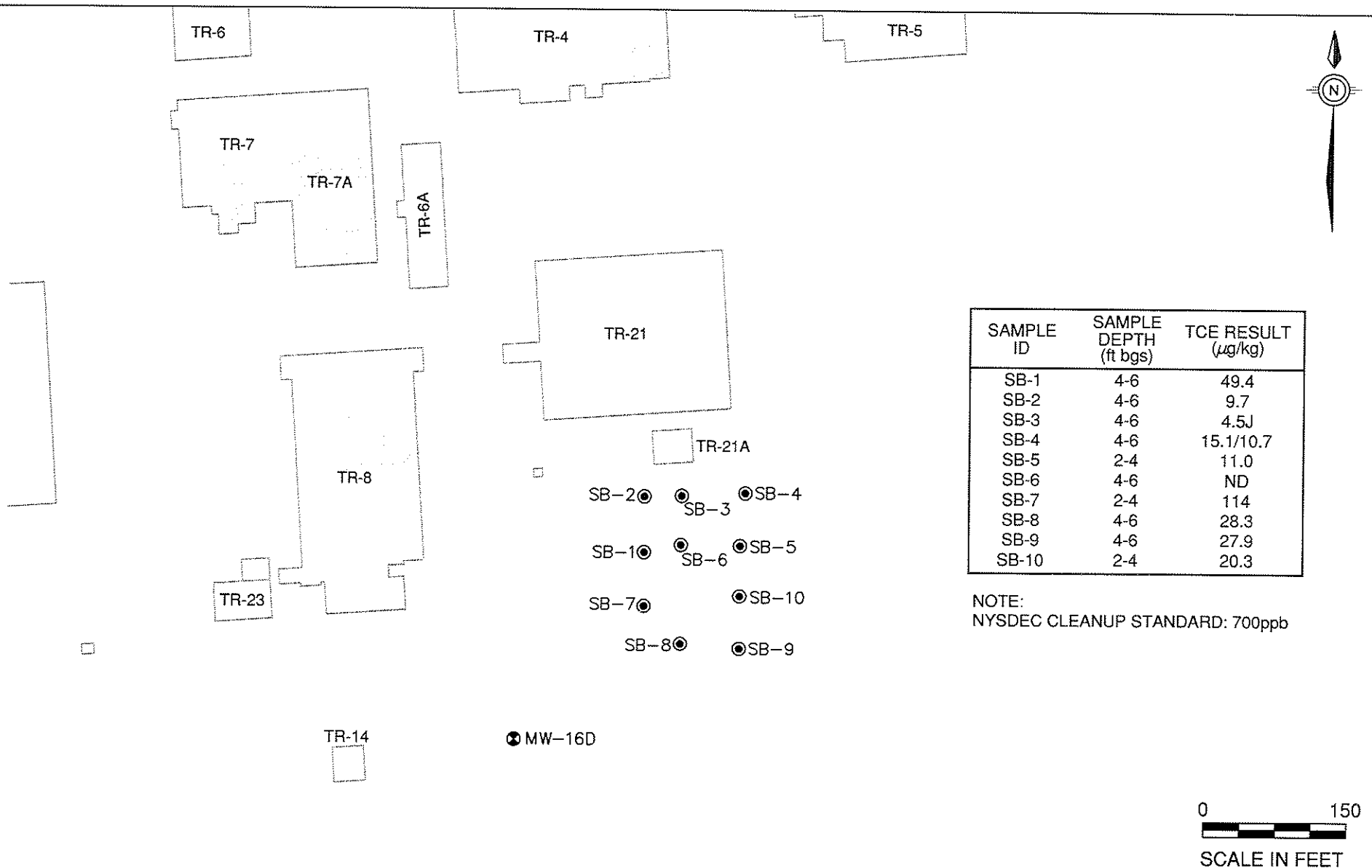
During a hydrogeologic evaluation conducted by Blasland, Bouck, and Lee, halogenated VOCs were found in soil boring B-2. This soil boring encountered a local confining layer and was terminated at 22 feet. Vinyl chloride was detected at two depths (89 ppb at 15 to 17 feet and 200 ppb at 20 to 22 feet). Two compounds were detected in the soil sample from the local clay confining unit at 20 to 22 feet: 1,1-dichloroethane (130 ppb) and 1,1,1-trichloroethane (33 ppb).

To determine the possible origin of groundwater contamination in B-2, a shallow soil investigation with a DPT rig was undertaken as part of the RFI. Ten DPT soil borings were advanced at locations shown on Figure 3.6. The borings were continuously sampled for lithology to the water table. Soil samples were screened for VOCs at 2-foot intervals using a photoionization detector (PID). One sample from each boring was sent to an offsite laboratory for VOC analysis. The field screening data were used to determine which sample from each boring was retained for laboratory analysis. However, if field-screening data did not indicate the presence of VOCs, the bottom most soil sample was submitted to the laboratory for analysis. In most cases, the bottom-most sample was used.

VOCs concentrations are also shown on Figure 3.6. The only VOC detected in any sample was TCE. No VOCs were detected in sample SB-6. TCE was detected in all other borings at concentrations ranging from 4.5 $\mu\text{g/kg}$ to 114 $\mu\text{g/kg}$. These concentrations are below the New York soil cleanup objectives protective of groundwater (700 $\mu\text{g/kg}$) and the New York soil cleanup objective concentrations (also 700 $\mu\text{g/kg}$).

June 2002 Investigation and Sampling

No additional investigation or sampling was required in this area as part of the June 2002 RFI activities.



LEGEND

TR-2	— BUILDING
⊗	— MONITORING WELL/PIEZOMETER LOCATION
⊙	— DPT BORING LOCATION
49.4	— TCE CONCENTRATION (IN $\mu\text{g}/\text{kg}$)
—	— FORMER RAILROAD SPUR LOCATION
ND	— NOT DETECTED ABOVE METHOD REPORTING LIMIT

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FIGURE 3.6
 PSA 2 SOIL SAMPLE LOCATIONS
 CARRIER CORPORATION
 SYRACUSE, NEW YORK

DATE: 09/27/02

DWG NAME: 3133057R013

3.5 Source of PCBs in Sanders Creek

NYSDEC Comment 5: The NYSDEC sediment sampling program in 1996 and 1997 suggests that Carrier may be the source of elevated PCB levels found in Sanders Creek. The RFI must characterize this contamination and determine if Carrier is the source.

In November 1996, two sediment samples (L17, L18) were taken by NYSDEC in Sanders Creek downgradient of the Carrier facility. Aroclor-1260 was present in L18. In October 1997, the NYSDEC performed a second round of sediment sampling in Sanders Creek. Seven sediment samples (L101, L102, L103, L104, L105, L106, and L113) were collected both upgradient and downgradient of the Carrier facility (see Detail 1 and 2 of Figure 3.7). Three PCBs were detected in these sediment samples aroclor-1016, aroclor-1254, and aroclor-1260 (Table 3.6). In December 2000, EnSafe collected four upgradient sediment samples (SD01 to SD04) from Sanders Creek (see Detail 1 of Figure 3.7) to determine if upgradient sediments contained PCBs, and if so, their possible source. The samples were collected using a decontaminated hand auger from two discrete zones ranging from 0 to 6-inches and 6 to 12-inches below ground surface. Each sample was homogenized using a decontaminated spoon and bowl prior to being placed in the sample container. Analytical results from these samples did not indicate the presence of PCBs (Table 3.6).

<p align="center">Table 3.6 Summary of Sediment Sampling In Sanders Creek (All results in mg/kg)</p>					
Sediment Sample ID	PCBs			TOC	Sampled by:
	Aroclor-1016	Aroclor-1254	Aroclor-1260		
MH-39	ND	ND	1.27	NA	EnSafe, 07-2001
MH-76	ND	ND	10.2	NA	EnSafe, 07-2001
MH-77	ND	0.437	0.477	NA	EnSafe, 07-2001
MH-97	ND	0.441	0.38	NA	EnSafe, 07-2001
MH-101	ND	ND	ND	NA	EnSafe, 07-2001
MH-102	ND	ND	0.105	NA	EnSafe, 07-2001
MH-115	ND	ND	0.964	NA	EnSafe, 07-2001
MH-116	ND	ND	0.411	NA	EnSafe, 07-2001
MH-256	ND	0.0798	0.062	NA	EnSafe, 07-2001
001 (0-6")	ND	ND	1.4	NA	EnSafe, 07-2001
002 (0-6")	ND	ND	ND	NA	EnSafe, 07-2001
(6-12")	ND	ND	ND	NA	

Table 3.6
Summary of Sediment Sampling In Sanders Creek
(All results in mg/kg)

Sediment Sample ID	PCBs			TOC	Sampled by:
	Aroclor-1016	Aroclor-1254	Aroclor-1260		
03 (0-6") (6-12")	ND	ND	0.27	NA	EnSafe, 07-2001
	ND	3.66	ND	NA	
04 (0-6") (6-12")	ND	ND	0.8	NA	EnSafe, 07-2001
	ND	ND	0.468	NA	
05 (0-6") (6-12")	ND	ND	ND	NA	EnSafe, 07-2001
	ND	ND	1.18	NA	
006 (0-6")	ND	ND	0.603	NA	EnSafe, 07-2001
007 (0-6")	ND	ND	2.22	NA	EnSafe, 07-2001
008 (0-6") (6-12")	ND	ND	0.65	NA	EnSafe, 07-2001
	ND	ND	0.046	NA	
CARSSD0000	ND	ND	ND	4,300	EnSafe, 12-2000
CARSSD0100	ND	ND	ND	7,900	EnSafe, 12-2000
CARSSD0101	ND	ND	ND	7,800	EnSafe, 12-2000
CARSSD0200	ND	ND	ND	3,900	EnSafe, 12-2000
CARSSD0201	ND	ND	ND	3,700	EnSafe, 12-2000
CARSSD0300	ND	ND	ND	10,000	EnSafe, 12-2000
CARSSD0301	ND	ND	ND	3,500	EnSafe, 12-2000
CARSSD0400	ND	ND	ND	3,800	EnSafe, 12-2000
CARSSD0401	ND	ND	ND	4,900	EnSafe, 12-2000
CARMSD0400	ND	ND	ND	9,600	EnSafe, 12-2000
L17	ND	ND	ND	NA	NYSDEC, 11-1996
L18	ND	ND	0.016 J	NA	NYSDEC, 11-1996
L101	ND	ND	ND	K	NYSDEC, 10-1997
L102	0.034 JP	2.133 D	7.4 D	33,900 K	NYSDEC, 10-1997
L103	0.068 PJN	1.8 D	7.9 D	24,900 K	NYSDEC, 10-1997
L105	ND	ND	ND	20,700 K	NYSDEC, 10-1997
L113	NA	NA	NA	NA	NYSDEC, 10-1997

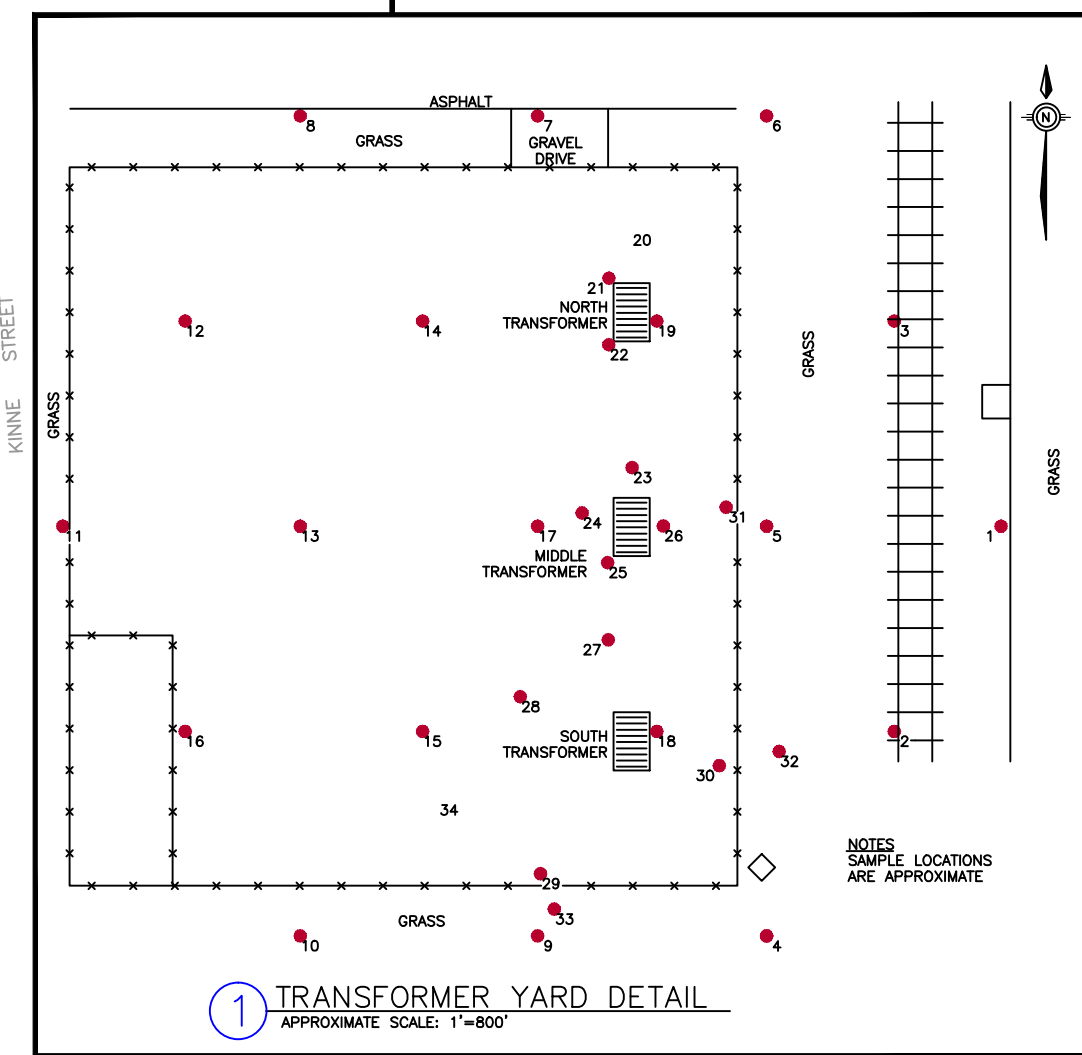
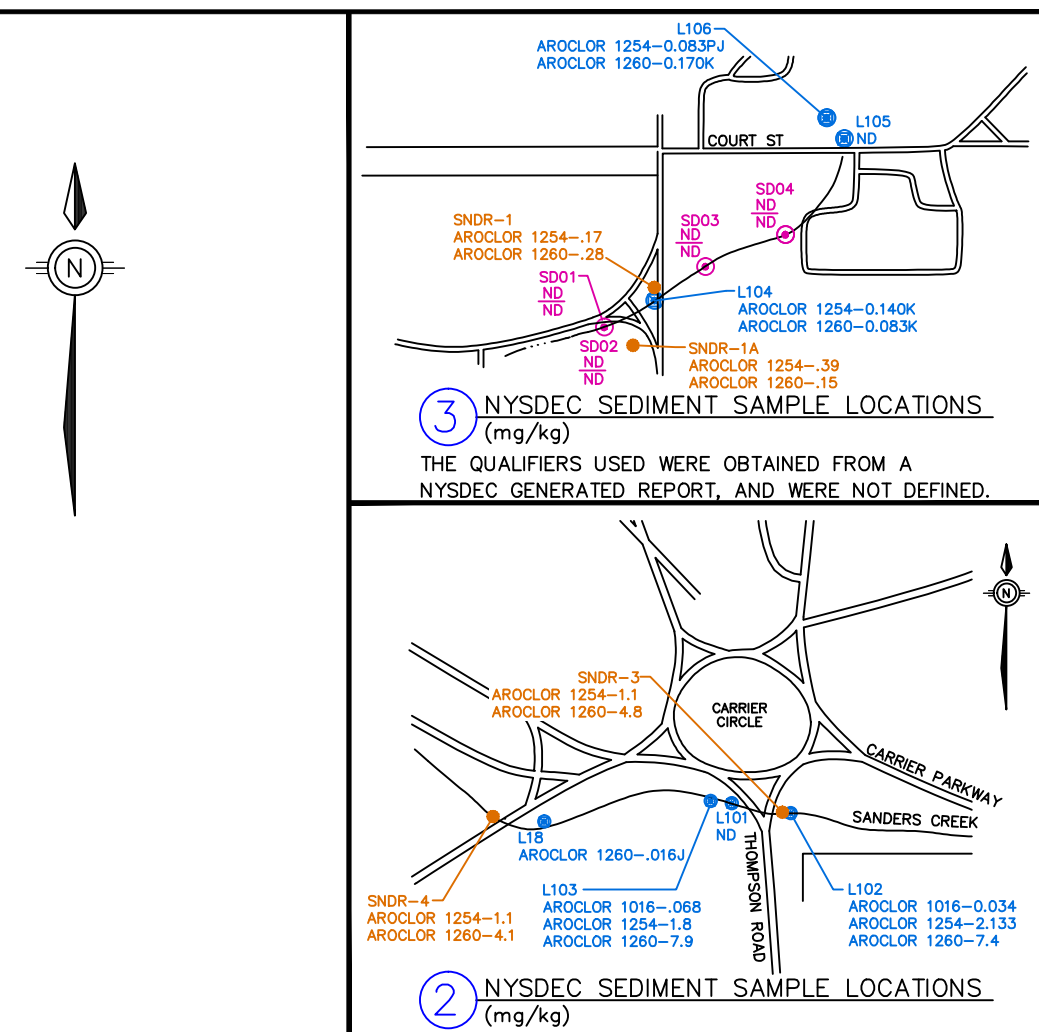
Notes:

NA — Not Available

ND — Not Detected

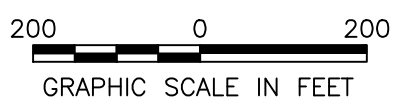
U — The material was analyzed, but the parameter was not detected above the listed quantitation limit.

PJ, K — The NYSDEC data presented in this table is from a report entitled "Onondaga Lake NPL Site Tributary Sampling First Round Report, Onondaga Lake NPL Site Remedial Program" New York State Department of Environmental Conservation, October 1997 and sampling data collected in 1998. These qualifiers are not defined.



NOTE
ALL SAMPLE RESULTS PRESENTED IN PPM.

- LEGEND**
- BUILDING
 - STORM SEWER AND SIZE
 - NS MANHOLE NOT SAMPLED DUE TO LACK OF SEDIMENT/EQUIPMENT OVER LOCATION
 - NA MANHOLE NOT SAMPLED (COULD NOT LOCATE)
 - ND CONCENTRATIONS OF PCBs WAS BELOW METHOD DETECTION LIMITS
 - MH ○ MANHOLE
 - MH103 ○ MANHOLE SAMPLED (mg/kg)
 - SEDIMENT SAMPLE LOCATION (mg/kg)
 - (0-6') SAMPLE INTERVAL
 - (6-12') SAMPLE INTERVAL
 - CRAYFISH SAMPLE LOCATION (2003)
 - NYSDEC SEDIMENT SAMPLE LOCATION (ONADAGA LAKE NPL SITE)
 - TRIBUTARY SAMPLING, NYSDEC 1998 DATA
 - K DESCRIPTOR ON NYSDEC LAKE ONADAGA STUDY
 - DEFINTION UNKNOWN



ROUND I (mg/kg) 5/15/96 TO 6"		ROUND II (mg/kg) 6/27/96 TO 6"		ROUND III (mg/kg) 7/12/96		CONFIRMATION SAMPLES 7/12/96		CONFIRMATION SAMPLES 8/19/96	
SAMPLE I.D.	PCB RESULTS (AROCLOR 1260)	SAMPLE I.D.	PCB RESULTS (AROCLOR 1260)	SAMPLE I.D.	PCB RESULTS (AROCLOR 1260)	SAMPLE I.D.	PCB RESULTS (AROCLOR 1260)	SAMPLE I.D.	PCB RESULTS (AROCLOR 1260)
1	ND	20	6	31	1500	30	440	29	<1
2	1	21	ND	32	8		810	30	<1
3	1	22	33	33	1	18	9200	31	23
4	1	23	ND	34	440		2600	18	47
5	ND	24	11			27	34	27	<1
6	ND	25	3				26		
7	ND	26	290						
8	ND	27	240						
9	1	28	31						
10	ND	29	9500						
11	ND	30	1300						
12	ND								
13	1								
14	ND								
15	7								
16	ND								
17	1								
18	3600								
19	4								

SOURCE:
PHILLIPS & ASSOCIATES
SURVEYORS P.C.
LIVERPOOL, NEW YORK
(FILE 2700.001)

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VIRGINIA SLOVAKIA

FIGURE 3.7
PCB MAP
CARRIER CORPORATION
SYRACUSE, NEW YORK
DWG DATE: 07/15/03 DWG NAME: 3133057R014

The July 2001 RFI focused on two areas of investigation in an effort to better ascertain and determine the potential source and scope of PCBs in the Sanders Creek sediments was the Transformer Yard which is shown on Figure 3.7.

1. In 1995, as part of Carrier's Leak Inspection Program in 1990, several transformers in the Transformer Yard were identified as having leaks. Remedial activities involved repairing and cleaning the transformers and excavating PCB-contaminated soil as follows:
 - Previously, the transformers were repaired and were reclassified as non-PCB-containing as part of a retrofill project. The mineral oil in the transformers were resampled and contained PCBs ranging from 9 ppm to 29 ppm.
 - The contaminated gravel and soil were removed and the concrete bases of the transformers were cleaned.
 - Two composite samples were obtained from the area of suspected PCB contamination. Analytical results showed these samples to contain 52 mg/kg and 61 mg/kg PCBs. Contaminated soil was excavated and stockpiled in the Transformer Yard. The soil was placed in a container and properly disposed of Figure 3.8 shows the approximate layout of the Transformer Yard and the original excavation area.
 - In 1996, a sampling plan based on the *EPA Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup* was prepared, and soil confirmation soil samples were collected from the Transformer Yard, as shown on Figure 3.7. The sampling locations and results are summarized in Table 3.7. PCB-contaminated soil estimated at a depth of 1 to 2 feet (totaling approximately 242 cubic yards) was removed and disposed of at the CWM landfill in Model City, New York.

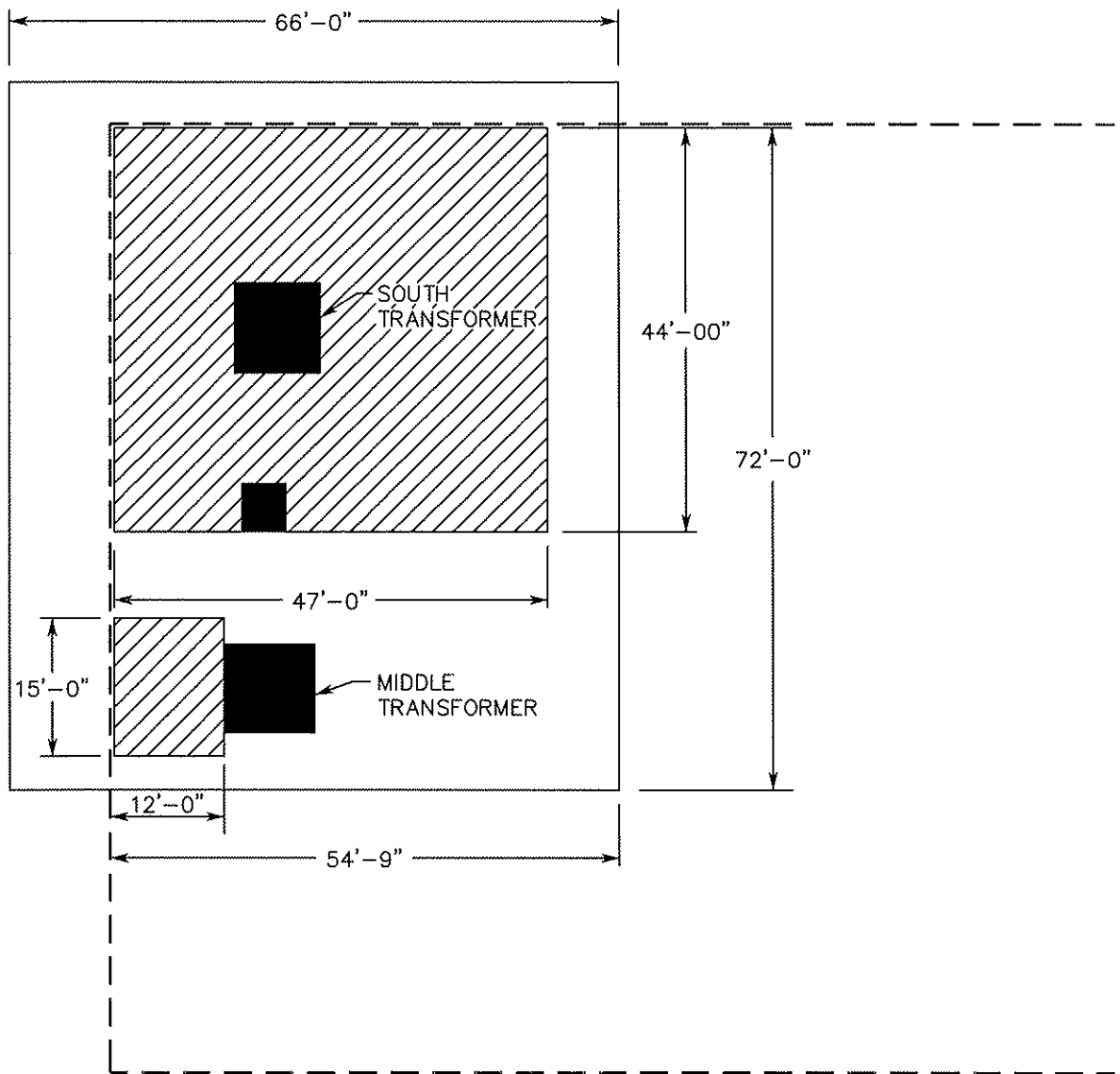
To investigate whether the Transformer Yard is a possible source of PCBs to the storm water systems, sediment samples were sampled from select onsite manholes. The nine manholes containing enough sediment to be sampled are identified on Figure 3.7 MH-39,



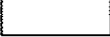

Table 3.7
Summary of Soil Sampling in Transformer Yard
(All results mg/kg Aroclor 1260)

Round I 5/15/96		Round II 6/27/96		Round III 7/12/96		Confirmation Samples 7/12/96			Confirmation Samples 8/23/96	
Location	PCB	Location	PCB	Location	PCB	Location	Depth	PCB	Location	PCB
1	ND	11	ND	20	6	31	1500	18	18	47
								12"		
								18"		
2	1	12	ND	21	ND	32	8	27	27	<1
								12"		
								18"		
3	1	13	1	22	2	33	1	30	29	<1
								12"		
								18"		
4	1	14	ND	23	ND	34	440		30	<1
5	ND	15	7	24	11				31	23
6	ND	16	ND	25	3					
7	ND	17	1	26	290					
8	ND	18	3600	27	240					
9	1	19	4	28	31					
10	ND			29	9500					
				30	1300					

* Round I and II samples were collected from a depth of 6 inches.



LEGEND

-  1-FOOT EXCAVATION
-  ADDITIONAL EXCAVATION

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 LITTLE ROCK, AR JACKSON, MS CLEVELAND, OH

FIGURE 3.8
 SOIL EXCAVATION IN TRANSFORMER YARD
 CARRIER CORPORATION
 SYRACUSE, NEW YORK

DATE: 09/23/02

DWG NAME: 13/3057R015

MH-76, MH-77, MH-97, MH-101, MH-102, MH-115, MH-116, and MH-256. One manhole proposed for sampling in the RFI Work Plan could not be sampled due to lack of access (MH-007A). Three manholes could not be sampled due to the lack of sediments (MH-9, MH-78, and MH-103). The proposed manholes were chosen because they appear to either collect storm water runoff from the Transformer Yard area or were the last manhole throughout which storm water from this area flows prior to treatment and discharge to Sanders Creek.

Samples were collected by lowering a stainless-steel spoon or hand auger attached to steel hand-auger pole extensions into the manhole and collecting any sediment present.

When sufficient sample volume was obtained, each sample was homogenized in a stainless-steel bowl prior to transferring the soil from the bowl to the individual sample container. All sampling equipment was decontaminated according to methods and procedures outlined in the RFI Work Plan.

PCB sampling results shown on Figure 3.7 indicate both aroclor 1254 and aroclor 1260 are present at low concentrations in some of the manholes. Aroclor 1254 was identified in a select number of manholes with concentrations ranging from 0.079 mg/kg to 0.441 mg/kg. Aroclor 1260 concentrations were detected in all samples with concentrations from 0.062 mg/kg to 10.2 mg/kg. All concentrations except the concentration of 10.2 mg/kg at MH-76 are below 1 ppm.

2. The second area of investigation focused on sediment sampling in Sanders Creek, primarily because of the results of NYSDEC sampling downgradient of the Carrier facility as described above.

Eight locations in and adjacent to Sanders Creek along the Carrier facility northern property were sampled for PCBs. These locations were identified and agreed upon during an earlier site visit between personnel from the Carrier facility, NYSDEC, and EnSafe. Sediment samples were collected from the 0 to 6-inch depth interval and, where possible, from the 6 to

12-inch depth interval at each location. Both depth intervals were sampled at five of the eight locations. Figure 3.7 shows their locations. Samples were collected with either a stainless steel spoon/trowel at locations within the stream or with a stainless-steel hand auger for locations away from the stream. All samples were homogenized using a stainless-steel spoon and bowl prior to placing them in the sample container. The sampling equipment was decontaminated before collecting each sample using the procedures outlined in the RFI Work Plan.

Low concentrations of PCBs were detected within the sediment in Sanders Creek near the former storm sewer outfalls from the facility. Concentrations range from 0.046 mg/kg in sample 008 from 6 to 12 inches to 3.66 mg/kg in sample 003 from 6 to 12-inches. These concentrations are in the same range as those previously identified by NYSDEC downstream in Sanders Creek. The average concentration of the 12 samples collected in and adjacent to the creek is less than 1 ppm. Table 3.6 summarizes the analytical results from all manhole and Sanders Creek sampling events, starting with the most recent sampling event.

As part of the Carrier facility permit, select groundwater monitoring wells at the facility are sampled semiannually for PCBs and other constituents. These samples were collected during the RFI field activities. The monitoring network includes MW-1, MW-3S, MW-3D, MW-5, and MW-6. No PCBs were detected in the groundwater samples collected from these wells during the RFI.

Based on the findings of manholes in the storm sewer system, Carrier will undertake source-control measures to remove sediments in the storm water lines and manholes shown on Figure 3.9. These lines will be cleaned using a high-pressure, hot-water washer and commercially available concrete cleaner such as Kleen Green. After they are cleaned, sediments (if present) from the manholes MH-76 and MH-9 will be sampled annually for two years and analyzed for PCBs to determine if the Transformer Yard is a continual source of contamination of PCBs to Sanders Creek. If no sediments are present in the designated manhole, then a sample will be taken from the next manhole upstream in which sediments are present. If the PCB concentrations in sediments of the selected manholes exceed 1 ppm,



an evaluation will be done to determine if further action is necessary. However, if after two years, PCB concentrations are less than 1 ppm, no further actions will be taken.

Because the soils in the Transformer Yard were cleaned to federal guideline at the time of 50 ppm and not the NYSDEC guideline of 10 ppm, Carrier will evaluate potential remedies for the Transformer Yard, which may include deed restrictions on its use.

June 2002 Investigation and Sampling

No additional investigation or sampling was required in this area as part of the June 2002 RFI activities.

3.6 Carrier-DeWitt Landfill

Comment 6: In a November 9, 1998, letter, Catherine E. Moyik of the USEPA determined that Superfund had completed its assessment at the Carrier-DeWitt Landfill and that no further remedial action was required under CERCLA. However, the May 1987 Phase I Investigation of the same landfill recommended that, "test pits and soil sampling be done to identify waste characteristics," and to the best of our knowledge, these have never been done. While we understand that test pits into the waste may no longer be possible or appropriate, Carrier must conduct an investigation of the site that will assess the nature and extent of any potential impacts to the environment posed by this site.

The landfill was not invasively investigated as part of the initial RFI field activities. A Freedom of Information Act request submitted to USEPA's offices revealed only one document on file pertaining to this facility prepared by Wehran Engineering, P.C. for the NYSDEC – Engineering Investigation at Inactive Hazardous Waste Site in the State of New York, Phase I investigations, Carrier-DeWitt, DeWitt, Onondaga County, New York, Site Code: 734005, May 1987. A search of Carrier's facility files identified the following (included in Appendix E):

- Boring logs – These 1949 borings were advanced when Carrier was selecting a location for a new building – ultimately the TR-2 facility. These boring logs indicate that the parking lot fill was essentially sand, gravel, clay and brick. The borings indicate that the virgin soil is predominantly yellow sand in this area.



- Aerial photos – The 1979 aerial photo indicates the areas where construction debris from the TR-4 renovation and TR-21 construction was placed, predominantly south and west of the parking lot. The main debris pile is located in an area that is now the oil-change business and the Goodyear tire business. That material was removed prior to the construction of the buildings that currently exist on that site.

The yellow sand indicated as the top soil layer in the boring logs from the area appears to be visible in the aerial photos in the unvegetated areas of this landfill. This area was also used in winter time as a location to which Carrier trucked snow from inside the Thompson Road facility and plowed snow from Parking Lot A when the heavy winter snows made removal from inside the fence line necessary.

The rectangular yellow building at the bottom right of the photo is on property that Carrier's 1970 records indicate belonged to Onondaga County Sanitary Sewer and Public Works Commission. Notable also is the use of the Carrier property for access to the building. Some of the debris that is visible today includes asphalt from a road with a thick yellow strip, consistent with public roads, but inconsistent with either parking lot or internal roadways on the Carrier Thompson Road facility. Other piles include some extremely thick concrete with very heavy reinforcing steel. The appearance of some of the debris, coupled with the property ownership issue, suggests that some highway construction debris from the county may have been deposited in this area.

Other debris piles appear to be consistent with Carrier's "hard fill" use of the property including concrete, concrete block, asphalt material, and similar materials.

- Topographical map – The 1958 map of the parking lot and areas south and west indicates that no significant filing of the area has occurred. This is consistent with Carrier's knowledge of the use of this area as a location to dispose of construction debris in the 1970s.

The piles of debris that remain today and that are visible in the area west of the south end of the parking lot are concrete, asphalt and similar “hard fill” materials (see Figure 3.10). Visually comparing the current condition of this area with the topographical map supports Carrier’s contention that piles of hard fill were disposed of in this area.

Carrier proposed up to four surface water locations – along the toe of the fill area – be sampled for VOCs and analyzed using SW-846 Method 8260, consistent with other VOC sampling performed at the site.

June 2002 Investigation and Sampling

Two surface water samples were collected on June 24, 2002 from two distinct areas of the Carrier-DeWitt Landfill, across Thompson Road from the Carrier facility. EnSafe, UTC-Carrier, and NYSDEC personnel identified and concurred on each sampling location (Figure 3.10B). A total of four locations were initially slated for sampling. Because the proposed sampling locations were inaccessible due to heavy vegetation, an NYSDEC representative, Mr. Larry Rosenmann, agreed to a modification of the work plan and allowed sampling to be conducted at two locations. . Follow-up correspondence dated July 10, 2002, from Mr. Bill Penn (UTC) to Mr. Larry Rosenmann (NYSDEC), confirmed changes to the sampling locations and number of locations sampled.

The first water sample was collected from a western area of the landfill, west of the southwestern corner of the former employee parking area, in the immediate area of the fill area referenced in the 1987 NYSDEC report. The actual sampling location was heavily overgrown and near several concrete and asphalt debris piles. The sample was collected from one edge of a large pool of water. This sample was analyzed for VOCs using USEPA SW-846 method 8260 and found to contain only low concentrations (8.2 µg/L) of toluene (Table 3.8), which is not a contaminant of concern associated with this site.. No further action is required.



Table 3.8 Carrier-DeWitt Landfill Summarized Surface Water Analytical Results			
Sample ID	Sample Location	Date Collected	Toluene
CARWSW0101	SW01	6-26-02	8.2
CARWSW0201	SW02	6-26-02	ND





SOURCE:
CARRIER CORPORATION-SYRACUSE, NEW YORK 1958
1958 Central Production Staff Division, Plant Engineer
Dep't Topographic Map West of T.R. & South of
Cavallaro, and 1979 Aerial Photo of Facility.

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FIGURE 3.10B
SURFACE WATER SAMPLING LOCATIONS
CARRIER-DEWITT LANDFILL
SYRACUSE, NEW YORK

DWG DATE: 09/27/02 | DWG NAME: 3133057R021

3.7 Indoor Air Monitoring

Indoor air monitoring will be conducted to address VOC-contaminated groundwater that is present beneath the facility. Carrier will collect up to two air samples in each of the TR-18S and TR-18 buildings (see Figure 3.11). The exact sample locations within the building will be determined in the field on the day that the samples are collected. The buildings in which the sample(s) will be collected were selected based on their location relative to the groundwater contaminant plume at SWMUs 1 to 4.

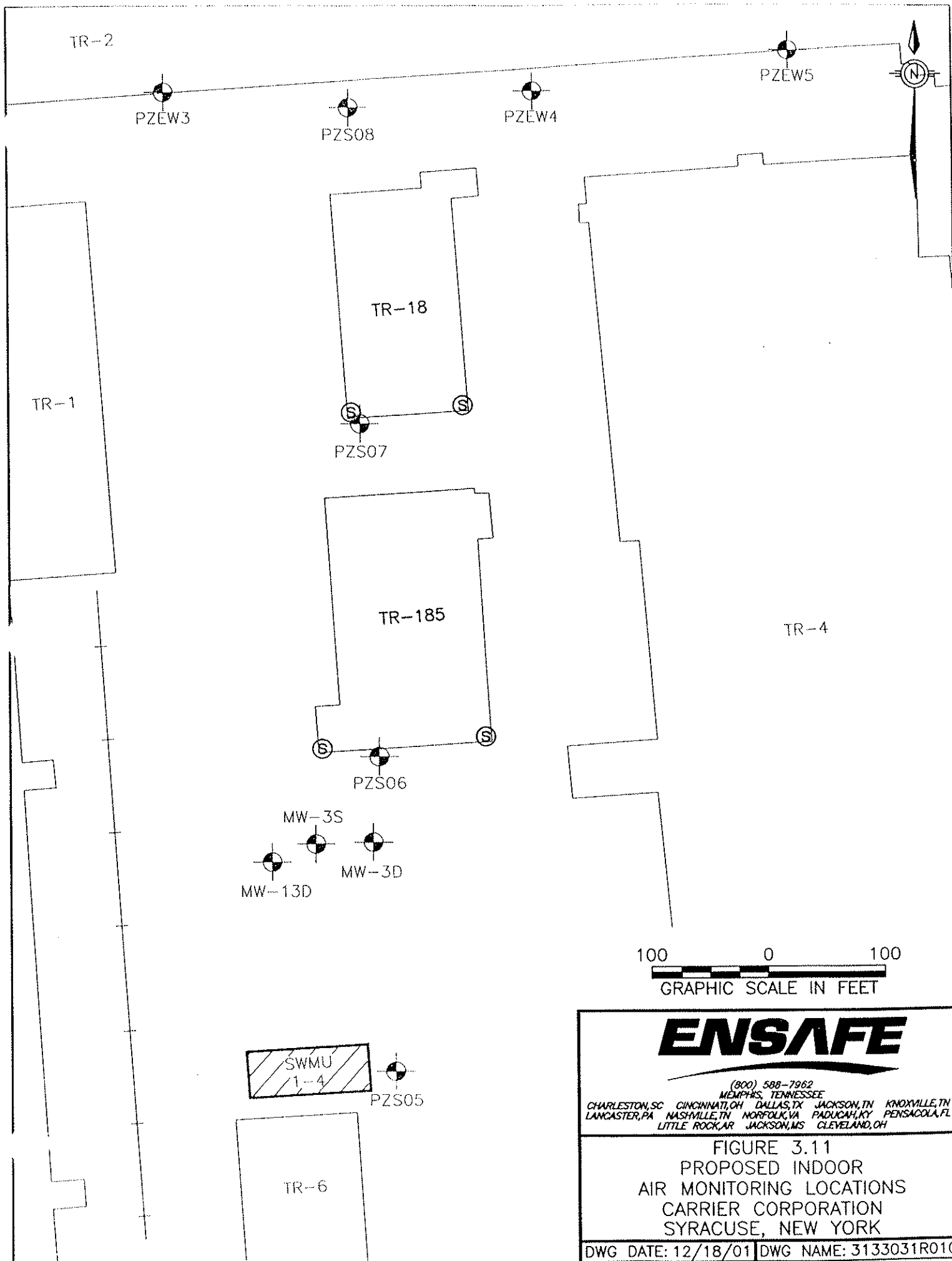
Each of the samples will be collected and analyzed using the Modified EPA Method TO1/TO2. Samples will be collected during the standard work day period of approximately 8 a.m. to 4 p.m. Low-volume sampling pumps and laboratory-provided sample media will be used to collect the samples. All sampling pumps will be calibrated prior to and following sample collection with a primary air-flow meter. The air samples will be regularly checked during the 8-hour sample collection period. Observations related to weather conditions, work activities by others, and other relevant items will be documented. Samples will be submitted with chain-of-custody documentation to a New York-accredited analytical laboratory for analysis.

Samples will be analyzed for the following:

- 1,1-Dichloroethane
- 1,1-Dichloroethene
- *cis*-1,2-Dichloroethene
- *trans*-1,2-Dichloroethene
- Trichloroethene
- Vinyl chloride

For quality control purposes, field blanks will be prepared and submitted along with the samples for laboratory analysis.

The Action Level to which each air contaminant result will be compared will be the Occupational Safety & Health Administration (OSHA) Permissible Exposure Limit (PEL) or the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV). The PEL and TLV are Time-Weighted Average (TWA) values that are based on 8-hour





exposures. The air contaminants, exposure limits, Action Levels, and analytical limits of detection are listed in Table 3.9.

Table 3.9 Air Contaminant Exposure Limits and Limits of Detection		
Air Contaminant	Exposure Limit	Analytical Limit of Detection
1,1-Dichloroethane	PEL/TLV 100 ppm	0.0001 ppm
1,1-Dichloroethene	TLV 5 ppm	0.0001 ppm
<i>cis</i> -1,2-Dichloroethene	PEL/TLV 200 ppm	0.0001 ppm
<i>trans</i> -1,2-Dichloroethene	PEL/TLV 200 ppm	0.0001 ppm
Trichloroethene	TLV 50 ppm	0.00009 ppm
Vinyl Chloride	PEL/TLV 1 ppm	0.0002 ppm

June 2002 Investigation and Sampling

Indoor air quality (IAQ) monitoring was performed in Buildings 18 and 18S. The primary objective of the IAQ monitoring was to provide information to determine if VOCs from contaminated groundwater are present in the work areas of these buildings.

To ensure that interior building conditions represented a worst-case scenario prior to air sampling (i.e., negative pressure), the air handlers for the two buildings (TR-18 and 18S) were operated so that the return air circulation was maximized, thus minimizing fresh air intake. This scenario was thought to maximize negative pressures within the buildings. As was observed by Carrier, UTC, EnSafe, and NYSDEC personnel, the operation of the air system, even under normal conditions (normal fresh air intake), induced a strong negative pressure. Based on these observations and the fact the buildings are surrounded by paved parking area, worst case conditions are thought to have been met.

The indoor air assessment and sampling was performed on June 25, 2002 by Mr. Bill Bradshaw of EnSafe Inc. The areas sampled were the south sides of Buildings TR-18 and TR-18S. A total of four air samples were collected in the areas of concern, as shown on Figure 3.12. Sampling locations were selected by agreement of NYSDEC, Carrier and UTC personnel. Follow-up correspondence dated July 10, 2002, from Mr. Bill Penn (UTC) to Mr. Larry Rosenmann (NYSDEC), confirmed agreement on sample locations.

Samples were collected on VOC thermal desorption tubes and submitted to DataChem laboratories for analysis. Each sample was collected with a SKC industrial hygiene pump calibrated to approximately 1 liter per minute. The samples were blank corrected.

Table 3.10 presents a summary of the target VOC results for the samples collected on June 25, 2002, and compares them to the OSHA permissible exposure limits (PEL). Sample results indicated fugitive contaminant concentrations are orders of magnitude below OSHA PELs.

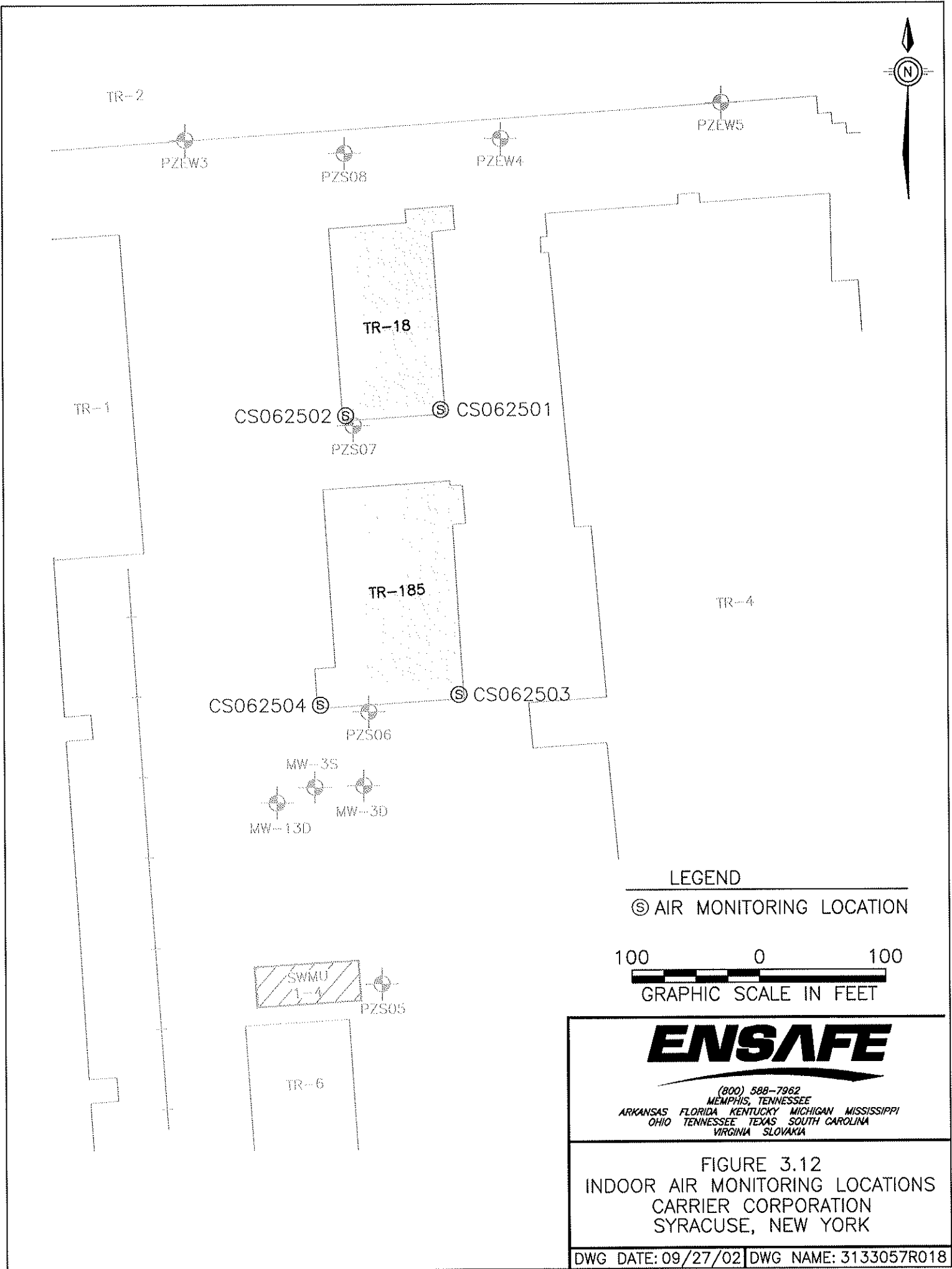
Table 3.10
Detected Analytical Results — Air Quality
June 25, 2002

Sample Location	Sample ID	Volume (Liters)	Target Compound	Measured Concentration	OSHA Permissible Exposure Limit (ppm)	
					ppm,	ug/m ³
Building 18S	CS062501 SE Corner	40.29	Trichloroethene	1.8 ug/m ³	100	546,248
			cis-1,2-dichloroethene	2.2 ug/m ³	200	805,986
Building 18S	CS062502 SW Corner	47.20	Trichloroethene	1.0 ug/m ³	100	546,248
			cis-1,2-dichloroethene	1.8 ug/m ³	200	805,986
Building 18	CS062403 Medical SE	39.90	Trichloroethene	1.0 ug/m ³	100	546,248
			cis-1,2-dichloroethene	5.2 ug/m ³	200	805,986
Building 18	CS062404 Medical SW	33.15	Trichloroethene	ND	100	546,248
			cis-1,2-dichloroethene	2.6 ug/m ³	200	805,986

Notes:

ND = Non-detect; sample is below the laboratory's detection limit for compound.

PPM = Parts per million



4.0 CONCLUSIONS

Recommendations for the five areas investigated as part of this RFI at the Carrier Thompson Road facility are outlined below. The Carrier-DeWitt Landfill is also discussed.

4.1 SMWUs 1 to 4

The groundwater data collected near of SWMUs 1 to 4 suggest that the concentrations of chlorinated solvents have remained relatively consistent during the past two years. The CMS Work Plan will propose additional field testing for the CMS. The CMS will evaluate appropriate remedial technologies to reduce the mass of this contamination in the area of SWMUs 1 to 4.

4.2 Bedding Material Monitoring Wells

Results of the samples collected from the two wells installed as a part of the RFI indicate dissolved concentrations of chlorinated solvents within the bedding material beneath the storm sewer outfalls at the Carrier facility. As discussed in Section 3, chlorinated solvents in these wells exceeded their New York State standards.

Currently, the only wells impacted in this area are MW-17 and MW-18. Concentrations of TCE and other constituents in other wells in the vicinity are non-detect or at much lower levels. Carrier is currently reviewing the capacity of the existing storm water treatment system to evaluate whether the system could be used to treat groundwater recovered from the bedding material as an interim and possibly long term remedial measure. The CMS Work Plan will propose additional field testing for the CMS. This corrective measure will be evaluated in the CMS.

4.3 SWMUs 5 and 6

The borings installed within this area indicate negligible impact to soil. A shallow perched “groundwater” interval was discovered in the former tank area due to the tanks being left in place and backfilled with fill material. The “groundwater” sample had detections of TCE and other VOCs found in groundwater at the facility. Although the sample contained dissolved concentrations of several metals as well as a relatively high pH, these metals are attributed to the suspended materials contained in the turbid water sample. Impacts, if any, appear localized to

this area, because shallow well down gradient to the north (MW-10) does not contain concentrations of the organic compounds identified and has a relatively neutral pH of 7.39 pH units. A deeper Hydropunch boring near MW-10 also did not contain dissolved concentrations of VOCs.

The sampling method used, coupled with the representativeness of the perched "groundwater" sample, suggests that the metals concentrations may be lower than data indicate. As mentioned in Section 3.3, further Hydropunch investigation in the area was planned.

June 2002 Investigation and Sampling

Results from groundwater samples collected from the five Hydropunch borings suggest impact in three boring locations in shallow groundwater. The impact to groundwater in the vicinity of SWMUs 5 and 6 is localized to the northwest corner of Building TR-1 area and relatively shallow as indicated by the results of the Hydropunch sampling. Wells surrounding (side and down-gradient) the SWMUs 5 and 6 area (MW-6 and MW-10) are non-detect for chlorinated solvents. Wells at the northern perimeter of the site (MW-5, MW-12, and MW-15D) do not indicate significant chlorinated solvent impact. The previous Hydropunch borings (HP-01, HP-02, and HP-04) installed north and downgradient of SWMUs 5 and 6 did not detect any impact to groundwater. The impact to groundwater at SMWUs 5 and 6 is localized with no evidence of offsite migration.

Currently, there is a defacto site-wide monitoring well sampling program under which these wells are monitored. At such a time that a formal groundwater monitoring program is established, these wells will be included, which will allow identification of any plume migration from the area. Therefore, no further action is deemed necessary at this time.

Metals concentrations in soils identified in the July 2001 investigation at SWMUs 5 and 6 are within the range of site background concentrations established for the site (June 2002). Therefore, no further action is necessary.

Metals in groundwater identified in Hydropunch borings HP-06 through HP-10 were consistent with those identified in the previous 2001 investigation and are a result of distinct turbidity in the sample created by the drilling process for these boring locations. No further action is warranted for metals concentrations in groundwater at SMWUs 5 and 6.

4.4 PSA-2

The analytical results of soil samples collected from PSA-2 indicate minimal impact to soil from TCE. Although TCE was detected in 9 of 10 soil samples from the area, TCE concentrations in the soil are well below the New York soil cleanup objectives protective of groundwater and are also below the TCE soil cleanup objective. Since all soil data is below the state cleanup objectives, no further action is proposed for soil and groundwater at this location.

4.5 Source of PCBs in Sanders Creek

PCBs detected in Sanders Creek were consistent with the upstream results collected by the NYSDEC. One of the samples from a manhole in the facility had PCB concentrations in excess of one ppm and this data indicates that current and future PCB impact to Sanders Creek is minimal. Carrier will clean the affected storm sewer lines as described in Section 3.5.

Appropriate remedial actions for the PCB contamination will be evaluated in the CMS to ensure that this area will not pose a hazard to human health and the environment in the future.

4.6 Carrier-DeWitt Landfill

June 2002 Investigation and Sampling

Based on the results of surface water sampling at the Carrier-DeWitt Landfill, no further action is necessary.

4.7 Indoor Air Monitoring

Carrier obtained two air samples from Buildings TR-18 and TR-18S to determine if VOC-contaminated groundwater is affecting indoor air quality. All results were below OSHA PELs. Based on the results of this investigation, no further action is necessary.

APPENDIX A

RFI Boring Logs

July 2001

June 2002

APPENDIX A

RFI Boring Logs (July 2001)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/11/2001
Drilling Method : 4.25"
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : 4' DPT sleeves
Boring Location : New Outfall #1

Logged By : J. George

Depth in Feet	Surf. Elev.	% Rec- overy	PID (ppm)	Samples	USCS	GRAPHIC	DESCRIPTION	
0	0							Well: MW-17 Elev.: 36.18
		63	0	1	SP/GP		Sand and Gravel (fill), brown, loose, dry, roots throughout, gravel is angular limestone rock fragments.	
		63	0	2	CL		Gravel (bedding material), gray to dark gray, angular, very little Sand matrix, dry, very loose.	
							Gravel and Sand (bedding material), brown to yellowish-brown, dry, loose, gravel is angular.	Grout
5	-5	75	0	3	ML/SP			
		75	0	4	CL/SP		Sand and Clay, brown, mottled to yellow-brown, sli. moist, roots throughout, brittle, dense.	Seal
							Gravel and Sand (bedding material), brown to dark gray, dry to 11.3 then wet, loose.	
10	-10	75	0	5	SP/GP			
		100	0	6	ML		Silt, brown, malleable, fine, dense, wet, with very fine-grained Sand at top.	Sand Pack
		100	0	7	SP/GP		Gravel and Sand (bedding material), brown, loose, wet.	Screen
							Silt, dark gray to brown, very moist, dense, fine.	
15	-15	100	0	8	ML		Silt, color changes to light buff to light gray, wet, dense, fine-grained.	
TD=15.5 feet bgs. Water in borehole after drilling.								
20								



LOG OF BORING MW-18

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

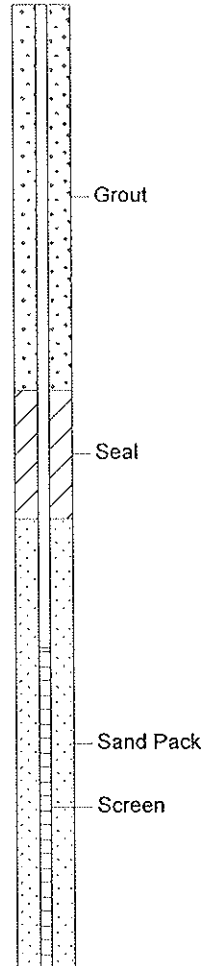
Date Completed : 7/12/2001
Drilling Method : 4.25"
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : 4' DPT sleeves
Boring Location : New Outfall #2

Logged By : J. George

Well: MW-18
Elev.: 36.67

Depth in Feet	Surf. Elev.	PID (ppm)	% Rec.	Samples	USCS	GRAPHIC	DESCRIPTION
0	0	0	50	1	ML/SP		Silt and Sand (topsoil), brown to light brown, roots throughout, dry, brittle, loose.
		0	50	2			Gravel (bedding material), gray to dark gray, angular, with Sand matrix, dry to 9 ft. bgs then wet, loose.
5	-5	0	50	3			
		0	50	3	SP/GP		
10	-10	0	38	4			
		0	63	5			
15	-15				SP		Sand and some Gravel, gray to brown to yellowish-brown, laminated, wet, fine-grained.
20							

TD=16 feet bgs. Water in borehole after drilling.





LOG OF BORING PSA 2 SB-1

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	SP/GP		Sand and Gravel (topsoil), brown to gray, dry, roots throughout, loose. Grades to a brown to yellowish-brown Silt. Silt, brown to yellowish-brown to gray, moist to wet at 5 ft. bgs, dense, sli. stiff. Sand unit at 7 ft. bgs, wet, fine-grained.			
					0	75
					0	75
5	ML			001	0	88
					0	88
					0	100
10	SP		Sand, brown, fine-grained, saturated.		0	100
	ML		Silt, gray mottled to brown, dense, wet.		0	100
			End of Boring at 12 feet bgs.			
15						



LOG OF BORING PSA 2 SB-2

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		Sand and Gravel (fill) beneath asphalt, brown to gray, dry, loose.	001	0	75
				Grades to a brown to yellowish-brown Silt.			
		ML		Silt, brown to yellowish-brown to gray, laminated dry then wet at 5 ft. bgs, dense, sli. stiff. Trace of Gravel. sli. plastic.		0	75
5	-5					0	83
				End of Boring at 8 feet bgs.		0	83
10							






LOG OF BORING PSA 2 SB-3

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		Sand and Gravel (fill) beneath asphalt, brown to gray, fine- to coarse-grained, dry, loose.			
				Silt, brown to gray, laminated, dry then wet at 5.5 ft. bgs, dense, sli. stiff. Trace of Gravel. sli. plastic.		0	75
						0	75
5	-5	ML			001	0	83
				End of Boring at 8 feet bgs.		0	83
10							



LOG OF BORING PSA 2 SB-4

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		Sand and Gravel (fill) beneath asphalt, gray to dark gray, fine- to coarse-grained, dry, loose.		0	63
				Silt, brown to gray, laminated, dry then wet at 6.5 ft. bgs, dense, sli. stiff. Minor Sand (fine) and trace of Gravel throughout.		3.9	63
5	-5	ML			001	6.0	83
				End of Boring at 8 feet bgs.		2.1	83
10							



LOG OF BORING PSA 2 SB-5

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		Sand and Gravel (fill) beneath asphalt, brown to gray, fine- to coarse-grained, dry, loose.			
				Silt, brown to brownish-gray to yellowish-brown, laminated, dry then wet at 3.8 ft. bgs, dense, sli. stiff. Minor Gravel.		0	92
		ML			001	0	92
5	-5					0	83
				End of Boring at 8 feet bgs.		0	83
10							



LOG OF BORING PSA 2 SB-6

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ML		Silt and minor Sand (topsoil), brown to gray, dry, roots throughout, brittle, loose.			
				Silt, brown, dry then wet at 5 ft. bgs, dense, sli. stiff. Minor Gravel throughout.		0	25
						0	25
5	-5	ML			001	0	100
				End of Boring at 8 feet bgs.		0	100
10							



LOG OF BORING PSA 2 SB-7

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		Sand and Gravel (fill), brown, loose, Sand is fine- to coarse-grained, Gravel is fine, angular; dry overall, roots throughout. Sand and Silt, brown to yellowish-brown, brittle, moderately loose, dry to 4 ft. bgs, trace of Gravel, sli. elastic.		2.1	100
					001	21.6	100
5	-5	ML/SP		End of Boring at 8 feet bgs.		6.6	100
						3.6	100
10							



LOG OF BORING PSA 2 SB-8

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		<p>Sand and Gravel (fill), brown, loose, Sand is fine- to coarse-grained, Gravel is fine, angular; dry overall, roots throughout.</p> <p>Sand and Silt, brown to yellowish-brown, brittle, moderately loose, dry to 3.7 ft. bgs then moist to 5 ft. bgs then saturated, trace of Gravel, sli. elastic, trace of roots.</p> <p>End of Boring at 8 feet bgs.</p>		0	100
5	-5	ML/SP			001	0	100
10						0	100



LOG OF BORING PSA 2 SB-9

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		Sand and Gravel (fill), brown, loose, Sand is fine- to coarse-grained, dry overall, roots throughout.		1.5	83
				Sand and Silt, brown to yellowish-brown, brittle, moderately loose, dry to 4 ft. bgs then moist to 5.5 ft. bgs then saturated, trace of Gravel, sli. elastic, trace of roots.		0.3	83
5	-5	ML/SP			001	1.3	100
				End of Boring at 8 feet bgs.		0	100
10							



LOG OF BORING PSA 2 SB-10

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/12/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : PSA 2

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	SP/GP		Sand and Gravel (fill), brown, loose, Sand is fine- to coarse-grained, dry overall, roots throughout.			
				Sand and Silt, brown to yellowish-brown, brittle, moderately loose, dry to 3.8 ft. bgs then moist to 5 ft. bgs then saturated, Sand is fine-grained, trace of Gravel, sli. elastic, dense in saturated interval.		0	100
					001	0	100
5	-5	ML/SP				0	75
				End of Boring at 8 feet bgs.		0	75
10							



LOG OF BORING SWMU 5&6 SB-1

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/11/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : SWMU 5 and 6

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ASPH		Asphalt parking surface with gravel base.			
		GP		Gravel base, dark gray to gray, up to 1-inch diam., loose, with dark brown to dark gray Silty Clay, slightly moist, dense.			
		ML		Sandy Silt with minor Clay, brown, brittle, dry to sli. moist. Becoming sandier with depth. Color change to brownish-orange at 3.5 feet bgs and grading to more Clay.		0	75
		ML/SP		Silt and Clay, orangish-brown, malleable, sli. plastic, sli. wet, minor gravel as above.		0	75
5	-5	SP/GP		Orange-brown Sand with minor Gravel, dense to sli. loose. Sand is fine to med from 6.9 to 7.5. Wet at 6.9 feet bgs, intermixed with Silt.		0	88
				Silt and Clay with minor Sand and Gravel, reddish-brown, moist, malleable to sli. brittle, gravel is rounded. Sandy interval at 12 ft. bgs; saturated here.		0	88
10	-10	ML/SP			001	4.5	75
				As above, wet, soft, malleable, grading to fine Sand at 14.5 ft. bgs, wet, brittle, dense.		25.9	75
15	-15	ML/SP		End of Boring at 16.5 feet bgs.			
20							



LOG OF BORING SWMU 5&6 SB-2

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/11/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : SWMU 5 and 6

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ASPH		Asphalt parking surface with gravel base.			
		GP		Gravel base, dark gray to gray, up to 1-inch diam., loose, with dark brown to gray Silty Clay, slightly moist, malleable.		2.8	75
		ML/SP		Sandy Silt with minor Clay, brown, brittle, moist. Becoming sandier with depth, malleable. Grading to more Sand with depth.		0	75
5	-5	SP		Sand, fine to medium, brown to brownish-gray, moist to wet. Dark gray staining with odor on Sand from 7.5 to 8.5 ft. bgs.		21.6	88
		ML/SP		Clay and Sand with minor Silt, reddish-brown, sli. wet, malleable, dark gray staining and odor from 9.5 to 10.5 ft. bgs. Silt becoming more prevalent near bottom of return.	001	21.4	88
10	-10	ML		Silt with Sand, fine, reddish-brown, wet, dense.		38.9	88
				End of Boring at 12.5 feet bgs.		13.4	88
15	-15						
20							






LOG OF BORING SWMU 5&6 SB-3

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/11/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : SWMU 5 and 6

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ASPH		Asphalt parking surface with gravel base.		NA	0
				Gravel and Sand, dark gray to gray, up to 1-inch diam., saturated, loose. Lost return due to saturated nature and gravel.		23.4	25
		GP		End of Boring at 6 feet bgs.		28.1	100
5	-5						
10							


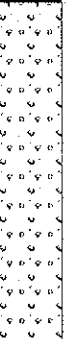
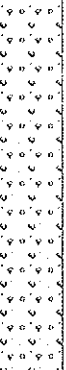


LOG OF BORING SWMU 5&6 SB-4

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/11/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : SWMU 5 and 6

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ASPH		Asphalt parking surface with gravel base.		NA	0
				Gravel and Sand, dark gray to gray, up to 1-inch diam., saturated, loose. Lost return due to saturated nature and gravel.		19.4	13
		GP		End of Boring at 6 feet bgs.		32	25
5	-5						
10							






LOG OF BORING SWMU 5&6 SB-5

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/11/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : SWMU 5 and 6

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ASPH		Asphalt parking surface with gravel base.		NA	0
				Gravel, Sand, and minor Silt, dark gray to gray, up to 1-inch diam., saturated, very loose.		38.1	25
		GP		End of Boring at 6 feet bgs.		39.8	25
5	-5						
10							





LOG OF BORING SWMU 5&6 SB-6

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NYDate Completed : 7/11/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : SWMU 5 and 6

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ASPH		Asphalt parking surface with gravel base.		NA	0
				Gravel, Sand, and minor Silt, dark gray to gray, up to 1-inch diam., saturated, very loose. Apparent petroleum staining and odor on gravel at 2 ft. bgs.		136.3	38
		GP		End of Boring at 5.2 feet bgs.		NA	0
5	-5						
10							



LOG OF BORING SWMU 5&6 SB-7

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/11/2001
Drilling Method : Direct Push
Driller : Parrott-Wolff
Sampling Method : 4' DPT sleeve
Boring Location : SWMU 5 and 6

Logged By : J. George

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Lab No.	PID (ppm)	% Recovery
0	0	ASPH		Asphalt parking surface with gravel base.			
		GP		Gravel, dark gray to gray, up to 1.5-inch diam., loose, with dark brown to gray Silty Clay, slightly moist, malleable.		14.3	75
		CL/SP		Sand with Clay, brown to dark gray, malleable, moist, minor Gravel.		10.8	75
5	-5	SP		Sand, fine to medium, brown to brownish-gray, sli. moist. Sand is medium-grained from 7.8 to 8.0 ft. bgs.		9.1	88
		CL		Clay, reddish-brown, dry to sli. moist, brittle.	001	156.9	88
10	-10	SP		Sand, brown to reddish-brown, wet, fine-grained, odor present, dense.		24	88
		ML		Silt, brown, dense, wet then dry at bottom of return.		25.7	88
				End of Boring at 12.5 feet bgs.			
15							

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07-18-00

APPENDIX A

RFI Boring Logs (June 2002)



LOG OF BORING BG-01

(Page 1 of 1)

UTC Carrier Corporation
Syracuse, New York

Date Completed: : 06/26/02
Drilling Method: : Direct-Push
Drilling Company: : Parratt Wolff Inc.
Logged By: : R. Mire

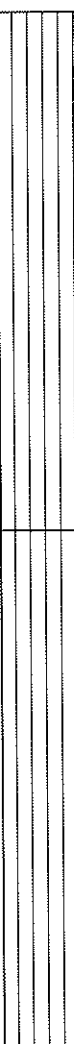
Depth in Feet	Surf. Elev.	GRAPHIC	USCS (Field Observ.)	DESCRIPTION
0	0		ML	Brown silt, stiff, slightly moist, gray mottling, some clay.
5	-5		ML	Brown silt, trace fine-grained sand, clayey, moist at bottom of interval. Samples collected from 0-2 feet interval and 6-8 feet interval. TD at 8 feet below ground surface.
10				



LOG OF BORING BG-02

(Page 1 of 1)

UTC Carrier Corporation
Syracuse, New YorkDate Completed: : 06/26/02
Drilling Method: : Direct-Push
Drilling Company: : Parratt Wolff Inc.
Logged By: : R. Mire

Depth in Feet	Surf. Elev.	GRAPHIC	USCS (Field Observ.)	DESCRIPTION
0	0		ML	Brown silt, loose, fill, wood chips, roots, becomes stiff silt and clay at 2 feet bgs, moist, wet at bottom of interval.
5	-5		ML	Brown clayey silt, moist to very moist, stiff, malleable. Samples collected from 0-2 feet interval and 6-8 feet interval. TD at 8 feet below ground surface.
10				



LOG OF BORING BG-03

(Page 1 of 1)

UTC Carrier Corporation
Syracuse, New York

Date Completed: : 06/26/02
Drilling Method: : Direct-Push
Drilling Company: : Parratt Wolff Inc.
Logged By: : R. Mire

Depth in Feet	Surf. Elev.	GRAPHIC	USCS (Field Observ.)	DESCRIPTION
0	0		ML	Dark brown to brown clayey silt, stiff, dry.
5	-5		ML-SC	Brown silt as above, grades to very fine-grained silty sand at 4.5 feet bgs, wet, slightly stiff. Samples collected from 0-2 feet interval and 6-8 feet interval. TD at 8 feet below ground surface.
10				



LOG OF BORING BG-04

(Page 1 of 1)

UTC Carrier Corporation
Syracuse, New York

Date Completed: : 06/26/02
Drilling Method: : Direct-Push
Drilling Company: : Parrott Wolff Inc.
Logged By: : R. Mire

Depth in Feet	Surf. Elev.	GRAPHIC	USCS (Field Observ.)	DESCRIPTION
0	0		FL-CL	Brown sand/gravel fill, loose to 2 feet bgs, then silty clay, brown, stiff, dry.
5	-5		ML-SC	Brown clayey silt, stiff to 6 feet bgs, then silty sand, fine to very fine-grained, slightly loose, moist to very moist. Samples collected from 0-2 feet interval and 6-8 feet interval. TD at 8 feet below ground surface.
10				



LOG OF BORING HP-06

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 6/25/2002 Logged By : J. George
Drilling Method : HSA
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : Split Spoon
Boring Location : Asphalt immediately West of TR-4, North of Former Tank

Depth in Feet Feet	Surf. Elev.	% Rec- overy	PID (ppm)	Blow Count	USCS (Field Observ.)	GRAPHIC	DESCRIPTION
0	0	12.5	0	16-8-7			Asphalt and LS gravel to 0.6' bgs, dry, then red-brown clay and silt, slightly moist to dry, brittle, slightly dense.
		50	0	3-6-7-8	ML		Brown to reddish-brown silt and minor fine-grained sand, moist to wet at 4' bgs, dense, stiff, malleable, trace medium-grained sand.
5	-5	25		8-11-17-19	ML		Brown silt as above, angular gravel in lower portion of return, stiff, slightly moist.
		75		6-7-9-12	ML-SM		Brown silt, fine-grained sand stringers at 7.4' and 7.8' bgs, stiff, trace gravel, water at 7' bgs, sand is poorly graded, loose.
		79	0	10-10-21-34	ML		Brown to slightly reddish-brown silt, trace gravel, very stiff, till, dry to slightly moist.
10	-10						Hydropunch #1 @1635 to 1655
		83	0	12-28-40-46	SM		Brown to slightly reddish-brown sand, fine-grained, dense, wet, poorly graded, laminated.
15	-15	100	17.8	2-24-41-100/37	SM		Brown to reddish-brown sand and silt, fine-grained, very dense, hard, wet
			8	28-90-83-100/4	SM		Reddish-brown silt and sand, fine-grained, very dense, hard, wet.
20	-20						Hydropunch #2 @ 20-23' bgs, 700 blows for 3'.
		83		31-46-34-68	ML		Red-brown silt, minor sand, wet, very dense, poorly graded, conchoidal fracture.
25	-25	83		30-78-100/2	ML		Red-brown silt, wet, very hard, poorly graded, conchoidal fracture.
		100			ML		Red-brown silt, wet, very hard, conchoidal as above.
30	-30						Hydropunch #3 @1052
							TD at 34 feet bgs.
35							



LOG OF BORING HP-07

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 6/26/2002 Logged By : J. George
Drilling Method : HSA
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : Split Spoon
Boring Location : Asphalt West of TR-1 in drive near curb

Depth in Feet Feet	Surf. Elev.	% Rec- overy	PID (ppm)	Blow Count	USCS (Field Observ.)	GRAPHIC	DESCRIPTION
0	0	12.5		7-4-5			Asphalt and LS gravel to 0.5' bgs, dry, loose. Dark brown to dark gray gravel and sand up to 1" dia., well graded.
		83		6-7-5-8	SM		Reddish-brown silty sand, fine-grained, dry, dense, stiff, brittle.
5	-5	75		7-16-18-21	SM		Reddish-brown silty sand as above, dry, brittle, dense.
		75		11-18-20-22	SM		Reddish-brown sand, fine-grained, silty, poorly graded, subrounded to subangular gravel, wet, very stiff, dense.
		12.5		14-16-18-20	SM		Reddish-brown sand and silt, wet.
10	-10						Hydropunch #1 @1615
		83		7-25-31-48	SM		Red-brown sand, some silt, fine-grained, wet, moderately dense, some conchoidal fracture.
		79		20-100/3	SM		Red-brown sand and silt, wet, very hard, brittle, dry, minor rounded to subrounded gravel.
				40-46-48-50/3	SM		Reddish-brown sand and silt, very dense, wet, laminated.
20	-20						Hydropunch #2 @0910
		100		21-26-41-57	ML		Brown to slightly reddish-brown, silt, minor sand, wet, dense, brittle, conchoidal fracture appearance.
		100		17-24-48-50/1	ML		Red-brown to brown silt, minor sand in upper part of interval, wet, hard, trace clay, conchoidal fractures.
		100		26-28-41-40	ML		Silt as above with very fine-grained sand throughout, wet, hard.
30	-30						Hydropunch #3 @1050.
							TD at 32.5 feet bgs.
35							

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LOG OF BORING HP-08

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 6/27/2002 Logged By : J. George
Drilling Method : HSA
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : Split Spoon
Boring Location : Asphalt West of TR-1 in center of drive, West of Former Tank

Depth in Feet Feet	Surf. Elev.	% Rec- overy	PID (ppm)	Blow Count	USCS (Field Observ.)	GRAPHIC	DESCRIPTION
0	0						Asphalt and concrete to 1.0' bgs. Red-brown to brown sand, fine-grained, slightly loose, LS gravel to 1.5" dia., loose.
		33	0	10-12			
		50	0	4-7-9-14	ML-CL		Brown to yellow-brown silt and clay, trace fine-grained sand, dry, stiff, brittle, iron staining and mottling in clayey lower portion of return.
5	-5	50	0	4-7-7-9	CL-ML		Dark brown to dark gray clay to 4.5' bgs, dry, organic, malleable, grades to brown to red-brown silt, very fine-grained, stiff, grades to very fine-grained sand, dry to moist, dense, trace gravel.
		87.5	0	15-15-12-15	ML-SM		Reddish brown to brown silt, gravel, sand, wet in lower portion of return, fine-grained sand, subrounded gravel, till.
		50	0	10-9-8-17	SM-ML		Red-brown sand, very fine-grained, dense, wet, grades to clay and silt, wet, very stiff, LS gravel throughout, till.
10	-10						Hydropunch #1 @1030. No water, drill to 14' bgs
15	-15						Hydropunch #1 @1150 to 1300 14 to 17' bgs
		100		25-29-27-29	SM		Red-brown to brown sand and silt, very fine-grained, dense, wet, minor yellow mottling.
20	-20	83	0	24-26-28-23	ML-SM		Red-brown to brown silt and very fine-grained sand, wet, dense, trace gravel, brittle.
							Hydropunch #2
							TD at 24 feet bgs.
25							

09-27-2002 G:\ENSAFE-1\UGEOGEWPIENSAFPROVCARRIER\SYRACU-1\HP-08.BOR



LOG OF BORING HP-09

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 6/28/2002 Logged By : J. George
Drilling Method : HSA
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : Split Spoon
Boring Location : Drive S. of 4th bldg brace West of TR-1, West of Former Tank

Depth in Feet Feet	Surf. Elev.	% Rec- overy	PID (ppm)	Blow Count	USCS (Field Observ.)	GRAPHIC	DESCRIPTION
0	0	50		14-21	FL-CL		Concrete from 0 to 1.0'. Brown to red-brown silt, clay, and LS gravel, slightly loose to loose, stiff in clay interval.
		50		12-5-5-10	CL-ML		Red-brown to brown to gray clay and silt, slightly moist, malleable, stiff, minor gravel.
5	-5	92		6-4-3-4	ML-SM-CL		Red-brown to brown silt, sand, and clay. Silt in upper portion, sand in middle to lower portion, very fine-grained, poorly graded, grades to clay with sand in lower 6 inches.
		100		1-3-4-7	CL-ML		Brown to red-brown clay from 6 to 7.5' bgs, moist to wet, malleable, stiff, yellow-brown mottling. From 7.5 to 8' bgs silt, very stiff, dense, trace sand.
		75		6-8-12-14	CL-ML		Dark brown clay from 8 to 8.5' bgs, malleable, moist, slightly plastic, from 8.5 to 9.0' bgs red-brown to brown silt, wet, stiff, grades to red-brown to brown sand, fine to very fine-grained, poorly graded, dense.
10	-10						Hydropunch #1 10-14' @0902
		100		14-25-46-68	SM-ML		Brown to red-brown sand and silt, fine to very fine-grained, dense, wet, trace dark gray quartzite gravel.
15	-15	100		5-8-10-36	ML-SM		Reddish-brown silt, saturated, soft, trace sand to 17.2' bgs, grades to very fine-grained sand, dense, hard, trace quartzite gravel.
		100		14-11-16-22	ML-SM		Red-brown silt and sand, very fine-grained, wet, soft, grades to dense, sand with silt, wet, poorly graded, trace quartzite gravel.
20	-20						Hydropunch #2 20-23' @1000
							TD at 23 feet bgs.
25							



LOG OF BORING HP-10

(Page 1 of 1)

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 7/1/2002 Logged By : J. George
Drilling Method : HSA
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : Split Spoon
Boring Location : Asphalt 12' South of 5th bldg brace west side of TR-1

Depth in Feet Feet	Surf. Elev.	% Rec- overy	PID (ppm)	Blow Count	USCS (Field Observ.)	GRAPHIC	DESCRIPTION
0	0						Asphalt and Gravel to 1.5' bgs. Red-brown to brown silt and clay, dry, loose limestone gravel, stiff silt and clay.
		33	3.2	6-5			
		37.5	4.7	7-10-11-14	GM-CL		Dark brown gravel to 2.5', then dark brown clay and silt, wet, hydrocarbon odor from wet interval. Collected VOC sample for laboratory analysis.
5	-5	50		4-6-4-7	CL		Red-brown to brown silty clay, stiff, wet, hydrocarbon sheen on outside of spoon.
		100		8-8-7-8	CL-SM		Brown clay from 6 to 7' bgs, moist, very stiff, grades to reddish-brown sandy clay at 7.4' bgs to fine sand from 7.4 to 7.8' bgs, poorly graded, wet, hydrocarbon odor throughout. Clay and minor silt from 7.8-8' bgs, wet, malleable, stiff, plastic.
		83		9-13-19	ML		Yellow-brown to brown silt, wet, dense to 9.8' bgs then reddish-brown clay and silt with trace gravel till, stiff, dense, dry to moist.
10	-10						Hydropunch #1 10 to 14' bgs @ 0915.
		100		19-37-37	ML-SM		Reddish-brown silt and minor sand, very stiff, wet, trace gravel-rounded to subrounded quartzite, till.
15	-15	75		13-42-42-70	GM		Till as above, reddish-brown, very dense, hard, wet, rounded to subrounded, gravel with silt and minor sand from 16-17.8' bgs. Red-brown sand from 17.8 to 18' bgs, very fine-grained, dense, wet, poorly graded.
		100		8-19-20-19	SM		Reddish-brown sand and silt, very fine-grained, dense.
20	-20						Hydropunch #2 20 to 24' bgs @ 1023-1030. TD at 24 feet bgs.
25							

UTC-Carrier
Thompson Road Plant
Syracuse, NY

Date Completed : 6/26/2002
Drilling Method : HSA
Driller : Parrott-Wolff (Syracuse, NY)
Sampling Method : Split Spoon
Boring Location : Asphalt West of TR-1 in drive near curb

Logged By : J. George

Depth in Feet Feet	Surf. Elev.	% Rec- overy	PID (ppm)	Blow Count	USCS (Field Observ.)	GRAPHIC	DESCRIPTION	Well: MW-19 Elev.:
0	0	12.5		7-4-5			Asphalt and LS gravel to 0.5' bgs, dry, loose. Dark brown to dark gray gravel and sand up to 1" dia., well graded.	Cover
		83		6-7-5-8	SM		Reddish-brown silty sand, fine-grained, dry, dense, stiff, brittle.	Grout
5	-5	75		7-16-18-21	SM		Reddish-brown silty sand as above, dry, brittle, dense.	Seal
		75		11-18-20-22	SM		Reddish-brown sand, fine-grained, silty, poorly graded, subrounded to subangular gravel, wet, very stiff, dense.	Riser
		12.5		14-16-18-20	SM		Reddish-brown sand and silt, wet.	
10	-10							Sand Pack
		83		7-25-31-48	SM		Red-brown sand, some silt, fine-grained, wet, moderately dense, some conchoidal fractures.	Screen
15	-15						TD at 15.5 feet bgs.	
20								

APPENDIX B

Laboratory Analytical Data Sheets

July 2001

June 2002

APPENDIX B

Laboratory Analytical Data Sheets (July 2001)

Technical Report for

United Technology Corporation

ENSTNN: Carrier, Syracuse, NY

UARP #NS-07/03/01-MMH-01

Accutest Job Number: E94826

Report to:

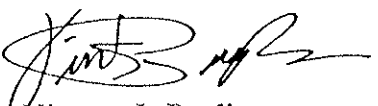
Ensafe
311 Plus Park
Suite 130
Nashville, TN 37217

ATTN: May Heflin

Total number of pages in report: 123



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

United Technology Corporation

Job No: E94826

ENSTNN: Carrier, Syracuse, NY

Project No: UARP #NS-07/03/01-MMH-01

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
E94826-1	07/09/01	16:10 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH77-CARMH7701
E94826-2	07/09/01	16:45 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH97-CARMH9701
E94826-3	07/09/01	15:35 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH115- CARMH11501
E94826-4	07/09/01	17:40 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH101- CARMH10101
E94826-5	07/09/01	17:00 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH256- CARMH25601
E94826-6	07/09/01	16:30 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH76-CARMH7601
E94826-7	07/09/01	15:55 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH116- CARMH11601
E94826-8	07/09/01	00:00 KOC	07/12/01	SO Solid	ENS-SYR-TMP-MH102- CARMH10201



ACCUTEST.

Laboratory Deliverables

1. Cover Page, Title Page Listing Certification #, Facility Name and Address, and Date of Report. ✓
2. Table of Contents. ✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds. ✓
4. Summary Table cross-referencing field ID #'s vs. lab ID #'s ✓
5. Document bound, paginated and legible. ✓
6. Chain of Custody ✓
7. Methodology Summary ✓
8. Laboratory Chronicle and Holding Time Check. ✓
9. Results submitted on a dry weight basis (if applicable) ✓
10. Method Detection Limits. ✓
11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP. ✓
12. Non-Conformance Summary. ✓

Juan Luis Targ
QC Reviewer

Date

7/30/2001

Percent Solids Determination

Accutest Laboratories employs a modified version of ASTM Method 4643-93 for the determination of percent solids to calculate dry weight. All data for solid matrices is reported on a dry weight basis by applying the percent solids data from this determination.

Table Of Contents
Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

Title/Cover Page

Deliverable Checklist

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- A. Results Summary
- B. Chain of Custody
- C. Laboratory Chronicles

Section 2 GC/MS Support Data (grouped by fraction)

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Tune Results Summary
- G. Calibration Summary (sorted by Instrument)
 - Initial Calibration Check Summary
 - Continuing Calibration Check Summary
- H. Internal Standard Summary
- I. Sample and Blank Chromatograms, Quant Reports, Mass Spectra, and Library Search Data

Section 3 GC Support Data

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Calibration Summary (sorted by Instrument)
 - Initial Calibration Check Summary
 - Continuing Calibration Check Summary
- G. Retention Time Shift Summary
- H. Sample, Blank and Multi-peak Standard Chromatograms and Quant Reports

Section 4 Metals Support Data (sorted by Instrument Type - ICP, Furnace, Flame, Mercury)

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Blank Results Summary
 - Initial and Continuing Calibration Blank Summary
 - Method Blank Summary
- D. Batch Quality Control Summary
 - Matrix Spike and Duplicate Results Summary
 - Spike Blank and Lab Control Sample Summary
 - Serial Dilution Results Summary
- E. Calibration Summary
 - Calibration Check Standards Summary
 - Interfering Elements Check Standard Summary

Section 5 General Chemistry/Petroleum Hydrocarbon Support Data

- A. Methodology Review
- B. Conformance/Non-Conformance Summary
- C. Batch Quality Control Summary
 - Method Blank and Spike Blank Results Summary
 - Matrix Spike Results Summary
 - Duplicate Results Summary
- D. Raw Data and IR Spectra (Petroleum Hydrocarbons)
- E. Raw Data and Run Record (Hexavalent Chromium)

Results

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-MH77-CARMH7701							
Lab Sample ID: E94826-1				Date Sampled: 07/09/01			
Matrix: SO - Solid				Date Received: 07/12/01			
Method: SW846 8082 SW846 3550B				Percent Solids: 66.3			
Project: ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50847.D	1	07/24/01	LLP	07/13/01	OP9779	GCD1934
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	25	ug/kg	
11104-28-2	Aroclor 1221	ND	25	ug/kg	
11141-16-5	Aroclor 1232	ND	25	ug/kg	
53469-21-9	Aroclor 1242	ND	25	ug/kg	
12672-29-6	Aroclor 1248	ND	25	ug/kg	
11097-69-1	Aroclor 1254	437	25	ug/kg	
11096-82-5	Aroclor 1260	477	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		26-126%
877-09-8	Tetrachloro-m-xylene	94%		26-126%
2051-24-3	Decachlorobiphenyl	74%		23-149%
2051-24-3	Decachlorobiphenyl	102%		23-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-MH97-CARMH9701

Lab Sample ID: E94826-2

Date Sampled: 07/09/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 84.2

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50848.D	1	07/24/01	LLP	07/13/01	OP9779	GCD1934
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	21	ug/kg	
11104-28-2	Aroclor 1221	ND	21	ug/kg	
11141-16-5	Aroclor 1232	ND	21	ug/kg	
53469-21-9	Aroclor 1242	ND	21	ug/kg	
12672-29-6	Aroclor 1248	ND	21	ug/kg	
11097-69-1	Aroclor 1254	441	21	ug/kg	
11096-82-5	Aroclor 1260	380	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		26-126%
877-09-8	Tetrachloro-m-xylene	121%		26-126%
2051-24-3	Decachlorobiphenyl	172% ^a		23-149%
2051-24-3	Decachlorobiphenyl	155% ^a		23-149%

(a) Outside control limits due to matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-MH115-CARMH11501							
Lab Sample ID: E94826-3				Date Sampled: 07/09/01			
Matrix: SO - Solid				Date Received: 07/12/01			
Method: SW846 8082 SW846 3550B				Percent Solids: 71.5			
Project: ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50849.D	1	07/24/01	LLP	07/13/01	OP9779	GCD1934
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	24	ug/kg	
11104-28-2	Aroclor 1221	ND	24	ug/kg	
11141-16-5	Aroclor 1232	ND	24	ug/kg	
53469-21-9	Aroclor 1242	ND	24	ug/kg	
12672-29-6	Aroclor 1248	ND	24	ug/kg	
11097-69-1	Aroclor 1254	ND	24	ug/kg	
11096-82-5	Aroclor 1260	964	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63 %		26-126 %
877-09-8	Tetrachloro-m-xylene	111 %		26-126 %
2051-24-3	Decachlorobiphenyl	103 %		23-149 %
2051-24-3	Decachlorobiphenyl	127 %		23-149 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-MH101-CARMH10101

Lab Sample ID: E94826-4

Date Sampled: 07/09/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 75.7

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50850.D	1	07/24/01	LLP	07/13/01	OP9779	GCD1934
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	23	ug/kg	
11104-28-2	Aroclor 1221	ND	23	ug/kg	
11141-16-5	Aroclor 1232	ND	23	ug/kg	
53469-21-9	Aroclor 1242	ND	23	ug/kg	
12672-29-6	Aroclor 1248	ND	23	ug/kg	
11097-69-1	Aroclor 1254	ND	23	ug/kg	
11096-82-5	Aroclor 1260	ND	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-126%
877-09-8	Tetrachloro-m-xylene	122%		26-126%
2051-24-3	Decachlorobiphenyl	99%		23-149%
2051-24-3	Decachlorobiphenyl	291% ^a		23-149%

(a) Outside control limits due to matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-MH256-CARMH25601							
Lab Sample ID: E94826-5				Date Sampled: 07/09/01			
Matrix: SO - Solid				Date Received: 07/12/01			
Method: SW846 8082 SW846 3550B				Percent Solids: 72.8			
Project: ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50851.D	1	07/24/01	LLP	07/13/01	OP9779	GCD1934
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	25	ug/kg	
11104-28-2	Aroclor 1221	ND	25	ug/kg	
11141-16-5	Aroclor 1232	ND	25	ug/kg	
53469-21-9	Aroclor 1242	ND	25	ug/kg	
12672-29-6	Aroclor 1248	ND	25	ug/kg	
11097-69-1	Aroclor 1254	79.8	25	ug/kg	
11096-82-5	Aroclor 1260	62.0	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		26-126%
877-09-8	Tetrachloro-m-xylene	103%		26-126%
2051-24-3	Decachlorobiphenyl	91%		23-149%
2051-24-3	Decachlorobiphenyl	116%		23-149%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-MH76-CARMH7601
 Lab Sample ID: E94826-6
 Matrix: SO - Solid
 Method: SW846 8082 SW846 3550B
 Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/09/01
 Date Received: 07/12/01
 Percent Solids: 81.0

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50906.D	1	07/25/01	LLP	07/13/01	OP9779	GCD1938
Run #2	CD50929.D	10	07/26/01	LLP	07/13/01	OP9779	GCD1938

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	20	ug/kg	
11104-28-2	Aroclor 1221	ND	20	ug/kg	
11141-16-5	Aroclor 1232	ND	20	ug/kg	
53469-21-9	Aroclor 1242	ND	20	ug/kg	
12672-29-6	Aroclor 1248	ND	20	ug/kg	
11097-69-1	Aroclor 1254	ND	20	ug/kg	
11096-82-5	Aroclor 1260	10200 ^a	200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71 %	58 %	26-126 %
877-09-8	Tetrachloro-m-xylene	92 %	83 %	26-126 %
2051-24-3	Decachlorobiphenyl	82 %	75 %	23-149 %
2051-24-3	Decachlorobiphenyl	107 %	104 %	23-149 %

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-MH116-CARMH11601
 Lab Sample ID: E94826-7
 Matrix: SO - Solid
 Method: SW846 8082 SW846 3550B
 Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/09/01
 Date Received: 07/12/01
 Percent Solids: 78.4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50907.D	1	07/25/01	LLP	07/13/01	OP9779	GCD1938
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	21	ug/kg	
11104-28-2	Aroclor 1221	ND	21	ug/kg	
11141-16-5	Aroclor 1232	ND	21	ug/kg	
53469-21-9	Aroclor 1242	ND	21	ug/kg	
12672-29-6	Aroclor 1248	ND	21	ug/kg	
11097-69-1	Aroclor 1254	ND	21	ug/kg	
11096-82-5	Aroclor 1260	411	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	61 %		26-126 %
877-09-8	Tetrachloro-m-xylene	73 %		26-126 %
2051-24-3	Decachlorobiphenyl	84 %		23-149 %
2051-24-3	Decachlorobiphenyl	77 %		23-149 %

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	ENS-SYR-TMP-MH102-CARMH10201			Date Sampled:	07/09/01
Lab Sample ID:	E94826-8			Date Received:	07/12/01
Matrix:	SO - Solid			Percent Solids:	73.8
Method:	SW846 8082 SW846 3550B				
Project:	ENSTNN: Carrier, Syracuse, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50692.D	1	07/18/01	LLP	07/16/01	OP9792	GCD1929
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	24	ug/kg	
11104-28-2	Aroclor 1221	ND	24	ug/kg	
11141-16-5	Aroclor 1232	ND	24	ug/kg	
53469-21-9	Aroclor 1242	ND	24	ug/kg	
12672-29-6	Aroclor 1248	ND	24	ug/kg	
11097-69-1	Aroclor 1254	ND	24	ug/kg	
11096-82-5	Aroclor 1260	105	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		26-126%
877-09-8	Tetrachloro-m-xylene	84%		26-126%
2051-24-3	Decachlorobiphenyl	83%		23-149%
2051-24-3	Decachlorobiphenyl	83%		23-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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CHAIN OF CUSTODY

2235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

ACCUTEST JOB #: E94826

ACCTEST QUOTE #:

[illegible]

TEMPERATURE C

ON ICE

PRESERVE WHERE APPLICABLE

SEAL

RECEIVED BY:

RELAQUISHED BY:

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Technical Report for

United Technology Corporation

ENSTNN: Carrier, Syracuse, NY

UARP #NS-07/03/01-MMH-01

Accutest Job Number: E94827

Report to:

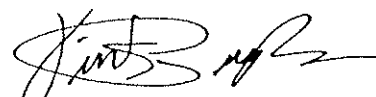
Ensafe
311 Plus Park
Suite 130
Nashville, TN 37217

ATTN: May Heflin

Total number of pages in report: 171



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

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Sample Summary

United Technology Corporation

Job No: E94827

ENSTNN: Carrier, Syracuse, NY

Project No: UARP #NS-07/03/01-MMH-01

Sample Number	Collected		Matrix Received	Code	Type	Client Sample ID
	Date	Time By				
E94827-1	07/10/01	13:00 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM1-CARMSM0101
E94827-2	07/10/01	13:00 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM1-CARMSM0101
E94827-3	07/10/01	13:15 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM2-CARMSM0201
E94827-4	07/10/01	13:17 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-ST202-CARMSM0202
E94827-5	07/10/01	13:35 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM3-CARMSM0301
E94827-6	07/10/01	13:40 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-ST302-CARMSM0302
E94827-7	07/10/01	14:05 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM4-CARMSM0401
E94827-8	07/10/01	14:10 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-ST402-CARMSM0402
E94827-9	07/10/01	14:35 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM-CARMSM0501
E94827-10	07/10/01	14:35 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-ST502-CARMSM0502
E94827-11	07/10/01	14:50 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM6-CARMSM0601
E94827-12	07/10/01	15:00 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM7-CARMSM0701
E94827-13	07/10/01	15:10 JPG	07/12/01	SO	Solid	ENS-SYR-TMP-STRM8-CARMSM0801

Sample Summary

(continued)

United Technology Corporation

Job No: E94827

ENSTNN: Carrier, Syracuse, NY

Project No: UARP #NS-07/03/01-MMH-01

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
E94827-14	07/10/01	15:15	JPG	07/12/01 SO Solid	ENS-SYR-TMP-ST800- CARMSM0802

Laboratory Deliverables

1. Cover Page, Title Page Listing Certification #, Facility Name and Address, and Date of Report. ✓
2. Table of Contents. ✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds. ✓
4. Summary Table cross-referencing field ID #'s vs. lab ID #'s. ✓
5. Document bound, paginated and legible. ✓
6. Chain of Custody. ✓
7. Methodology Summary. ✓
8. Laboratory Chronicle and Holding Time Check. ✓
9. Results submitted on a dry weight basis (if applicable). ✓
10. Method Detection Limits. ✓
11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP. ✓
12. Non-Conformance Summary. ✓

Tran Hua Tang
QC Reviewer

8/3/2001
Date

Percent Solids Determination

Accutest Laboratories employs a modified version of ASTM Method 4643-93 for the determination of percent solids to calculate dry weight. All data for solid matrices is reported on a dry weight basis by applying the percent solids data from this determination.

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Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

Title/Cover Page

Deliverable Checklist

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- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
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- G. Calibration Summary (sorted by Instrument)
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- H. Internal Standard Summary
- I. Sample and Blank Chromatograms, Quant Reports, Mass Spectra, and Library Search Data

Section 3 GC Support Data

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- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
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Results

Report of Analysis

Client Sample ID: ENS-SYR-TMP-STRM1-CARMSM0101

Lab Sample ID: E94827-1

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 73.4

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28371.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	23	ug/kg	
11104-28-2	Aroclor 1221	ND	23	ug/kg	
11141-16-5	Aroclor 1232	ND	23	ug/kg	
53469-21-9	Aroclor 1242	ND	23	ug/kg	
12672-29-6	Aroclor 1248	ND	23	ug/kg	
11097-69-1	Aroclor 1254	ND	23	ug/kg	
11096-82-5	Aroclor 1260	1320	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		26-126%
877-09-8	Tetrachloro-m-xylene	52%		26-126%
2051-24-3	Decachlorobiphenyl	42%		23-149%
2051-24-3	Decachlorobiphenyl	47%		23-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-STRM1-CARMSM0101

Lab Sample ID: E94827-2

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 75.3

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28357.D	1	07/25/01	KLS	07/13/01	OP9780	GAB1595
Run #2	EF32870.D	5	07/26/01	YYX	07/13/01	OP9780	GEF1868

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	22	ug/kg	
11104-28-2	Aroclor 1221	ND	22	ug/kg	
11141-16-5	Aroclor 1232	ND	22	ug/kg	
53469-21-9	Aroclor 1242	ND	22	ug/kg	
12672-29-6	Aroclor 1248	ND	22	ug/kg	
11096-82-5	Aroclor 1260	1400 ^a	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%	57%	26-126%
877-09-8	Tetrachloro-m-xylene	36%	127% ^b	26-126%
2051-24-3	Decachlorobiphenyl	87%	88%	23-149%
2051-24-3	Decachlorobiphenyl	99%	62%	23-149%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-STRM2-CARMSM0201

Lab Sample ID: E94827-3

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 75.9

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28358.D	1	07/25/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	22	ug/kg	
11104-28-2	Aroclor 1221	ND	22	ug/kg	
11141-16-5	Aroclor 1232	ND	22	ug/kg	
53469-21-9	Aroclor 1242	ND	22	ug/kg	
12672-29-6	Aroclor 1248	ND	22	ug/kg	
11097-69-1	Aroclor 1254	ND	22	ug/kg	
11096-82-5	Aroclor 1260	ND	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-126%
877-09-8	Tetrachloro-m-xylene	100%		26-126%
2051-24-3	Decachlorobiphenyl	86%		23-149%
2051-24-3	Decachlorobiphenyl	102%		23-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-ST202-CARMSM0202

Lab Sample ID: E94827-4

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 75.8

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28359.D	1	07/25/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	22	ug/kg	
11104-28-2	Aroclor 1221	ND	22	ug/kg	
11141-16-5	Aroclor 1232	ND	22	ug/kg	
53469-21-9	Aroclor 1242	ND	22	ug/kg	
12672-29-6	Aroclor 1248	ND	22	ug/kg	
11097-69-1	Aroclor 1254	ND	22	ug/kg	
11096-82-5	Aroclor 1260	ND	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71 %		26-126 %
877-09-8	Tetrachloro-m-xylene	90 %		26-126 %
2051-24-3	Decachlorobiphenyl	80 %		23-149 %
2051-24-3	Decachlorobiphenyl	107 %		23-149 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-STRM3-CARMSM0301

Lab Sample ID: E94827-5

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 59.0

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28362.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	30	ug/kg	
11104-28-2	Aroclor 1221	ND	30	ug/kg	
11141-16-5	Aroclor 1232	ND	30	ug/kg	
53469-21-9	Aroclor 1242	ND	30	ug/kg	
12672-29-6	Aroclor 1248	ND	30	ug/kg	
11097-69-1	Aroclor 1254	ND	30	ug/kg	
11096-82-5	Aroclor 1260	270	30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71 %		26-126 %
877-09-8	Tetrachloro-m-xylene	74 %		26-126 %
2051-24-3	Decachlorobiphenyl	79 %		23-149 %
2051-24-3	Decachlorobiphenyl	86 %		23-149 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-ST302-CARMSM0302

Lab Sample ID: E94827-6

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 71.9

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28363.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2	EF32871.D	10	07/26/01	YYX	07/13/01	OP9780	GEF1868

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	24	ug/kg	
11104-28-2	Aroclor 1221	ND	24	ug/kg	
11141-16-5	Aroclor 1232	ND	24	ug/kg	
53469-21-9	Aroclor 1242	ND	24	ug/kg	
12672-29-6	Aroclor 1248	ND	24	ug/kg	
11097-69-1	Aroclor 1254	3660 ^a	240	ug/kg	
11096-82-5	Aroclor 1260	ND	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86 %	69 %	26-126 %
877-09-8	Tetrachloro-m-xylene	48 %	122 %	26-126 %
2051-24-3	Decachlorobiphenyl	81 %	140 %	23-149 %
2051-24-3	Decachlorobiphenyl	86 %	92 %	23-149 %

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-STRM4-CARMSM0401

Lab Sample ID: E94827-7

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 74.7

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28364.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	47	ug/kg	
11104-28-2	Aroclor 1221	ND	47	ug/kg	
11141-16-5	Aroclor 1232	ND	47	ug/kg	
53469-21-9	Aroclor 1242	ND	47	ug/kg	
12672-29-6	Aroclor 1248	ND	47	ug/kg	
11097-69-1	Aroclor 1254	ND	47	ug/kg	
11096-82-5	Aroclor 1260	800	47	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	34%		26-126%
877-09-8	Tetrachloro-m-xylene	38%		26-126%
2051-24-3	Decachlorobiphenyl	42%		23-149%
2051-24-3	Decachlorobiphenyl	36%		23-149%

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-ST402-CARMSM0402
 Lab Sample ID: E94827-8
 Matrix: SO - Solid
 Method: SW846 8082 SW846 3550B
 Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/10/01
 Date Received: 07/12/01
 Percent Solids: 77.0

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD51015.D	1	07/30/01	LLP	07/28/01	OP9880	GCD1942
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	23	ug/kg	
11104-28-2	Aroclor 1221	ND	23	ug/kg	
11141-16-5	Aroclor 1232	ND	23	ug/kg	
53469-21-9	Aroclor 1242	ND	23	ug/kg	
12672-29-6	Aroclor 1248	ND	23	ug/kg	
11097-69-1	Aroclor 1254	ND	23	ug/kg	
11096-82-5	Aroclor 1260	468	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		26-126%
877-09-8	Tetrachloro-m-xylene	58%		26-126%
2051-24-3	Decachlorobiphenyl	114%		23-149%
2051-24-3	Decachlorobiphenyl	103%		23-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-STRM-CARMSM0501							
Lab Sample ID: E94827-9				Date Sampled: 07/10/01			
Matrix: SO - Solid				Date Received: 07/12/01			
Method: SW846 8082 SW846 3550B				Percent Solids: 47.8			
Project: ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF32869.D	5	07/26/01	YYX	07/13/01	OP9780	GEF1868
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	180	ug/kg	
11104-28-2	Aroclor 1221	ND	180	ug/kg	
11141-16-5	Aroclor 1232	ND	180	ug/kg	
53469-21-9	Aroclor 1242	ND	180	ug/kg	
12672-29-6	Aroclor 1248	ND	180	ug/kg	
11097-69-1	Aroclor 1254	ND	180	ug/kg	
11096-82-5	Aroclor 1260	ND	180	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		26-126%
877-09-8	Tetrachloro-m-xylene	42%		26-126%
2051-24-3	Decachlorobiphenyl	41%		23-149%
2051-24-3	Decachlorobiphenyl	37%		23-149%

(a) Dilution required due to sample high viscous matrix.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-ST502-CARMSM0502

Lab Sample ID: E94827-10

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 48.5

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28366.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	35	ug/kg	
11104-28-2	Aroclor 1221	ND	35	ug/kg	
11141-16-5	Aroclor 1232	ND	35	ug/kg	
53469-21-9	Aroclor 1242	ND	35	ug/kg	
12672-29-6	Aroclor 1248	ND	35	ug/kg	
11097-69-1	Aroclor 1254	ND	35	ug/kg	
11096-82-5	Aroclor 1260	1180	35	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73 %		26-126 %
877-09-8	Tetrachloro-m-xylene	33 %		26-126 %
2051-24-3	Decachlorobiphenyl	42 %		23-149 %
2051-24-3	Decachlorobiphenyl	50 %		23-149 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-STRM6-CARMSM0601

Lab Sample ID: E94827-11

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 81.1

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28367.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	20	ug/kg	
11104-28-2	Aroclor 1221	ND	20	ug/kg	
11141-16-5	Aroclor 1232	ND	20	ug/kg	
53469-21-9	Aroclor 1242	ND	20	ug/kg	
12672-29-6	Aroclor 1248	ND	20	ug/kg	
11097-69-1	Aroclor 1254	ND	20	ug/kg	
11096-82-5	Aroclor 1260	60.3	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		26-126%
877-09-8	Tetrachloro-m-xylene	73%		26-126%
2051-24-3	Decachlorobiphenyl	43%		23-149%
2051-24-3	Decachlorobiphenyl	45%		23-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

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Client Sample ID:	ENS-SYR-TMP-STRM7-CARMSM0701						
Lab Sample ID:	E94827-12				Date Sampled:	07/10/01	
Matrix:	SO - Solid				Date Received:	07/12/01	
Method:	SW846 8082 SW846 3550B				Percent Solids:	76.2	
Project:	ENSTNN: Carrier, Syracuse, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28368.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2	EF32872.D	5	07/26/01	YYX	07/13/01	OP9780	GEF1868

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	21	ug/kg	
11104-28-2	Aroclor 1221	ND	21	ug/kg	
11141-16-5	Aroclor 1232	ND	21	ug/kg	
53469-21-9	Aroclor 1242	ND	21	ug/kg	
12672-29-6	Aroclor 1248	ND	21	ug/kg	
11097-69-1	Aroclor 1254	ND	21	ug/kg	
11096-82-5	Aroclor 1260	2220 ^a	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%	79%	26-126%
877-09-8	Tetrachloro-m-xylene	48%	199% ^b	26-126%
2051-24-3	Decachlorobiphenyl	47%	108%	23-149%
2051-24-3	Decachlorobiphenyl	54%	89%	23-149%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:		ENS-SYR-TMP-STRM8-CARMSM0801							
Lab Sample ID:		E94827-13			Date Sampled:			07/10/01	
Matrix:		SO - Solid			Date Received:			07/12/01	
Method:		SW846 8082 SW846 3550B			Percent Solids:			77.9	
Project:		ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch		
Run #1	AB28369.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595		
Run #2									

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	20	ug/kg	
11104-28-2	Aroclor 1221	ND	20	ug/kg	
11141-16-5	Aroclor 1232	ND	20	ug/kg	
53469-21-9	Aroclor 1242	ND	20	ug/kg	
12672-29-6	Aroclor 1248	ND	20	ug/kg	
11097-69-1	Aroclor 1254	ND	20	ug/kg	
11096-82-5	Aroclor 1260	650	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		26-126%
877-09-8	Tetrachloro-m-xylene	42%		26-126%
2051-24-3	Decachlorobiphenyl	39%		23-149%
2051-24-3	Decachlorobiphenyl	45%		23-149%

20

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-ST800-CARMSM0802

Lab Sample ID: E94827-14

Date Sampled: 07/10/01

Matrix: SO - Solid

Date Received: 07/12/01

Method: SW846 8082 SW846 3550B

Percent Solids: 69.6

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28370.D	1	07/26/01	KLS	07/13/01	OP9780	GAB1595
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	24	ug/kg	
11104-28-2	Aroclor 1221	ND	24	ug/kg	
11141-16-5	Aroclor 1232	ND	24	ug/kg	
53469-21-9	Aroclor 1242	ND	24	ug/kg	
12672-29-6	Aroclor 1248	ND	24	ug/kg	
11097-69-1	Aroclor 1254	ND	24	ug/kg	
11096-82-5	Aroclor 1260	46.0	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		26-126%
877-09-8	Tetrachloro-m-xylene	50%		26-126%
2051-24-3	Decachlorobiphenyl	52%		23-149%
2051-24-3	Decachlorobiphenyl	50%		23-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

[illegible]

Technical Report for

United Technology Corporation

ENSTNN: Carrier, Syracuse, NY

UARP #NS-07/03/01-MMH-01

Accutest Job Number: E94828

Report to:

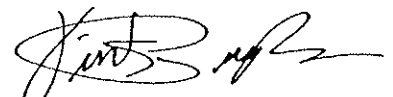
Ensafe
220 Athens Way
Suite 410
Nashville, TN 37217

ATTN: May Heflin

Total number of pages in report: 217



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

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Sample Summary

United Technology Corporation

Job No: E94828

ENSTNN: Carrier, Syracuse, NY

Project No: UARP #

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
E94828-1	07/11/01	09:30 JPG	07/12/01	SO Soil	ENS-SYR-TMP-SB1-CARSW56110
E94828-2	07/11/01	10:15 JPG	07/12/01	SO Soil	ENS-SYR-TMP-SB2-CARSW56208
E94828-3	07/11/01	12:20 JPG	07/12/01	SO Soil	ENS-SYR-TMP-SB7-CARSW56706
E94828-4	07/11/01	11:50 JPG	07/12/01	AQ Ground Water	ENS-SYR-TMP-SB4-CARSW56401
E94828-4A	07/11/01	11:50 JPG	07/12/01	AQ Groundwater Filtered	ENS-SYR-TMP-SB4-CARSW56401

Laboratory Deliverables

1. Cover Page, Title Page Listing Certification #, Facility Name and Address, and Date of Report. ✓
2. Table of Contents. ✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds. ✓
4. Summary Table cross-referencing field ID #'s vs. lab ID #'s. ✓
5. Document bound, paginated and legible. ✓
6. Chain of Custody. ✓
7. Methodology Summary. ✓
8. Laboratory Chronicle and Holding Time Check. ✓
9. Results submitted on a dry weight basis (if applicable) ✓
10. Method Detection Limits. ✓
11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP. ✓
12. Non-Conformance Summary. ✓


QC Reviewer

8/7/2001
Date

Percent Solids Determination

Accutest Laboratories employs a modified version of ASTM Method 4643-93 for the determination of percent solids to calculate dry weight. All data for solid matrices is reported on a dry weight basis by applying the percent solids data from this determination.



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Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

Title/Cover Page

Deliverable Checklist

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- C. Laboratory Chronicles

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- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
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- F. Tune Results Summary
- G. Calibration Summary (sorted by Instrument)
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 - Continuing Calibration Check Summary
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- C. Surrogate Recovery Results Summary
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 - Method Blank Summary
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 - Spike Blank and Lab Control Sample Summary
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Results

Report of Analysis

Client Sample ID: ENS-SYR-TMP-SB1-CARSW56110

Lab Sample ID: E94828-1

Date Sampled: 07/11/01

Matrix: SO - Soil

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: 89.7

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K44998.D	1	07/15/01	DFT	n/a	n/a	VK1556
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.6	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	ug/kg	
75-25-2	Bromoform	ND	5.6	ug/kg	
74-83-9	Bromomethane	ND	5.6	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	5.6	ug/kg	
74-87-3	Chloromethane	ND	5.6	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	ug/kg	
156-59-2	cis-1,2-Dichloroethene	78.7	5.6	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	ug/kg	
591-78-6	2-Hexanone	ND	5.6	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	5.6	ug/kg	
100-42-5	Styrene	ND	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	ug/kg	
108-88-3	Toluene	ND	5.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg	
79-01-6	Trichloroethene	109	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	5.6	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: ENS-SYR-TMP-SB1-CARSW56110
Lab Sample ID: E94828-1
Matrix: SO - Soil
Method: SW846 8260B
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/11/01
Date Received: 07/12/01
Percent Solids: 89.7

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		55-132%
17060-07-0	1,2-Dichloroethane-D4	98%		54-129%
2037-26-5	Toluene-D8	96%		65-133%
460-00-4	4-Bromofluorobenzene	111%		58-137%

100 8

ND = Not detected

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-SB1-CARSW56110**Lab Sample ID:** E94828-1**Matrix:** SO - Soil**Date Sampled:** 07/11/01**Date Received:** 07/12/01**Percent Solids:** 89.7**Project:** ENSTNN: Carrier, Syracuse, NY**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Copper	15.9	2.7	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Lead	3.7	1.1	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Manganese	308	1.6	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Nickel	10.7	4.3	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B

009 9

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-SB1-CARSW56110

Lab Sample ID: E94828-1

Matrix: SO - Soil

Date Sampled: 07/11/01

Date Received: 07/12/01

Percent Solids: 89.7

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Cyanide	<1.1	1.1	mg/kg	1	07/23/01 JK	SW846 9012 M
Solids, Percent	89.7		%	1	07/14/01 TM	ASTM 4643-00
pH ^a	8.6		su	1	07/16/01 JKT	SW846 9045

(a) Sample received beyond holding time.

100 10

RL = Reporting Limit

Report of Analysis

Client Sample ID: ENS-SYR-TMP-SB2-CARSW56208

Lab Sample ID: E94828-2

Date Sampled: 07/11/01

Matrix: SO - Soil

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: 88.0

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45039.D	1	07/16/01	DFT	n/a	n/a	VK1557
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.7	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.7	ug/kg	
75-25-2	Bromoform	ND	5.7	ug/kg	
74-83-9	Bromomethane	ND	5.7	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.7	ug/kg	
108-90-7	Chlorobenzene	ND	5.7	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	5.7	ug/kg	
74-87-3	Chloromethane	ND	5.7	ug/kg	
124-48-1	Dibromochloromethane	ND	5.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.7	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.7	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	ug/kg	
100-41-4	Ethylbenzene	4.2	5.7	ug/kg	J
591-78-6	2-Hexanone	ND	5.7	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	5.7	ug/kg	
100-42-5	Styrene	ND	5.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	
127-18-4	Tetrachloroethene	ND	5.7	ug/kg	
108-88-3	Toluene	ND	5.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.7	ug/kg	
79-01-6	Trichloroethene	ND	5.7	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	16.3	5.7	ug/kg	

11

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: ENS-SYR-TMP-SB2-CARSW56208
Lab Sample ID: E94828-2
Matrix: SO - Soil
Method: SW846 8260B
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/11/01
Date Received: 07/12/01
Percent Solids: 88.0

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		55-132%
17060-07-0	1,2-Dichloroethane-D4	106%		54-129%
2037-26-5	Toluene-D8	95%		65-133%
460-00-4	4-Bromofluorobenzene	116%		58-137%

12

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-SB2-CARSW56208

Lab Sample ID: E94828-2

Date Sampled: 07/11/01

Matrix: SO - Soil

Date Received: 07/12/01

Percent Solids: 88.0

Project: ENSTNN: Carrier, Syracuse, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Copper	25.7	2.8	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Lead	3.4	1.1	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Manganese	525	1.7	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Nickel	8.9	4.4	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B

Report of Analysis

Page 1 of 1

Client Sample ID:	ENS-SYR-TMP-SB2-CARSW56208	Date Sampled:	07/11/01
Lab Sample ID:	E94828-2	Date Received:	07/12/01
Matrix:	SO - Soil	Percent Solids:	88.0
Project:	ENSTNN: Carrier, Syracuse, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Cyanide	< 1.1	1.1	mg/kg	1	07/23/01 JK	SW846 9012 M
Solids, Percent	88		%	1	07/14/01 TM	ASTM 4643-00
pH ^a	8.1		su	1	07/16/01 JKT	SW846 9045

(a) Sample received beyond holding time.

Report of Analysis

Client Sample ID: ENS-SYR-TMP-SB7-CARSW56706

Lab Sample ID: E94828-3

Date Sampled: 07/11/01

Matrix: SO - Soil

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: 82.9

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45000.D	1	07/15/01	DFT	n/a	n/a	VK1556
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	30.6	6.0	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	ug/kg	
75-25-2	Bromoform	ND	6.0	ug/kg	
74-83-9	Bromomethane	ND	6.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	6.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	ug/kg	
75-00-3	Chloroethane	ND	6.0	ug/kg	
67-66-3	Chloroform	ND	6.0	ug/kg	
74-87-3	Chloromethane	ND	6.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	ug/kg	
75-34-3	1,1-Dichloroethane	4.8	6.0	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	6.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	ug/kg	
100-41-4	Ethylbenzene	ND	6.0	ug/kg	
591-78-6	2-Hexanone	ND	6.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	ug/kg	
75-09-2	Methylene chloride	ND	6.0	ug/kg	
100-42-5	Styrene	ND	6.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	
127-18-4	Tetrachloroethene	ND	6.0	ug/kg	
108-88-3	Toluene	ND	6.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	ug/kg	
79-01-6	Trichloroethene	ND	6.0	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	ug/kg	
1330-20-7	Xylene (total)	ND	6.0	ug/kg	

15

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-SB7-CARSW56706

Lab Sample ID: E94828-3

Date Sampled: 07/11/01

Matrix: SO - Soil

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: 82.9

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		55-132%
17060-07-0	1,2-Dichloroethane-D4	92%		54-129%
2037-26-5	Toluene-D8	99%		65-133%
460-00-4	4-Bromofluorobenzene	97%		58-137%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-SB7-CARSW56706

Lab Sample ID: E94828-3

Matrix: SO - Soil

Date Sampled: 07/11/01

Date Received: 07/12/01

Percent Solids: 82.9

Project: ENSTNN: Carrier, Syracuse, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Copper	23.6	3.1	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Lead	9.2	1.2	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Manganese	312	1.8	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B
Nickel	23.3	4.9	mg/kg	1	07/16/01	07/19/01 EK	SW846 6010B

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RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-SB7-CARSW56706

Lab Sample ID: E94828-3

Matrix: SO - Soil

Date Sampled: 07/11/01

Date Received: 07/12/01

Percent Solids: 82.9

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Cyanide	< 1.2	1.2	mg/kg	1	07/23/01 JK	SW846 9012 M
Solids, Percent	82.9		%	1	07/14/01 TM	ASTM 4643-00
pH ^a	7.8		su	1	07/16/01 JKT	SW846 9045

(a) Sample received beyond holding time.

Report of Analysis

Client Sample ID: ENS-SYR-TMP-SB4-CARSW56401

Lab Sample ID: E94828-4

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47135.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	7.7	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	1.8	2.0	ug/l	J
156-59-2	cis-1,2-Dichloroethene	281	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	26.8	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	38.7	1.0	ug/l	
75-01-4	Vinyl chloride	8.8	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

19

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	ENS-SYR-TMP-SB4-CARSW56401	Date Sampled:	07/11/01
Lab Sample ID:	E94828-4	Date Received:	07/12/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-118%
17060-07-0	1,2-Dichloroethane-D4	108%		68-124%
2037-26-5	Toluene-D8	97%		85-119%
460-00-4	4-Bromofluorobenzene	99%		75-127%

20

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-SB4-CARSW56401

Lab Sample ID: E94828-4

Matrix: AQ - Ground Water

Date Sampled: 07/11/01

Date Received: 07/12/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
pH ^a	11.1		su	1	07/12/01 FAB	EPA 150.1

(a) Sample received out of holding time for pH analysis.

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-SB4-CARSW56401

Lab Sample ID: E94828-4A

Matrix: AQ - Groundwater Filtered

Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/11/01

Date Received: 07/12/01

Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	5.2	5.0	ug/l	1	07/13/01	07/17/01 ND	SW846 6010B
Chromium	<10	10	ug/l	1	07/13/01	07/17/01 ND	SW846 6010B
Iron	29000	100	ug/l	1	07/13/01	07/17/01 ND	SW846 6010B
Lead ^a	13.1	9.0	ug/l	3	07/13/01	07/18/01 ND	SW846 6010B
Manganese	4600	15	ug/l	1	07/13/01	07/17/01 ND	SW846 6010B
Nickel	272	40	ug/l	1	07/13/01	07/17/01 ND	SW846 6010B
Selenium	<5.0	5.0	ug/l	1	07/13/01	07/17/01 ND	SW846 6010B

(a) Elevated detection limit due to dilution required for high interfering element.



CHAIN OF CUSTODY

22235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

ACCUTEST JOB #: E94828
ACCUTEST QUOTE #:

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
NAME May Hoffman			PROJECT NAME WTC Carrier RFI						DW - DRINKING WATER		
ADDRESS EnSafe Inc			LOCATION Sag Harbor NY						GW - GROUND WATER		
CITY Nashville			PROJECT NO. 3133-031						WW - WASTE WATER		
STATE TN			FAX # 615-255-9300						SO - SOIL		
ZIP 37228									SL - SLUDGE		
SEND REPORT TO: May Hoffman									OI - OIL		
PHONE # 615-255-9300									LIQ - OTHER LIQUID		
									SOL - OTHER SOLID		
FIELD ID / POINT OF COLLECTION			COLLECTION			PRESERVATION			LAB USE ONLY		
ACCUTEST SAMPLE #	DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	
-1	7-11-01	0930	WRE/GTA	SD	2					X	✓
-2	7-11-01	1015	WRE/GTA	SD	2					X	✓
-3	7-11-01	1220	WRE/GTA	SD	2					X	✓
-4(A)	7-11-01	1100	WRE/GTA	GW	35					X	✓
COMMENTS/REMARKS											
for S64 sgl (groundwater) Sgl was very turbid when preserved for total metals											
Positive hits for or less, appear preserved - add to 1/11/01 H203 to H215 - APPROX. MEASUREMENT. (S64 7/11/01)											
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			DATA DELIVERABLE INFORMATION			DATA DELIVERABLE INFORMATION		
APPROVED BY:			APPROVED BY:			APPROVED BY:			APPROVED BY:		
21 DAYS STANDARD			21 DAYS STANDARD			21 DAYS STANDARD			21 DAYS STANDARD		
14 DAYS RUSH			14 DAYS RUSH			14 DAYS RUSH			14 DAYS RUSH		
7 DAYS EMERGENCY			7 DAYS EMERGENCY			7 DAYS EMERGENCY			7 DAYS EMERGENCY		
OTHER			OTHER			OTHER			OTHER		
21 DAY TURNAROUND HARD COPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			21 DAY TURNAROUND HARD COPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			21 DAY TURNAROUND HARD COPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			21 DAY TURNAROUND HARD COPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		
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5.											

Technical Report for

United Technology Corporation

ENSTNN: Carrier, Syracuse, NY

UARP #NS-07/03/01-MMH-01

Accutest Job Number: E94829

Report to:

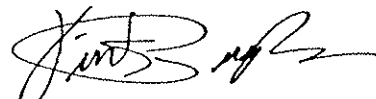
Ensafe
311 Plus Park
Suite 130
Nashville, TN 37217

ATTN: May Heflin

Total number of pages in report: 83



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

United Technology Corporation

Job No: E94829

ENSTNN: Carrier, Syracuse, NY

Project No: UARP #NS-07/03/01-MMH-01

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
E94829-1	07/10/01	14:30 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-MW9-CARGMW0904
E94829-2	07/10/01	16:20 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-MW00BG-CARGMW5604
E94829-3	07/11/01	08:15 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-0006-CARG000604
E94829-4	07/11/01	08:15 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-0006-CARH000604
E94829-5	07/11/01	08:45 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-9903-CARG990304
E94829-6	07/11/01	09:30 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-9901-CARG990104
E94829-7	07/11/01	11:48 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-MW5D-CARGMW5D04
E94829-8	07/11/01	11:45 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-MW5S-CARGMW5S04
E94829-9	07/11/01	14:00 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-9902-CARG990204
E94829-10	07/11/01	14:45 BH	07/12/01	AQ	Ground Water	ENS-SYR-TMP-MW07-CARGMW0704
E94829-11	07/11/01	00:00 BH	07/12/01	AQ	Trip Blank Water	ENS-SYR-TMP-TRIPBLK-CART071101

Laboratory Deliverables

1. Cover Page, Title Page Listing Certification #, Facility Name and Address, and Date of Report. ✓
2. Table of Contents. ✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds. ✓
4. Summary Table cross-referencing field ID #'s vs. lab ID #'s ✓
5. Document bound, paginated and legible. ✓
6. Chain of Custody ✓
7. Methodology Summary ✓
8. Laboratory Chronicle and Holding Time Check ✓
9. Results submitted on a dry weight basis (if applicable) ✓
10. Method Detection Limits. ✓
11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP. ✓
12. Non-Conformance Summary. ✓


QC Reviewer

Date

7/26/2001



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Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

Title/Cover Page

Deliverable Checklist

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Section 1 General

- A. Results Summary
- B. Chain of Custody
- C. Laboratory Chronicles

Section 2 GC/MS Support Data (grouped by fraction)

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Tune Results Summary
- G. Calibration Summary (sorted by Instrument)
 - Initial Calibration Check Summary
 - Continuing Calibration Check Summary
- H. Internal Standard Summary
- I. Sample and Blank Chromatograms, Quant Reports, Mass Spectra, and Library Search Data

Section 3 GC Support Data

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Calibration Summary (sorted by Instrument)
 - Initial Calibration Check Summary
 - Continuing Calibration Check Summary
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- H. Sample, Blank and Multi-peak Standard Chromatograms and Quant Reports

Section 4 Metals Support Data (sorted by Instrument Type - ICP, Furnace, Flame, Mercury)

- A. Methodology Review
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- C. Blank Results Summary
 - Initial and Continuing Calibration Blank Summary
 - Method Blank Summary
- D. Batch Quality Control Summary
 - Matrix Spike and Duplicate Results Summary
 - Spike Blank and Lab Control Sample Summary
 - Serial Dilution Results Summary
- E. Calibration Summary
 - Calibration Check Standards Summary
 - Interfering Elements Check Standard Summary

Section 5 General Chemistry/Petroleum Hydrocarbon Support Data

- A. Methodology Review
- B. Conformance/Non-Conformance Summary
- C. Batch Quality Control Summary
 - Method Blank and Spike Blank Results Summary
 - Matrix Spike Results Summary
 - Duplicate Results Summary
- D. Raw Data and IR Spectra (Petroleum Hydrocarbons)
- E. Raw Data and Run Record (Hexavalent Chromium)

Results

Report of Analysis

Client Sample ID: ENS-SYR-TMP-MW9-CARGMW0904

Lab Sample ID: E94829-1

Date Sampled: 07/10/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47136.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	2.4	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.9	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	0.61	5.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	6.6	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	6.2	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

036

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: ENS-SYR-TMP-MW9-CARGMW0904
Lab Sample ID: E94829-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/10/01
Date Received: 07/12/01
Percent Solids: n/a

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		81-118%
17060-07-0	1,2-Dichloroethane-D4	112%		68-124%
2037-26-5	Toluene-D8	95%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

036 7

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-MW00BG-CARGMW5604

Lab Sample ID: E94829-2

Date Sampled: 07/10/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47137.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	ENS-SYR-TMP-MW00BG-CARGMW5604		
Lab Sample ID:	E94829-2	Date Sampled:	07/10/01
Matrix:	AQ - Ground Water	Date Received:	07/12/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104 %		81-118 %
17060-07-0	1,2-Dichloroethane-D4	112 %		68-124 %
2037-26-5	Toluene-D8	96 %		85-119 %
460-00-4	4-Bromofluorobenzene	98 %		75-127 %

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: ENS-SYR-TMP-0006-CARG000604							
Lab Sample ID: E94829-3		Date Sampled: 07/11/01					
Matrix: AQ - Ground Water		Date Received: 07/12/01					
Method: SW846 8260B		Percent Solids: n/a					
Project: ENSTNN: Carrier, Syracuse, NY							
Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47138.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.2	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-0006-CARG000604

Lab Sample ID: E94829-3

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		81-118%
17060-07-0	1,2-Dichloroethane-D4	111%		68-124%
2037-26-5	Toluene-D8	97%		85-119%
460-00-4	4-Bromofluorobenzene	100%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-0006-CARH000604

Lab Sample ID: E94829-4

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47139.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-0006-CARH000604
Lab Sample ID: E94829-4
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/11/01
Date Received: 07/12/01
Percent Solids: n/a

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		81-118%
17060-07-0	1,2-Dichloroethane-D4	111%		68-124%
2037-26-5	Toluene-D8	109%		85-119%
460-00-4	4-Bromofluorobenzene	102%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9903-CARG990304

Lab Sample ID: E94829-5

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47140.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	26.5	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.9	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	3.9	5.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	1.1	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9903-CARG990304

Lab Sample ID: E94829-5

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		81-118%
17060-07-0	1,2-Dichloroethane-D4	101%		68-124%
2037-26-5	Toluene-D8	97%		85-119%
460-00-4	4-Bromofluorobenzene	100%		75-127%

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9901-CARG990104

Lab Sample ID: E94829-6

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47141.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	ENS-SYR-TMP-9901-CARG990104		
Lab Sample ID:	E94829-6	Date Sampled:	07/11/01
Matrix:	AQ - Ground Water	Date Received:	07/12/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		81-118%
17060-07-0	1,2-Dichloroethane-D4	115%		68-124%
2037-26-5	Toluene-D8	98%		85-119%
460-00-4	4-Bromofluorobenzene	100%		75-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: ENS-SYR-TMP-MW5D-CARGMW5D04

Lab Sample ID: E94829-7

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47142.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: ENS-SYR-TMP-MW5D-CARGMW5D04	
Lab Sample ID: E94829-7	
Matrix: AQ - Ground Water	Date Sampled: 07/11/01
Method: SW846 8260B	Date Received: 07/12/01
Project: ENSTNN: Carrier, Syracuse, NY	Percent Solids: n/a

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		81-118%
17060-07-0	1,2-Dichloroethane-D4	114%		68-124%
2037-26-5	Toluene-D8	98%		85-119%
460-00-4	4-Bromofluorobenzene	101%		75-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-MW5S-CARGMW5S04
 Lab Sample ID: E94829-8
 Matrix: AQ - Ground Water
 Method: SW846 8260B
 Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/11/01
 Date Received: 07/12/01
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47143.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	1.2	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	5.2	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

20

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	ENS-SYR-TMP-MW5S-CARGMW5S04	Date Sampled:	07/11/01
Lab Sample ID:	E94829-8	Date Received:	07/12/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		81-118%
17060-07-0	1,2-Dichloroethane-D4	111%		68-124%
2037-26-5	Toluene-D8	97%		85-119%
460-00-4	4-Bromofluorobenzene	100%		75-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9902-CARG990204

Lab Sample ID: E94829-9

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47144.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	45.9	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9902-CARG990204

Lab Sample ID: E94829-9

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		81-118%
17060-07-0	1,2-Dichloroethane-D4	115%		68-124%
2037-26-5	Toluene-D8	97%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-MW07-CARGMW0704

Lab Sample ID: E94829-10

Date Sampled: 07/11/01

Matrix: AQ - Ground Water

Date Received: 07/12/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47147.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

24

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW07-CARGMW0704	Date Sampled:	07/11/01
Lab Sample ID:	E94829-10	Date Received:	07/12/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-118%
17060-07-0	1,2-Dichloroethane-D4	100%		68-124%
2037-26-5	Toluene-D8	105%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-TRIPBLK-CART071101							
Lab Sample ID: E94829-11				Date Sampled: 07/11/01			
Matrix: AQ - Trip Blank Water				Date Received: 07/12/01			
Method: SW846 8260B				Percent Solids: n/a			
Project: ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47148.D	1	07/16/01	GTT	n/a	n/a	VE2513
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-TRIPBLK-CART071101		
Lab Sample ID:	E94829-11	Date Sampled:	07/11/01
Matrix:	AQ - Trip Blank Water	Date Received:	07/12/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		81-118%
17060-07-0	1,2-Dichloroethane-D4	116%		68-124%
2037-26-5	Toluene-D8	98%		85-119%
460-00-4	4-Bromofluorobenzene	95%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY

2235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

ACCUTEST JOB #: E94829

ACCTEST QUOTE #:

62 TB

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
NAME May Heflin % EnSafe			PROJECT NAME UTC Carrier RFI			8260 VOR TC DK 7/13/01			DW - DRINKING WATER		
ADDRESS 220 Attenua Way Ste 410			LOCATION Syosser NY						GW - GROUND WATER		
CITY, STATE, ZIP Nashville TN 37228			PROJECT NO. 3133-031						WW - WASTE WATER		
SEND REPORT TO: May Heflin			FAX # 615-255-9300						SO - SOIL		
PHONE # 615-355-9300			DATE			TIME			SL - SLUDGE		
FIELD ID / POINT OF COLLECTION			DATE			TIME			OI - OIL		
ACCUTEST SAMPLE #			DATE			TIME			LIQ - OTHER LIQUID		
-1			7-10-01			1430			SOL - OTHER SOLID		
-2			7-10-01			1620			LAB USE ONLY		
-3			7-11-01			0815					
-4			7-11-01			0815					
-5			7-11-01			0845					
-6			7-11-01			0930					
-7			7-11-01			1148					
-8			7-11-01			1145					
-9			7-11-01			1400					
-10			7-11-01			1445					
-11			7-11-01								
DATA TURNAROUND INFORMATION			DATE DELIVERABLE INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS		
21 DAYS STANDARD			APPROVED BY:			NJ REDUCED			COMMERCIAL "A"		
14 DAYS RUSH						NJ Full			COMMERCIAL "B"		
7 DAYS EMERGENCY						FULL CLP			STATE FORMS		
OTHER						DISK DELIVERABLE					
21 DAY TURNAROUND HARD COPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED						OTHER (SPECIFY)					
RELINQUISHED BY: [Signature]			DATE TIME: 7-11-01 1800			RELINQUISHED BY: 2. UPS			DATE TIME: 7-12-01 1000		
RELINQUISHED BY: [Signature]			DATE TIME: 7-11-01 1800			RELINQUISHED BY: 4.			DATE TIME: 7-13-01 1000		
RELINQUISHED BY: [Signature]			DATE TIME: 7-11-01 1800			RELINQUISHED BY: 5.			DATE TIME: 7-13-01 1000		

Technical Report for

United Technology Corporation

ENSTNN: Carrier, Syracuse, NY

UARP # 3133-031

Accutest Job Number: E94945

Report to:

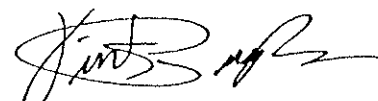
Ensafe
311 Plus Park
Suite 130
Nashville, TN 37217

ATTN: May Heflin

Total number of pages in report: 329



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

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Sample Summary

United Technology Corporation

Job No: E94945

ENSTNN: Carrier, Syracuse, NY

Project No: UARP # 3133-031

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
E94945-1	07/12/01	12:55 JPB	07/13/01	SO	Soil	1 ENS-SYR-TMP-PSA2/SB1-CARS20104
E94945-2	07/12/01	13:13 JPB	07/13/01	SO	Soil	2 ENS-SYR-TMP-PSA2/SB2-CARS20204
E94945-3	07/12/01	13:32 JPB	07/13/01	SO	Soil	3 ENS-SYR-TMP-PSA2/SB3-CARS20304
E94945-4	07/12/01	14:30 JPB	07/13/01	SO	Soil	4 ENS-SYR-TMP-PSA2/SB4-CARS20404
E94945-5	07/12/01	14:30 JPB	07/13/01	SO	Soil	4 ENS-SYR-TMP-PSA2/SB4-CARS20404
E94945-6	07/12/01	13:55 JPB	07/13/01	SO	Soil	5 ENS-SYR-TMP-PSA2/SB5-CARS20502
E94945-7	07/12/01	14:11 JPB	07/13/01	SO	Soil	6 ENS-SYR-TMP-PSA2/SB6-CARS20604
E94945-8	07/12/01	14:58 JPB	07/13/01	SO	Soil	7 ENS-SYR-TMP-PSA2/SB7-CARS20702
E94945-9	07/12/01	15:20 JPB	07/13/01	SO	Soil	8 ENS-SYR-TMP-PSA2/SB8-CARS20804
E94945-10	07/12/01	15:38 JPB	07/13/01	SO	Soil	9 ENS-SYR-TMP-PSA2/SB9-CARS20904
E94945-11	07/12/01	15:48 JPB	07/13/01	SO	Soil	10 ENS-SYR-TMP-PSA2/SB10-CARS21002
E94945-12	07/12/01	00:00 JPB	07/13/01	AQ	Trip Blank Soil	11 ENS-SYR-TRIP BLK-CART071201
E94945-13	07/12/01	08:05 JPB	07/13/01	AQ	Ground Water	12 ENS-SYR-TMP-MW01-CARGMW0104

Sample Summary

(continued)

United Technology Corporation

Job No: E94945

ENSTNN: Carrier, Syracuse, NY

Project No: UARP # 3133-031

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
E94945-14	07/12/01	09:25 JPB	07/13/01	AQ	Ground Water	13 ENS-SYR-TMP-MW06-CARGMW0604
E94945-15	07/12/01	10:35 JPB	07/13/01	AQ	Ground Water	14 ENS-SYR-TMP-MW05-CARGMW0504
E94945-16	07/12/01	12:35 JPB	07/13/01	AQ	Ground Water	15 ENS-SYR-TMP-MW3D-CARGMW3D04
E94945-17	07/12/01	13:15 JPB	07/13/01	AQ	Ground Water	16 ENS-SYR-TMP-MW3S-CARGMW3S04
E94945-18	07/12/01	14:15 JPB	07/13/01	AQ	Ground Water	17 ENS-SYR-TMP-MW08-CARGMW0804
E94945-19	07/12/01	14:15 JPB	07/13/01	AQ	Ground Water	18 ENS-SYR-TMP-MW08-CARHWMW0804
E94945-13A	07/12/01	08:05 JPB	07/13/01	AQ	Groundwater Filtered	12 ENS-SYR-TMP-MW01-CARGMW0104
E94945-14A	07/12/01	09:25 JPB	07/13/01	AQ	Groundwater Filtered	13 ENS-SYR-TMP-MW06-CARGMW0604
E94945-15A	07/12/01	10:35 JPB	07/13/01	AQ	Groundwater Filtered	14 ENS-SYR-TMP-MW05-CARGMW0504
E94945-16A	07/12/01	12:35 JPB	07/13/01	AQ	Groundwater Filtered	15 ENS-SYR-TMP-MW3D-CARGMW3D04
E94945-17A	07/12/01	13:15 JPB	07/13/01	AQ	Groundwater Filtered	16 ENS-SYR-TMP-MW3S-CARGMW3S04

Laboratory Deliverables

1. Cover Page, Title Page Listing Certification #, Facility Name and Address, and Date of Report.
2. Table of Contents.
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds.
4. Summary Table cross-referencing field ID #'s vs. Lab ID #'s
5. Document bound, paginated and legible.
6. Chain of Custody
7. Methodology Summary
8. Laboratory Chronicle and Holding Time Check
9. Results submitted on a dry weight basis (if applicable)
10. Method Detection Limits.
11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.
12. Non-Conformance Summary.

✓
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 QC Reviewer

8/8/2001
 Date

Percent Solids Determination

Accutest Laboratories employs a modified version of ASTM Method 4643-93 for the determination of percent solids to calculate dry weight. All data for solid matrices is reported on a dry weight basis by applying the percent solids data from this determination.

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Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

Title/Cover Page

Deliverable Checklist

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- C. Laboratory Chronicles

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- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Tune Results Summary
- G. Calibration Summary (sorted by Instrument)
 - Initial Calibration Check Summary
 - Continuing Calibration Check Summary
- H. Internal Standard Summary
- I. Sample and Blank Chromatograms, Quant Reports, Mass Spectra, and Library Search Data

Section 3 GC Support Data

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Calibration Summary (sorted by Instrument)
 - Initial Calibration Check Summary
 - Continuing Calibration Check Summary
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- C. Blank Results Summary
 - Initial and Continuing Calibration Blank Summary
 - Method Blank Summary
- D. Batch Quality Control Summary
 - Matrix Spike and Duplicate Results Summary
 - Spike Blank and Lab Control Sample Summary
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- E. Calibration Summary
 - Calibration Check Standards Summary
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Section 5 General Chemistry/Petroleum Hydrocarbon Support Data

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- B. Conformance/Non-Conformance Summary
- C. Batch Quality Control Summary
 - Method Blank and Spike Blank Results Summary
 - Matrix Spike Results Summary
 - Duplicate Results Summary
- D. Raw Data and IR Spectra (Petroleum Hydrocarbons)
- E. Raw Data and Run Record (Hexavalent Chromium)

Results

Report of Analysis

Client Sample ID: 1 ENS-SYR-TMP-PSA2/SB1-CARS20104

Lab Sample ID: E94945-1

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 82.3

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45289.D	1	07/23/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.9	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	ug/kg	
75-25-2	Bromoform	ND	5.9	ug/kg	
74-83-9	Bromomethane	ND	5.9	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.9	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	ug/kg	
75-00-3	Chloroethane	ND	5.9	ug/kg	
67-66-3	Chloroform	ND	5.9	ug/kg	
74-87-3	Chloromethane	ND	5.9	ug/kg	
124-48-1	Dibromochloromethane	ND	5.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.9	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.9	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.9	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	ug/kg	
100-41-4	Ethylbenzene	ND	5.9	ug/kg	
591-78-6	2-Hexanone	ND	5.9	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	ug/kg	
75-09-2	Methylene chloride	ND	5.9	ug/kg	
100-42-5	Styrene	ND	5.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	
127-18-4	Tetrachloroethene	ND	5.9	ug/kg	
108-88-3	Toluene	ND	5.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	ug/kg	
79-01-6	Trichloroethene	49.4	5.9	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	ug/kg	
1330-20-7	Xylene (total)	ND	5.9	ug/kg	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	1 ENS-SYR-TMP-PSA2/SB1-CARS20104		
Lab Sample ID:	E94945-1	Date Sampled:	07/12/01
Matrix:	SO - Soil	Date Received:	07/13/01
Method:	SW846 8260B	Percent Solids:	82.3
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		55-132%
17060-07-0	1,2-Dichloroethane-D4	109%		54-129%
2037-26-5	Toluene-D8	97%		65-133%
460-00-4	4-Bromofluorobenzene	99%		58-137%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 2 ENS-SYR-TMP-PSA2/SB2-CARS20204

Lab Sample ID: E94945-2

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 84.5

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45290.D	1	07/23/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.8	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
74-83-9	Bromomethane	ND	5.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
79-01-6	Trichloroethene	9.7	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	5.8	ug/kg	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	2 ENS-SYR-TMP-PSA2/SB2-CARS20204		
Lab Sample ID:	E94945-2	Date Sampled:	07/12/01
Matrix:	SO - Soil	Date Received:	07/13/01
Method:	SW846 8260B	Percent Solids:	84.5
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		55-132%
17060-07-0	1,2-Dichloroethane-D4	106%		54-129%
2037-26-5	Toluene-D8	98%		65-133%
460-00-4	4-Bromofluorobenzene	114%		58-137%

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ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 3 ENS-SYR-TMP-PSA2/SB3-CARS20304

Lab Sample ID: E94945-3

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 82.7

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45325.D	1	07/24/01	DFT	n/a	n/a	VK1563
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.8	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
74-83-9	Bromomethane	ND	5.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
79-01-6	Trichloroethene	4.5	5.8	ug/kg	J
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	5.8	ug/kg	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 3 ENS-SYR-TMP-PSA2/SB3-CARS20304

Lab Sample ID: E94945-3

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 82.7

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		55-132%
17060-07-0	1,2-Dichloroethane-D4	114%		54-129%
2037-26-5	Toluene-D8	94%		65-133%
460-00-4	4-Bromofluorobenzene	102%		58-137%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 4 ENS-SYR-TMP-PSA2/SB4-CARS20404

Lab Sample ID: E94945-4

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 83.9

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45292.D	1	07/23/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.8	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
74-83-9	Bromomethane	ND	5.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
79-01-6	Trichloroethene	15.1	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	5.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 4 ENS-SYR-TMP-PSA2/SB4-CARS20404

Lab Sample ID: E94945-4

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 83.9

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		55-132%
17060-07-0	1,2-Dichloroethane-D4	101%		54-129%
2037-26-5	Toluene-D8	97%		65-133%
460-00-4	4-Bromofluorobenzene	115%		58-137%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 4 ENS-SYR-TMP-PSA2/SB4-CARS20404

Lab Sample ID: E94945-5

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 83.9

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45308.D	1	07/24/01	DFT	n/a	n/a	VK1563
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.8	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
74-83-9	Bromomethane	ND	5.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
79-01-6	Trichloroethene	10.7	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	5.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 4 ENS-SYR-TMP-PSA2/SB4-CARS20404	
Lab Sample ID: E94945-5	Date Sampled: 07/12/01
Matrix: SO - Soil	Date Received: 07/13/01
Method: SW846 8260B	Percent Solids: 83.9
Project: ENSTNN: Carrier, Syracuse, NY	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		55-132%
17060-07-0	1,2-Dichloroethane-D4	103%		54-129%
2037-26-5	Toluene-D8	95%		65-133%
460-00-4	4-Bromofluorobenzene	109%		58-137%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 5 ENS-SYR-TMP-PSA2/SB5-CARS20502

Lab Sample ID: E94945-6

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 85.5

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45296.D	1	07/23/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.8	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
74-83-9	Bromomethane	ND	5.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
79-01-6	Trichloroethene	11.0	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	5.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 5 ENS-SYR-TMP-PSA2/SB5-CARS20502	
Lab Sample ID: E94945-6	Date Sampled: 07/12/01
Matrix: SO - Soil	Date Received: 07/13/01
Method: SW846 8260B	Percent Solids: 85.5
Project: ENSTNN: Carrier, Syracuse, NY	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		55-132%
17060-07-0	1,2-Dichloroethane-D4	105%		54-129%
2037-26-5	Toluene-D8	98%		65-133%
460-00-4	4-Bromofluorobenzene	116%		58-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 6 ENS-SYR-TMP-PSA2/SB6-CARS20604

Lab Sample ID: E94945-7

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 83.7

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45297.D	1	07/24/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.8	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
74-83-9	Bromomethane	ND	5.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
79-01-6	Trichloroethene	ND	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	5.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 6 ENS-SYR-TMP-PSA2/SB6-CARS20604

Lab Sample ID: E94945-7

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 83.7

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		55-132%
17060-07-0	1,2-Dichloroethane-D4	101%		54-129%
2037-26-5	Toluene-D8	97%		65-133%
460-00-4	4-Bromofluorobenzene	111%		58-137%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 7 ENS-SYR-TMP-PSA2/SB7-CARS20702

Lab Sample ID: E94945-8

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 84.0

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45298.D	1	07/24/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	6.0	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	ug/kg	
75-25-2	Bromoform	ND	6.0	ug/kg	
74-83-9	Bromomethane	ND	6.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	6.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	ug/kg	
75-00-3	Chloroethane	ND	6.0	ug/kg	
67-66-3	Chloroform	ND	6.0	ug/kg	
74-87-3	Chloromethane	ND	6.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	ug/kg	
100-41-4	Ethylbenzene	ND	6.0	ug/kg	
591-78-6	2-Hexanone	ND	6.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	ug/kg	
75-09-2	Methylene chloride	ND	6.0	ug/kg	
100-42-5	Styrene	ND	6.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	
127-18-4	Tetrachloroethene	ND	6.0	ug/kg	
108-88-3	Toluene	ND	6.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	ug/kg	
79-01-6	Trichloroethene	114	6.0	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	ug/kg	
1330-20-7	Xylene (total)	ND	6.0	ug/kg	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	7 ENS-SYR-TMP-PSA2/SB7-CARS20702	Date Sampled:	07/12/01
Lab Sample ID:	E94945-8	Date Received:	07/13/01
Matrix:	SO - Soil	Percent Solids:	84.0
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		55-132%
17060-07-0	1,2-Dichloroethane-D4	106%		54-129%
2037-26-5	Toluene-D8	98%		65-133%
460-00-4	4-Bromofluorobenzene	115%		58-137%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 8 ENS-SYR-TMP-PSA2/SB8-CARS20804

Lab Sample ID: E94945-9

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 82.1

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45299.D	1	07/24/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.9	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	ug/kg	
75-25-2	Bromoform	ND	5.9	ug/kg	
74-83-9	Bromomethane	ND	5.9	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.9	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	ug/kg	
75-00-3	Chloroethane	ND	5.9	ug/kg	
67-66-3	Chloroform	ND	5.9	ug/kg	
74-87-3	Chloromethane	ND	5.9	ug/kg	
124-48-1	Dibromochloromethane	ND	5.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.9	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.9	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.9	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	ug/kg	
100-41-4	Ethylbenzene	ND	5.9	ug/kg	
591-78-6	2-Hexanone	ND	5.9	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	ug/kg	
75-09-2	Methylene chloride	ND	5.9	ug/kg	
100-42-5	Styrene	ND	5.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	
127-18-4	Tetrachloroethene	ND	5.9	ug/kg	
108-88-3	Toluene	ND	5.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	ug/kg	
79-01-6	Trichloroethene	28.3	5.9	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	ug/kg	
1330-20-7	Xylene (total)	ND	5.9	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: 8 ENS-SYR-TMP-PSA2/SB8-CARS20804	
Lab Sample ID: E94945-9	Date Sampled: 07/12/01
Matrix: SO - Soil	Date Received: 07/13/01
Method: SW846 8260B	Percent Solids: 82.1
Project: ENSTNN: Carrier, Syracuse, NY	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		55-132%
17060-07-0	1,2-Dichloroethane-D4	104%		54-129%
2037-26-5	Toluene-D8	97%		65-133%
460-00-4	4-Bromofluorobenzene	106%		58-137%

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9 ENS-SYR-TMP-PSA2/SB9-CARS20904

Lab Sample ID: E94945-10

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 82.7

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45300.D	1	07/24/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.8	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
74-83-9	Bromomethane	ND	5.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
79-01-6	Trichloroethene	27.9	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	5.8	ug/kg	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	9 ENS-SYR-TMP-PSA2/SB9-CARS20904		
Lab Sample ID:	E94945-10	Date Sampled:	07/12/01
Matrix:	SO - Soil	Date Received:	07/13/01
Method:	SW846 8260B	Percent Solids:	82.7
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101 %		55-132 %
17060-07-0	1,2-Dichloroethane-D4	111 %		54-129 %
2037-26-5	Toluene-D8	98 %		65-133 %
460-00-4	4-Bromofluorobenzene	114 %		58-137 %

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 10 ENS-SYR-TMP-PSA2/SB10-CARS21002

Lab Sample ID: E94945-11

Date Sampled: 07/12/01

Matrix: SO - Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: 83.9

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K45301.D	1	07/24/01	DFT	n/a	n/a	VK1562
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	6.0	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	ug/kg	
75-25-2	Bromoform	ND	6.0	ug/kg	
74-83-9	Bromomethane	ND	6.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	6.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	ug/kg	
75-00-3	Chloroethane	ND	6.0	ug/kg	
67-66-3	Chloroform	ND	6.0	ug/kg	
74-87-3	Chloromethane	ND	6.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	ug/kg	
100-41-4	Ethylbenzene	ND	6.0	ug/kg	
591-78-6	2-Hexanone	ND	6.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	ug/kg	
75-09-2	Methylene chloride	ND	6.0	ug/kg	
100-42-5	Styrene	ND	6.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	
127-18-4	Tetrachloroethene	ND	6.0	ug/kg	
108-88-3	Toluene	ND	6.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	ug/kg	
79-01-6	Trichloroethene	20.3	6.0	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	ug/kg	
1330-20-7	Xylene (total)	ND	6.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 10 ENS-SYR-TMP-PSA2/SB10-CARS21002	
Lab Sample ID: E94945-11	Date Sampled: 07/12/01
Matrix: SO - Soil	Date Received: 07/13/01
Method: SW846 8260B	Percent Solids: 83.9
Project: ENSTNN: Carrier, Syracuse, NY	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101 %		55-132 %
17060-07-0	1,2-Dichloroethane-D4	109 %		54-129 %
2037-26-5	Toluene-D8	99 %		65-133 %
460-00-4	4-Bromofluorobenzene	108 %		58-137 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 11 ENS-SYR-TRIP BLK-CART071201							
Lab Sample ID: E94945-12				Date Sampled: 07/12/01			
Matrix: AQ - Trip Blank Soil				Date Received: 07/13/01			
Method: SW846 8260B				Percent Solids: n/a			
Project: ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47357.D	1	07/20/01	GTT	n/a	n/a	VE2519
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 11 ENS-SYR-TRIP BLK-CART071201

Lab Sample ID: E94945-12

Date Sampled: 07/12/01

Matrix: AQ - Trip Blank Soil

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		81-118%
17060-07-0	1,2-Dichloroethane-D4	112%		68-124%
2037-26-5	Toluene-D8	100%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 12 ENS-SYR-TMP-MW01-CARGMW0104

Lab Sample ID: E94945-13

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47349.D	1	07/20/01	GTT	n/a	n/a	VE2519
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	12 ENS-SYR-TMP-MW01-CARGMW0104	Date Sampled:	07/12/01
Lab Sample ID:	E94945-13	Date Received:	07/13/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-118%
17060-07-0	1,2-Dichloroethane-D4	108%		68-124%
2037-26-5	Toluene-D8	96%		85-119%
460-00-4	4-Bromofluorobenzene	101%		75-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 12 ENS-SYR-TMP-MW01-CARGMW0104

Lab Sample ID: E94945-13

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8082 SW846 3510C

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28277.D	1	07/21/01	KLS	07/19/01	OP9795	GAB1592
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		25-134%
877-09-8	Tetrachloro-m-xylene	98%		25-134%
2051-24-3	Decachlorobiphenyl	80%		14-150%
2051-24-3	Decachlorobiphenyl	97%		14-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 12 ENS-SYR-TMP-MW01-CARGMW0104	
Lab Sample ID: E94945-13	Date Sampled: 07/12/01
Matrix: AQ - Ground Water	Date Received: 07/13/01
	Percent Solids: n/a
Project: ENSTNN: Carrier, Syracuse, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	275	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	52800	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Page 1 of 1

Client Sample ID:	12 ENS-SYR-TMP-MW01-CARGMW0104	Date Sampled:	07/12/01
Lab Sample ID:	E94945-13	Date Received:	07/13/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite ^b	<0.010	0.010	mg/l	1	07/16/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	10.6	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides	<0.050	0.050	mg/l	1	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis done out of holding time as per client request.

Report of Analysis

Page 1 of 1

Client Sample ID: 12 ENS-SYR-TMP-MW01-CARGMW0104	
Lab Sample ID: E94945-13A	Date Sampled: 07/12/01
Matrix: AQ - Groundwater Filtered	Date Received: 07/13/01
	Percent Solids: n/a
Project: ENSTNN: Carrier, Syracuse, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	<100	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	51200	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

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RL = Reporting Limit

Report of Analysis

Client Sample ID: 13 ENS-SYR-TMP-MW06-CARGMW0604

Lab Sample ID: E94945-14

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47352.D	1	07/20/01	GTT	n/a	n/a	VE2519
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13 ENS-SYR-TMP-MW06-CARGMW0604	Date Sampled:	07/12/01
Lab Sample ID:	E94945-14	Date Received:	07/13/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		81-118%
17060-07-0	1,2-Dichloroethane-D4	113%		68-124%
2037-26-5	Toluene-D8	96%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: 13 ENS-SYR-TMP-MW06-CARGMW0604

Lab Sample ID: E94945-14

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8082 SW846 3510C

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	AB28278.D	1	07/21/01	KLS	07/19/01	OP9795	GAB1592

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		25-134%
877-09-8	Tetrachloro-m-xylene	109%		25-134%
2051-24-3	Decachlorobiphenyl	70%		14-150%
2051-24-3	Decachlorobiphenyl	79%		14-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13 ENS-SYR-TMP-MW06-CARGMW0604	Date Sampled:	07/12/01
Lab Sample ID:	E94945-14	Date Received:	07/13/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	1310	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	41800	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Page 1 of 1

Client Sample ID: 13 ENS-SYR-TMP-MW06-CARGMW0604

Lab Sample ID: E94945-14

Matrix: AQ - Ground Water

Date Sampled: 07/12/01

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	<1.0	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides	<0.050	0.050	mg/l	1	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Report of Analysis

Page 1 of 1

Client Sample ID: 13 ENS-SYR-TMP-MW06-CARGMW0604

Lab Sample ID: E94945-14A

Date Sampled: 07/12/01

Matrix: AQ - Groundwater Filtered

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	<100	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	39800	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Client Sample ID: 14 ENS-SYR-TMP-MW05-CARGMW0504

Lab Sample ID: E94945-15

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47353.D	1	07/20/01	GTT	n/a	n/a	VE2519
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	14 ENS-SYR-TMP-MW05-CARGMW0504		
Lab Sample ID:	E94945-15	Date Sampled:	07/12/01
Matrix:	AQ - Ground Water	Date Received:	07/13/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-118%
17060-07-0	1,2-Dichloroethane-D4	108%		68-124%
2037-26-5	Toluene-D8	98%		85-119%
460-00-4	4-Bromofluorobenzene	96%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 14 ENS-SYR-TMP-MW05-CARGMW0504

Lab Sample ID: E94945-15

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8082 SW846 3510C

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28279.D	1	07/21/01	KLS	07/19/01	OP9795	GAB1592
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		25-134%
877-09-8	Tetrachloro-m-xylene	74%		25-134%
2051-24-3	Decachlorobiphenyl	90%		14-150%
2051-24-3	Decachlorobiphenyl	86%		14-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 14 ENS-SYR-TMP-MW05-CARGMW0504

Lab Sample ID: E94945-15

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	14.8	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	45.3	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	67000	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	21.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	103000	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Client Sample ID: 14 ENS-SYR-TMP-MW05-CARGMW0504

Lab Sample ID: E94945-15

Matrix: AQ - Ground Water

Date Sampled: 07/12/01

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	15.8	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides ^b	0.47	0.20	mg/l	4	08/06/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Second column analysis indicates possible matrix interference.

Report of Analysis

Page 1 of 1

Client Sample ID: 14 ENS-SYR-TMP-MW05-CARGMW0504

Lab Sample ID: E94945-15A

Date Sampled: 07/12/01

Matrix: AQ - Groundwater Filtered

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	5190	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	95400	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Client Sample ID: 15 ENS-SYR-TMP-MW3D-CARGMW3D04							
Lab Sample ID: E94945-16		Date Sampled: 07/12/01					
Matrix: AQ - Ground Water		Date Received: 07/13/01					
Method: SW846 8260B		Percent Solids: n/a					
Project: ENSTNN: Carrier, Syracuse, NY							
Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47354.D	1	07/20/01	GTT	n/a	n/a	VE2519
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	0.72	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	23.2	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.2	5.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	15 ENS-SYR-TMP-MW3D-CARGMW3D04	Date Sampled:	07/12/01
Lab Sample ID:	E94945-16	Date Received:	07/13/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		81-118%
17060-07-0	1,2-Dichloroethane-D4	120%		68-124%
2037-26-5	Toluene-D8	96%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 15 ENS-SYR-TMP-MW3D-CARGMW3D04

Lab Sample ID: E94945-16

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8082 SW846 3510C

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28280.D	1	07/21/01	KLS	07/19/01	OP9795	GAB1592
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		25-134%
877-09-8	Tetrachloro-m-xylene	120%		25-134%
2051-24-3	Decachlorobiphenyl	99%		14-150%
2051-24-3	Decachlorobiphenyl	116%		14-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 15 ENS-SYR-TMP-MW3D-CARGMW3D04

Lab Sample ID: E94945-16

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	7.1	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	2370	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	49300	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Client Sample ID: 15 ENS-SYR-TMP-MW3D-CARGMW3D04	Date Sampled: 07/12/01
Lab Sample ID: E94945-16	Date Received: 07/13/01
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: ENSTNN: Carrier, Syracuse, NY	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	<1.0	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides	<0.050	0.050	mg/l	1	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Report of Analysis

Page 1 of 1

Client Sample ID:	15 ENS-SYR-TMP-MW3D-CARGMW3D04	Date Sampled:	07/12/01
Lab Sample ID:	E94945-16A	Date Received:	07/13/01
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	<100	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	48700	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Client Sample ID: 16 ENS-SYR-TMP-MW3S-CARGMW3S04

Lab Sample ID: E94945-17

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47348.D	20	07/20/01	GTT	n/a	n/a	VE2519
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	80	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	40	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	164	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	40	ug/l	
75-35-4	1,1-Dichloroethene	38.3	40	ug/l	J
156-59-2	cis-1,2-Dichloroethene	5780	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	13.9	100	ug/l	J
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
591-78-6	2-Hexanone	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	ug/l	
75-09-2	Methylene chloride	ND	40	ug/l	
100-42-5	Styrene	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	40	ug/l	
127-18-4	Tetrachloroethene	ND	20	ug/l	
108-88-3	Toluene	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	60	ug/l	
79-01-6	Trichloroethene	ND	20	ug/l	
75-01-4	Vinyl chloride	567	20	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 16 ENS-SYR-TMP-MW3S-CARGMW3S04**Lab Sample ID:** E94945-17**Date Sampled:** 07/12/01**Matrix:** AQ - Ground Water**Date Received:** 07/13/01**Method:** SW846 8260B**Percent Solids:** n/a**Project:** ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		81-118%
17060-07-0	1,2-Dichloroethane-D4	112%		68-124%
2037-26-5	Toluene-D8	111%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

57

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 16 ENS-SYR-TMP-MW3S-CARGMW3S04

Lab Sample ID: E94945-17

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8082 SW846 3510C

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB28281.D	1	07/21/01	KLS	07/19/01	OP9795	GAB1592
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		25-134%
877-09-8	Tetrachloro-m-xylene	90%		25-134%
2051-24-3	Decachlorobiphenyl	74%		14-150%
2051-24-3	Decachlorobiphenyl	88%		14-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 16 ENS-SYR-TMP-MW3S-CARGMW3S04	Date Sampled: 07/12/01
Lab Sample ID: E94945-17	Date Received: 07/13/01
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: ENSTNN: Carrier, Syracuse, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	7.9	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Iron	8270	100	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Magnesium	73400	5000	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/19/01 EK	EPA 200.7

Report of Analysis

Client Sample ID: 16 ENS-SYR-TMP-MW3S-CARGMW3S04

Lab Sample ID: E94945-17

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	2.8	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides ^b	8.6	2.0	mg/l	40	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Second column analysis indicates possible matrix interference.

Report of Analysis

Page 1 of 1

Client Sample ID: 16 ENS-SYR-TMP-MW3S-CARGMW3S04

Lab Sample ID: E94945-17A

Date Sampled: 07/12/01

Matrix: AQ - Groundwater Filtered

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<5.0	5.0	ug/l	1	07/18/01	07/23/01 ND	EPA 200.7
Chromium	<10	10	ug/l	1	07/18/01	07/23/01 ND	EPA 200.7
Iron	<100	100	ug/l	1	07/18/01	07/23/01 ND	EPA 200.7
Lead	<3.0	3.0	ug/l	1	07/18/01	07/23/01 ND	EPA 200.7
Magnesium	69800	5000	ug/l	1	07/18/01	07/23/01 ND	EPA 200.7
Nickel	<40	40	ug/l	1	07/18/01	07/23/01 ND	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	07/18/01	07/23/01 ND	EPA 200.7

Report of Analysis

Client Sample ID: 17 ENS-SYR-TMP-MW08-CARGMW0804

Lab Sample ID: E94945-18

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	E47355.D	1	07/20/01	GTT	n/a	n/a	VE2519

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	17 ENS-SYR-TMP-MW08-CARGMW0804	Date Sampled:	07/12/01
Lab Sample ID:	E94945-18	Date Received:	07/13/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		81-118%
17060-07-0	1,2-Dichloroethane-D4	110%		68-124%
2037-26-5	Toluene-D8	98%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18 ENS-SYR-TMP-MW08-CARHWMW0804	Date Sampled:	07/12/01
Lab Sample ID:	E94945-19	Date Received:	07/13/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E47356.D	1	07/20/01	GTT	n/a	n/a	VE2519
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

64

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 18 ENS-SYR-TMP-MW08-CARHIMW0804	
Lab Sample ID: E94945-19	Date Sampled: 07/12/01
Matrix: AQ - Ground Water	Date Received: 07/13/01
Method: SW846 8260B	Percent Solids: n/a
Project: ENSTNN: Carrier, Syracuse, NY	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		81-118%
17060-07-0	1,2-Dichloroethane-D4	114%		68-124%
2037-26-5	Toluene-D8	96%		85-119%
460-00-4	4-Bromofluorobenzene	99%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



PAGE 1 OF 2

CHAIN C CUSTODY

2235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

50 TB

ACCUTEST JOB # E94945

ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		MATRIX CODES				
PROJECT NAME WTC - Carrier		LOCATION Synagogue NY		PROJECT NO. 3133-031		FAX # 615-255-9345				
NAME Mary Heflin		ADDRESS 220 Atlantic Way Suite 410		CITY Nashville TN		STATE TN				
ZIP 37228		PHONE # 615-255-9300		SEND REPORT TO: man heflin		PHONE # 615-255-9300				
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		DATE	TIME	SAMPLED BY	PRESERVATION	MATRIX	BOTTLES	LAB USE ONLY
		DATE	TIME							
1	ENK-SYR-TWP-PSA2/581-CARS20104	7-12-01	1255	JPG	50	1	X	4-6'	1421	
2	ENK-SYR-TWP-PSA2/582-CARS20204	7-12-01	1313	JPG	50	1	X	4-6'		
3	ENK-SYR-TWP-PSA2/583-CARS20304	7-12-01	1332	JPG	50	1	X	4-5'		
4	ENK-SYR-TWP-PSA2/584-CARS20404	7-12-01	1430	JPG	50	1	X	4-6'		
5	ENK-SYR-TWP-PSA2/585-CARS20502	7-12-01	1355	JPG	50	1	X	2-4'		
6	ENK-SYR-TWP-PSA2/586-CARS20604	7-12-01	1411	JPG	50	1	X	4-6'		
7	ENK-SYR-TWP-PSA2/587-CARS20702	7-12-01	1458	JPG	50	1	X	2-4'		
8	ENK-SYR-TWP-PSA2/588-CARS20804	7-12-01	1520	JPG	50	1	X	4-6'		
9	ENK-SYR-TWP-PSA2/589-CARS20904	7-12-01	1538	JPG	50	1	X	4-6'		
10	ENK-SYR-TWP-PSA2/5810-CARS21002	7-12-01	1548	JPG	50	1	X	2-4'		
11	ENK-SYR-TWP-TRRUK-CART071201	7-12-01	1	W	2	X	X	TS filled 7/6/01 @ 11:30 AM blank	2015	

DATA DELIVERABLE INFORMATION		DATA TURNAROUND INFORMATION		APPROVED BY:	
<input type="checkbox"/> NJ REDUCED	<input type="checkbox"/> COMMERCIAL "A"	<input checked="" type="checkbox"/> 21 DAYS STANDARD	<input type="checkbox"/> 14 DAYS RUSH		
<input type="checkbox"/> NJ FULL	<input type="checkbox"/> COMMERCIAL "B"	<input type="checkbox"/> 7 DAYS EMERGENCY	<input type="checkbox"/> 7 DAYS EMERGENCY		
<input type="checkbox"/> FULL CLP	<input type="checkbox"/> STATE FORMS	<input checked="" type="checkbox"/> OTHER WTC Contract			
<input type="checkbox"/> DISK DELIVERABLE	<input type="checkbox"/> OTHER (SPECIFY)	21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			
<input checked="" type="checkbox"/> OTHER (SPECIFY)	WTC Contract				

CC not to Mary Heflin

please take soil from outside the PSA2/581-CARS20104 for duplicate analysis and 1st sample

ENK-SYR-TWP-PSA2/584-DUP-CARS20404

WA 8/1/01 07/03/01 - mmh-01

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	
RECEIVED BY:	DATE TIME:
1. <u>WTC</u>	7-13-01 / 10:00
2. <u>WTC</u>	7-13-01 / 10:00
3. <u>WTC</u>	7-13-01 / 10:00
4. <u>WTC</u>	7-13-01 / 10:00
5. <u>WTC</u>	7-13-01 / 10:00

PREPARE WHERE APPLICABLE

TEMPERATURE

50 TB

X-4 E-5 - SAME VO INZ 7-13-01

TR5

ACCUTEST JOB #:

ACCTEST QUOTE #:

[illegible]

204

Technical Report for

United Technology Corporation

ENSTNN: Carrier, Syracuse, NY

UARP # 3133-031

Accutest Job Number: E95042

Report to:


Ensafe
220 Athens Way
Suite 410
Nashville, TN 37217

ATTN: May Heflin

Total number of pages in report: 288



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

United Technology Corporation

Job No: E95042

ENSTNN: Carrier, Syracuse, NY

Project No: UARP # 3133-031

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
E95042-1	07/13/01	12:16 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990409
E95042-2	07/13/01	11:46 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990410
E95042-3	07/13/01	13:55 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990405
E95042-4	07/13/01	13:37 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990406
E95042-5	07/13/01	12:40 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARH990408
E95042-6	07/13/01	12:40 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990408
E95042-7	07/13/01	14:15 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990404
E95042-8	07/13/01	13:00 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990407
E95042-9	07/13/01	14:35 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990403
E95042-10	07/13/01	10:35 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-BAG-CARG990403
E95042-11	07/13/01	10:40 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-BAG-CARG990406
E95042-12	07/13/01	14:55 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-9904-CARG990402
E95042-13	07/13/01	08:00 KC	07/14/01	AQ	Ground Water	ENS-SYR-TMP-0108-CARG010804

Sample Summary

(continued)

United Technology Corporation

Job No: E95042

ENSTNN: Carrier, Syracuse, NY
Project No: UARP # 3133-031

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
E95042-14	07/13/01	08:25 KC	07/14/01	AQ Ground Water	ENS-SYR-TMP-0107-CARG010704
E95042-15	07/13/01	10:05 KC	07/14/01	AQ Field Blank Water	ENS-SYR-TMP-FB-CARF071301
E95042-16	07/13/01	09:55 KC	07/14/01	AQ Ground Water	ENS-SYR-TMP-EQUIP-CARE0715P
E95042-17	07/13/01	09:45 KC	07/14/01	AQ Ground Water	ENS-SYR-TMP-EQUIP-CARE0701WL
E95042-18	07/13/01	15:20 KC	07/14/01	AQ Ground Water	ENS-SYR-TMP-9904-CARG071301
E95042-19	07/13/01	00:00 KC	07/14/01	AQ Trip Blank Water	ENS-SYR-TMP-TB-CART071301
E95042-20	07/13/01	09:15 KC	07/14/01	SO Solid	ENS-SYR-TMP-MH39-CARMH03901
E95042-21	07/13/01	09:15 KC	07/14/01	SO Solid	ENS-SYR-TMP-MH39-CARRM03901

Laboratory Deliverables

1. Cover Page, Title Page Listing Certification #, Facility Name and Address, and Date of Report. ✓
2. Table of Contents. ✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds. ✓
4. Summary Table cross-referencing field ID #'s vs. lab ID #'s. ✓
5. Document bound, paginated and legible. ✓
6. Chain of Custody. ✓
7. Methodology Summary. ✓
8. Laboratory Chronicle and Holding Time Check. ✓
9. Results submitted on a dry weight basis (if applicable) ✓
10. Method Detection Limits. ✓
11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP. ✓
12. Non-Conformance Summary. ✓

Xian Hua Tang
QC Reviewer

8/7/2001
Date

Percent Solids Determination

Accutest Laboratories employs a modified version of ASTM Method 4643-93 for the determination of percent solids to calculate dry weight. All data for solid matrices is reported on a dry weight basis by applying the percent solids data from this determination.

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For
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Results

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990409

Lab Sample ID: E95042-1

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47252.D	20	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	80	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	40	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	60.4	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	40	ug/l	
75-35-4	1,1-Dichloroethene	ND	40	ug/l	
156-59-2	cis-1,2-Dichloroethene	1950	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
591-78-6	2-Hexanone	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	ug/l	
75-09-2	Methylene chloride	ND	40	ug/l	
100-42-5	Styrene	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	40	ug/l	
127-18-4	Tetrachloroethene	ND	20	ug/l	
108-88-3	Toluene	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	60	ug/l	
79-01-6	Trichloroethene	ND	20	ug/l	
75-01-4	Vinyl chloride	268	20	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990409

Lab Sample ID: E95042-1

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	81 %		81-118 %
17060-07-0	1,2-Dichloroethane-D4	79 %		68-124 %
2037-26-5	Toluene-D8	86 %		85-119 %
460-00-4	4-Bromofluorobenzene	105 %		75-127 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990410

Lab Sample ID: E95042-2

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47253.D	10	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	43.4	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	1480	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	7.1	20	ug/l	J
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	219	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990410

Lab Sample ID: E95042-2

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82 %		81-118 %
17060-07-0	1,2-Dichloroethane-D4	80 %		68-124 %
2037-26-5	Toluene-D8	86 %		85-119 %
460-00-4	4-Bromofluorobenzene	104 %		75-127 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990405

Lab Sample ID: E95042-3

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47254.D	10	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	52.0	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	11.2	20	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1730	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	8.5	20	ug/l	J
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	259	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990405
Lab Sample ID: E95042-3
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/13/01
Date Received: 07/14/01
Percent Solids: n/a

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		81-118%
17060-07-0	1,2-Dichloroethane-D4	79%		68-124%
2037-26-5	Toluene-D8	87%		85-119%
460-00-4	4-Bromofluorobenzene	103%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990406		Date Sampled: 07/13/01
Lab Sample ID: E95042-4		Date Received: 07/14/01
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: ENSTNN: Carrier, Syracuse, NY		

Run #	File ID *	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47255.D	10	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	52.7	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	11.2	20	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1810	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	ND	20	ug/l	
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	256	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-9904-CARG990406		
Lab Sample ID:	E95042-4	Date Sampled:	07/13/01
Matrix:	AQ - Ground Water	Date Received:	07/14/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		81-118%
17060-07-0	1,2-Dichloroethane-D4	79%		68-124%
2037-26-5	Toluene-D8	87%		85-119%
460-00-4	4-Bromofluorobenzene	102%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARH990408

Lab Sample ID: E95042-5

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47256.D	10	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	54.4	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	11.6	20	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1850	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	ND	20	ug/l	
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	281	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARH990408

Lab Sample ID: E95042-5

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	81%		81-118%
17060-07-0	1,2-Dichloroethane-D4	79%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	102%		75-127%

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990408

Lab Sample ID: E95042-6

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47257.D	10	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	53.7	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	12.0	20	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1870	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	8.5	20	ug/l	J
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	282	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

18

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	ENS-SYR-TMP-9904-CARG990408	Date Sampled:	07/13/01
Lab Sample ID:	E95042-6	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		81-118%
17060-07-0	1,2-Dichloroethane-D4	79%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	100%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990404

Lab Sample ID: E95042-7

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47258.D	20	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	80	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	40	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	69.9	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	40	ug/l	
75-35-4	1,1-Dichloroethene	ND	40	ug/l	
156-59-2	cis-1,2-Dichloroethene	2390	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
591-78-6	2-Hexanone	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	ug/l	
75-09-2	Methylene chloride	15.0	40	ug/l	J
100-42-5	Styrene	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	40	ug/l	
127-18-4	Tetrachloroethene	ND	20	ug/l	
108-88-3	Toluene	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	60	ug/l	
79-01-6	Trichloroethene	ND	20	ug/l	
75-01-4	Vinyl chloride	338	20	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

20

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: ENS-SYR-TMP-9904-CARG990404

Lab Sample ID: E95042-7

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		81-118%
17060-07-0	1,2-Dichloroethane-D4	78%		68-124%
2037-26-5	Toluene-D8	87%		85-119%
460-00-4	4-Bromofluorobenzene	99%		75-127%

21

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990407							
Lab Sample ID: E95042-8				Date Sampled: 07/13/01			
Matrix: AQ - Ground Water				Date Received: 07/14/01			
Method: SW846 8260B				Percent Solids: n/a			
Project: ENSTNN: Carrier, Syracuse, NY							
	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47259.D	20	07/25/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	80	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	40	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	61.1	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	40	ug/l	
75-35-4	1,1-Dichloroethene	ND	40	ug/l	
156-59-2	cis-1,2-Dichloroethene	2070	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
591-78-6	2-Hexanone	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	ug/l	
75-09-2	Methylene chloride	14.8	40	ug/l	J
100-42-5	Styrene	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	40	ug/l	
127-18-4	Tetrachloroethene	ND	20	ug/l	
108-88-3	Toluene	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	60	ug/l	
79-01-6	Trichloroethene	ND	20	ug/l	
75-01-4	Vinyl chloride	332	20	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

22

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-9904-CARG990407	Date Sampled:	07/13/01
Lab Sample ID:	E95042-8	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		81-118%
17060-07-0	1,2-Dichloroethane-D4	78%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990403

Lab Sample ID: E95042-9

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47260.D	10	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	45.1	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	10.3	20	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1600	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	6.8	20	ug/l	J
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	230	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

'24

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	ENS-SYR-TMP-9904-CARG990403		
Lab Sample ID:	E95042-9	Date Sampled:	07/13/01
Matrix:	AQ - Ground Water	Date Received:	07/14/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		81-118%
17060-07-0	1,2-Dichloroethane-D4	77%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	99%		75-127%

25

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-BAG-CARG990403

Lab Sample ID: E95042-10

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47261.D	25	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	120	ug/l	
71-43-2	Benzene	ND	25	ug/l	
75-27-4	Bromodichloromethane	ND	25	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
74-83-9	Bromomethane	ND	120	ug/l	
78-93-3	2-Butanone (MEK)	ND	120	ug/l	
75-15-0	Carbon disulfide	ND	120	ug/l	
56-23-5	Carbon tetrachloride	ND	25	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	ND	120	ug/l	
67-66-3	Chloroform	ND	120	ug/l	
74-87-3	Chloromethane	ND	120	ug/l	
124-48-1	Dibromochloromethane	ND	120	ug/l	
75-34-3	1,1-Dichloroethane	137	120	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	4080	120	ug/l	
156-60-5	trans-1,2-Dichloroethene	22.1	120	ug/l	J
78-87-5	1,2-Dichloropropane	ND	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	25	ug/l	
591-78-6	2-Hexanone	ND	120	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	120	ug/l	
75-09-2	Methylene chloride	ND	50	ug/l	
100-42-5	Styrene	ND	120	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethene	ND	25	ug/l	
108-88-3	Toluene	ND	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	120	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	75	ug/l	
79-01-6	Trichloroethene	ND	25	ug/l	
75-01-4	Vinyl chloride	500	25	ug/l	
1330-20-7	Xylene (total)	ND	120	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BAG-CARG990403	Date Sampled:	07/13/01
Lab Sample ID:	E95042-10	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		81-118%
17060-07-0	1,2-Dichloroethane-D4	77%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	99%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-BAG-CARG990406

Lab Sample ID: E95042-11

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47262.D	50	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	200	ug/l	
74-83-9	Bromomethane	ND	250	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	ug/l	
75-15-0	Carbon disulfide	ND	250	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	250	ug/l	
67-66-3	Chloroform	ND	250	ug/l	
74-87-3	Chloromethane	ND	250	ug/l	
124-48-1	Dibromochloromethane	ND	250	ug/l	
75-34-3	1,1-Dichloroethane	182	250	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	6720	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	250	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
100-42-5	Styrene	ND	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	150	ug/l	
79-01-6	Trichloroethene	ND	50	ug/l	
75-01-4	Vinyl chloride	1090	50	ug/l	
1330-20-7	Xylene (total)	ND	250	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BAG-CARG990406		
Lab Sample ID:	E95042-11	Date Sampled:	07/13/01
Matrix:	AQ - Ground Water	Date Received:	07/14/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		81-118%
17060-07-0	1,2-Dichloroethane-D4	77%		68-124%
2037-26-5	Toluene-D8	87%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG990402

Lab Sample ID: E95042-12

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47263.D	10	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	32.0	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	1160	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	ND	20	ug/l	
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	190	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

30

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-9904-CARG990402	Date Sampled:	07/13/01
Lab Sample ID:	E95042-12	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		81-118%
17060-07-0	1,2-Dichloroethane-D4	78%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-0108-CARG010804

Lab Sample ID: E95042-13

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47264.D	50	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	200	ug/l	
74-83-9	Bromomethane	ND	250	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	ug/l	
75-15-0	Carbon disulfide	ND	250	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	250	ug/l	
67-66-3	Chloroform	ND	250	ug/l	
74-87-3	Chloromethane	ND	250	ug/l	
124-48-1	Dibromochloromethane	ND	250	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	7020	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	29.2	250	ug/l	J
78-87-5	1,2-Dichloropropane	ND	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
100-42-5	Styrene	ND	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	150	ug/l	
79-01-6	Trichloroethene	8760	50	ug/l	
75-01-4	Vinyl chloride	505	50	ug/l	
1330-20-7	Xylene (total)	ND	250	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-0108-CARG010804	Date Sampled:	07/13/01
Lab Sample ID:	E95042-13	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		81-118%
17060-07-0	1,2-Dichloroethane-D4	77%		68-124%
2037-26-5	Toluene-D8	87%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-0107-CARG010704

Lab Sample ID: E95042-14

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47265.D	1	07/26/01	MRD	n/a	n/a	VA1240
Run #2	A47296.D	2	07/26/01	MRD	n/a	n/a	VA1240

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.0	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	249 ^a	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.5	5.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	42.6	1.0	ug/l	
75-01-4	Vinyl chloride	11.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	ENS-SYR-TMP-0107-CARG010704	Date Sampled:	07/13/01
Lab Sample ID:	E95042-14	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%	81%	81-118%
17060-07-0	1,2-Dichloroethane-D4	78%	77%	68-124%
2037-26-5	Toluene-D8	85%	86%	85-119%
460-00-4	4-Bromofluorobenzene	95%	105%	75-127%

(a) Result is from Run# 2

35

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-FB-CARF071301
 Lab Sample ID: E95042-15
 Matrix: AQ - Field Blank Water
 Method: SW846 8082 SW846 3510C
 Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/13/01
 Date Received: 07/14/01
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW25328.D	1	07/17/01	YYX	07/17/01	OP9795	GWW851
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	1.7	ug/l	
11104-28-2	Aroclor 1221	ND	1.7	ug/l	
11141-16-5	Aroclor 1232	ND	1.7	ug/l	
53469-21-9	Aroclor 1242	ND	1.7	ug/l	
12672-29-6	Aroclor 1248	ND	1.7	ug/l	
11097-69-1	Aroclor 1254	ND	1.7	ug/l	
11096-82-5	Aroclor 1260	ND	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		25-134%
877-09-8	Tetrachloro-m-xylene	82%		25-134%
2051-24-3	Decachlorobiphenyl	44%		14-150%
2051-24-3	Decachlorobiphenyl	50%		14-150%

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ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-EQUIP-CARE0715P

Lab Sample ID: E95042-16

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47271.D	1	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.6	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-EQUIP-CARE0715P	Date Sampled:	07/13/01
Lab Sample ID:	E95042-16	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		81-118%
17060-07-0	1,2-Dichloroethane-D4	77%		68-124%
2037-26-5	Toluene-D8	87%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

000 '38

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-EQUIP-CARE0701WL

Lab Sample ID: E95042-17

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47272.D	1	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	10.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-EQUIP-CARE0701WL		
Lab Sample ID:	E95042-17	Date Sampled:	07/13/01
Matrix:	AQ - Ground Water	Date Received:	07/14/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		81-118%
17060-07-0	1,2-Dichloroethane-D4	78%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	99%		75-127%

40

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-9904-CARG071301

Lab Sample ID: E95042-18

Date Sampled: 07/13/01

Matrix: AQ - Ground Water

Date Received: 07/14/01

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47273.D	10	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	34.4	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	9.7	20	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1210	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	ND	20	ug/l	
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	ND	10	ug/l	
75-01-4	Vinyl chloride	199	10	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	ENS-SYR-TMP-9904-CARG071301	Date Sampled:	07/13/01
Lab Sample ID:	E95042-18	Date Received:	07/14/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		81-118%
17060-07-0	1,2-Dichloroethane-D4	78%		68-124%
2037-26-5	Toluene-D8	86%		85-119%
460-00-4	4-Bromofluorobenzene	98%		75-127%

42

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-TB-CART071301
 Lab Sample ID: E95042-19
 Matrix: AQ - Trip Blank Water
 Method: SW846 8260B
 Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 07/13/01
 Date Received: 07/14/01
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A47274.D	1	07/26/01	MRD	n/a	n/a	VA1240
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	ug/l	

000 43

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-TB-CART071301	Date Sampled:	07/13/01
Lab Sample ID:	E95042-19	Date Received:	07/14/01
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		81-118%
17060-07-0	1,2-Dichloroethane-D4	77%		68-124%
2037-26-5	Toluene-D8	87%		85-119%
460-00-4	4-Bromofluorobenzene	97%		75-127%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-MH39-CARMH03901

Lab Sample ID: E95042-20

Date Sampled: 07/13/01

Matrix: SO - Solid

Date Received: 07/14/01

Method: SW846 8082 SW846 3550B

Percent Solids: 54.8

Project: ENSTNN: Carrier, Syracuse, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50909.D	1	07/25/01	LLP	07/17/01	OP9802	GCD1938
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	33	ug/kg	
11104-28-2	Aroclor 1221	ND	33	ug/kg	
11141-16-5	Aroclor 1232	ND	33	ug/kg	
53469-21-9	Aroclor 1242	ND	33	ug/kg	
12672-29-6	Aroclor 1248	ND	33	ug/kg	
11097-69-1	Aroclor 1254	ND	33	ug/kg	
11096-82-5	Aroclor 1260	1270	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73 %		26-126 %
877-09-8	Tetrachloro-m-xylene	84 %		26-126 %
2051-24-3	Decachlorobiphenyl	114 %		23-149 %
2051-24-3	Decachlorobiphenyl	81 %		23-149 %

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: ENS-SYR-TMP-MH39-CARRM03901							
Lab Sample ID: E95042-21		Date Sampled: 07/13/01					
Matrix: SO - Solid		Date Received: 07/14/01					
Method: SW846 8082 SW846 3550B		Percent Solids: 62.8					
Project: ENSTNN: Carrier, Syracuse, NY							
Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD50910.D	1	07/25/01	LLP	07/17/01	OP9802	GCD1938
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	28	ug/kg	
11104-28-2	Aroclor 1221	ND	28	ug/kg	
11141-16-5	Aroclor 1232	ND	28	ug/kg	
53469-21-9	Aroclor 1242	ND	28	ug/kg	
12672-29-6	Aroclor 1248	ND	28	ug/kg	
11097-69-1	Aroclor 1254	ND	28	ug/kg	
11096-82-5	Aroclor 1260	386	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-126 %
877-09-8	Tetrachloro-m-xylene	80%		26-126 %
2051-24-3	Decachlorobiphenyl	116%		23-149 %
2051-24-3	Decachlorobiphenyl	93%		23-149 %

46

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



CHAIN C. CUSTODY

22235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

ACCOUNTS JOB #:

2405-042

ACCU TEST QUOTE #:

[illegible]

571



ACCUTEST®

CHAIN C CUSTODY

2235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

ACCOUNT JOB #:

695042

ACCTEST QUOTE #:

[illegible]

IRS

APPENDIX B

Laboratory Analytical Data Sheets (June 2002)

**GROUNDWATER MONITORING WELL
ANALYTICAL DATA (site-wide)
June 2002**

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW01 CARGMW0105	Date Sampled:	06/24/02
Lab Sample ID:	N17045-17R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23232.D	1	07/05/02	JMC	n/a	n/a	VU726
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW01 CARGMW0105	Date Sampled:	06/24/02
Lab Sample ID:	N17045-17R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	104%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW1 CARGMW1000	Date Sampled:	06/24/02
Lab Sample ID:	N17045-18R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23173.D	1	07/04/02	XAH	n/a	n/a	VU724
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW1 CARGMW1000	Date Sampled:	06/24/02
Lab Sample ID:	N17045-18R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW3S CARGMW3S05	Date Sampled:	06/25/02
Lab Sample ID:	N17045-9R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23211.D	10	07/05/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	163	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	34.0	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	5410	50	ug/l	E
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	ND	20	ug/l	
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	2.6	10	ug/l	J

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW3S CARGMW3S05	Date Sampled:	06/25/02
Lab Sample ID:	N17045-9R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	746	10	ug/l	
1330-20-7	Xylene (total)	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		83-118%
17060-07-0	1,2-Dichloroethane-D4	118%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	110%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW3S CARHWMW3505	Date Sampled:	06/25/02
Lab Sample ID:	N17045-10R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23212.D	10	07/05/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	159	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	34.0	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	5320	50	ug/l	E
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	ND	20	ug/l	
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	2.2	10	ug/l	J

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW3S CARHWMW3505	Date Sampled:	06/25/02
Lab Sample ID:	N17045-10R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	739	10	ug/l	
1330-20-7	Xylene (total)	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	109%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW3D CARGMW3D05			Date Sampled:	06/25/02
Lab Sample ID:	N17045-11R			Date Received:	06/26/02
Matrix:	AQ - Ground Water			Percent Solids:	n/a
Method:	SW846 8260B				
Project:	ENSTNN: Carrier, Syracuse, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23213.D	1	07/05/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.2	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW3D CARGMW3D05		
Lab Sample ID:	N17045-11R	Date Sampled:	06/25/02
Matrix:	AQ - Ground Water	Date Received:	06/26/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		69-127%
2037-26-5	Toluene-D8	101%		82-119%
460-00-4	4-Bromofluorobenzene	108%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW05 GARGMW0505	Date Sampled:	06/24/02
Lab Sample ID:	N17045-19R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23177.D	1	07/04/02	XAH	n/a	n/a	VU724
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	117	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	1.4	5.0	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.24	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW05 GARGMW0505	Date Sampled:	06/24/02
Lab Sample ID:	N17045-19R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW06 CARGMW0605	Date Sampled:	06/24/02
Lab Sample ID:	N17045-16R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23231.D	1	07/05/02	JMC	n/a	n/a	VU726
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW06 CARGMW0605	Date Sampled:	06/24/02
Lab Sample ID:	N17045-16R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	102%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW07 CARGMW0705	Date Sampled:	06/25/02
Lab Sample ID:	N17045-4R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A59306.D	2.5	07/09/02	NM	n/a	n/a	VA1617
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	25	ug/l	
71-43-2	Benzene	ND	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	ug/l	
75-25-2	Bromoform	ND	10	ug/l	
74-83-9	Bromomethane	ND	13	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	ug/l	
75-15-0	Carbon disulfide	ND	13	ug/l	
56-23-5	Carbon tetrachloride	ND	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	ug/l	
75-00-3	Chloroethane	ND	13	ug/l	
67-66-3	Chloroform	ND	13	ug/l	
74-87-3	Chloromethane	ND	13	ug/l	
124-48-1	Dibromochloromethane	ND	13	ug/l	
75-34-3	1,1-Dichloroethane	ND	13	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	13	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	13	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	ug/l	
100-41-4	Ethylbenzene	ND	2.5	ug/l	
591-78-6	2-Hexanone	ND	13	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	13	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
100-42-5	Styrene	ND	13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethene	ND	2.5	ug/l	
108-88-3	Toluene	ND	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	7.5	ug/l	
79-01-6	Trichloroethene	ND	2.5	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW07 CARGMW0705	Date Sampled:	06/25/02
Lab Sample ID:	N17045-4R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.5	ug/l	
1330-20-7	Xylene (total)	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		69-127%
2037-26-5	Toluene-D8	90%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW08 CARGMW0805	Date Sampled:	06/24/02
Lab Sample ID:	N17045-15R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23217.D	1	07/05/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW08 CARGMW0805	Date Sampled:	06/24/02
Lab Sample ID:	N17045-15R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW09 CARGMW0905	Date Sampled:	06/25/02
Lab Sample ID:	N17045-8R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23163.D	1	07/04/02	XAH	n/a	n/a	VU724
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	1.9	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.3	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	5.9	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	6.6	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW09 CARGMW0905	Date Sampled:	06/25/02
Lab Sample ID:	N17045-8R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	127%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW11 CARGMW1105	Date Sampled:	06/25/02
Lab Sample ID:	N17045-3R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23154.D	1	07/03/02	XAH	n/a	n/a	VU724
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW11 CARGMW1105	Date Sampled:	06/25/02
Lab Sample ID:	N17045-3R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	105%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW12 CARGMW1205	Date Sampled:	06/25/02
Lab Sample ID:	N17045-2R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23153.D	1	07/03/02	XAH	n/a	n/a	VU724
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW12 CARGMW1205	Date Sampled:	06/25/02
Lab Sample ID:	N17045-2R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	105%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW14 CARGMW1405	Date Sampled:	06/25/02
Lab Sample ID:	N17045-7R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23162.D	1	07/04/02	XAH	n/a	n/a	VU724
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW14 CARGMW1405	Date Sampled:	06/25/02
Lab Sample ID:	N17045-7R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-118%
17060-07-0	1,2-Dichloroethane-D4	127%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW14D CARGMW14D05	Date Sampled:	06/25/02
Lab Sample ID:	N17045-5R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A59302.D	1	07/09/02	NM	n/a	n/a	VA1617
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW14D CARGMW14D05	Date Sampled:	06/25/02
Lab Sample ID:	N17045-5R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		69-127%
2037-26-5	Toluene-D8	91%		82-119%
460-00-4	4-Bromofluorobenzene	104%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW14D CARHMW14D05	Date Sampled:	06/25/02
Lab Sample ID:	N17045-6R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23174.D	1	07/04/02	XAH	n/a	n/a	VU724
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW14D CARHWMW14D05		
Lab Sample ID:	N17045-6R	Date Sampled:	06/25/02
Matrix:	AQ - Ground Water	Date Received:	06/26/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	107%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-MW15D CARGMW15D05

Lab Sample ID: N17045-1R

Date Sampled: 06/25/02

Matrix: AQ - Ground Water

Date Received: 06/26/02

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23152.D	1	07/03/02	XAH	n/a	n/a	VU724
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW15D CARGMW15D05	Date Sampled:	06/25/02
Lab Sample ID:	N17045-1R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	102%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW16D CARGMW16D05			Date Sampled:	06/24/02
Lab Sample ID:	N17045-14R			Date Received:	06/26/02
Matrix:	AQ - Ground Water			Percent Solids:	n/a
Method:	SW846 8260B				
Project:	ENSTNN: Carrier, Syracuse, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23304.D	1	07/07/02	JMC	n/a	n/a	VU728
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	76.8	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	7.5	10	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW16D CARGMW16D05	Date Sampled:	06/24/02
Lab Sample ID:	N17045-14R	Date Received:	06/26/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		83-118%
17060-07-0	1,2-Dichloroethane-D4	126%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	111%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW17 CARGMW1705	Date Sampled:	06/26/02
Lab Sample ID:	N17120-1R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23256.D	1	07/06/02	JMC	n/a	n/a	VU727
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW17 CARGMW1705	Date Sampled:	06/26/02
Lab Sample ID:	N17120-1R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW18 CARGMW1805	Date Sampled:	06/26/02
Lab Sample ID:	N17120-2R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23243.D	10	07/05/02	JMC	n/a	n/a	VU726
Run #2 ^a	U23654.D	50	07/17/02	LY	n/a	n/a	VU738

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	40	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	10.6	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	15.4	20	ug/l	J
156-59-2	cis-1,2-Dichloroethene	2770 ^b	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	35.7	50	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	ug/l	
75-09-2	Methylene chloride	ND	20	ug/l	
100-42-5	Styrene	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	10	ug/l	
108-88-3	Toluene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	30	ug/l	
79-01-6	Trichloroethene	5580 ^b	50	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-MW18 CARGMW1805	Date Sampled:	06/26/02
Lab Sample ID:	N17120-2R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	233	10	ug/l	
1330-20-7	Xylene (total)	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%	113%	83-118%
17060-07-0	1,2-Dichloroethane-D4	115%	122%	69-127%
2037-26-5	Toluene-D8	101%	118%	82-119%
460-00-4	4-Bromofluorobenzene	107%	118%	81-121%

(a) ORIGINAL RUN WITHIN HOLDING TIME.

(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TWP-MW19-CARGMW1901	Date Sampled:	06/28/02
Lab Sample ID:	N17331-4R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23415.D	1	07/10/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	0.32	5.0	ug/l	J
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	0.71	1.0	ug/l	J

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TWP-MW19-CARGMW1901	Date Sampled:	06/28/02
Lab Sample ID:	N17331-4R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK		Date Sampled: 06/26/02	
Lab Sample ID: N17120-3R		Date Received: 06/27/02	
Matrix: AQ - Trip Blank Water		Percent Solids: n/a	
Method: SW846 8260B			
Project: ENSTNN: Carrier, Syracuse, NY			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23255.D	1	07/06/02	JMC	n/a	n/a	VU727
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	06/26/02
Lab Sample ID:	N17120-3R	Date Received:	06/27/02
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	107%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

HYDROPUNCH ANALYTICAL DATA
SWMUs 5 and 6
June 2002

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0610-CARGHP0610	Date Sampled:	06/24/02
Lab Sample ID:	N17021-3R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23186.D	200	07/04/02	XAH	n/a	n/a	VU725
Run #2	U23278.D	500	07/06/02	JMC	n/a	n/a	VU728

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2000	ug/l	
71-43-2	Benzene	ND	200	ug/l	
75-27-4	Bromodichloromethane	ND	200	ug/l	
75-25-2	Bromoform	ND	800	ug/l	
74-83-9	Bromomethane	ND	1000	ug/l	
78-93-3	2-Butanone (MEK)	ND	2000	ug/l	
75-15-0	Carbon disulfide	ND	1000	ug/l	
56-23-5	Carbon tetrachloride	ND	200	ug/l	
108-90-7	Chlorobenzene	ND	400	ug/l	
75-00-3	Chloroethane	ND	1000	ug/l	
67-66-3	Chloroform	ND	1000	ug/l	
74-87-3	Chloromethane	ND	1000	ug/l	
124-48-1	Dibromochloromethane	ND	1000	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	ug/l	
107-06-2	1,2-Dichloroethane	ND	400	ug/l	
75-35-4	1,1-Dichloroethene	ND	400	ug/l	
156-59-2	cis-1,2-Dichloroethene	31900 ^a	2500	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	ug/l	
100-41-4	Ethylbenzene	ND	200	ug/l	
591-78-6	2-Hexanone	ND	1000	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	ug/l	
75-09-2	Methylene chloride	ND	400	ug/l	
100-42-5	Styrene	ND	1000	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	ug/l	
127-18-4	Tetrachloroethene	ND	200	ug/l	
108-88-3	Toluene	ND	200	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	600	ug/l	
79-01-6	Trichloroethene	13500	200	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0610-CARGHP0610	Date Sampled:	06/24/02
Lab Sample ID:	N17021-3R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	200	ug/l	
1330-20-7	Xylene (total)	ND	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	113%	112%	69-127%
2037-26-5	Toluene-D8	103%	102%	82-119%
460-00-4	4-Bromofluorobenzene	107%	107%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0620-CARGHP0620	Date Sampled:	06/25/02
Lab Sample ID:	N17021-4R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23187.D	1	07/04/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	54.4	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	271	5.0	ug/l	E
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	39.2	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0620-CARGHP0620	Date Sampled:	06/25/02
Lab Sample ID:	N17021-4R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	105%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0630-CARHP0630	Date Sampled:	06/25/02
Lab Sample ID:	N17021-5R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23188.D	1	07/04/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	5.2	10	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0630-CARHP0630	Date Sampled:	06/25/02
Lab Sample ID:	N17021-5R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		69-127%
2037-26-5	Toluene-D8	104%		82-119%
460-00-4	4-Bromofluorobenzene	107%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP07-CARGHP0710	Date Sampled:	06/25/02
Lab Sample ID:	N17021-7R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23189.D	1	07/04/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	9.0	10	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.53	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP07-CARGHP0710	Date Sampled:	06/25/02
Lab Sample ID:	N17021-7R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		83-118%
17060-07-0	1,2-Dichloroethane-D4	119%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	107%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0720-CARGHP0720	Date Sampled:	06/26/02
Lab Sample ID:	N17121-1R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T36231.D	1	07/09/02	GTT	n/a	n/a	VT1192
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	0.91	2.0	ug/l	J
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0720-CARGHP0720	Date Sampled:	06/26/02
Lab Sample ID:	N17121-1R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	102%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0720-CARGHP0720	Date Sampled:	06/26/02
Lab Sample ID:	N17121-2R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T36232.D	1	07/09/02	GTT	n/a	n/a	VT1192
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0720-CARGHP0720	Date Sampled:	06/26/02
Lab Sample ID:	N17121-2R	Date Received:	06/27/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	104%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-HP0814-CARGHP0814
 Lab Sample ID: N17331-1R
 Matrix: AQ - Ground Water
 Method: SW846 8260B
 Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 06/27/02
 Date Received: 06/28/02
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23413.D	1	07/10/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	0.73	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.1	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	0.70	1.0	ug/l	J

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0814-CARGHP0814	Date Sampled:	06/27/02
Lab Sample ID:	N17331-1R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		69-127%
2037-26-5	Toluene-D8	98%		82-119%
460-00-4	4-Bromofluorobenzene	102%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0821-CARGHP0821	Date Sampled:	06/27/02
Lab Sample ID:	N17331-2R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23414.D	1	07/10/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0821-CARGHP0821	Date Sampled:	06/27/02
Lab Sample ID:	N17331-2R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		69-127%
2037-26-5	Toluene-D8	98%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TWP-HP0910-CARGHP0910	Date Sampled:	06/28/02
Lab Sample ID:	N17331-5R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23416.D	1	07/10/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	0.65	5.0	ug/l	J
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	21.2	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	10.9	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	629	5.0	ug/l	E
156-60-5	trans-1,2-Dichloroethene	1.9	5.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	15.8	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	0.43	3.0	ug/l	J
79-01-6	Trichloroethene	184	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TWP-HP0910-CARGHP0910	Date Sampled:	06/28/02
Lab Sample ID:	N17331-5R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	7.8	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	105%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0920-CARGHP0920	Date Sampled:	06/28/02
Lab Sample ID:	N17331-6R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23417.D	1	07/10/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	3.4	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	0.55	2.0	ug/l	J
156-59-2	cis-1,2-Dichloroethene	29.8	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	1.7	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP0920-CARGHP0920	Date Sampled:	06/28/02
Lab Sample ID:	N17331-6R	Date Received:	06/28/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		69-127%
2037-26-5	Toluene-D8	98%		82-119%
460-00-4	4-Bromofluorobenzene	104%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENS-SYR-TMP-HP1002-CARGHP1002

Lab Sample ID: N17424-1R

Date Sampled: 07/01/02

Matrix: AQ - Ground Water

Date Received: 07/02/02

Method: SW846 8260B

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23489.D	1	07/12/02	XAH	n/a	n/a	VU733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	12.0	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	2.4	10	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	12.5	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	23.0	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	9.4	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.6	5.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	2.9	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	3.6	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.2	5.0	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	2.4	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP1002-CARGHP1002	Date Sampled:	07/01/02
Lab Sample ID:	N17424-1R	Date Received:	07/02/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	2.7	1.0	ug/l	
1330-20-7	Xylene (total)	9.6	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		69-127%
2037-26-5	Toluene-D8	113%		82-119%
460-00-4	4-Bromofluorobenzene	104%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP1010-CARGHP1010	Date Sampled:	07/01/02
Lab Sample ID:	N17424-2R	Date Received:	07/02/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23427.D	5	07/11/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	20	ug/l	
74-83-9	Bromomethane	ND	25	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	25	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	ND	25	ug/l	
74-87-3	Chloromethane	ND	25	ug/l	
124-48-1	Dibromochloromethane	ND	25	ug/l	
75-34-3	1,1-Dichloroethane	122	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
75-35-4	1,1-Dichloroethene	48.0	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	2490	25	ug/l	E
156-60-5	trans-1,2-Dichloroethene	ND	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
100-42-5	Styrene	ND	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	ug/l	
108-88-3	Toluene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	15	ug/l	
79-01-6	Trichloroethene	14.7	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP1010-CARGHP1010	Date Sampled:	07/01/02
Lab Sample ID:	N17424-2R	Date Received:	07/02/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	114	5.0	ug/l	
1330-20-7	Xylene (total)	2.8	5.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	127%		69-127%
2037-26-5	Toluene-D8	101%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP1020-CARGHP1020	Date Sampled:	07/01/02
Lab Sample ID:	N17424-3R	Date Received:	07/02/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23457.D	1	07/11/02	XAH	n/a	n/a	VU732
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.0	10	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	0.60	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	0.66	2.0	ug/l	J
156-59-2	cis-1,2-Dichloroethene	5.3	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	15.8	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP1020-CARGHP1020	Date Sampled:	07/01/02
Lab Sample ID:	N17424-3R	Date Received:	07/02/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		69-127%
2037-26-5	Toluene-D8	85%		82-119%
460-00-4	4-Bromofluorobenzene	83%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP1020DUP-CARHHP1020	Date Sampled:	07/01/02
Lab Sample ID:	N17424-4R	Date Received:	07/02/02
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23488.D	1	07/12/02	XAH	n/a	n/a	VU733
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.3	10	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	0.46	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.5	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	13.7	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-HP1020DUP-CARHHP1020		
Lab Sample ID:	N17424-4R	Date Sampled:	07/01/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		69-127%
2037-26-5	Toluene-D8	114%		82-119%
460-00-4	4-Bromofluorobenzene	109%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-TRIPBLK-CART070102	Date Sampled:	07/01/02
Lab Sample ID:	N17424-6R	Date Received:	07/02/02
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23423.D	1	07/11/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	2.4	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	5.5	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-TRIPBLK-CART070102	Date Sampled:	07/01/02
Lab Sample ID:	N17424-6R	Date Received:	07/02/02
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	123%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-EQUIPBLK-CARE070102	Date Sampled:	07/01/02
Lab Sample ID:	N17424-7R	Date Received:	07/02/02
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23424.D	1	07/11/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	2.3	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	4.7	5.0	ug/l	J
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-EQUIPBLK-CARE070102	Date Sampled:	07/01/02
Lab Sample ID:	N17424-7R	Date Received:	07/02/02
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	124%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	107%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-FIELDBLK-CARF070102	Date Sampled:	07/01/02
Lab Sample ID:	N17424-8R	Date Received:	07/02/02
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23425.D	1	07/11/02	XAH	n/a	n/a	VU731
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	2.3	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	5.2	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-FIELDBLK-CARF070102	Date Sampled:	07/01/02
Lab Sample ID:	N17424-8R	Date Received:	07/02/02
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	126%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SURFACE WATER ANALYTICAL DATA
CARRIER-DEWITT LANDFILL
June 2002

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-SW1-CARWSW0101	Date Sampled:	06/24/02
Lab Sample ID:	N17021-1R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23184.D	1	07/04/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	8.2	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-SW1-CARWSW0101	Date Sampled:	06/24/02
Lab Sample ID:	N17021-1R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-SW2-CARWSW0201	Date Sampled:	06/24/02
Lab Sample ID:	N17021-2R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23185.D	1	07/04/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-SW2-CARWSW0201	Date Sampled:	06/24/02
Lab Sample ID:	N17021-2R	Date Received:	06/26/02
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		69-127%
2037-26-5	Toluene-D8	101%		82-119%
460-00-4	4-Bromofluorobenzene	107%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

**BACKGROUND SOIL SAMPLE
ANALYTICAL DATA
for SWMUs 5 and 6
June 2002**

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG01 CARSBG0100		
Lab Sample ID:	N17119-1	Date Sampled:	06/26/02
Matrix:	SO - Soil	Date Received:	06/27/02
		Percent Solids:	85.3
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.2	1.1	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Copper	12.4	2.9	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Iron	25500	22	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Lead	8.4	1.1	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Manganese	377	1.7	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Nickel	17.4	4.6	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG01 CARSBG0106	Date Sampled:	06/26/02
Lab Sample ID:	N17119-2	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	80.2
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic	6.2	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Copper	27.1	3.1	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Iron	19700	24	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Lead	9.4	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Manganese	780	1.9	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Nickel	26.5	5.0	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG02 CARSBG0200	Date Sampled:	06/26/02
Lab Sample ID:	N17119-3	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	85.9
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.3	2.3	mg/kg	2	06/28/02	07/03/02	ND	SW846 6010B
Copper ^a	49.0	5.8	mg/kg	2	06/28/02	07/03/02	ND	SW846 6010B
Iron ^a	10000	46	mg/kg	2	06/28/02	07/03/02	ND	SW846 6010B
Lead ^a	20.4	2.3	mg/kg	2	06/28/02	07/03/02	ND	SW846 6010B
Manganese ^a	248	3.5	mg/kg	2	06/28/02	07/03/02	ND	SW846 6010B
Nickel ^a	11.2	9.3	mg/kg	2	06/28/02	07/03/02	ND	SW846 6010B

(a) Elevated sample detection limit due to difficult sample matrix.

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG02 CARSBG0206	Date Sampled:	06/26/02
Lab Sample ID:	N17119-4	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	80.4
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	4.4	1.2	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Copper	25.0	3.1	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Iron	18400	24	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Lead	7.3	1.2	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Manganese	418	1.8	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Nickel	19.7	4.9	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG03 CARSBG0300	Date Sampled:	06/26/02
Lab Sample ID:	N17119-5	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	89.4
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic	3.8	1.1	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Copper	26.6	2.8	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Iron	25200	22	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Lead	9.3	1.1	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Manganese	410	1.7	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Nickel	25.6	4.5	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG03 CARSBG0306	Date Sampled:	06/26/02
Lab Sample ID:	N17119-6	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	80.0
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.5	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Copper	16.7	3.1	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Iron	10800	24	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Lead	3.6	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Manganese	254	1.9	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Nickel	10.2	5.0	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG03 CARSBG0306	Date Sampled:	06/26/02
Lab Sample ID:	N17119-7	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	81.7
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.2	1.2	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Copper	23.2	3.0	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Iron	16600	24	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Lead	6.0	1.2	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Manganese	426	1.8	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B
Nickel	22.0	4.8	mg/kg	1	06/28/02	07/03/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG04 CARSBG0400	Date Sampled:	06/26/02
Lab Sample ID:	N17119-8	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	83.4
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.2	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Copper	28.7	3.0	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Iron	24500	24	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Lead	9.8	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Manganese	1150	1.8	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B
Nickel	31.3	4.7	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-BG04 CARSBG0406	Date Sampled:	06/26/02
Lab Sample ID:	N17119-9	Date Received:	06/27/02
Matrix:	SO - Soil	Percent Solids:	86.6
Project:	ENSTNN: Carrier, Syracuse, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic	2.0	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Copper	15.1	2.9	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Iron	13200	24	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Lead	4.1	1.2	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Manganese	384	1.7	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B
Nickel	10.0	4.6	mg/kg	1	06/28/02	07/03/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

**FIELD, TRIP, AND EQUIPMENT BLANK
ANALYTICAL DATA
June 2002**

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-EB CARGEB00005			Date Sampled:	06/25/02
Lab Sample ID:	N17045-12R			Date Received:	06/26/02
Matrix:	AQ - Field Blank Water			Percent Solids:	n/a
Method:	SW846 8260B				
Project:	ENSTNN: Carrier, Syracuse, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23214.D	1	07/05/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.9	10	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	0.49	1.0	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-EB CARGEB00005		
Lab Sample ID:	N17045-12R	Date Sampled:	06/25/02
Matrix:	AQ - Field Blank Water	Date Received:	06/26/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	109%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-FB CARGFB00005			Date Sampled:	06/25/02
Lab Sample ID:	N17045-13R			Date Received:	06/26/02
Matrix:	AQ - Field Blank Water			Percent Solids:	n/a
Method:	SW846 8260B				
Project:	ENSTNN: Carrier, Syracuse, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23215.D	1	07/05/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.8	10	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	0.53	1.0	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENS-SYR-TMP-FB CARGFB000005	Date Sampled:	06/25/02
Lab Sample ID:	N17045-13R	Date Received:	06/26/02
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	109%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	06/25/02
Lab Sample ID:	N17045-20R	Date Received:	06/26/02
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23183.D	1	07/04/02	XAH	n/a	n/a	VU725
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	06/25/02
Lab Sample ID:	N17045-20R	Date Received:	06/26/02
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ENSTNN: Carrier, Syracuse, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		69-127%
2037-26-5	Toluene-D8	101%		82-119%
460-00-4	4-Bromofluorobenzene	106%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

References

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APPENDIX D

Data Evaluation Report and Work Sheets

APPENDIX D

Data Evaluation Report and Work Sheets (July 2001)

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1.0 DATA EVALUATION

This section presents analytical data collected from the Carrier Corporation, Thompson Road Facility Remedial Investigation (RI) and the quality assurance/quality control (QA/QC) evaluation of those data. Samples for the RI were collected between July 9, 2001 and July 13, 1999. Samples were submitted to Accutest of Dayton, New Jersey (New York certification number 10983). The samples collected and analyses performed on each sample are summarized in Attachment D-1 to this report. Samples were reported by the laboratories in six sample delivery groups (SDGs): E94826, E94827, E94828, E94829, E94945, and E95042. Analyses were conducted in accordance with the following documents:

- *Test Methods For Evaluating Solid Waste, Physical/Chemical Methods*, (SW-846) U.S. Environmental Protection Agency (USEPA) Office of Solid Waste and Emergency Response (OSWER), Third Edition, December 1996
- *Methods for Chemical Analysis of Water and Wastes* (EPA), USEPA Environmental Monitoring and Support Laboratory, (EPA-600/4-79-020, revised March 1983).
- *Standard Methods for the Examination of Water and Wastewater* (SM), American Public Health Association, 18th Edition, revised 1992.
- *Method 1664 N-Hexane Extractable Material (HEM) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM) by Extraction and Gravimetry (Oil and Grease and Total Petroleum Hydrocarbons)*, USEPA Engineering and Analysis Division, (EPA-821-B-94-004, 1994)

Samples were analyzed and reported as definitive data and QC forms were submitted for data review. The elements of the data packages provided by the laboratory are presented in Table 1-1.

Table 1-1 Data Package Elements	
<ul style="list-style-type: none"> • Completed chain-of-custody documentation • Analytical results • Tentatively identified compound results (volatiles) • Sample receipt and log-in information • Laboratory case narrative • Blank data (trip, rinsate, and field) • Soil moisture • Organic QC summaries and raw data: <ul style="list-style-type: none"> ➢ Organic surrogate recoveries ➢ Volatile tuning data ➢ Matrix spike/matrix spike duplicates ➢ Laboratory control samples ➢ Laboratory blanks ➢ Initial and calibration check data ➢ Internal standard areas and retention times ➢ Retention time summaries ➢ Sample and QC quantitation reports ➢ Sample and QC chromatograms ➢ Sample and QC spectra (volatiles) ➢ Raw calibration data ➢ Raw sample preparation benchesheets ➢ Analytical run log 	<ul style="list-style-type: none"> • Metal QC summaries: <ul style="list-style-type: none"> ➢ Initial and calibration check summaries ➢ Laboratory blanks (initial, continuing, prep) ➢ Interference check samples ➢ Laboratory control samples ➢ Laboratory duplicates ➢ Matrix spikes ➢ Serial dilutions • General Chemistry QC summaries: <ul style="list-style-type: none"> ➢ Laboratory blanks ➢ Laboratory control samples ➢ Laboratory duplicates ➢ Matrix spikes

When the QC parameters did not fall within the specific method and laboratory guidelines, the data evaluator annotated or “flagged” the corresponding analytes where anomalies were found. The following flags were used to annotate data outside QC criteria during data evaluation.

U	Undetected – The analyte was present in a sample, but at a concentration less than 10 times the blank concentration for common organic constituents (methylene chloride, acetone, and 2-butanone) or five times the blank concentration for other constituents; the associated value shown is the quantitation limit after evaluation of the blank.
J	Estimated Value – At least one QC parameter was outside control limits.
UJ	Undetected and Estimated – The parameter was analyzed but not detected above the listed quantitation limit; the quantitation limit is estimated because one or more QC parameters was outside control limits.
R/UR	Unusable Data – At least one QC parameter grossly exceeded control limits.

These “flags” were applied to data where anomalies are noted during evaluation. The laboratory’s “U” qualifier, defined as the target analyte was not detected above the laboratory’s reporting limit, remained on the data unless superseded by the evaluation qualifier (e.g., “UJ” or “UR”). Attachment D-2 presents worksheets used during the data review process.

2.0 ORGANIC ANALYSES

Organic data evaluation for the Thompson Road Facility included the following parameters:

- Holding times*
- Gas chromatograph/mass spectrometry (GC/MS) tuning (volatiles)*
- Surrogate spike recoveries
- Instrument calibration
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries
- MS/MSD precision
- Laboratory control spike (LCS) results*
- Laboratory method blanks*
- Field QC blanks (trip, rinsate, and field)
- GC/MS Internal standard (IS) performance (volatiles)*
- Field duplicate precision

An asterisk (*) above indicates that QC results were within criteria for both the volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs). Data were reviewed for completeness during the data evaluation process. When data were found to be incomplete or errors were observed, the laboratory was requested to re-submit the appropriate data so review could be completed. The following sections describes specific outliers which were qualified during the evaluation process for organic analyses. Data which were not flagged will not be discussed further in the following sections.

2.1 Surrogate Spikes

Individual sample performance for the organic analyses was monitored by assessing surrogate compound percent recovery data. Surrogate recoveries for samples that were outside QC limits during data evaluation are detailed in Table 2-1. All other VOC and PCB surrogates were within QC limits.

Table 2-1 PCB Surrogate Recovery Exceedances					
SDG	Sample ID	Surrogate	Recovery (%) Col. 1 / Col. 2	QC Limits (%)	Action
E94826	CARMMH9701	DCB	172 / 155	23 - 143	Aroclor 1254 and Aroclor 1260 flagged "y"
E94826	CARMH10101	DCB	99 / 291	23 - 143	No action. All Aroclors were undetected.
E94827	CARMSM0701 (DL)	TCX	79 / 199	26 - 126	No action. Positive result reported off column 1, which was acceptable.

Notes:

Col. = column
DCB = decachlorobiphenyl
TCX = tetrachloro-m-xylene
DL = diluted sample

High surrogate recoveries in sample CARMMH9701 indicated potential high result bias and only positive results were flagged as estimated. Samples CARMH10101 and the diluted sample CARMSM0701 were not qualified because no adverse affects to data quality are expected due to these surrogate outliers.

2.2 Calibration

Instruments are initially and continually calibrated with standard solutions to verify that they can produce acceptable quantitative data for the compounds. In PCB SDG E94826, one check standard calibration for one column failed method acceptance criteria because the response was less than was observed in the initial calibration. However, the other column used during this calibration check was within method criteria and the laboratory reported all results from the compliant column. Therefore, no adverse affects to data quality are expected because of this calibration outlier. All other calibration criteria were met for VOCs and PCBs.

2.3 MS/MSDs

To assess the accuracy and precision of the analytical methods relative to the sample matrices, MS/MSD percent recoveries and relative percent differences (RPDs) were determined. Of the MS/MSDs reported with %R and RPD outliers, only two were reported from samples collected at the Thompson Road Facility. No action was taken for MS/MSD outliers when samples from another site was used because MS/MSDs are highly matrix dependent and the outliers may not be indicative of investigative samples collected during this RI.

Of the site samples that were used for MS/MSDs, the outliers detailed in Table 2-2 were observed. All other VOC and PCB MS/MSDs were within QC limits.

Table 2-2 MS/MSD Outliers						
SDG	Analyte	Recovery (%) (MS / MSD)	MS/MSD QC Limits (%R)	RPD	RPD QC Limits	Action
E94826	cis-1,2-DCE	72* / 10*	73 - 130	10	<14	cis-1,2-DCE flagged "J" in CARGMW3S04
E94826	acetone	203* / 223*	5 - 187	9	<35	No action — acetone was not detected and the bias was high
E94826	trans-1,3-DCP	58 / 72	53 - 135	20*	<18	No action — trans-1,3-DCP was not detected and the bias was high
E95042	cis-1,2-DCE	138 / 148	73 - 130	3	<14	cis-1,2-DCE flagged "J" in CARG990404

Notes:

cis-1,2-DCE = cis-1,2-dichloroethene
* = Outside QC limits
trans-1,3-DCP = trans-1,3-dichloropropene

2.4 Blanks

Blanks help determine how much, if any, contamination was introduced in the laboratory or the field. All data associated with a particular blank were evaluated to determine whether there was inherent variability in the data, or if a problem was an isolated occurrence that did not affect the data. Acetone was detected in two equipment rinsate blanks at concentrations of 10.1 and 7.6 micrograms per liter (g/L). Acetone is believed to be from laboratory sources and not from site-related origin; therefore, it was flagged as undetected "U" in the following samples: CARG000604, CARG990204, CARG990304, CARSW56706, and CARG010704. All other laboratory method blanks, volatile trip blanks, and field blanks were free from contamination.

2.5 Field Duplicates

The RPDs for each field-duplicated samples were calculated to assess sampling method precision and matrix homogeneity. RPDs between the samples and duplicates were calculated and only one compound did not meet an RPD of <30 for water and <50 for soil. Aroclor 1260 in field duplicate pair CARMH03901 / CARMH03901 had an RPD of 106.8; therefore, both Aroclor 1260 results were flagged estimated "J." All other field duplicates showed acceptable precision.

3.0 INORGANIC ANALYSES

Metal and general chemistry data evaluation for the Thompson Road Facility included the following parameters:

- Holding Times
- Initial and calibration check*
- Laboratory blanks*
- Interference check samples*
- Laboratory control samples*
- Laboratory duplicates
- Matrix spikes
- Serial dilutions*

An asterisk (*) above indicates that QC results were within criteria for both the metals and general chemistry. Data were reviewed for completeness during the data evaluation process. When data were found to be incomplete or errors were observed, the laboratory was requested to re-submit the appropriate data so review could be completed. The following sections describes specific outliers which were qualified during the evaluation process for organic analyses. Data which were not flagged will not be discussed further in the following sections.

3.1 Holding Times

All metals and general chemistry technical holding times were met with one exception. Nitrite was analyzed two days outside of holding times in sample CARGMW0104 and the undetected value was flagged as estimated "UJ", indicating a potential low result bias.

3.2 Laboratory Duplicates

Precision of laboratory sample preparation and analytical methodology was assessed by comparing the analytical results between duplicated results. In SDG E94828, RPDs for copper (21.9), lead (45.5 and 41.4), manganese (72.8) and nickel (59.2), were above the <20 QC limit. Therefore, positive results for the elements outside QC criteria were flagged as estimated "J" in the following samples: CARSW56110, CARSW56208, and CARSW56706. All other laboratory duplicate criteria were met.

3.3 Matrix Spike

Samples are spiked with known quantities of analytes to evaluate the effect of the sample matrix on digestion and measurement procedures. The %R should be within 75% to 125%. However, when the sample concentration exceeds the spike concentration by a factor of four or more, spike recovery criteria are not applicable. In SDG E94828, manganese had a %R of 74.4, which was slightly below the QC limit of 75%, therefore, all manganese results were flagged as estimated "J", due to potential low result bias.

4.0 CONCLUSIONS

Data from the Thompson Road Facility were reviewed independently from the laboratory to assess data quality. When a QC parameter was outside the method and review criteria, the validator qualified the results to alert the data user. All of the results analyzed for the Thompson Road Facility were determined to be valid with few qualifications. There were 2,114 total analytes measured. No positive or undetected results were rejected; therefore analytical testing completeness was calculated to be 100.0%. Therefore, the data met the project analytical completeness goal. Very few analytes required qualification and no positive results were rejected; therefore, results are usable, with the appropriate qualification, as detailed previously. Results that were estimated may be biased high or low but are acceptable for interpretation.

Attachment D-1
Analytical Summary

Table D-1
Analytical Summary

SDG	Sample ID	Sample Date	Lab ID	Sample Type/QA Indicator	PCBs	VOCs	Metals	Dissolved Metals	Cyanide	General Chem.
E94826	CARMMH7701	7/9/01	E94826-01	Sediment	X					
E94826	CARMMH9701	7/9/01	E94826-02	Sediment	X					
E94826	CARMMH11501	7/9/01	E94826-03	Sediment	X					
E94826	CARMMH10101	7/9/01	E94826-04	Sediment	X					
E94826	CARMMH25601	7/9/01	E94826-05	Sediment	X					
E94826	CARMMH7601	7/9/01	E94826-06	Sediment	X					
E94826	CARMMH11601	7/9/01	E94826-07	Sediment	X					
E94826	CARMMH10201	7/9/01	E94826-08	Sediment	X					
E94827	CARMSM0101	7/10/01	E94827-01	Sediment	X					
E94827	CARRSM0101	7/10/01	E94827-02	Field Dup of CARMSM0101	X					
E94827	CARMSM0201	7/10/01	E94827-03	Sediment	X					
E94827	CARMSM0202	7/10/01	E94827-04	Sediment	X					
E94827	CARMSM0301	7/10/01	E94827-05	Sediment	X					
E94827	CARMSM0302	7/10/01	E94827-06	Sediment	X					
E94827	CARMSM0401	7/10/01	E94827-07	Sediment	X					
E94827	CARMSM0402	7/10/01	E94827-08	Sediment	X					
E94827	CARMSM0501	7/10/01	E94827-09	Sediment	X					
E94827	CARMSM0502	7/10/01	E94827-10	Sediment	X					
E94827	CARMSM0601	7/10/01	E94827-11	Sediment	X					
E94827	CARMSM0701	7/10/01	E94827-12	Sediment	X					
E94827	CARMSM0801	7/10/01	E94827-13	Sediment	X					
E94827	CARMSM0802	7/10/01	E94827-14	Sediment	X					
E94828	CARSW56110	7/11/01	E94828-01	Soil		X	X		X	
E94828	CARSW56208	7/11/01	E94828-02	Soil		X	X		X	
E94828	CARSW56706	7/11/01	E94828-03	Soil		X	X		X	
E94828	CARGW56401	7/11/01	E94828-04	Water (filtered metals)		X		X		
E94829	CARGMW0904	7/10/01	E94829-01	Water		X				
E94829	CARGMWBG04	7/10/01	E94829-02	Water		X				
E94829	CARG000604	7/11/01	E94829-03	Water		X				
E94829	CARH000604	7/11/01	E94829-04	Field Dup of CARG000604		X				

Table D-1
Analytical Summary

SDG	Sample ID	Sample Date	Lab ID	Sample Type/QA Indicator	PCBs	VOCs	Metals	Dissolved Metals	Cyanide	General Chem.
E94829	CARG990304	7/11/01	E94829-05	Water		X				
E94829	CARG990104	7/11/01	E94829-06	Water		X				
E94829	CARGMW5D04	7/11/01	E94829-07	Water		X				
E94829	CARGMW5S04	7/11/01	E94829-08	Water		X				
E94829	CARG990204	7/11/01	E94829-09	Water		X				
E94829	CARGMW0704	7/11/01	E94829-10	Water		X				
E94945	CARS201004	7/12/01	E94945-01	Soil		X				
E94945	CARS202004	7/12/01	E94945-02	Soil		X				
E94945	CARS203004	7/12/01	E94945-03	Soil		X				
E94945	CARS204004	7/12/01	E94945-04	Soil		X				
E94945	CARC204004	7/12/01	E94945-05	Field Dup of CARC204004		X				
E94945	CARS205002	7/12/01	E94945-06	Soil		X				
E94945	CARS206004	7/12/01	E94945-07	Soil		X				
E94945	CARS207002	7/12/01	E94945-08	Soil		X				
E94945	CARS208004	7/12/01	E94945-09	Soil		X				
E94945	CARS209004	7/12/01	E94945-10	Soil		X				
E94945	CARS210002	7/12/01	E94945-11	Soil		X				
E94945	CARGMW0104	7/12/01	E94945-13	Water	X	X	X			X
E94945	CARGMW0104	7/12/01	E94945-13A	Water (filtered metals)				X		
E94945	CARGMW0604	7/12/01	E94945-14	Water	X	X	X			X
E94945	CARGMW0604	7/12/01	E94945-14A	Water (filtered metals)				X		
E94945	CARGMW0504	7/12/01	E94945-15	Water	X	X	X			X
E94945	CARGMW0504	7/12/01	E94945-15A	Water (filtered metals)				X		
E94945	CARGMW3D04	7/12/01	E94945-16	Water	X	X	X			X
E94945	CARGMW3D04	7/12/01	E94945-16A	Water (filtered metals)				X		
E94945	CARGMW3S04	7/12/01	E94945-17	Water	X	X	X			X
E94945	CARGMW3S04	7/12/01	E94945-17A	Water (filtered metals)				X		
E94945	CARGMW0804	7/12/01	E94945-18	Water		X				
E94945	CARHMW0804	7/12/01	E94945-19	Field Dup of CARGMW0804		X	X			
E95042	CARG990409	7/13/01	E95042-01	Water		X				

Table D-1
Analytical Summary

SDG	Sample ID	Sample Date	Lab ID	Sample Type/QA Indicator	PCBs	VOCs	Metals	Dissolved Metals	Cyanide	General Chem.
E95042	CARG990410	7/13/01	E95042-02	Water		X				
E95042	CARG990405	7/13/01	E95042-03	Water		X				
E95042	CARG990406	7/13/01	E95042-04	Water		X				
E95042	CARG990408	7/13/01	E95042-05	Field Dup of CARG990406		X				
E95042	CARG990408	7/13/01	E95042-06	Water		X				
E95042	CARG990404	7/13/01	E95042-07	Water		X				
E95042	CARG990407	7/13/01	E95042-08	Water		X				
E95042	CARG990403	7/13/01	E95042-09	Water		X				
E95042	CARG9904B3	7/13/01	E95042-10	Water		X				
E95042	CARG9904B6	7/13/01	E95042-11	Water		X				
E95042	CARG990402	7/13/01	E95042-12	Water		X				
E95042	CARG010804	7/13/01	E95042-13	Water		X				
E95042	CARG010704	7/13/01	E95042-14	Water		X				
E95042	CARG990401	7/13/01	E95042-18	Water		X				
E95042	CARMH03901	7/13/01	E95042-20	Sediment		X				
E95042	CARRM03901	7/13/01	E95042-21	Field Dup of CARMH03901		X				
E94829	CART071101	7/11/01	E94829-11	Trip Blank		X				
E94945	CART071201	7/12/01	E94945-12	Trip Blank		X				
E95042	CARE071301	7/13/01	E95042-15	Field Blank		X				
E95042	CARE07150P	7/13/01	E95042-16	Water Equipment Rinsate Blank		X				
E95042	CARE0701WL	7/13/01	E95042-17	Soil Equipment Rinsate Blank		X				
E95042	CART071301	7/13/01	E95042-19	Trip Blank		X				

Notes:

= Polychlorinated biphenyls (PCBs) by SW-846 Method 8081A

= Volatile organic compounds (VOCs) by SW-846 Method 8260B

= Selected metals and dissolved (filtered) metals by SW-846 Method 6010B.

= Cyanide by SW-846 9012

= General chemistry parameters: fluoride by EPA 300.0, HEM oil and grease by EPA 1664, nitrite by SM 4500-NO₂-B, nitrate + nitrite by EPA 353.2, nitrate determined by calculation ([nitrate + nitrite] - nitrite), phenols by EPA 420.2, total organic carbon EPA 415.1, total organic halides SW-846 9020

= Sample was analyzed for the method(s) indicated in the column header.

X

Attachment D-2
Data Evaluation Worksheets

Attachment D-2
Data Evaluation Worksheets

Data Evaluation Worksheets
Sample Delivery Group
E94826

PCBs

Validation Worksheets - PCBs

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY Project No. 3133-031-05-004-00
 SDG # E94826 No. Samples 8 Matrix Sediment Lab: Accutest - New Jersey

Attach Copy of Flagged Data Tables

Method Reference: SW846 8082

CRITERIA MET? YES NO		NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition		Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met water - 7 days to extraction/40 days to analysis; soil - 14 days to extraction/40 days to analysis		Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
Surrogate Recovery <input type="checkbox"/> <input checked="" type="checkbox"/> All recoveries within criteria <i>See attached</i>		Attach summary for noncompliant surrogate recoveries. Indicate outliers and qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input type="checkbox"/> <input checked="" type="checkbox"/> Recoveries for MS within lab limits <i>See attached</i> <input type="checkbox"/> <input checked="" type="checkbox"/> Recoveries for MSD within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> RPDs within lab limits		Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits		Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method and Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input checked="" type="checkbox"/> <input type="checkbox"/> Field blank clean? <input type="checkbox"/> Not Applicable <input type="checkbox"/> <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not Applicable		Attach copy of method blank summary. List all contaminants, concentrations and action levels. Attach copy of results for any associated field. Circle or highlight all contaminants and indicate action level. List all affected samples.

Validation Worksheets - PCBs

CRITERIA MET? YES NO	Noncompliance Notes
Calibration - RT Windows and Calibration Factors <input checked="" type="checkbox"/> <input type="checkbox"/> Initial Calibration forms present for both columns (5-point cal. only required for Aroclors 1016 and 1260. Other Aroclors are based on 1 point cal.) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input checked="" type="checkbox"/> <input type="checkbox"/> %RSD criteria met %RSD <20% for ea. compound OR Ave. %RSD for all compounds of <20%	Attach copy of initial calibration form for noncompliant % RSDs. Indicate noncompliances, qualifiers, and affected samples.
Calibration Verification <input checked="" type="checkbox"/> <input type="checkbox"/> Calibration verification forms present for both columns (Only required for Aroclors 1016 and 1260) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input type="checkbox"/> <input checked="" type="checkbox"/> All Arochlor compounds within %D criteria %D <15% for ea. compound OR <i>See attached</i> Ave. %D for all compounds of <15%	Attach copy of verification form which does not meet %D criteria. Indicate outliers, qualifiers, and affected samples.
Compound Identification <input type="checkbox"/> Not Applicable - all samples were undetected <input checked="" type="checkbox"/> <input type="checkbox"/> Arochlors were properly identified and quantitated on both columns <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met	List all samples with compounds containing peaks outside RT or no 2nd column confirmation. Indicate qualifiers.
Field Duplicates <input checked="" type="checkbox"/> Not Applicable Sample IDs _____, _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs _____, _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature:

*Ch Cantwell*Date 10/17/01

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: E94826

Account: UTC United Technology Corporation

Project: ENSTNN: Carrier, Syracuse, NY

Method: SW846 8082

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b	Action
E94826-1	CD50847.D	60.0	94.0	74.0	102.0	
E94826-2	CD50848.D	72.0	121.0	172.0*c	155.0*c	Positive Aroclor 1254? 1260 Flagged "J"
E94826-3	CD50849.D	63.0	111.0	103.0	127.0	
E94826-4	CD50850.D	78.0	122.0	99.0	291.0*c	No action all Aroclors were non-detect in this sample.
E94826-5	CD50851.D	60.0	103.0	91.0	116.0	
E94826-6	CD50929.D	58.0	83.0	75.0	104.0	
E94826-6	CD50906.D	71.0	92.0	82.0	107.0	
E94826-7	CD50907.D	61.0	73.0	84.0	77.0	
E94826-8	CD50692.D	82.0	84.0	83.0	83.0	
OP9779-BS1	CD50686.D	82.0	84.0	83.0	77.0	
OP9779-MB1	CD50685.D	86.0	86.0	97.0	90.0	
OP9779-MS	CD50687.D	62.0	67.0	92.0	75.0	
OP9779-MSD	CD50688.D	57.0	64.0	84.0	78.0	
OP9792-BS1	CD50666.D	79.0	78.0	88.0	82.0	
OP9792-MB1	CD50665.D	80.0	79.0	45.0	42.0	
OP9792-MS	CD50667.D	66.0	76.0	119.0	96.0	
OP9792-MSD	CD50668.D	68.0	75.0	131.0	95.0	

Surrogate
Compounds

Recovery
Limits

S1 = Tetrachloro-m-xylene

26-126%

S2 = Decachlorobiphenyl

23-149%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

(c) Outside control limits due to matrix interference.

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OK
10/12/01

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: E94826
Account: UTC United Technology Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9792-MS	CD50667.D	1	07/17/01	LLP	07/16/01	OP9792	GCD1928
OP9792-MSD	CD50668.D	1	07/17/01	LLP	07/16/01	OP9792	GCD1928
E93159-1	CD50669.D	1	07/17/01	LLP	07/16/01	OP9792	GCD1928

The QC reported here applies to the following samples:

Method: SW846 8082

E94826-8

CAS No.	Compound	E93159-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		80.8	148	183* a	101	126	38* a	60-130/26
11104-28-2	Aroclor 1221	ND			ND		ND		nc	15-178/0
11141-16-5	Aroclor 1232	ND			ND		ND		nc	10-215/2
53469-21-9	Aroclor 1242	ND			ND		ND		nc	39-150/12
12672-29-6	Aroclor 1248	ND			ND		ND		nc	38-158/12
11097-69-1	Aroclor 1254	ND			ND		ND		nc	29-131/20
11096-82-5	Aroclor 1260	125		80.8	504	469* b	299	216* b	51* b	40-146/27

CAS No.	Surrogate Recoveries	MS	MSD	E93159-1	Limits
877-09-8	Tetrachloro-m-xylene	66%	68%	94%	26-126%
877-09-8	Tetrachloro-m-xylene	76%	75%	95%	26-126%
2051-24-3	Decachlorobiphenyl	119%	131%	151%* a	23-149%
2051-24-3	Decachlorobiphenyl	96%	95%	115%	23-149%

(a) Outside control limits due to matrix interference.

(b) Outside control limits due to presence of other Aroclor pattern.

Spiked sample performed was a batch QC sample and was not from the Thompson Road Site. Therefore, no action was taken because MS/MSD outliers may not be representative of site conditions. Lab control samples were within lab's QC limits indicating the system was in control.

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CAC

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: E94826
Account: UTC United Technology Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9779-MS	CD50687.D	1	07/18/01	LLP	07/13/01	OP9779	GCD1929
OP9779-MSD	CD50688.D	1	07/18/01	LLP	07/13/01	OP9779	GCD1929
E94874-2	CD50689.D	1	07/18/01	LLP	07/13/01	OP9779	GCD1929

The QC reported here applies to the following samples:

Method: SW846 8082

E94826-1, E94826-2, E94826-3, E94826-4, E94826-5, E94826-6, E94826-7

CAS No.	Compound	E94874-2 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	82.6	114	138* a	105	128	8	60-130/26
11104-28-2	Aroclor 1221	ND		ND		ND		nc	15-178/0
11141-16-5	Aroclor 1232	ND		ND		ND		nc	10-215/2
53469-21-9	Aroclor 1242	ND		ND		ND		nc	39-150/12
12672-29-6	Aroclor 1248	ND		ND		ND		nc	38-158/12
11097-69-1	Aroclor 1254	ND		ND		ND		nc	29-131/20
11096-82-5	Aroclor 1260	ND	82.6	244	295* a	345	421* a	34* a	40-146/27

CAS No.	Surrogate Recoveries	MS	MSD	E94874-2	Limits
877-09-8	Tetrachloro-m-xylene	62%	57%	50%	26-126%
877-09-8	Tetrachloro-m-xylene	67%	64%	55%	26-126%
2051-24-3	Decachlorobiphenyl	92%	84%	82%	23-149%
2051-24-3	Decachlorobiphenyl	75%	78%	93%	23-149%

(a) Outside control limits due to matrix interference.

See note on previous page, which also applies to this MS/MSD.

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OK
10/12/01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC sample

PCS	SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE EXTRACTED DATE ANALYZED MATRIX UNITS	CAR-F-0713-01 CARF071301 E95042-15 CARF071301 07/13/01 07/17/01 07/17/01 Water UG/L						
CAS #	Parameter	E95042	VAL					
12674-11-2	Aroclor-1016	1.7	U					
11104-28-2	Aroclor-1221	1.7	U					
11141-16-5	Aroclor-1232	1.7	U					
53469-21-9	Aroclor-1242	1.7	U					
12672-29-6	Aroclor-1248	1.7	U					
11097-69-1	Aroclor-1254	1.7	U					
11096-82-5	Aroclor-1260	1.7	U					

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\CD50852.D\ECD1B.CH
Acq On : 24 Jul 2001 7:42 am
Sample : ECC1934-1000
isc : OP9779,GCD1934,1.0,9779-1,,10,1
ntFile : rteint.p

Vial: 26
Operator: laurap
Inst : GCCD
Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\CD50852.D\ECD2A.CH
Acq On : 24 Jul 2001 7:42 am
Sample : CC1934-1000
Misc : OP9779,GCD1934,1.0,9779-1,,10,1
IntFile : rteint2.p

Vial: 26
Operator: laurap
Inst : GCCD
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\GCD1932.M (RTE Integrator)
Title : GC/ECD- PCB
Last Update : Thu Jul 19 10:28:04 2001
Response via : Multiple Level Calibration

COPY

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S	Tetrachloro-m-xylene	2.192	2.195 E3	-0.1	104	0.00
0	AR1016-A	54.856	50.907	7.2	102	0.00
1	AR1016-B	128.309	119.592	6.8	102	0.00
2	AR1016-C	185.110	183.444	0.9	105	0.00
3	AR1016-D	85.022	81.640	4.0	104	0.00
4	AR1016-E	51.404	51.009	0.8	107	0.00
5	AR1016-F	63.490	63.458	0.1	106	0.01
	AR1260-A	148.779	165.487	-11.2	106	0.01
7	AR1260-B	170.851	192.531	-12.7	105	0.01
8	AR1260-C	96.575	108.854	-12.7	105	0.01
9	AR1260-D	94.983	108.412	-14.1	106	0.02
0	AR1260-E	109.833	123.285	-12.2	108	0.01
1	AR1260-F	241.311	266.746	-10.5	101	0.00
2 S	Decachlorobiphenyl	2.589	2.423 E3	6.4	96	0.02

Signal #2

1 S	Tetrachloro-m-xylene	1.406	1.933 E3	-37.5#	144	0.02
0	AR1016-A	27.278	39.794	-45.9#	161#	0.02
1	AR1016-B	75.784	97.014	-28.0#	151#	0.03
2	AR1016-C	41.982	57.257	-36.4#	148	0.02
3	AR1016-D	85.656	136.628	-59.5#	172#	0.02
4	AR1016-E	27.649	42.361	-53.2#	180#	0.02
5	AR1016-F	33.936	46.477	-37.0#	150#	0.03
6	AR1260-A	123.974	212.629	-71.5#	171#	0.04
7	AR1260-B	67.846	98.282	-44.9#	140	0.03
8	AR1260-C	99.007	180.626	-82.4#	178#	0.03
9	AR1260-D	67.783	104.772	-54.6#	148	0.03
0	AR1260-E	67.393	103.878	-54.1#	149	0.03
1	AR1260-F	129.998	237.723	-82.9#	179#	0.04
2 S	Decachlorobiphenyl	1.896	2.256 E3	-19.0#	126	0.02

Note
No action taken
for the calibration
verification outliers.
All positive Aroclors
reported for the
associated samples
listed below were
reported off column #1.
Therefore the %D
outliers for column #2
did not affect data quality.

Ave %D > 150

Associated Samples: E94826-1, E94826-2, E94826-3, E94826-4 and E94826-5

Evaluate Continuing Calibration Report - Not Found

Data File : C:\HPCHEM\1\DATA\CD50852.D\ECD1B.CH
Acq On : 24 Jul 2001 7:42 am
Sample : ECC1934-1000
Misc : OP9779,GCD1934,1.0,9779-1,,10,1

Vial: 26
Operator: laurap
Inst : GCCD
Multiplr: 1.00

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

DATALCP2
10/17/01

E94826 PCB		SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-M-MH77-01 CARMH7701 E94826-1 07/09/01 07/13/01 07/24/01 Sediment UG/KG A	CAR-M-MH97-01 CARMH9701 E94826-2 07/09/01 07/13/01 07/24/01 Sediment UG/KG A				
CAS #	Parameter							
12674-11-2 Aroclor-1016			25. U	21. U				
11104-28-2 Aroclor-1221			25. U	21. U				
11141-16-5 Aroclor-1232			25. U	21. U				
53469-21-9 Aroclor-1242			25. U	21. U				
12672-29-6 Aroclor-1248			25. U	21. U				
11097-69-1 Aroclor-1254			437. 477.	441. 380.				
11096-82-5 Aroclor-1260								

CDC 10/17/01

Data Evaluation Worksheets
Sample Delivery Group
E94827

PCBs

Validation Worksheets - PCBs

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY

Project No. 3133-031-05-004-00

SDG # E94827 No. Samples 14 Matrix Sediment Lab: Accutest - New Jersey

Attach Copy of Flagged Data Tables

Method Reference: SW846 8082

CRITERIA MET? YES NO	NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met water - 7 days to extraction/40 days to analysis; soil - 14 days to extraction/40 days to analysis	Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
Surrogate Recovery <input type="checkbox"/> <input checked="" type="checkbox"/> All recoveries within criteria <i>See attached no action.</i>	Attach summary for noncompliant surrogate recoveries. Indicate outliers and qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MS within lab limits <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MSD within lab limits <input checked="" type="checkbox"/> <input type="checkbox"/> RPDs within lab limits	Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits	Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method and Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input checked="" type="checkbox"/> <input type="checkbox"/> Field blank clean? <input type="checkbox"/> Not Applicable <input type="checkbox"/> <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not Applicable	Attach copy of method blank summary. List all contaminants, concentrations and action levels. Attach copy of results for any associated field. Circle or highlight all contaminants and indicate action level. List all affected samples.

Validation Worksheets - PCBs

CRITERIA MET? YES NO	Noncompliance Notes
Calibration - RT Windows and Calibration Factors <input checked="" type="checkbox"/> <input type="checkbox"/> Initial Calibration forms present for both columns (5-point cal. only required for Aroclors 1016 and 1260. Other Aroclors are based on 1 point cal.) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input checked="" type="checkbox"/> <input type="checkbox"/> %RSD criteria met %RSD <20% for ea. compound OR Ave. %RSD for all compounds of <20%	Attach copy of initial calibration form for noncompliant % RSDs. Indicate noncompliances, qualifiers, and affected samples.
Calibration Verification <input checked="" type="checkbox"/> <input type="checkbox"/> Calibration verification forms present for both columns (Only required for Aroclors 1016 and 1260) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input checked="" type="checkbox"/> <input type="checkbox"/> All Arochlor compounds within %D criteria %D <15% for ea. compound OR Ave. %D for all compounds of <15%	Attach copy of verification form which does not meet %D criteria. Indicate outliers, qualifiers, and affected samples.
Compound Identification <input type="checkbox"/> Not Applicable - all samples were undetected <input checked="" type="checkbox"/> <input type="checkbox"/> Aroclors were properly identified and quantitated on both columns <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met	List all samples with compounds containing peaks outside RT or no 2nd column confirmation. Indicate qualifiers.
Field Duplicates <input type="checkbox"/> Not Applicable Sample IDs <u>CARMSMO101</u> , <u>CARB5MO101</u> <input checked="" type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs _____, _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature:

CM Cantwell

Date 10/17/01

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: E94827
Account: UTC United Technology Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Method: SW846 8082

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
E94827-1	AB28371.D	79.0	52.0	42.0	47.0
E94827-2	EF32870.D	57.0	127.0* ^c	88.0	62.0
E94827-2	AB28357.D	70.0	36.0	87.0	99.0
E94827-3	AB28358.D	78.0	100.0	86.0	102.0
E94827-4	AB28359.D	71.0	90.0	80.0	107.0
E94827-5	AB28362.D	71.0	74.0	79.0	86.0
E94827-6	EF32871.D	69.0	122.0	140.0	92.0
E94827-6	AB28363.D	86.0	48.0	81.0	86.0
E94827-7	AB28364.D	34.0	38.0	42.0	36.0
E94827-8	CD51015.D	55.0	58.0	114.0	103.0
E94827-9	EF32869.D	62.0	42.0	41.0	37.0
E94827-10	AB28366.D	73.0	33.0	42.0	50.0
E94827-11	AB28367.D	77.0	73.0	43.0	45.0
E94827-12 PL	EF32872.D	79.0	199.0* ^c	108.0	89.0
E94827-12	AB28368.D	91.0	48.0	47.0	54.0
E94827-13	AB28369.D	74.0	42.0	39.0	45.0
E94827-14	AB28370.D	94.0	50.0	52.0	50.0
OP9780-BS1	AB28356.D	93.0	117.0	90.0	120.0
OP9780-MB1	AB28355.D	94.0	126.0	102.0	123.0
OP9780-MS	AB28402.D	77.0	93.0	83.0	82.0
OP9780-MSD	AB28403.D	80.0	94.0	81.0	88.0
OP9880-BS2	CD51014.D	85.0	93.0	103.0	104.0
OP9880-MB2	CD51013.D	94.0	98.0	110.0	112.0
OP9880-MS	AB28441.D	64.0	62.0	77.0	83.0
OP9880-MSD	AB28442.D	64.0	62.0	78.0	81.0
OP9880-MB1	AB28439.D	77.0	83.0	79.0	81.0

⇒ no action. Only Ar 1260 was reported off this analysis and it was reported off of Column. Therefore, the high 90R for TCMX on Column 2 does not affect reported results.

Surrogate Compounds Recovery Limits

S1 = Tetrachloro-m-xylene 26-126%
S2 = Decachlorobiphenyl 23-149%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2
- (c) Outside control limits due to dilution.

27 MC
10/16/01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC sample

DATALCP3
10/17/01

PCB	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> ID FROM REPORT --> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-F-0713-01 CARF071301 E95042-15 CARF071301 07/13/01 07/17/01 07/17/01 Water UG/L							
CAS # Parameter		E95042 VAL							
12674-11-2 Aroclor-1016		1.7 U							
11104-28-2 Aroclor-1221		1.7 U							
11141-16-5 Aroclor-1232		1.7 U							
53469-21-9 Aroclor-1242		1.7 U							
12672-29-6 Aroclor-1248		1.7 U							
11097-69-1 Aroclor-1254		1.7 U							
11096-82-5 Aroclor-1260		1.7 U							

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

E94827 PCB	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED ---> DATE ANALYZED -----> MATRIX -----> UNITS ----->		CAR-M-SM01-01 CARMSM0101 E94827-1 07/10/01 07/13/01 07/26/01 Sediment UG/KG	A	CAR-R-SM01-01 CARMSM0101 E94827-2 07/10/01 07/13/01 07/25/01 Sediment UG/KG	A	CAR-M-SM02-01 CARMSM0201 E94827-3 07/10/01 07/13/01 07/25/01 Sediment UG/KG	A	CAR-M-SM02-02 CARMSM0202 E94827-4 07/10/01 07/13/01 07/25/01 Sediment UG/KG	A	CAR-M-SM03-01 CARMSM0301 E94827-5 07/10/01 07/13/01 07/26/01 Sediment UG/KG	A	CAR-M-SM03-02 CARMSM0302 E94827-6 07/10/01 07/13/01 07/26/01 Sediment UG/KG	A
	CAS # Parameter													
12674-11-2 Aroclor-1016			23.	U	22.	U	22.	U	22.	U	30.	U	24.	U
11104-28-2 Aroclor-1221			23.	U	22.	U	22.	U	22.	U	30.	U	24.	U
11141-16-5 Aroclor-1232			23.	U	22.	U	22.	U	22.	U	30.	U	24.	U
53469-21-9 Aroclor-1242			23.	U	22.	U	22.	U	22.	U	30.	U	24.	U
12672-29-6 Aroclor-1248			23.	U	22.	U	22.	U	22.	U	30.	U	24.	U
11097-69-1 Aroclor-1254			23.	U	22.	U	22.	U	22.	U	30.	U	3660.	U
11096-82-5 Aroclor-1260			1320.		1400.		22.	U	22.	U	270.		24.	U

*No flags
OK 10/18/01*

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

E94827 PCB	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-M-SM04-01 CARMSM0401 E94827-7 07/10/01 07/13/01 07/26/01 Sedmnt UG/KG	A	CAR-M-SM04-02 CARMSM0402 E94827-8 07/10/01 07/28/01 07/30/01 Sedmnt UG/KG	A	CAR-M-SM05-01 CARMSM0501 E94827-9 07/10/01 07/13/01 07/26/01 Sedmnt UG/KG	A	CAR-M-SM05-02 CARMSM0502 E94827-10 07/10/01 07/13/01 07/26/01 Sedmnt UG/KG	A	CAR-M-SM06-01 CARMSM0601 E94827-11 07/10/01 07/13/01 07/26/01 Sedmnt UG/KG	A	CAR-M-SM07-01 CARMSM0701 E94827-12 07/10/01 07/13/01 07/26/01 Sedmnt UG/KG	A
CAS #	Parameter												
12674-11-2	Aroclor-1016	47.	U	23.	U	180.	U	35.	U	20.	U	21.	U
11104-28-2	Aroclor-1221	47.	U	23.	U	180.	U	35.	U	20.	U	21.	U
11141-16-5	Aroclor-1232	47.	U	23.	U	180.	U	35.	U	20.	U	21.	U
53469-21-9	Aroclor-1242	47.	U	23.	U	180.	U	35.	U	20.	U	21.	U
12672-29-6	Aroclor-1248	47.	U	23.	U	180.	U	35.	U	20.	U	21.	U
11097-69-1	Aroclor-1254	47.	U	23.	U	180.	U	35.	U	20.	U	21.	U
11096-82-5	Aroclor-1260	800.		468.		180.		1180.		60.3		2220.	

No flags
OK
10/18/01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

DATALCP2
10/18/01

E94827 PCB		SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-M-SM08-01 CARMSM0801 E94827-13 07/10/01 07/13/01 07/26/01 Sediment UG/KG	A	CAR-M-SM08-02 CARMSM0802 E94827-14 07/10/01 07/13/01 07/26/01 Sediment UG/KG	A				
CAS #	Parameter									
12674-11-2	Aroclor-1016		20.	U	24.	U				
11104-28-2	Aroclor-1221		20.	U	24.	U				
11141-16-5	Aroclor-1232		20.	U	24.	U				
53469-21-9	Aroclor-1242		20.	U	24.	U				
12672-29-6	Aroclor-1248		20.	U	24.	U				
11097-69-1	Aroclor-1254		20.	U	24.	U				
11096-82-5	Aroclor-1260		650.		46.					

*No flags-
Cue
10/18/01*

Data Evaluation Worksheets
Sample Delivery Group
E94828

Volatile Organic Compounds

Validation Worksheets - Volatile Organics

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY

Project No. 3133-031-05-004-00

SDG # E94828

No. Samples 3
1

Matrix Soil
Water

Lab: Accutest - New Jersey

Attach Copy of Flagged Data Tables

Method Reference: SW-846 8260B

CRITERIA MET?		NOTE: FORMS CITED MAY BE EQUIVALENTS	NONCOMPLIANCE NOTES
YES	NO		
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition			Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met 14 days soil & preserved water, 7 days unpreserved water			Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
System Monitoring Compounds Recovery <input checked="" type="checkbox"/> <input type="checkbox"/> Form II present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> All recoveries within lab criteria			Attach copy of Form II for all noncompliant surrogate recoveries. Circle all noncompliances and indicate qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input type="checkbox"/> <input checked="" type="checkbox"/> MS %Rs within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> MSD %Rs within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> RPDs within lab limits <i>See attached</i>			Attach copy of Form III for all noncompliant % Recoveries. Circle all noncompliances and indicate qualifiers. <i>No flags applied based on professional judgment. See attached explanations.</i>
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits			Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method - Trip - Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input type="checkbox"/> <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> <input checked="" type="checkbox"/> Equip. blank clean? <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Trip blank clean? <input type="checkbox"/> Not Applicable			Attach copy of Form IV for all samples. List all contaminants, concentrations and action level. Attach copy of Form I for any associated field or trip blanks. Circle all contaminants and indicate action level. List all affected samples. <i>acetone in CARSW56706 was flagged "U" due to equipment blank. All other samples were unaffected by acetone in the blank because they were non-detect.</i>

3

CCantwell

Date 10 / 18 / 01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC samples for Water SDG E94828

DATLCP3
10/18/01

VOA	SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE ANALYZED MATRIX UNITS	CAR-E-0701-WL CARE0701WL E95042-17 CARE0701WL 07/13/01 07/26/01 Water UG/L	CAR-T-0711-01 CART071101 E94829-11 CART071101 07/11/01 07/16/01 Water UG/L	VAL	VAL
CAS #	Parameter	E95042	VAL	E94829	VAL
67-64-1	Acetone	10.1	U	5.	U
71-43-2	Benzene	1.	U	1.	U
75-27-4	Bromodichloromethane	1.	U	1.	U
75-25-2	Bromoform	4.	U	4.	U
74-83-9	Bromomethane	5.	U	5.	U
78-93-3	2-Butanone (MEK)	5.	U	5.	U
75-15-0	Carbon disulfide	5.	U	5.	U
56-23-5	Carbon tetrachloride	1.	U	1.	U
108-90-7	Chlorobenzene	2.	U	2.	U
75-00-3	Chloroethane	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U
74-87-3	Chloromethane	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U
107-06-2	1,2-Dichloroethane	2.	U	2.	U
75-35-4	1,1-Dichloroethene	2.	U	2.	U
156-59-2	cis-1,2-Dichloroethene	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U
78-87-5	1,2-Dichloropropane	1.	U	1.	U
10061-01-5	cis-1,3-Dichloropropene	1.	U	1.	U
10061-02-6	trans-1,3-Dichloropropene	1.	U	1.	U
100-41-4	Ethylbenzene	1.	U	1.	U
591-78-6	2-Hexanone	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U
75-09-2	Methylene chloride	2.	U	2.	U
100-42-5	Styrene	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U	2.	U
127-18-4	Tetrachloroethene	1.	U	1.	U
108-88-3	Toluene	1.	U	1.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	3.	U	3.	U
79-01-6	Trichloroethene	1.	U	1.	U
75-01-4	Vinyl chloride	1.	U	1.	U
1330-20-7	Xylene (total)	5.	U	5.	U

AL = 101

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: E94828

Account: UTC United Technology Corporation

Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
E94772-14MS	K45044.D	1	07/16/01	DFT	n/a	n/a	VK1557
E94772-14MSD	K45045.D	1	07/16/01	DFT	n/a	n/a	VK1557
E94772-14	K45043.D	1	07/16/01	DFT	n/a	n/a	VK1557

The QC reported here applies to the following samples:

Method: SW846 8260B

E94828-2

CAS No.	Compound	E94772-14 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	58.5		54.5	144	157	147	161	2	5-187/35
71-43-2	Benzene	ND		54.5	51.4	94	49.3	90	4	64-132/15
75-27-4	Bromodichloromethane	ND		54.5	39.9	73	32.4	59* a	21* a	64-134/15
75-25-2	Bromoform	ND		54.5	47.0	86	39.3	71	18	53-147/19
74-83-9	Bromomethane	ND		54.5	48.6	89	43.6	79	11	45-132/19
78-93-3	2-Butanone (MEK)	ND		54.5	90.1	165	89.3	162	1	27-169/35
75-15-0	Carbon disulfide	ND		54.5	29.4	54	23.9	43* a	21	46-135/21
56-23-5	Carbon tetrachloride	ND		54.5	50.6	93	51.9	94	2	54-143/19
108-90-7	Chlorobenzene	ND		54.5	45.9	84	38.7	70	17	56-137/17
75-00-3	Chloroethane	ND		54.5	56.0	103	53.6	97	4	33-140/22
67-66-3	Chloroform	ND		54.5	56.4	103	53.6	97	5	66-130/14
74-87-3	Chloromethane	ND		54.5	53.3	98	52.2	95	2	46-137/22
124-48-1	Dibromochloromethane	ND		54.5	43.7	80	36.2	66	19* a	61-138/15
75-34-3	1,1-Dichloroethane	ND		54.5	58.3	107	55.7	101	4	67-131/15
107-06-2	1,2-Dichloroethane	ND		54.5	52.0	95	47.2	86	10	61-135/14
75-35-4	1,1-Dichloroethene	ND		54.5	84.2	154* a	88.0	160* a	4	60-130/19
156-59-2	cis-1,2-Dichloroethene	ND		54.5	46.9	86	38.4	70	20* a	63-132/16
156-60-5	trans-1,2-Dichloroethene	ND		54.5	38.1	70	31.5	57* a	19* a	63-131/18
78-87-5	1,2-Dichloropropane	ND		54.5	54.5	100	52.4	95	4	64-132/14
10061-01-5	cis-1,3-Dichloropropene	ND		54.5	36.6	67	29.6	54* a	21* a	58-133/16
10061-02-6	trans-1,3-Dichloropropene	ND		54.5	30.9	57	22.5	41* a	31* a	53-138/18
100-41-4	Ethylbenzene	ND		54.5	48.6	89	43.4	79	11	49-143/20
591-78-6	2-Hexanone	ND		54.5	67.9	124	60.6	110	11	19-168/33
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		54.5	56.3	103	53.0	96	6	25-159/27
75-09-2	Methylene chloride	ND		54.5	50.5	93	43.7	79	14	57-130/15
100-42-5	Styrene	ND		54.5	42.9	79	34.2	62	22* a	44-152/18
79-34-5	1,1,2,2-Tetrachloroethane	ND		54	ND	0* a	ND	0* a	nc	41-135/23
127-18-4	Tetrachloroethene	ND		54.5	79.7	146	73.1	133	9	27-207/27
108-88-3	Toluene	ND		54.5	50.5	93	47.9	87	5	48-145/16
71-55-6	1,1,1-Trichloroethane	ND		54.5	53.8	99	53.7	98	0	60-136/19
79-00-5	1,1,2-Trichloroethane	ND		54.5	15.5	28* a	8.1	15* a	63* a	62-131/15
79-01-6	Trichloroethene	ND		54.5	88.2	162* a	83.6	152* a	5	59-146/18
75-01-4	Vinyl chloride	ND		54.5	54.4	100	52.7	96	3	49-142/20
1330-20-7	Xylene (total)	1.8	J	164	143	86	125	75	13	45-146/17

No action was taken for MS/MSD outliers. The sample used for MS/MSD was not from the Thompson Road Site. Therefore, no action was taken because MS/MSD outliers may not be representative of site. Also the LCS was within QC limits indicating the system was in control.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: E94828
Account: UTC United Technology Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
E94552-1MS	K44983.D	1	07/14/01	DFT	n/a	n/a	VK1556
E94552-1MSD	K44984.D	1	07/14/01	DFT	n/a	n/a	VK1556
E94552-1	K44982.D	1	07/14/01	DFT	n/a	n/a	VK1556

The QC reported here applies to the following samples:

Method: SW846 8260B

E94828-1, E94828-3

CAS No.	Compound	E94552-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		51	89.9	176	104	200* a	14	5-187/35
71-43-2	Benzene	ND		51	39.7	78	43.1	83	8	64-132/15
75-27-4	Bromodichloromethane	ND		51	41.0	80	45.2	87	10	64-134/15
75-25-2	Bromoform	ND		51	40.4	79	42.9	82	6	53-147/19
74-83-9	Bromomethane	ND		51	44.8	88	48.0	92	7	45-132/19
78-93-3	2-Butanone (MEK)	ND		51	64.3	126	74.0	142	14	27-169/35
75-15-0	Carbon disulfide	ND		51	33.4	65	36.6	70	9	46-135/21
56-23-5	Carbon tetrachloride	ND		51	42.7	84	46.6	90	9	54-143/19
108-90-7	Chlorobenzene	ND		51	33.8	66	37.0	71	9	56-137/17
75-00-3	Chloroethane	ND		51	45.0	88	48.1	92	7	33-140/22
67-66-3	Chloroform	ND		51	45.1	88	47.4	91	5	66-130/14
74-87-3	Chloromethane	ND		51	45.8	90	48.9	94	6	46-137/22
124-48-1	Dibromochloromethane	ND		51	41.0	80	46.3	89	12	61-138/15
75-34-3	1,1-Dichloroethane	ND		51	45.3	89	48.9	94	8	67-131/15
107-06-2	1,2-Dichloroethane	ND		51	42.7	84	44.5	86	4	61-135/14
75-35-4	1,1-Dichloroethene	ND		51	41.1	80	44.5	86	8	60-130/19
156-59-2	cis-1,2-Dichloroethene	ND		51	39.2	77	42.1	81	7	63-132/16
156-60-5	trans-1,2-Dichloroethene	ND		51	36.8	72	39.4	76	7	63-131/18
78-87-5	1,2-Dichloropropane	ND		51	43.6	85	46.9	90	7	64-132/14
10061-01-5	cis-1,3-Dichloropropene	ND		51	34.8	68	37.0	71	6	58-133/16
10061-02-6	trans-1,3-Dichloropropene	ND		51	32.0	63	32.0	62	0	53-138/18
100-41-4	Ethylbenzene	ND		51	35.3	69	38.3	74	8	49-143/20
591-78-6	2-Hexanone	ND		51	52.1	102	54.7	105	5	19-168/33
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		51	48.9	96	53.2	102	8	25-159/27
75-09-2	Methylene chloride	ND		51	45.3	89	49.1	94	8	57-130/15
100-42-5	Styrene	ND		51	31.4	62	33.2	64	6	44-152/18
79-34-5	1,1,2,2-Tetrachloroethane	ND		51	36.9	72	37.5	72	2	41-135/23
127-18-4	Tetrachloroethene	ND		51	60.1	118	65.9	127	9	27-207/27
108-88-3	Toluene	ND		51	37.4	73	40.3	78	7	48-145/16
71-55-6	1,1,1-Trichloroethane	ND		51	45.4	89	48.6	93	7	60-136/19
79-00-5	1,1,2-Trichloroethane	ND		51	42.7	84	46.1	89	8	62-131/15
79-01-6	Trichloroethene	ND		51	43.0	84	45.2	87	5	59-146/18
75-01-4	Vinyl chloride	ND		51	44.4	87	47.8	92	7	49-142/20
1330-20-7	Xylene (total)	ND		153	107	70	118	76	10	45-146/17

No action taken for acetone MSD outlier. The sample used for MS/MSD was not from the Thompson Road site. Therefore no action was taken because MS/MSD outlier may not be representative of site. Also the LCS was within QC limits indicating the system was in control.

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC samples for Soil SDG E94828

DATACP3
10/18/01

VOA		SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> ID FROM REPORT -----> SAMPLE DATE -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-T-0711-01 CART071101 E94829-11 CART071101 07/11/01 07/16/01 Water UG/L	CAR-E-0715-0P CARE0715P E95042-16 CARE0715P 07/13/01 07/26/01 Water UG/L	VAL	VAL	VAL
CAS #	Parameter		E94829	E95042	VAL	VAL	VAL
67-64-1	Acetone		5.	U	U	U	U
71-43-2	Benzene		1.	U	U	U	U
75-27-4	Bromodichloromethane		1.	U	U	U	U
75-25-2	Bromoform		4.	U	U	U	U
74-83-9	Bromomethane		5.	U	U	U	U
78-93-3	2-Butanone (MEK)		5.	U	U	U	U
75-15-0	Carbon disulfide		5.	U	U	U	U
56-23-5	Carbon tetrachloride		1.	U	U	U	U
108-90-7	Chlorobenzene		2.	U	U	U	U
75-00-3	Chloroethane		5.	U	U	U	U
67-66-3	Chloroform		5.	U	U	U	U
74-87-3	Chloromethane		5.	U	U	U	U
124-48-1	Dibromochloromethane		5.	U	U	U	U
75-34-3	1,1-Dichloroethane		5.	U	U	U	U
107-06-2	1,2-Dichloroethane		2.	U	U	U	U
75-35-4	1,1-Dichloroethene		2.	U	U	U	U
156-59-2	cis-1,2-Dichloroethene		5.	U	U	U	U
156-60-5	trans-1,2-Dichloroethene		5.	U	U	U	U
78-87-5	1,2-Dichloropropane		1.	U	U	U	U
10061-01-5	cis-1,3-Dichloropropene		1.	U	U	U	U
10061-02-6	trans-1,3-Dichloropropene		1.	U	U	U	U
100-41-4	Ethylbenzene		5.	U	U	U	U
591-78-6	2-Hexanone		5.	U	U	U	U
108-10-1	4-Methyl-2-Pentanone (MIBK)		1.	U	U	U	U
75-09-2	Methylene chloride		5.	U	U	U	U
100-42-5	Styrene		2.	U	U	U	U
79-34-5	1,1,2,2-Tetrachloroethane		5.	U	U	U	U
127-18-4	Tetrachloroethene		2.	U	U	U	U
108-88-3	Toluene		1.	U	U	U	U
71-55-6	1,1,1-Trichloroethane		5.	U	U	U	U
79-00-5	1,1,2-Trichloroethane		3.	U	U	U	U
79-01-6	Trichloroethene		1.	U	U	U	U
75-01-4	Vinyl chloride		1.	U	U	U	U
1330-20-7	Xylene (total)		5.	U	U	U	U

AL = 7.6

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

DATACP2
10/18/01

E94828 VOA	SAMPLE ID ORIGINAL ID LAB SAMPLE ID SAMPLE DATE DATE ANALYZED MATRIX UNITS	CAR-S-W561-10 CARSW56110 E94828-1 07/11/01 07/15/01 Soil UG/KG	CAR-S-W562-08 CARSW56208 E94828-2 07/11/01 07/16/01 Soil UG/KG	CAR-G-W564-01 CARGW56401 E94828-4 07/11/01 07/16/01 Water UG/L	CAR-S-W567-06 CARSW56706 E94828-3 07/11/01 07/15/01 Soil UG/KG		
CAS #	Parameter						
67-64-1	Acetone	5.6 U	5.7 U	5. U	30.6 U		
71-43-2	Benzene	2.2 U	2.3 U	1. U	2.4 U		
75-27-4	Bromodichloromethane	5.6 U	5.7 U	1. U	6. U		
75-25-2	Bromoform	5.6 U	5.7 U	4. U	6. U		
74-83-9	Bromomethane	5.6 U	5.7 U	5. U	6. U		
78-93-3	2-Butanone (MEK)	5.6 U	5.7 U	5. U	6. U		
75-15-0	Carbon disulfide	5.6 U	5.7 U	5. U	6. U		
56-23-5	Carbon tetrachloride	5.6 U	5.7 U	1. U	6. U		
108-90-7	Chlorobenzene	5.6 U	5.7 U	2. U	6. U		
75-00-3	Chloroethane	5.6 U	5.7 U	5. U	6. U		
67-66-3	Chloroform	5.6 U	5.7 U	5. U	6. U		
74-87-3	Chloromethane	5.6 U	5.7 U	5. U	6. U		
124-48-1	Dibromochloromethane	5.6 U	5.7 U	5. U	6. U		
75-34-3	1,1-Dichloroethane	5.6 U	5.7 U	7.7 U	4.8 U		
107-06-2	1,2-Dichloroethane	5.6 U	5.7 U	2. U	6. U		
75-35-4	1,1-Dichloroethene	5.6 U	5.7 U	1.8 U	6. U		
156-59-2	cis-1,2-Dichloroethene	78.7	5.7 U	281. U	6. U		
156-60-5	trans-1,2-Dichloroethene	5.6 U	5.7 U	26.8 U	6. U		
78-87-5	1,2-Dichloropropane	5.6 U	5.7 U	1. U	6. U		
10061-01-5	cis-1,3-Dichloropropene	5.6 U	5.7 U	1. U	6. U		
10061-02-6	trans-1,3-Dichloropropene	5.6 U	5.7 U	1. U	6. U		
100-41-4	Ethylbenzene	5.6 U	4.2 U	1. U	6. U		
591-78-6	2-Hexanone	5.6 U	5.7 U	5. U	6. U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.6 U	5.7 U	5. U	6. U		
75-09-2	Methylene chloride	5.6 U	5.7 U	2. U	6. U		
100-42-5	Styrene	5.6 U	5.7 U	5. U	6. U		
79-34-5	1,1,2,2-Tetrachloroethane	5.6 U	5.7 U	2. U	6. U		
127-18-4	Tetrachloroethene	5.6 U	5.7 U	1. U	6. U		
108-88-3	Toluene	5.6 U	5.7 U	1. U	6. U		
71-55-6	1,1,1-Trichloroethane	5.6 U	5.7 U	5. U	6. U		
79-00-5	1,1,2-Trichloroethane	5.6 U	5.7 U	3. U	6. U		
79-01-6	Trichloroethene	109. U	5.7 U	38.7 U	6. U		
75-01-4	Vinyl chloride	5.6 U	5.7 U	8.8 U	6. U		
1330-20-7	Xylene (total)	5.6 U	16.3 U	5. U	6. U		

(E94828-3 blank)

OK 10/18/01

Data Evaluation Worksheets
Sample Delivery Group
E94828

Metals

Validation Worksheets - Metals

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY

Project No. 3133-031-05-004-00

SDG # E94828

No. Samples 3

Matrix Soil

Lab: Accutest - New Jersey

1

water-dissolved

Attach Copy of Case Narrative, Lab Sample ID pages, and Flagged Data Tables

Method Reference: SW-846 6010B (metals except Hg)

SW-846 7470A (aqueous Hg)

SW-846 7470A (solid Hg)

CRITERIA MET?		Noncompliance Notes
YES	NO	
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> Data Complete <input checked="" type="checkbox"/> Samples received in good condition		Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/>	Hold Times Met 6 Mos except Hg (28 days)	Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
Initial Calibration Verification (Form II-Part 1) <input checked="" type="checkbox"/> Calibrated daily <input checked="" type="checkbox"/> ICP - Calibration Acceptable (At least a 2 point calibration and %Rs 90-110%) <input checked="" type="checkbox"/> Mercury - Calibration Acceptable (5 point calibration and %Rs 80-120%)		Attach copy of Form II for all noncompliant initial calibration criteria. Circle or highlight noncompliances and indicate qualifiers. List all affected samples on Form II. If calibration curve is not acceptable, discuss deficiencies and qualifiers.
<input checked="" type="checkbox"/>	Continuing Calibration Verification (Form II Part 1) Percent recoveries within limits Hg: 80-120%; others: 90-110%	Attach copy of Form II for noncompliant cont. calb. stds. Circle or highlight outliers and indicate qualifiers. List all affected samples on Form II.
ICP Interference Check Sample (Form IV) <input checked="" type="checkbox"/> Performed at the proper frequency? <input checked="" type="checkbox"/> All recoveries within criteria 80-120%		Attach copy of Form IV for all noncompliant %Rs Circle or highlight outliers & indicate qualifiers.
Blanks - Laboratory and Field <input checked="" type="checkbox"/> Lab blanks performed at proper frequency? <input checked="" type="checkbox"/> Initial calibration blanks associated with samples clean? <input checked="" type="checkbox"/> Continuing calibration blank associated with samples clean? <input checked="" type="checkbox"/> Prep blank performed for each batch/matrix? <input checked="" type="checkbox"/> Prep blank clean? <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not applicable		Attach copy of Form III. Circle or highlight all contaminants associated with samples and indicate action level. Attach copy of Form I for any associated field blank. Circle or highlight all contaminants and indicate action levels. List all affected samples.

CRITERIA MET? YES NO	Noncompliance Notes
Spike Sample Recoveries (Form V-Part 1) <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency per matrix/level? <input type="checkbox"/> <input checked="" type="checkbox"/> Spike recoveries within criteria? 75-125% <i>See attached</i>	Attach copy of Form V for all noncompliant %Rs. Circle or highlight outliers and indicate qualifiers. Note: %Rs are acceptable if elements are detected greater than 4 times the spike level.
Laboratory Duplicates (Form VI) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency per matrix/level? <input type="checkbox"/> <input checked="" type="checkbox"/> RPD within criteria <20% <i>See attached</i>	Attach copy of Form V for all noncompliant RPDs. Circle or highlight outliers and indicate qualifiers. Note: RPDs are acceptable if elements are detected at a concentration less than 10 times the IDL.
Laboratory Control Sample (LCS) (Form VII) <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency? <input checked="" type="checkbox"/> <input type="checkbox"/> %Recoveries within lab or method criteria water \pm 20%; soil within limits	Attach copy of Form VII for all noncompliant %Rs. Circle or highlight outliers and indicate qualifiers.
ICP Serial Dilutions (Form IX) <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency per matrix/level? <input checked="" type="checkbox"/> <input type="checkbox"/> %D within criteria %D <10%	Attach copy of Form IX for all noncompliant %Ds. Circle or highlight outliers and indicate qualifiers. Note: serial dilution is applicable to elements with concentrations greater than 10 times the IDL after dilution. If concentrations are less than 10 times the IDL after dilution, no action is necessary.
Field Duplicates <input checked="" type="checkbox"/> Not Applicable Sample IDs: _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs: _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Ch Campbell Date 10, 18, 01

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: E94828
 Account: UTC - United Technology Corporation
 Project: UTC16297 - ENSTNN: Carrier, Syracuse, NY

QC Batch ID: MP15764
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/16/01 07/16/01

Metal	E94770-4 Original	DUP	RPD	QC Limits	E94770-4 Original MS	Spikelot MPIRS1	Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	anr							
Barium								
Beryllium	anr							
Cadmium	anr							
Calcium								
Chromium	anr							
Cobalt								
Copper	37.2	32.6	13.2	0-20	37.2	85.0	54.1	88.3 75-125
Iron								
Lead	184	280	41.4* (a)	0-20	184	283	108	91.5 75-125
Magnesium								
Manganese	91.5	92.1	0.6	0-20	91.5	172	108	74.4N(c) 75-125
Molybdenum								
Nickel	17.0	13.2	25.2 (b)	0-20	17.0	118	108	93.3 75-125
Palladium								
Potassium								
Selenium	anr							
Silicon								
Silver	anr							
Sodium								
Thallium	anr							
Tin								
Vanadium								
Zinc	anr							

Associated samples MP15764: E94828-1, E94828-2, E94828-3

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) High rpd due to possible sample nonhomogeneity.

(b) RPD acceptable due to low duplicate and sample concentrations.

(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

*Lead and Manganese
 flagged "J" and "UJ"
 in the associated samples*

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: E94828
 Account: UTC - United Technology Corporation
 Project: UTC16297 - ENSTNN: Carrier, Syracuse, NY

QC Batch ID: MP15764
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 07/16/01

E94770-5		QC	
Metal	Original DUP	RPD	Limits
Aluminum			
Antimony	anr		
Arsenic	anr		
Barium			
Beryllium	anr		
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	76.6	61.5	21.9* (a) 0-20
Iron			
Lead	259	163	45.5* (a) 0-20
Magnesium			
Manganese	180	83.9	72.8* (a) 0-20
Molybdenum			
Nickel	26.5	14.4	59.2* (a) 0-20
Palladium			
Potassium			
Selenium	anr		
Silicon			
Silver	anr		
Sodium			
Thallium	anr		
Tin			
Vanadium			
Zinc	anr		

Associated samples MP15764: E94828-1, E94828-2, E94828-3

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) High rpd due to possible sample nonhomogeneity. Sample contains large pieces of chunk what appears to be asphalt.

*Copper, lead, Manganese
 and nickel flagged
 "J" and "UJ" in
 associated samples.*

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

DATALCP2
10/18/01

CAS #	Parameter	CAR-S-W561-10 CARSW56110 E94828-1 07/11/01 07/16/01 07/19/01 Soil MG/KG				CAR-S-W562-08 CARSW56208 E94828-2 07/11/01 07/16/01 07/19/01 Soil MG/KG				CAR-S-W567-06 CARSW56706 E94828-3 07/11/01 07/16/01 07/19/01 Soil MG/KG			
		SAMPLE ID ----->	ORIGINAL ID ----->	LAB SAMPLE ID ----->	SAMPLE DATE ----->	DATE EXTRACTED ----->	MATRIX ----->	UNITS ----->					
E94828 METAL													
7440-50-8 Copper													
7439-92-1 Lead													
7439-96-5 Manganese													
7440-02-0 Nickel													
<p><i>Mn - spike out (low)</i></p> <p><i>Cu Pb Mn Ni } dup RPD outliers.</i></p> <p><i>CWC 10/18/01</i></p>													
		15.9	3.7	308.	10.7	25.7	3.4	525.	8.9	23.6	9.2	312.	23.3

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RF1

Page: 1
Time: 07:14

DATALCP2
10/18/01

E94828 DISS METAL		SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-G-W564-01 CARGW56401 E94828-4 07/11/01 07/13/01 07/17/07 Water UG/L	A					
CAS #	Parameter								
7440-38-2	Arsenic		5.2						
7440-47-3	Chromium		10.						
7439-89-6	Iron		29000.						
7439-92-1	Lead		13.1						
7439-96-5	Manganese		4600.						
7440-02-0	Nickel		272.						
7782-49-2	Selenium		5.						

no flags
OK 10/18/01

*** Validation Required ***

Data Evaluation Worksheets
Sample Delivery Group
E94828

General Chemistry

Validation Worksheets - General Chemistry

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY

Project No. 3133-031-05-004-00

SDG # E94828 No. Samples 3 Matrix soil Lab: Accutest - New Jersey

Attach Copy of Case Narrative, Lab Sample ID pages, and Flagged Data Tables

List Method(s)/Method number(s):

Cyanide (SW-846 9012)

CRITERIA MET? YES NO	NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met	Attach list of samples which exceed hold times. Indicate total hold time and qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MS within lab limits	List noncompliant %Rs and RPDs or attach form. Indicate all noncompliances and qualifiers.
Laboratory Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> RPDs within lab limits	
Blanks: Method - Trip - Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input type="checkbox"/> <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not Applicable	Attach copy of Form IV (or equiv.) for all samples. List all contaminants, concentrations and action level. Attach copy of Form I (or equiv.) for any associated field or trip blanks. Circle all contaminants and indicate action level. List all affected samples.
Field Duplicates <input checked="" type="checkbox"/> Not Applicable Sample IDs: _____, _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature:

Ch Cantwell Date 10 / 18 / 01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

DATALCP2
10/18/01

E94828
CYANIDE

SAMPLE ID ----->
ORIGINAL ID ----->
LAB SAMPLE ID ----->
SAMPLE DATE ----->
DATE EXTRACTED ----->
DATE ANALYZED ----->
MATRIX ----->
UNITS ----->

CAR-S-W561-10
CARSW56110
E94828-1
07/11/01
07/21/01
07/23/01
Soil
MG/KG A

CAR-S-W562-08
CARSW56208
E94828-2
07/11/01
07/21/01
07/23/01
Soil
MG/KG A

CAR-S-W567-06
CARSW56706
E94828-3
07/11/01
07/21/01
07/23/01
Soil
MG/KG A

CAS # Parameter

57-12-5 Cyanide

1.1 U

1.1 U

1.2 U

No heap
CNC 10/18/01

Data Evaluation Worksheets
Sample Delivery Group
E94829

Volatile Organic Compounds

Validation Worksheets - Volatile Organics

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY Project No. 3133-031-05-004-00

SDG # E94829 No. Samples 11 Matrix WATER Lab: Accutest - New Jersey

Attach Copy of Flagged Data Tables

Method Reference: SW-846 8260B

CRITERIA MET?		NONCOMPLIANCE NOTES
YES	NO	
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition		Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met 14 days soil & preserved water, 7 days unpreserved water		Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
System Monitoring Compounds Recovery <input checked="" type="checkbox"/> <input type="checkbox"/> Form II present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> All recoveries within lab criteria		Attach copy of Form II for all noncompliant surrogate recoveries. Circle all noncompliances and indicate qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input checked="" type="checkbox"/> <input type="checkbox"/> MS %Rs within lab limits <input checked="" type="checkbox"/> <input type="checkbox"/> MSD %Rs within lab limits <input checked="" type="checkbox"/> <input type="checkbox"/> RPDs within lab limits		Attach copy of Form III for all noncompliant % Recoveries. Circle all noncompliances and indicate qualifiers.
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits		Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method - Trip - Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input type="checkbox"/> <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> <input checked="" type="checkbox"/> Equip. blank clean? <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Trip blank clean? <input type="checkbox"/> Not Applicable		Attach copy of Form IV for all samples. List all contaminants, concentrations and action level. Attach copy of Form I for any associated field or trip blanks. Circle all contaminants and indicate action level. List all affected samples.

Validation Worksheets - Volatile Organics

CRITERIA MET? YES NO		Noncompliance Notes
GC/MS Instrument Performance Check (Form V) <input checked="" type="checkbox"/> <input type="checkbox"/> All samples within 12 hr limit <input checked="" type="checkbox"/> <input type="checkbox"/> All BFB m/z within criteria		Attach copy of Form V for noncompliant tune. Indicate noncompliances and qualifiers.
GC/MS Initial Calibration <input checked="" type="checkbox"/> <input type="checkbox"/> Form VI present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> %RSD criteria met %RSD <15% for ea. compound OR Ave. %RSD for all compounds of <15% <input checked="" type="checkbox"/> <input type="checkbox"/> RRF criteria met SPCC RRFs >0.1 for: chloromethane, 1,1-DCA, bromoform. >0.3 for chlorobenzene, 1,1,2,2-tetrachloroethane		Attach copy of Form VI for noncompliant % RSD or RRF. Circle each noncompliance and indicate qualifiers. List all affected samples on Form VI.
GC/MS Continuing Calibration <input checked="" type="checkbox"/> <input type="checkbox"/> Form VII (for all samples) <input checked="" type="checkbox"/> <input type="checkbox"/> %D criteria met %Ds < 20% for CCCs: 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, vinyl chloride OR Ave. %D for all compounds of <20%. <input checked="" type="checkbox"/> <input type="checkbox"/> RRF criteria met Same as Initial Calib.		Attach copy of Form VII for noncompliant %D or RRF. Circle each noncompliance and indicate qualifiers. List all affected samples in Form VII.
Internal Standard <input checked="" type="checkbox"/> <input type="checkbox"/> Form VIII present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> All IS area within lab criteria <input checked="" type="checkbox"/> <input type="checkbox"/> All retention times within lab criteria		Attach copy of Form VIII for all noncompliant areas and RTs. Circle all noncompliances and indicate qualifiers.
Field Duplicates <input type="checkbox"/> Not Applicable Sample IDs: <u>CARG000604</u> , <u>CARH000604</u> <input checked="" type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs: _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil		Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes		Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature:

J. Hayes

Date 10 / 17 / 01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Equipment and Field Blanks

DATLCP3
 10/17/01
 UNITED TECHNOLOGIES CORPORATION
 SYRACUSE RFI
 Equipment and Field Blanks

Page: 2
 Time: 10:35

VOA	SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE ANALYZED MATRIX UNITS	CAR-E-0701-WL CARE0701WL E95042-17 CARE0701WL 07/13/01 07/26/01 Water UG/L	CAR-E-0715-OP CARE0715P E95042-16 CARE0715P 07/13/01 07/26/01 Water UG/L			
CAS #	Parameter	E95042	NV	E95042	NV	AL
67-64-1	Acetone	10.1		7.6		76
71-43-2	Benzene					
75-27-4	Bromodichloromethane					
75-25-2	Bromoform					
74-83-9	Bromomethane					
78-93-3	2-Butanone (MEK)					
75-15-0	Carbon disulfide					
56-23-5	Carbon tetrachloride					
108-90-7	Chlorobenzene					
75-00-3	Chloroethane					
67-66-3	Chloroform					
74-87-3	Chloromethane					
124-48-1	Dibromochloromethane					
75-34-3	1,1-Dichloroethane					
107-06-2	1,2-Dichloroethane					
75-35-4	1,1-Dichloroethene					
156-59-2	cis-1,2-Dichloroethene					
156-60-5	trans-1,2-Dichloroethene					
78-87-5	1,2-Dichloropropane					
10061-01-5	cis-1,3-Dichloropropene					
10061-02-6	trans-1,3-Dichloropropene					
100-41-4	Ethylbenzene					
591-78-6	2-Hexanone					
108-10-1	4-Methyl-2-Pentanone (MIBK)					
75-09-2	Methylene chloride					
100-42-5	Styrene					
79-34-5	1,1,2,2-Tetrachloroethane					
127-18-4	Tetrachloroethene					
108-88-3	Toluene					
71-55-6	1,1,1-Trichloroethane					
79-00-5	1,1,2-Trichloroethane					
79-01-6	Trichloroethene					
75-01-4	Vinyl chloride					
1330-20-7	Xylene (total)					

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

Page: 1
Time: 12:18

DATACP2
10/18/01

E94829 VOA	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> SAMPLE DATE -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-G-0006-04 CARG000604 E94829-3 07/11/01 07/16/01 Water UG/L	A	CAR-H-0006-04 CARH000604 E94829-4 07/11/01 07/16/01 Water UG/L	A	CAR-G-9901-04 CARG990104 E94829-6 07/11/01 07/16/01 Water UG/L	A	CAR-G-9902-04 CARG990204 E94829-9 07/11/01 07/16/01 Water UG/L	A	CAR-G-9903-04 CARG990304 E94829-5 07/11/01 07/16/01 Water UG/L	A	CAR-G-MW07-04 CARGMW0704 E94829-10 07/11/01 07/16/01 Water UG/L	A
CAS #	Parameter												
67-64-1	Acetone	7.2	U	5.	U	5.	U	45.9	U	26.5	U	5.	U
71-43-2	Benzene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
75-27-4	Bromodichloromethane	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
75-25-2	Bromoform	4.	U	4.	U	4.	U	4.	U	4.	U	4.	U
74-83-9	Bromomethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
108-90-7	Chlorobenzene	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
75-00-3	Chloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
74-87-3	Chloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
75-35-4	1,1-Dichloroethene	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
156-59-2	cis-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	1.9	J	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	3.9	J	5.	U
78-87-5	1,2-Dichloropropane	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
10061-01-5	cis-1,3-Dichloropropene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
10061-02-6	trans-1,3-Dichloropropene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
100-41-4	Ethylbenzene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
591-78-6	2-Hexanone	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-09-2	Methylene chloride	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
127-18-4	Tetrachloroethene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
108-88-3	Toluene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
79-01-6	Trichloroethene	1.	U	1.	U	1.	U	1.	U	1.1	U	1.	U
75-01-4	Vinyl chloride	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

phragt
10/18/01

*** Lab Results ***

Data Evaluation Worksheets
Sample Delivery Group
E94945

Volatile Organic Compounds

Validation Worksheets - Volatile Organics

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY

Project No. 3133-031-05-004-00

SDG # E94945

No. Samples 11

Matrix Soil

Lab: Accutest - New Jersey

8

water

Attach Copy of Flagged Data Tables

Method Reference: SW-846 8260B

CRITERIA MET?		NOTE: FORMS CITED MAY BE EQUIVALENTS	NONCOMPLIANCE NOTES
YES	NO		
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition			Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hold Times Met 14 days soil & preserved water, 7 days unpreserved water	Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
System Monitoring Compounds Recovery <input checked="" type="checkbox"/> <input type="checkbox"/> Form II present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> All recoveries within lab criteria			Attach copy of Form II for all noncompliant surrogate recoveries. Circle all noncompliances and indicate qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input type="checkbox"/> <input checked="" type="checkbox"/> MS %Rs within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> MSD %Rs within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> RPDs within lab limits			Attach copy of Form III for all noncompliant % Recoveries. Circle all noncompliances and indicate qualifiers. <i>Only C1,2-DCE in sample CARGMW3504 was flagged "J."</i>
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits			Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method - Trip - Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input type="checkbox"/> <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> <input checked="" type="checkbox"/> Equip. blank clean? <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Trip blank clean? <input type="checkbox"/> Not Applicable			Attach copy of Form IV for all samples. List all contaminants, concentrations and action level. Attach copy of Form I for any associated field or trip blanks. Circle all contaminants and indicate action level. List all affected samples. <i>Acetone detected in the equipment blank did not affect sample results because no samples contained acetone</i>

Validation Worksheets - Volatile Organics

CRITERIA MET? YES NO	Noncompliance Notes
GC/MS Instrument Performance Check (Form V) <input checked="" type="checkbox"/> <input type="checkbox"/> All samples within 12 hr limit <input checked="" type="checkbox"/> <input type="checkbox"/> All BFB m/z within criteria	Attach copy of Form V for noncompliant tune. Indicate noncompliances and qualifiers.
GC/MS Initial Calibration <input checked="" type="checkbox"/> <input type="checkbox"/> Form VI present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> %RSD criteria met %RSD <15% for ea. compound OR Ave. %RSD for all compounds of <15% <input checked="" type="checkbox"/> <input type="checkbox"/> RRF criteria met SPCC RRFs >0.1 for: chloromethane, 1,1-DCA, bromoform. >0.3 for chlorobenzene, 1,1,2,2-tetrachloroethane	Attach copy of Form VI for noncompliant % RSD or RRF. Circle each noncompliance and indicate qualifiers. List all affected samples on Form VI.
GC/MS Continuing Calibration <input checked="" type="checkbox"/> <input type="checkbox"/> Form VII (for all samples) <input checked="" type="checkbox"/> <input type="checkbox"/> %D criteria met %Ds < 20% for CCCs: 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, vinyl chloride OR Ave. %D for all compounds of <20%. <input checked="" type="checkbox"/> <input type="checkbox"/> RRF criteria met Same as Initial Calib.	Attach copy of Form VII for noncompliant %D or RRF. Circle each noncompliance and indicate qualifiers. List all affected samples in Form VII.
Internal Standard <input checked="" type="checkbox"/> <input type="checkbox"/> Form VIII present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> All IS area within lab criteria <input checked="" type="checkbox"/> <input type="checkbox"/> All retention times within lab criteria	Attach copy of Form VIII for all noncompliant areas and RTs. Circle all noncompliances and indicate qualifiers.
Field Duplicates <input type="checkbox"/> Not Applicable Sample Ids: <u>CARS204004 , CARC204004</u> <input checked="" type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample Ids: <u>CARGMW0804 , CARHMMW0804</u> <input checked="" type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature: _____

Ch Cantwell

Date 10, 18, 01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC samples for Soil SDG E94945

VOA	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> ID FROM REPORT -----> SAMPLE DATE -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-T-0712-01 CAR1071201 E94945-12 CAR1071201 07/12/01 07/20/01 Water UG/L	CAR-E-0715-0P CAR0715P E95042-16 CAR0715P 07/13/01 07/26/01 Water UG/L			
CAS #	Parameter	E94945	NV	E95042	NV	
67-64-1	Acetone	5.	U	Ac=76 7.6	U	
71-43-2	Benzene	1.	U	1.	U	
75-27-4	Bromodichloromethane	1.	U	1.	U	
75-25-2	Bromoform	4.	U	4.	U	
74-83-9	Bromomethane	5.	U	5.	U	
78-93-3	2-Butanone (MEK)	5.	U	5.	U	
75-15-0	Carbon disulfide	5.	U	5.	U	
56-23-5	Carbon tetrachloride	1.	U	1.	U	
108-90-7	Chlorobenzene	2.	U	2.	U	
75-00-3	Chloroethane	5.	U	5.	U	
67-66-3	Chloroform	5.	U	5.	U	
74-87-3	Chloromethane	5.	U	5.	U	
124-48-1	Dibromochloromethane	5.	U	5.	U	
75-34-3	1,1-Dichloroethane	5.	U	5.	U	
107-06-2	1,2-Dichloroethane	2.	U	2.	U	
75-35-4	1,1-Dichloroethene	2.	U	2.	U	
156-59-2	cis-1,2-Dichloroethene	5.	U	5.	U	
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	
78-87-5	1,2-Dichloropropane	1.	U	1.	U	
10061-01-5	cis-1,3-Dichloropropene	1.	U	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	1.	U	
100-41-4	Ethylbenzene	1.	U	1.	U	
591-78-6	2-Hexanone	5.	U	5.	U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U	
75-09-2	Methylene chloride	2.	U	2.	U	
100-42-5	Styrene	5.	U	5.	U	
79-34-5	1,1,2,2-Tetrachloroethane	2.	U	2.	U	
127-18-4	Tetrachloroethene	1.	U	1.	U	
108-88-3	Toluene	1.	U	1.	U	
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	
79-00-5	1,1,2-Trichloroethane	3.	U	3.	U	
79-01-6	Trichloroethene	1.	U	1.	U	
75-01-4	Vinyl chloride	1.	U	1.	U	
1330-20-7	Xylene (total)	5.	U	5.	U	

Associated to all
Soil samples

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: E94945
Account: UTC United Technology Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
E94945-17MS	E47350.D	20	07/20/01	GTT	n/a	n/a	VE2519
E94945-17MSD	E47351.D	20	07/20/01	GTT	n/a	n/a	VE2519
E94945-17	E47348.D	20	07/20/01	GTT	n/a	n/a	VE2519

The QC reported here applies to the following samples:

Method: SW846 8260B

E94945-12, E94945-13, E94945-14, E94945-15, E94945-16, E94945-17, E94945-18, E94945-19

CAS No.	Compound	E94945-17 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1000	990	99	1000	100	1	21-160/30
71-43-2	Benzene	ND		1000	1200	120	1090	109	10	61-138/11
75-27-4	Bromodichloromethane	ND		1000	1090	109	1020	102	7	75-130/12
75-25-2	Bromoform	ND		1000	869	87	936	94	7	59-136/14
74-83-9	Bromomethane	ND		1000	1040	104	1140	114	9	65-143/18
78-93-3	2-Butanone (MEK)	ND		1000	915	92	929	93	2	41-141/29
75-15-0	Carbon disulfide	ND		1000	847	85	892	89	5	55-134/24
56-23-5	Carbon tetrachloride	ND		1000	966	97	974	97	1	69-143/17
108-90-7	Chlorobenzene	ND		1000	1020	102	1030	103	1	83-124/12
75-00-3	Chloroethane	ND		1000	1190	119	1270	127	6	66-147/19
67-66-3	Chloroform	ND		1000	1050	105	1040	104	1	76-128/12
74-87-3	Chloromethane	ND		1000	968	97	1120	112	14	59-136/23
124-48-1	Dibromochloromethane	ND		1000	937	94	985	98	5	69-130/13
75-34-3	1,1-Dichloroethane	164		1000	1240	108	1220	106	2	73-130/14
107-06-2	1,2-Dichloroethane	ND		1000	993	99	933	93	6	67-138/12
75-35-4	1,1-Dichloroethene	38.3	J	1000	1140	110	1100	106	4	72-134/17
156-59-2	cis-1,2-Dichloroethene	5780		1000	6500	72* a	5880	10* a	10	73-131/14
156-60-5	trans-1,2-Dichloroethene	13.9	J	1000	1080	107	1020	101	6	71-129/16
78-87-5	1,2-Dichloropropane	ND		1000	1200	120	1090	109	10	77-127/13
10061-01-5	cis-1,3-Dichloropropene	ND		1000	1050	105	1020	102	3	75-125/12
10061-02-6	trans-1,3-Dichloropropene	ND		1000	1090	109	1020	102	7	73-125/13
100-41-4	Ethylbenzene	ND		1000	1040	104	1050	105	1	68-139/12
591-78-6	2-Hexanone	ND		1000	1100	110	997	100	10	47-141/22
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		1000	1160	116	1080	108	7	68-131/18
75-09-2	Methylene chloride	ND		1000	1090	109	1050	105	4	69-132/13
100-42-5	Styrene	ND		1000	1050	105	1070	107	2	76-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	971	97	1010	101	4	72-127/12
127-18-4	Tetrachloroethene	ND		1000	1100	110	1070	107	3	55-149/13
108-88-3	Toluene	ND		1000	1160	116	1080	108	7	55-147/12
71-55-6	1,1,1-Trichloroethane	ND		1000	1090	109	1050	105	4	72-135/14
79-00-5	1,1,2-Trichloroethane	ND		1000	1200	120	1100	110	9	78-131/11
79-01-6	Trichloroethene	ND		1000	1130	113	1040	104	8	77-132/13
75-01-4	Vinyl chloride	567		1000	1390	82	1520	95	9	63-138/18
1330-20-7	Xylene (total)	ND		3000	3190	106	3200	107	0	57-146/12

Action: Cis-1,2-DCE was flagged "J" in unspiked sample CHRG MW 3504 (E94945-17) due to potential matrix effects through the concentration in the sample was high relative to the spike concentration. LCS results indicated lab was in control.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: E94945

Account: UTC United Technology Corporation

Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
E94945-1MS	K45279.D	1	07/23/01	DFT	n/a	n/a	VK1562
E94945-1MSD	K45280.D	1	07/23/01	DFT	n/a	n/a	VK1562
E94945-1	K45289.D	1	07/23/01	DFT	n/a	n/a	VK1562

The QC reported here applies to the following samples:

Method: SW846 8260B

E94945-1, E94945-2, E94945-4, E94945-6, E94945-7, E94945-8, E94945-9, E94945-10, E94945-11

CAS No.	Compound	E94945-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		60	122	203* a	134	223* a	9	5-187/35
71-43-2	Benzene	ND		60	43.9	73	47.2	79	7	64-132/15
75-27-4	Bromodichloromethane	ND		60	45.9	76	50.7	84	10	64-134/15
75-25-2	Bromoform	ND		60	39.2	65	46.2	77	16	53-147/19
74-83-9	Bromomethane	ND		60	46.9	78	51.2	85	9	45-132/19
78-93-3	2-Butanone (MEK)	ND		60	65.6	109	73.6	123	11	27-169/35
75-15-0	Carbon disulfide	ND		60	46.1	77	46.8	78	2	46-135/21
56-23-5	Carbon tetrachloride	ND		60	46.9	78	47.6	79	1	54-143/19
108-90-7	Chlorobenzene	ND		60	36.4	61	41.7	70	14	56-137/17
75-00-3	Chloroethane	ND		60	53.7	90	53.8	90	0	33-140/22
67-66-3	Chloroform	ND		60	50.7	84	53.9	90	6	66-130/14
74-87-3	Chloromethane	ND		60	51.7	86	55.5	92	7	46-137/22
124-48-1	Dibromochloromethane	ND		60	42.7	71	48.5	81	13	61-138/15
75-34-3	1,1-Dichloroethane	ND		60	52.9	88	54.6	91	3	67-131/15
107-06-2	1,2-Dichloroethane	ND		60	48.5	81	53.3	89	9	61-135/14
75-35-4	1,1-Dichloroethene	ND		60	49.8	83	50.2	84	1	60-130/19
156-59-2	cis-1,2-Dichloroethene	ND		60	48.2	80	51.5	86	7	63-132/16
156-60-5	trans-1,2-Dichloroethene	ND		60	46.9	78	50.5	84	7	63-131/18
78-87-5	1,2-Dichloropropane	ND		60	47.7	80	52.7	88	10	64-132/14
10061-01-5	cis-1,3-Dichloropropene	ND		60	38.3	64	44.7	74	15	58-133/16
10061-02-6	trans-1,3-Dichloropropene	ND		60	35.0	58	42.9	72	20* a	53-138/18
100-41-4	Ethylbenzene	ND		60	38.3	64	42.9	72	11	49-143/20
591-78-6	2-Hexanone	ND		60	33.1	55	41.1	68	22	19-168/33
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		60	47.3	79	55.3	92	16	25-159/27
75-09-2	Methylene chloride	ND		60	51.9	86	56.1	94	8	57-130/15
100-42-5	Styrene	ND		60	32.3	54	38.0	63	16	44-152/18
79-34-5	1,1,2,2-Tetrachloroethane	ND		60	48.7	81	56.5	94	15	41-135/23
127-18-4	Tetrachloroethene	ND		60	51.4	86	57.4	96	11	27-207/27
108-88-3	Toluene	ND		60	41.6	69	46.4	77	11	48-145/16
71-55-6	1,1,1-Trichloroethane	ND		60	50.6	84	51.2	85	1	60-136/19
79-00-5	1,1,2-Trichloroethane	ND		60	46.8	78	52.1	87	11	62-131/15
79-01-6	Trichloroethene	49.4		60	86.7	62	95.3	76	9	59-146/18
75-01-4	Vinyl chloride	ND		60	53.7	90	50.4	84	6	49-142/20
1330-20-7	Xylene (total)	ND		180	113	63	129	72	13	45-146/17

(A) no action taken for acetone MS/MSD 90R outlier. Unspiked sample CARS 201004 (E94945-1) was undetect for acetone and the high 90R indicates a potential high result bias.

(B) no action taken for RPD outlier. trans-1,3-dichloropropene was slightly high above RPD limit of 18 and it was undetect in the unspiked sample.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: E94945
Account: UTC United Technology Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
E95184-1MS	K45310.D	1	07/24/01	DFT	n/a	n/a	VK1563
E95184-1MSD	K45311.D	1	07/24/01	DFT	n/a	n/a	VK1563
E95184-1	K45309.D	1	07/24/01	DFT	n/a	n/a	VK1563

The QC reported here applies to the following samples:

Method: SW846 8260B

E94945-3, E94945-5

CAS No.	Compound	E95184-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		55	86.5	157	84.8	158	2	5-187/35
71-43-2	Benzene	ND		55	30.7	56* a	30.8	58* a	0	64-132/15
75-27-4	Bromodichloromethane	ND		55	50.5	92	49.0	92	3	64-134/15
75-25-2	Bromoform	ND		55	48.8	89	46.3	86	5	53-147/19
74-83-9	Bromomethane	ND		55	47.6	86	45.9	86	4	45-132/19
78-93-3	2-Butanone (MEK)	ND		55	43.4	79	44.1	82	2	27-169/35
75-15-0	Carbon disulfide	ND		55	43.8	80	42.0	78	4	46-135/21
56-23-5	Carbon tetrachloride	ND		55	47.0	85	44.4	83	6	54-143/19
108-90-7	Chlorobenzene	ND		55	42.9	78	40.4	76	6	56-137/17
75-00-3	Chloroethane	ND		55	50.6	92	49.7	93	2	33-140/22
67-66-3	Chloroform	ND		55	51.5	94	49.9	93	3	66-130/14
74-87-3	Chloromethane	ND		55	47.6	86	49.2	92	3	46-137/22
124-48-1	Dibromochloromethane	ND		55	50.2	91	47.4	88	6	61-138/15
75-34-3	1,1-Dichloroethane	ND		55	51.7	94	49.6	93	4	67-131/15
107-06-2	1,2-Dichloroethane	ND		55	54.0	98	50.7	95	6	61-135/14
75-35-4	1,1-Dichloroethene	ND		55	48.2	88	46.9	88	3	60-130/19
156-59-2	cis-1,2-Dichloroethene	ND		55	49.8	90	46.9	88	6	63-132/16
156-60-5	trans-1,2-Dichloroethene	ND		55	47.6	86	46.8	87	2	63-131/18
78-87-5	1,2-Dichloropropane	ND		55	51.5	94	49.1	92	5	64-132/14
10061-01-5	cis-1,3-Dichloropropene	ND		55	45.7	83	43.4	81	5	58-133/16
10061-02-6	trans-1,3-Dichloropropene	ND		55	45.0	82	43.6	81	3	53-138/18
100-41-4	Ethylbenzene	ND		55	44.0	80	41.0	77	7	49-143/20
591-78-6	2-Hexanone	ND		55	10.5	19	12.8	24	20	19-168/33
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		55	45.8	83	43.4	81	5	25-159/27
75-09-2	Methylene chloride	ND		55	51.0	93	48.1	90	6	57-130/15
100-42-5	Styrene	ND		55	35.2	64	32.8	61	7	44-152/18
79-34-5	1,1,2,2-Tetrachloroethane	ND		55	45.8	83	47.3	88	3	41-135/23
127-18-4	Tetrachloroethene	ND		55	69.8	127	65.8	123	6	27-207/27
108-88-3	Toluene	ND		55	36.9	67	35.2	66	5	48-145/16
71-55-6	1,1,1-Trichloroethane	ND		55	48.7	88	46.4	87	5	60-136/19
79-00-5	1,1,2-Trichloroethane	ND		55	53.3	97	50.0	93	6	62-131/15
79-01-6	Trichloroethene	ND		55	52.2	95	49.0	92	6	59-146/18
75-01-4	Vinyl chloride	ND		55	49.1	89	47.4	88	4	49-142/20
1330-20-7	Xylene (total)	ND		165	122	74	111	69	9	45-146/17

No action was taken for benzene MS/MSD 90/2 outliers. The sample used for MS/MSD was not from the Thompson Road site. Therefore, no action was taken because MS/MSD outliers may not be representative of site conditions. Also, LCS was within QC limits indicating the system was in control.

E94945 VOA	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-S-2010-04 CAR-S-2010-04 E94945-1 07/12/01 07/23/01 Soil UG/KG	CAR-S-2020-04 CAR-S-2020-04 E94945-2 07/12/01 07/23/01 Soil UG/KG	CAR-S-2030-04 CAR-S-2030-04 E94945-3 07/12/01 07/24/01 Soil UG/KG	CAR-S-2040-04 CAR-S-2040-04 E94945-4 07/12/01 07/23/01 Soil UG/KG	CAR-C-2040-04 CAR-C-2040-04 E94945-5 07/12/01 07/24/01 Soil UG/KG	CAR-S-2050-02 CAR-S-2050-02 E94945-6 07/12/01 07/23/01 Soil UG/KG
CAS #	Parameter	A	A	A	A	A	A
67-64-1	Acetone	5.9	5.8	5.8	5.8	5.8	5.8
71-43-2	Benzene	2.4	2.3	2.3	2.3	2.3	2.3
75-27-4	Bromodichloromethane	5.9	5.8	5.8	5.8	5.8	5.8
75-25-2	Bromoform	5.9	5.8	5.8	5.8	5.8	5.8
74-83-9	Bromomethane	5.9	5.8	5.8	5.8	5.8	5.8
78-93-3	2-Butanone (MEK)	5.9	5.8	5.8	5.8	5.8	5.8
75-15-0	Carbon disulfide	5.9	5.8	5.8	5.8	5.8	5.8
56-23-5	Carbon tetrachloride	5.9	5.8	5.8	5.8	5.8	5.8
108-90-7	Chlorobenzene	5.9	5.8	5.8	5.8	5.8	5.8
75-00-3	Chloroethane	5.9	5.8	5.8	5.8	5.8	5.8
67-66-3	Chloroform	5.9	5.8	5.8	5.8	5.8	5.8
74-87-3	Chloromethane	5.9	5.8	5.8	5.8	5.8	5.8
124-48-1	Dibromochloromethane	5.9	5.8	5.8	5.8	5.8	5.8
75-34-3	1,1-Dichloroethane	5.9	5.8	5.8	5.8	5.8	5.8
107-06-2	1,2-Dichloroethane	5.9	5.8	5.8	5.8	5.8	5.8
75-35-4	1,1-Dichloroethene	5.9	5.8	5.8	5.8	5.8	5.8
156-59-2	cis-1,2-Dichloroethene	5.9	5.8	5.8	5.8	5.8	5.8
156-60-5	trans-1,2-Dichloroethene	5.9	5.8	5.8	5.8	5.8	5.8
78-87-5	1,2-Dichloropropane	5.9	5.8	5.8	5.8	5.8	5.8
10061-01-5	cis-1,3-Dichloropropene	5.9	5.8	5.8	5.8	5.8	5.8
10061-02-6	trans-1,3-Dichloropropene	5.9	5.8	5.8	5.8	5.8	5.8
100-41-4	Ethylbenzene	5.9	5.8	5.8	5.8	5.8	5.8
591-78-6	2-Hexanone	5.9	5.8	5.8	5.8	5.8	5.8
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.9	5.8	5.8	5.8	5.8	5.8
75-09-2	Methylene chloride	5.9	5.8	5.8	5.8	5.8	5.8
100-42-5	Styrene	5.9	5.8	5.8	5.8	5.8	5.8
79-34-5	1,1,2,2-Tetrachloroethane	5.9	5.8	5.8	5.8	5.8	5.8
127-18-4	Tetrachloroethene	5.9	5.8	5.8	5.8	5.8	5.8
108-88-3	Toluene	5.9	5.8	5.8	5.8	5.8	5.8
71-55-6	1,1,1-Trichloroethane	5.9	5.8	5.8	5.8	5.8	5.8
79-00-5	1,1,2-Trichloroethane	5.9	5.8	5.8	5.8	5.8	5.8
79-01-6	Trichloroethene	49.4	9.7	4.5	15.1	10.7	11.
75-01-4	Vinyl chloride	5.9	5.8	5.8	5.8	5.8	5.8
1330-20-7	Xylene (total)	5.9	5.8	5.8	5.8	5.8	5.8

due 10/18/01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

DATA CP2
10/18/01

E94945 VOA	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ---> SAMPLE DATE -----> DATE ANALYZED ---> MATRIX -----> UNITS ----->	CAR-S-2060-04 CAR-S-20604 E94945-7 07/12/01 07/24/01 Soil UG/KG	CAR-S-2070-02 CAR-S-20702 E94945-8 07/12/01 07/24/01 Soil UG/KG	CAR-S-2080-04 CAR-S-20804 E94945-9 07/12/01 07/24/01 Soil UG/KG	CAR-S-2090-04 CAR-S-20904 E94945-10 07/12/01 07/24/01 Soil UG/KG	CAR-S-2100-02 CAR-S-21002 E94945-11 07/12/01 07/24/01 Soil UG/KG	CAR-G-MW01-04 CAR-G-MW0104 E94945-13 07/12/01 07/20/01 Water UG/L
67-64-1 Acetone	5.8 U	6. U	5.9 U	5.8 U	6. U	5. U	5. U
71-43-2 Benzene	2.3 U	2.4 U	2.4 U	2.3 U	2.4 U	2.4 U	1. U
75-27-4 Bromodichloromethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
75-25-2 Bromoform	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	4. U
74-83-9 Bromomethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
78-93-3 2-Butanone (MEK)	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
75-15-0 Carbon disulfide	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
56-23-5 Carbon tetrachloride	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
108-90-7 Chlorobenzene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	2. U
75-00-3 Chloroethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
67-66-3 Chloroform	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
74-87-3 Chloromethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
124-48-1 Dibromochloromethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
75-34-3 1,1-Dichloroethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
107-06-2 1,2-Dichloroethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	2. U
75-35-4 1,1-Dichloroethene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	2. U
156-59-2 cis-1,2-Dichloroethene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
156-60-5 trans-1,2-Dichloroethene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
78-87-5 1,2-Dichloropropane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
10061-01-5 cis-1,3-Dichloropropene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
10061-02-6 trans-1,3-Dichloropropene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
100-41-4 Ethylbenzene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
591-78-6 2-Hexanone	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
108-10-1 4-Methyl-2-Pentanone (MIBK)	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
75-09-2 Methylene chloride	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
100-42-5 Styrene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
79-34-5 1,1,2,2-Tetrachloroethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
127-18-4 Tetrachloroethene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U
108-88-3 Toluene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	2. U
71-55-6 1,1,1-Trichloroethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
79-00-5 1,1,2-Trichloroethane	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
79-01-6 Trichloroethene	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	3. U
75-01-4 Vinyl chloride	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	1. U
1330-20-7 Xylene (total)	5.8 U	6. U	5.9 U	5.8 U	6. U	6. U	5. U

CPL 10/18/01

CPC 10/18/01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

E94945 VOA	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-G-MW05-04 CARGMW0504 E94945-15 07/12/01 Water UG/L	A	CAR-G-MW06-04 CARGMW0604 E94945-14 07/12/01 Water UG/L	A	CAR-G-MW08-04 CARGMW0804 E94945-18 07/12/01 Water UG/L	A	CAR-H-MW08-04 CARHWM0804 E94945-19 07/12/01 Water UG/L	A	CAR-G-MW3D-04 CARGMW3D04 E94945-16 07/12/01 Water UG/L	A	CAR-G-MW3S-04 CARGMW3S04 E94945-17 07/12/01 Water UG/L	A
CAS #	Parameter												
67-64-1	Acetone	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
71-43-2	Benzene	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
75-27-4	Bromodichloromethane	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
75-25-2	Bromoform	4.	U	4.	U	4.	U	4.	U	4.	U	80.	U
74-83-9	Bromomethane	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
78-93-3	2-Butanone (MEK)	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
56-23-5	Carbon tetrachloride	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
108-90-7	Chlorobenzene	2.	U	2.	U	2.	U	2.	U	2.	U	40.	U
75-00-3	Chloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
74-87-3	Chloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
107-06-2	1,2-Dichloroethane	2.	U	2.	U	2.	U	2.	U	2.	U	164.	U
75-35-4	1,1-Dichloroethene	2.	U	2.	U	2.	U	2.	U	2.	U	40.	U
156-59-2	cis-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	38.3	J
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5780.	J
78-87-5	1,2-Dichloropropane	1.	U	1.	U	1.	U	1.	U	1.	U	13.9	J
10061-01-5	cis-1,3-Dichloropropene	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
10061-02-6	trans-1,3-Dichloropropene	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
100-41-4	Ethylbenzene	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
591-78-6	2-Hexanone	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
75-09-2	Methylene chloride	2.	U	2.	U	2.	U	2.	U	2.	U	40.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U	2.	U	2.	U	2.	U	2.	U	40.	U
127-18-4	Tetrachloroethene	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
108-88-3	Toluene	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U
79-00-5	1,1,2-Trichloroethane	3.	U	3.	U	3.	U	3.	U	3.	U	60.	U
79-01-6	Trichloroethene	1.	U	1.	U	1.	U	1.	U	1.	U	20.	U
75-01-4	Vinyl chloride	1.	U	1.	U	1.	U	1.	U	1.	U	567.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	100.	U

OK 10/18/01

Data Evaluation Worksheets
Sample Delivery Group
E94945

PCBs

Validation Worksheets - PCBs

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY Project No. 3133-031-05-004-00
 SDG # E94945 No. Samples 5 Matrix water Lab: Accutest - New Jersey

Attach Copy of Flagged Data Tables

Method Reference: SW846 8082

CRITERIA MET? YES NO	NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met <div style="margin-left: 150px;"> <i>water</i> - 7 days to extraction/40 days to analysis; <i>soil</i> - 14 days to extraction/40 days to analysis </div>	Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
Surrogate Recovery <input checked="" type="checkbox"/> <input type="checkbox"/> All recoveries within criteria	Attach summary for noncompliant surrogate recoveries. Indicate outliers and qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MS within lab limits <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MSD within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> RPDs within lab limits <i>see attached no action taken</i>	Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits	Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method and Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input checked="" type="checkbox"/> <input type="checkbox"/> Field blank clean? <input type="checkbox"/> Not Applicable <input type="checkbox"/> <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not Applicable	Attach copy of method blank summary. List all contaminants, concentrations and action levels. Attach copy of results for any associated field. Circle or highlight all contaminants and indicate action level. List all affected samples.

Validation Worksheets - PCBs

CRITERIA MET? YES NO	Noncompliance Notes
Calibration - RT Windows and Calibration Factors <input checked="" type="checkbox"/> <input type="checkbox"/> Initial Calibration forms present for both columns (5-point cal. only required for Aroclors 1016 and 1260. Other Aroclors are based on 1 point cal.) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input checked="" type="checkbox"/> <input type="checkbox"/> %RSD criteria met %RSD <20% for ea. compound OR Ave. %RSD for all compounds of <20%	Attach copy of initial calibration form for noncompliant % RSDs. Indicate noncompliances, qualifiers, and affected samples.
Calibration Verification <input checked="" type="checkbox"/> <input type="checkbox"/> Calibration verification forms present for both columns (Only required for Aroclors 1016 and 1260) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input checked="" type="checkbox"/> <input type="checkbox"/> All Arochlor compounds within %D criteria %D <15% for ea. compound OR Ave. %D for all compounds of <15%	Attach copy of verification form which does not meet %D criteria. Indicate outliers, qualifiers, and affected samples.
Compound Identification <input checked="" type="checkbox"/> Not Applicable - all samples were undetected <input type="checkbox"/> <input type="checkbox"/> Aroclors were properly identified and quantitated on both columns <input type="checkbox"/> <input type="checkbox"/> Retention time criteria met	List all samples with compounds containing peaks outside RT or no 2nd column confirmation. Indicate qualifiers.
Field Duplicates <input checked="" type="checkbox"/> Not Applicable Sample IDs _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature:

Ch Cantwell

Date 10/17/01

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: E94945
 Account: UTC United Technology Corporation
 Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9795-MS	WW25333.D 1		07/18/01	YYX	07/17/01	OP9795	GW851
OP9795-MSD	WW25334.D 1		07/18/01	YYX	07/17/01	OP9795	GW851
E94771-1	WW25326.D 1		07/17/01	YYX	07/17/01	OP9795	GW851

The QC reported here applies to the following samples:

Method: SW846 8082

E94945-13, E94945-14, E94945-15, E94945-16, E94945-17

CAS No.	Compound	E94771-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	4		2.7	68	3.7	92	31* a	49-138/21
11104-28-2	Aroclor 1221	ND			ND		ND		nc	15-178/0
11141-16-5	Aroclor 1232	ND			ND		ND		nc	10-215/0
53469-21-9	Aroclor 1242	ND			ND		ND		nc	39-150/0
12672-29-6	Aroclor 1248	ND			ND		ND		nc	38-158/0
11097-69-1	Aroclor 1254	ND			ND		ND		nc	29-131/1
11096-82-5	Aroclor 1260	ND	4		3.0	75	3.4	85	12	25-133/35

CAS No.	Surrogate Recoveries	MS	MSD	E94771-1	Limits
877-09-8	Tetrachloro-m-xylene	79%	96%	88%	25-134%
877-09-8	Tetrachloro-m-xylene	84%	102%	91%	25-134%
2051-24-3	Decachlorobiphenyl	57%	58%	63%	14-150%
2051-24-3	Decachlorobiphenyl	63%	65%	74%	14-150%

(a) Outside control limits due to matrix interference.

No action taken for the RPD outlier.
 The MS/MSD was performed on a
 batch sample that was not from
 the Thompson Road site. Therefore,
 no action was taken because the
 MS/MSD RPD outlier may not be
 representative of site samples.

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC sample

DATALCP3
10/17/01

PCB

SAMPLE ID ----->
ORIGINAL ID ----->
LAB SAMPLE ID ----->
ID FROM REPORT ----->
SAMPLE DATE ----->
DATE EXTRACTED ----->
DATE ANALYZED ----->
MATRIX ----->
UNITS ----->

CAR-F-0713-01
CARF071301
E95042-15
CARF071301
07/13/01
07/17/01
Water
UG/L

CAS # parameter

E95042 VAL

12674-11-2 Aroclor-1016
11104-28-2 Aroclor-1221
11141-16-5 Aroclor-1232
53469-21-9 Aroclor-1242
12672-29-6 Aroclor-1248
11097-69-1 Aroclor-1254
11096-82-5 Aroclor-1260

1.7 U
1.7 U
1.7 U
1.7 U
1.7 U
1.7 U
1.7 U

DATALCP2 10/18/01		UNITED TECHNOLOGIES CORPORATION SYRACUSE RFI				Page: 1 Time: 07:33
E94945 PCB	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED -----> MATRIX -----> UNITS ----->	CAR-G-MW01-04 CARGMW0104 E94945-13 07/12/01 07/19/01 07/21/01 Water UG/L	CAR-G-MW05-04 CARGMW0504 E94945-15 07/12/01 07/19/01 07/21/01 Water UG/L	CAR-G-MW06-04 CARGMW0604 E94945-14 07/12/01 07/19/01 07/21/01 Water UG/L	CAR-G-MW3D-04 CARGMW3D04 E94945-16 07/12/01 07/19/01 07/21/01 Water UG/L	CAR-G-MW3S-04 CARGMW3S04 E94945-17 07/12/01 07/19/01 07/21/01 Water UG/L
CAS #	Parameter					
12674-11-2	Aroclor-1016	0.52 U	0.52 U	0.52 U	0.52 U	0.5 U
11104-28-2	Aroclor-1221	0.52 U	0.52 U	0.52 U	0.52 U	0.5 U
11141-16-5	Aroclor-1232	0.52 U	0.52 U	0.52 U	0.52 U	0.5 U
53469-21-9	Aroclor-1242	0.52 U	0.52 U	0.52 U	0.52 U	0.5 U
12672-29-6	Aroclor-1248	0.52 U	0.52 U	0.52 U	0.52 U	0.5 U
11097-69-1	Aroclor-1254	0.52 U	0.52 U	0.52 U	0.52 U	0.5 U
11096-82-5	Aroclor-1260	0.52 U	0.52 U	0.52 U	0.52 U	0.5 U

No flags
OK
 10/18/01

Data Evaluation Worksheets
Sample Delivery Group
E94945

Metals

Validation Worksheets - Metals

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY Project No. 3133-031-05-004-00

SDG # E94945 No. Samples 5 Matrix water - total Lab: Accutest - New Jersey
5 water - dissolved

Attach Copy of Case Narrative, Lab Sample ID pages, and Flagged Data Tables

Method Reference: SW-846 6010B (metals except Hg)
 SW-846 7470A (aqueous Hg) SW-846 7470A (solid Hg)

CRITERIA MET? YES NO NOTE: FORMS CITED MAY BE EQUIVALENTS	NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met 6 Mos except Hg (28 days)	Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
Initial Calibration Verification (Form II-Part 1) <input checked="" type="checkbox"/> <input type="checkbox"/> Calibrated daily <input checked="" type="checkbox"/> <input type="checkbox"/> ICP - Calibration Acceptable (At least a 2 point calibration and %Rs 90-110%) <input checked="" type="checkbox"/> <input type="checkbox"/> Mercury - Calibration Acceptable (5 point calibration and %Rs 80-120%)	Attach copy of Form II for all noncompliant initial calibration criteria. Circle or highlight noncompliances and indicate qualifiers. List all affected samples on Form II. If calibration curve is not acceptable, discuss deficiencies and qualifiers.
Continuing Calibration Verification (Form II Part 1) <input checked="" type="checkbox"/> <input type="checkbox"/> Percent recoveries within limits Hg: 80-120%; others: 90-110%	Attach copy of Form II for noncompliant cont. calb. stds. Circle or highlight outliers and indicate qualifiers. List all affected samples on Form II.
ICP Interference Check Sample (Form IV) <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency? <input checked="" type="checkbox"/> <input type="checkbox"/> All recoveries within criteria 80-120%	Attach copy of Form IV for all noncompliant %Rs. Circle or highlight outliers & indicate qualifiers.
Blanks - Laboratory and Field <input checked="" type="checkbox"/> <input type="checkbox"/> Lab blanks performed at proper frequency? <input checked="" type="checkbox"/> <input type="checkbox"/> Initial calibration blanks associated with samples clean? <input checked="" type="checkbox"/> <input type="checkbox"/> Continuing calibration blank associated with samples clean? <input checked="" type="checkbox"/> <input type="checkbox"/> Prep blank performed for each batch/matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Prep blank clean? <input type="checkbox"/> <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not applicable	Attach copy of Form III. Circle or highlight all contaminants associated with samples and indicate action level. Attach copy of Form I for any associated field blank. Circle or highlight all contaminants and indicate action levels. List all affected samples.

Validation Worksheets - Metals

CRITERIA MET? YES NO	Noncompliance Notes
Spike Sample Recoveries (Form V-Part 1) <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency per matrix/level? <input checked="" type="checkbox"/> <input type="checkbox"/> Spike recoveries within criteria? 75-125%	Attach copy of Form V for all noncompliant %Rs. Circle or highlight outliers and indicate qualifiers. Note: %Rs are acceptable if elements are detected greater than 4 times the spike level.
Laboratory Duplicates (Form VI) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency per matrix/level? <input checked="" type="checkbox"/> <input type="checkbox"/> RPD within criteria <20%	Attach copy of Form V for all noncompliant RPDs. Circle or highlight outliers and indicate qualifiers. Note: RPDs are acceptable if elements are detected at a concentration less than 10 times the IDL.
Laboratory Control Sample (LCS) (Form VII) <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency? <input checked="" type="checkbox"/> <input type="checkbox"/> %Recoveries within lab or method criteria water \pm 20%; soil within limits	Attach copy of Form VII for all noncompliant %Rs. Circle or highlight outliers and indicate qualifiers.
ICP Serial Dilutions (Form IX) <input checked="" type="checkbox"/> <input type="checkbox"/> Performed at the proper frequency per matrix/level? <input checked="" type="checkbox"/> <input type="checkbox"/> %D within criteria %D <10%	Attach copy of Form IX for all noncompliant %Ds. Circle or highlight outliers and indicate qualifiers. Note: serial dilution is applicable to elements with concentrations greater than 10 times the IDL after dilution. If concentrations are less than 10 times the IDL after dilution, no action is necessary.
Field Duplicates <input checked="" type="checkbox"/> Not Applicable Sample IDs: _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs: _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature:

Ch Cantwell

Date 10 / 18 / 01

E94945 DISS METAL	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-G-FW01-04 CARGFW0104 E94945-13A 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-FW05-04 CARGFW0504 E94945-15A 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-FW06-04 CARGFW0604 E94945-14A 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-FW3D-04 CARGFW3D04 E94945-16A 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-FW3S-04 CARGFW3S04 E94945-17A 07/12/01 07/18/01 07/23/01 Water UG/L	A
CAS #	Parameter										
7440-38-2	Arsenic	5.	U	5.	U	5.	U	5.	U	5.	U
7440-47-3	Chromium	10.	U	10.	U	10.	U	10.	U	10.	U
7439-89-6	Iron	100.	U	5190.	U	100.	U	100.	U	100.	U
7439-92-1	Lead	3.	U	3.	U	3.	U	3.	U	3.	U
7439-95-4	Magnesium	51200.	U	95400.	U	39800.	U	48700.	U	69800.	U
7440-02-0	Nickel	40.	U	40.	U	40.	U	40.	U	40.	U
7782-49-2	Selenium	5.	U	5.	U	5.	U	5.	U	5.	U

No flags

CWC 10/18/01

No flags
CWC 10/18/01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

E94945 METAL	SAMPLE ID ORIGINAL ID LAB SAMPLE ID SAMPLE DATE DATE EXTRACTED DATE ANALYZED MATRIX UNITS	CAR-G-MW01-04 CARGMW0104 E94945-13 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-MW05-04 CARGMW0504 E94945-15 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-MW06-04 CARGMW0604 E94945-14 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-MW3D-04 CARGMW3D04 E94945-16 07/12/01 07/18/01 07/19/01 Water UG/L	A	CAR-G-MW3S-04 CARGMW3S04 E94945-17 07/12/01 07/18/01 07/19/01 Water UG/L	A
CAS # Parameter											
7440-38-2 Arsenic	5.	14.8	5.	10.	7.1	7.9					
7440-47-3 Chromium	10.	45.3	10.	2370.	10.	10.					
7439-89-6 Iron	275.	67000.	1310.	3.	3.	3.					
7439-92-1 Lead	3.	21.	3.	41800.	49300.	8270.					
7439-95-4 Magnesium	52800.	103000.	40.	40.	40.	73400.					
7440-02-0 Nickel	40.	40.	40.	40.	40.	40.					
7782-49-2 Selenium	5.	5.	5.	5.	5.	5.					

No flags
CWC
10/18/01

Data Evaluation Worksheets
Sample Delivery Group
E94945

General Chemistry

Validation Worksheets - General Chemistry

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY Project No. 3133-031-05-004-00

SDG # E 94945 No. Samples 5 Matrix Water Lab: Accutest - New Jersey

Attach Copy of Case Narrative, Lab Sample ID pages, and Flagged Data Tables

List Method(s)/Method number(s):

Fluoride (EPA 300.0) Nitrite (SM18, 4500) TOC (EPA 415.1)
Oil and Grease (HEM) (EPA 1664) Nitrate + nitrite (EPA 353.2) TOX (SW-846 9020)
Nitrate (EPA 353.2) Phenols (EPA 420.2)

CRITERIA MET? YES NO	NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input type="checkbox"/> <input checked="" type="checkbox"/> Hold Times Met <u>see attached</u>	Attach list of samples which exceed hold times. Indicate total hold time and qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MS within lab limits	List noncompliant %Rs and RPDs or attach form. Indicate all noncompliances and qualifiers.
Lab Control Standard/Blank Spike <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries within limits	List noncompliant %Rs or attach form. Indicate all noncompliances and qualifiers.
Laboratory Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> RPDs within lab limits	
Blanks: Method - Trip - Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input type="checkbox"/> <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not Applicable	Attach copy of Form IV (or equiv.) for all samples. List all contaminants, concentrations and action level. Attach copy of Form I (or equiv.) for any associated field or trip blanks. Circle all contaminants and indicate action level. List all affected samples.
Field Duplicates <input checked="" type="checkbox"/> Not Applicable Sample IDs: _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.

Reviewer's Signature:

Ch Cantwell

Date 10 / 18 / 01

Report of Analysis

Client Sample ID: 12 ENS-SYR-TMP-MW01-CARGMW0104

Lab Sample ID: E94945-13

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite ^b	<0.010 ^J	0.010	mg/l	1 *	07/16/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	10.6	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides	<0.050	0.050	mg/l	1	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis done out of holding time as per client request.

* Nitrite was flagged "UJ" in sample CARGMW0104
due to holding time exceedance.

Report of Analysis

Page 1 of 1

Client Sample ID: 13 ENS-SYR-TMP-MW06-CARGMW0604

Lab Sample ID: E94945-14

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SIG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	<1.0	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides	<0.050	0.050	mg/l	1	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Report of Analysis

Client Sample ID: 14 ENS-SYR-TMP-MW05-CARGMW0504

Lab Sample ID: E94945-15

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	15.8	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides ^b	0.47	0.20	mg/l	4	08/06/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Second column analysis indicates possible matrix interference.

Report of Analysis

Client Sample ID: 15 ENS-SYR-TMP-MW3D-CARGMW3D04

Lab Sample ID: E94945-16

Date Sampled: 07/12/01

Matrix: AQ - Ground Water

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM184500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	<1.0	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides	<0.050	0.050	mg/l	1	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Report of Analysis

Client Sample ID: 16 ENS-SYR-TMP-MW3S-CARGMW3S04

Lab Sample ID: E94945-17

Matrix: AQ - Ground Water

Date Sampled: 07/12/01

Date Received: 07/13/01

Percent Solids: n/a

Project: ENSTNN: Carrier, Syracuse, NY

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Fluoride	<0.40	0.40	mg/l	1	07/26/01 VL	EPA 300/SW846 9056
HEM Oil and Grease	<5.0	5.0	mg/l	1	07/28/01 SJG	EPA 1664
Nitrogen, Nitrate ^a	<0.11	0.11	mg/l	1	08/02/01 JK	EPA353.2/SM:84500
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	08/02/01 JK	EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	07/13/01 KY	SM18 4500NO2B
Phenols	<0.050	0.050	mg/l	1	07/31/01 JK	EPA 420.2
Total Organic Carbon	2.8	1.0	mg/l	1	07/19/01 AMS	415.1/9060 M/5310B M
Total Organic Halides ^b	8.6	2.0	mg/l	40	08/02/01 JJY	SW846 9020

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Second column analysis indicates possible matrix interference.

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

DATALCP2
10/18/01

E94945 GEN CHEM	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED -----> DATE ANALYZED -----> MATRIX -----> UNITS ----->	CAR-G-MW01-04 CARGMW0104 E94945-13 07/12/01 07/16/01 Water MG/L	A	CAR-G-MW05-04 CARGMW0504 E94945-15 07/12/01 07/26/01 Water MG/L	A	CAR-G-MW06-04 CARGMW0604 E94945-14 07/12/01 07/26/01 Water MG/L	A	CAR-G-MW3D-04 CARGMW3D04 E94945-16 07/12/01 07/18/01 07/19/01 Water MG/L	A	CAR-G-MW3S-04 CARGMW3S04 E94945-17 07/12/01 07/26/01 07/28/01 Water MG/L	A
CAS #	Parameter										
14797-65-0	Nitrite (as N)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
14797-55-8	Nitrate (as N)	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
9999000-84-0	Nitrate + Nitrite (as N)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
16984-48-8	Fluoride (F)	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
9999001-25-2	Oil and Grease (Hexane Extractable)	5.	U	5.	U	5.	U	5.	U	5.	U
9999900-32-1	Phenolics, Total Recoverable	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
9999000-02-2	Total Organic Halides (TOX)	0.05	U	0.47	U	0.05	U	0.05	U	8.6	U
9999900-04-2	Total Organic Carbon (TOC)	10.6		15.8		1.	U	1.		2.8	

CAC

10/18/01

CLM
10/18/01

Data Evaluation Worksheets
Sample Delivery Group
E95042

Volatile Organic Compounds

Validation Worksheets - Volatile Organics

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY Project No. 3133-031-05-004-00

SDG # E95042 No. Samples 18 Matrix Water Lab: Accutest - New Jersey

Attach Copy of Flagged Data Tables

Method Reference: SW-846 8260B

CRITERIA MET? YES NO NOTE: FORMS CITED MAY BE EQUIVALENTS	NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met 14 days soil & preserved water, 7 days unpreserved water	Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
System Monitoring Compounds Recovery <input checked="" type="checkbox"/> <input type="checkbox"/> Form II present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> All recoveries within lab criteria	Attach copy of Form II for all noncompliant surrogate recoveries. Circle all noncompliances and indicate qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input type="checkbox"/> <input checked="" type="checkbox"/> MS %Rs within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> MSD %Rs within lab limits <input checked="" type="checkbox"/> <input type="checkbox"/> RPDs within lab limits	Attach copy of Form III for all noncompliant % Recoveries. Circle all noncompliances and indicate qualifiers. <i>C-1,2-DCP was flagged "J" in sample CARG 990404</i>
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits	Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method - Trip - Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input type="checkbox"/> <input type="checkbox"/> Field blank clean? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> <input checked="" type="checkbox"/> Equip. blank clean? <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> Trip blank clean? <input type="checkbox"/> Not Applicable	Attach copy of Form IV for all samples. List all contaminants, concentrations and action level. Attach copy of Form I for any associated field or trip blanks. Circle all contaminants and indicate action level. List all affected samples. <i>acetone was flagged "U" in sample CARG 010704 due to equipment blank results. All other samples were unaffected by acetone in the blank because they were undetected</i>

Validation Worksheets - Volatile Organics

CRITERIA MET? YES NO		Noncompliance Notes
GC/MS Instrument Performance Check (Form V) <input checked="" type="checkbox"/> <input type="checkbox"/> All samples within 12 hr limit <input checked="" type="checkbox"/> <input type="checkbox"/> All BFB m/z within criteria		Attach copy of Form V for noncompliant tune. Indicate noncompliances and qualifiers.
GC/MS Initial Calibration <input checked="" type="checkbox"/> <input type="checkbox"/> Form VI present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> %RSD criteria met %RSD <15% for ea. compound OR Ave. %RSD for all compounds of <15% <input checked="" type="checkbox"/> <input type="checkbox"/> RRF criteria met SPCC RRFs >0.1 for: chloromethane, 1,1-DCA, bromoform. >0.3 for chlorobenzene, 1,1,2,2-tetrachloroethane		Attach copy of Form VI for noncompliant % RSD or RRF. Circle each noncompliance and indicate qualifiers. List all affected samples on Form VI.
GC/MS Continuing Calibration <input checked="" type="checkbox"/> <input type="checkbox"/> Form VII (for all samples) <input checked="" type="checkbox"/> <input type="checkbox"/> %D criteria met %Ds < 20% for CCCs: 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, vinyl chloride OR Ave. %D for all compounds of <20%. <input checked="" type="checkbox"/> <input type="checkbox"/> RRF criteria met Same as Initial Calib.		Attach copy of Form VII for noncompliant %D or RRF. Circle each noncompliance and indicate qualifiers. List all affected samples in Form VII.
Internal Standard <input checked="" type="checkbox"/> <input type="checkbox"/> Form VIII present for all samples <input checked="" type="checkbox"/> <input type="checkbox"/> All IS area within lab criteria <input checked="" type="checkbox"/> <input type="checkbox"/> All retention times within lab criteria		Attach copy of Form VIII for all noncompliant areas and RTs. Circle all noncompliances and indicate qualifiers.
Field Duplicates <input type="checkbox"/> Not Applicable Sample IDs: <u>CARG990408</u> , <u>CARH990408</u> <input checked="" type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs: _____ , _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil		Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers.
Sample Results <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes		Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.
Reviewer's Signature: <u>CH Cantwell</u> Date <u>10, 18, 01</u>		

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC samples for Soil SDG E95042

VOA		SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE ANALYZED MATRIX UNITS	CAR-T-0713-01 CART071301 E95042-19 CART071301 07/13/01 07/26/01 Water UG/L	CAR-E-0715-0P CARE0715P E95042-16 CARE0715P 07/13/01 07/26/01 Water UG/L				
CAS #	Parameter		E95042	NV	E95042	NV		
67-64-1	Acetone		5.	U	Ac-76 7.6	U		
71-43-2	Benzene		1.	U	1.	U		
75-27-4	Bromodichloromethane		1.	U	1.	U		
75-25-2	Bromoform		4.	U	4.	U		
74-83-9	Bromomethane		5.	U	5.	U		
78-93-3	2-Butanone (MEK)		5.	U	5.	U		
75-15-0	Carbon disulfide		5.	U	5.	U		
56-23-5	Carbon tetrachloride		1.	U	1.	U		
108-90-7	Chlorobenzene		2.	U	2.	U		
75-00-3	Chloroethane		5.	U	5.	U		
67-66-3	Chloroform		5.	U	5.	U		
74-87-3	Chloromethane		5.	U	5.	U		
124-48-1	Dibromochloromethane		5.	U	5.	U		
75-34-3	1,1-Dichloroethane		5.	U	5.	U		
107-06-2	1,2-Dichloroethane		2.	U	2.	U		
75-35-4	1,1-Dichloroethene		2.	U	2.	U		
156-59-2	cis-1,2-Dichloroethene		5.	U	5.	U		
156-60-5	trans-1,2-Dichloroethene		5.	U	5.	U		
78-87-5	1,2-Dichloropropane		1.	U	1.	U		
10061-01-5	cis-1,3-Dichloropropene		1.	U	1.	U		
10061-02-6	trans-1,3-Dichloropropene		1.	U	1.	U		
100-41-4	Ethylbenzene		1.	U	1.	U		
591-78-6	2-Hexanone		5.	U	5.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)		5.	U	5.	U		
75-09-2	Methylene chloride		2.	U	2.	U		
100-42-5	Styrene		5.	U	5.	U		
79-34-5	1,1,2,2-Tetrachloroethane		2.	U	2.	U		
127-18-4	Tetrachloroethene		1.	U	1.	U		
108-88-3	Toluene		1.	U	1.	U		
71-55-6	1,1,1-Trichloroethane		5.	U	5.	U		
79-00-5	1,1,2-Trichloroethane		3.	U	3.	U		
79-01-6	Trichloroethene		1.	U	1.	U		
75-01-4	Vinyl chloride		1.	U	1.	U		
1330-20-7	Xylene (total)		5.	U	5.	U		

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: E95042
Account: UTC United Technology Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
E95042-7MS	A47325.D	20	07/27/01	MRD	n/a	n/a	VA1240
E95042-7MSD	A47326.D	20	07/27/01	MRD	n/a	n/a	VA1240
E95042-7	A47258.D	20	07/25/01	MRD	n/a	n/a	VA1240

The QC reported here applies to the following samples:

Method: SW846 8260B

E95042-1, E95042-2, E95042-3, E95042-4, E95042-5, E95042-6, E95042-7, E95042-8, E95042-9, E95042-10, E95042-11, E95042-12, E95042-13, E95042-14, E95042-16, E95042-17, E95042-18, E95042-19

CAS No.	Compound	E95042-7 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1000	836	84	855	86	2	21-160/30
71-43-2	Benzene	ND		1000	935	94	978	98	4	61-138/11
75-27-4	Bromodichloromethane	ND		1000	970	97	1000	100	3	75-130/12
75-25-2	Bromoform	ND		1000	1070	107	1110	111	4	59-136/14
74-83-9	Bromomethane	ND		1000	891	89	893	89	0	65-143/18
78-93-3	2-Butanone (MEK)	ND		1000	1120	112	1180	118	5	41-141/29
75-15-0	Carbon disulfide	ND		1000	816	82	859	86	5	55-134/24
56-23-5	Carbon tetrachloride	ND		1000	977	98	1020	102	4	69-143/17
108-90-7	Chlorobenzene	ND		1000	1010	101	1050	105	4	83-124/12
75-00-3	Chloroethane	ND		1000	987	99	983	98	0	66-147/19
67-66-3	Chloroform	ND		1000	878	88	924	92	5	76-128/12
74-87-3	Chloromethane	ND		1000	887	89	897	90	1	59-136/23
124-48-1	Dibromochloromethane	ND		1000	1040	104	1080	108	4	69-130/13
75-34-3	1,1-Dichloroethane	69.9	J	1000	980	91	1020	95	4	73-130/14
107-06-2	1,2-Dichloroethane	ND		1000	949	95	982	98	3	67-138/12
75-35-4	1,1-Dichloroethene	ND		1000	996	100	1030	103	3	72-134/17
156-59-2	cis-1,2-Dichloroethene	2390		1000	3770	138*	3870	148*	3	73-131/14
156-60-5	trans-1,2-Dichloroethene	ND		1000	867	87	919	92	6	71-129/16
78-87-5	1,2-Dichloropropane	ND		1000	975	98	1020	102	4	77-127/13
10061-01-5	cis-1,3-Dichloropropene	ND		1000	1010	101	1050	105	4	75-125/12
10061-02-6	trans-1,3-Dichloropropene	ND		1000	1040	104	1080	108	4	73-125/13
100-41-4	Ethylbenzene	ND		1000	1060	106	1100	110	4	68-139/12
591-78-6	2-Hexanone	ND		1000	1010	101	1060	106	5	47-141/22
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		1000	1010	101	1040	104	3	68-131/18
75-09-2	Methylene chloride	15.0	J	1000	952	94	950	94	0	69-132/13
100-42-5	Styrene	ND		1000	1140	114	1160	116	2	76-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	1040	104	1090	109	5	72-127/12
127-18-4	Tetrachloroethene	ND		1000	980	98	1020	102	4	55-149/13
108-88-3	Toluene	ND		1000	999	100	1040	104	4	55-147/12
71-55-6	1,1,1-Trichloroethane	ND		1000	903	90	945	94	4	72-135/14
79-00-5	1,1,2-Trichloroethane	ND		1000	970	97	1000	100	3	78-131/11
79-01-6	Trichloroethene	ND		1000	966	97	1010	101	4	77-132/13
75-01-4	Vinyl chloride	338		1000	1390	105	1410	107	1	63-138/18
1330-20-7	Xylene (total)	ND		3000	3270	109	3390	113	4	57-146/12

Action: cis-1,2-DCE was flagged "J" in unspiked sample CARG990404 due to potential matrix effects although the concentration in the sample was high relative to the spike concentration.

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI

E95042 VOA	SAMPLE ID ORIGINAL ID LAB SAMPLE ID SAMPLE DATE DATE ANALYZED MATRIX UNITS	CAR-G-0107-04 CARG010704 E95042-14 07/13/01 Water UG/L	CAR-G-0108-04 CARG010804 E95042-13 07/13/01 Water UG/L	CAR-G-9904-01 CARG071301 E95042-18 07/13/01 Water UG/L	CAR-G-9904-02 CARG990402 E95042-12 07/13/01 Water UG/L	CAR-G-9904-03 CARG990403 E95042-9 07/13/01 Water UG/L	CAR-G-9904-04 CARG990404 E95042-7 07/13/01 Water UG/L
CAS #	Parameter	A	A	A	A	A	A
67-64-1	Acetone	250.	U	50.	U	50.	U
71-43-2	Benzene	50.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	50.	U	10.	U	10.	U
75-25-2	Bromoform	200.	U	40.	U	40.	U
74-83-9	Bromomethane	250.	U	50.	U	50.	U
78-93-3	2-Butanone (MEK)	250.	U	50.	U	50.	U
75-15-0	Carbon disulfide	250.	U	50.	U	50.	U
56-23-5	Carbon tetrachloride	50.	U	10.	U	10.	U
108-90-7	Chlorobenzene	100.	U	20.	U	20.	U
75-00-3	Chloroethane	250.	U	50.	U	50.	U
67-66-3	Chloroform	250.	U	50.	U	50.	U
74-87-3	Chloromethane	250.	U	50.	U	50.	U
124-48-1	Dibromochloromethane	250.	U	50.	U	50.	U
75-34-3	1,1-Dichloroethane	250.	U	34.4	J	45.1	J
107-06-2	1,2-Dichloroethane	100.	U	20.	U	20.	U
75-35-4	1,1-Dichloroethene	100.	U	9.7	J	10.3	J
156-59-2	cis-1,2-Dichloroethene	7020.	J	1210.	U	1600.	U
156-60-5	trans-1,2-Dichloroethene	29.2	J	50.	U	50.	U
78-87-5	1,2-Dichloropropane	50.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U	10.	U	10.	U
100-41-4	Ethylbenzene	250.	U	50.	U	50.	U
591-78-6	2-Hexanone	250.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250.	U	50.	U	50.	U
75-09-2	Methylene chloride	100.	U	20.	U	20.	U
100-42-5	Styrene	250.	U	50.	U	50.	U
79-34-5	1,1,2,2-Tetrachloroethane	100.	U	20.	U	20.	U
127-18-4	Tetrachloroethene	50.	U	10.	U	10.	U
108-88-3	Toluene	250.	U	50.	U	50.	U
71-55-6	1,1,1-Trichloroethane	150.	U	30.	U	30.	U
79-00-5	1,1,2-Trichloroethane	8760.	U	10.	U	10.	U
79-01-6	Trichloroethene	505.	U	199.	U	230.	U
75-01-4	Vinyl chloride	250.	U	50.	U	50.	U
1330-20-7	Xylene (total)						

*find date
page 6*

OK 10/18/01

E95042 VOA	SAMPLE ID ORIGINAL ID LAB SAMPLE ID SAMPLE DATE DATE ANALYZED MATRIX UNITS	CAR-G-9904-05 CARG990405 E95042-3 07/13/01 07/25/01 Water UG/L	CAR-G-9904-06 CARG990406 E95042-4 07/13/01 07/25/01 Water UG/L	CAR-G-9904-07 CARG990407 E95042-8 07/13/01 07/25/01 Water UG/L	CAR-G-9904-08 CARG990408 E95042-6 07/13/01 07/25/01 Water UG/L	CAR-H-9904-08 CARH990408 E95042-5 07/13/01 07/25/01 Water UG/L	CAR-G-9904-09 CARG990409 E95042-1 07/13/01 07/25/01 Water UG/L
CAS #	Parameter	A	A	A	A	A	A
67-64-1	Acetone	50.	50.	100.	50.	50.	100.
71-43-2	Benzene	10.	10.	20.	10.	10.	20.
75-27-4	Bromodichloromethane	10.	10.	20.	10.	10.	20.
75-25-2	Bromoform	40.	40.	80.	40.	40.	80.
74-83-9	Bromomethane	50.	50.	100.	50.	50.	100.
78-93-3	2-Butanone (MEK)	50.	50.	100.	50.	50.	100.
75-15-0	Carbon disulfide	50.	50.	100.	50.	50.	100.
56-23-5	Carbon tetrachloride	10.	10.	20.	10.	10.	20.
108-90-7	Chlorobenzene	20.	20.	40.	20.	20.	40.
75-00-3	Chloroethane	50.	50.	100.	50.	50.	100.
67-66-3	Chloroform	50.	50.	100.	50.	50.	100.
74-87-3	Chloromethane	50.	50.	100.	50.	50.	100.
124-48-1	Dibromochloromethane	50.	50.	100.	50.	50.	100.
75-34-3	1,1-Dichloroethane	52.	52.7	61.1	53.7	54.4	60.4
107-06-2	1,2-Dichloroethane	20.	20.	40.	20.	20.	40.
75-35-4	1,1-Dichloroethene	11.2	11.2	40.	12.	11.6	40.
156-59-2	cis-1,2-Dichloroethene	1730.	1810.	2070.	1870.	1850.	1950.
156-60-5	trans-1,2-Dichloroethene	50.	50.	100.	50.	50.	100.
78-87-5	1,2-Dichloropropane	10.	10.	20.	10.	10.	20.
10061-01-5	cis-1,3-Dichloropropene	10.	10.	20.	10.	10.	20.
10061-02-6	trans-1,3-Dichloropropene	10.	10.	20.	10.	10.	20.
100-41-4	Ethylbenzene	50.	50.	100.	50.	50.	100.
591-78-6	2-Hexanone	50.	50.	100.	50.	50.	100.
108-10-1	4-Methyl-2-Pentanone (MIBK)	8.5	20.	14.8	8.5	20.	40.
75-09-2	Methylene chloride	50.	50.	100.	50.	50.	100.
100-42-5	Styrene	20.	20.	40.	20.	20.	40.
79-34-5	1,1,2,2-Tetrachloroethane	10.	10.	20.	10.	10.	20.
127-18-4	Tetrachloroethene	10.	10.	20.	10.	10.	20.
108-88-3	Toluene	10.	10.	20.	10.	10.	20.
71-55-6	1,1,1-Trichloroethane	30.	30.	60.	30.	30.	60.
79-00-5	1,1,2-Trichloroethane	10.	10.	20.	10.	10.	20.
79-01-6	Trichloroethene	259.	256.	332.	282.	281.	268.
75-01-4	Vinyl chloride	50.	50.	100.	50.	50.	100.
1330-20-7	Xylene (total)						

Field Ops.
note: Methylene chloride was not flagged because the detected value was below the SQL.

E95042 VOA	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> SAMPLE DATE -----> DATE ANALYZED ----> MATRIX -----> UNITS ----->	CAR-G-9904-10 CARG990410 E95042-2 07/13/01 07/25/01 Water UG/L	A	CAR-G-9904-83 CARG990403 BAG E95042-10 07/13/01 07/26/01 Water UG/L	A	CAR-G-9904-B6 CARG990406 BAG E95042-11 07/13/01 07/26/01 Water UG/L	A		
CAS #	Parameter								
67-64-1	Acetone	50.	U	120.	U	250.	U		
71-43-2	Benzene	10.	U	25.	U	50.	U		
75-27-4	Bromodichloromethane	10.	U	25.	U	50.	U		
75-25-2	Bromoform	40.	U	100.	U	200.	U		
74-83-9	Bromomethane	50.	U	120.	U	250.	U		
78-93-3	2-Butanone (MEK)	50.	U	120.	U	250.	U		
75-15-0	Carbon disulfide	50.	U	120.	U	250.	U		
56-23-5	Carbon tetrachloride	10.	U	25.	U	50.	U		
108-90-7	Chlorobenzene	20.	U	50.	U	100.	U		
75-00-3	Chloroethane	50.	U	120.	U	250.	U		
67-66-3	Chloroform	50.	U	120.	U	250.	U		
74-87-3	Chloromethane	50.	U	120.	U	250.	U		
124-48-1	Dibromochloromethane	50.	U	120.	U	250.	U		
75-34-3	1,1-Dichloroethane	43.4	J	137.	U	182.	J		
107-06-2	1,2-Dichloroethane	20.	U	50.	U	100.	U		
75-35-4	1,1-Dichloroethene	20.	U	50.	U	100.	U		
156-59-2	cis-1,2-Dichloroethene	1480.	U	4080.	J	6720.	U		
156-60-5	trans-1,2-Dichloroethene	50.	U	22.1	U	250.	U		
78-87-5	1,2-Dichloropropane	10.	U	25.	U	50.	U		
10061-01-5	cis-1,3-Dichloropropene	10.	U	25.	U	50.	U		
10061-02-6	trans-1,3-Dichloropropene	10.	U	25.	U	50.	U		
100-41-4	Ethylbenzene	50.	U	120.	U	250.	U		
591-78-6	2-Hexanone	50.	U	120.	U	250.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	120.	U	250.	U		
75-09-2	Methylene chloride	7.1	J	50.	U	100.	U		
100-42-5	Styrene	50.	U	120.	U	250.	U		
79-34-5	1,1,2,2-Tetrachloroethane	20.	U	50.	U	100.	U		
127-18-4	Tetrachloroethene	10.	U	25.	U	50.	U		
108-88-3	Toluene	10.	U	25.	U	50.	U		
71-55-6	1,1,1-Trichloroethane	50.	U	120.	U	250.	U		
79-00-5	1,1,2-Trichloroethane	30.	U	75.	U	150.	U		
79-01-6	Trichloroethene	10.	U	25.	U	50.	U		
75-01-4	Vinyl chloride	219.	U	500.	U	1090.	U		
1330-20-7	Xylene (total)	50.	U	120.	U	250.	U		

OK 10/18/01

Data Evaluation Worksheets
Sample Delivery Group
E95042

PCBs

Validation Worksheets - PCBs

Site: Carrier Corporation - Thompson Road Facility, Syracuse, NY Project No. 3133-031-05-004-00

SDG # E95042 No. Samples 2 Matrix Sediment Lab: Accutest - New Jersey
1 water

Attach Copy of Flagged Data Tables

Method Reference: SW846 8082

CRITERIA MET? YES NO		NONCOMPLIANCE NOTES
Data Completeness / Sample Receipt <input checked="" type="checkbox"/> <input type="checkbox"/> Data Complete <input checked="" type="checkbox"/> <input type="checkbox"/> Samples received in good condition		Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review. If any problems were noted with sample condition or receipt affecting data quality, attach discrepancy report or summarize problems and effects on data.
<input checked="" type="checkbox"/> <input type="checkbox"/> Hold Times Met water - 7 days to extraction/40 days to analysis; soil - 14 days to extraction/40 days to analysis		Attach list of samples which exceed hold times. Indicate <u>total</u> hold time and qualifiers.
Surrogate Recovery <input checked="" type="checkbox"/> <input type="checkbox"/> All recoveries within criteria		Attach summary for noncompliant surrogate recoveries. Indicate outliers and qualifiers.
Matrix Spike/Matrix Spike Duplicate <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> MS/MSD performed for each matrix <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MS within lab limits <input checked="" type="checkbox"/> <input type="checkbox"/> Recoveries for MSD within lab limits <input type="checkbox"/> <input checked="" type="checkbox"/> RPDs within lab limits <i>see attached No action taken</i>		Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Laboratory Control Samples (LCS) <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> <input type="checkbox"/> LCS %Rs within lab limits		Attach summary for all noncompliant % Recoveries. Circle all outliers and indicate qualifiers.
Blanks: Method and Field <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank performed for each matrix? <input checked="" type="checkbox"/> <input type="checkbox"/> Method blank clean? <input checked="" type="checkbox"/> <input type="checkbox"/> Field blank clean? <input type="checkbox"/> Not Applicable <input type="checkbox"/> <input type="checkbox"/> Equip. blank clean? <input checked="" type="checkbox"/> Not Applicable		Attach copy of method blank summary. List all contaminants, concentrations and action levels. Attach copy of results for any associated field. Circle or highlight all contaminants and indicate action level. List all affected samples.

Validation Worksheets - PCBs

CRITERIA MET? YES NO	Noncompliance Notes								
Calibration - RT Windows and Calibration Factors <input checked="" type="checkbox"/> <input type="checkbox"/> Initial Calibration forms present for both columns (5-point cal. only required for Aroclors 1016 and 1260. Other Aroclors are based on 1 point cal.) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input checked="" type="checkbox"/> <input type="checkbox"/> %RSD criteria met %RSD <20% for ea. compound OR Ave. %RSD for all compounds of <20%	Attach copy of initial calibration form for noncompliant % RSDs. Indicate noncompliances, qualifiers, and affected samples.								
Calibration Verification <input checked="" type="checkbox"/> <input type="checkbox"/> Calibration verification forms present for both columns (Only required for Aroclors 1016 and 1260) <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met for both columns <input checked="" type="checkbox"/> <input type="checkbox"/> All Arochlor compounds within %D criteria %D <15% for ea. compound OR Ave. %D for all compounds of <15%	Attach copy of verification form which does not meet %D criteria. Indicate outliers, qualifiers, and affected samples.								
Compound Identification <input type="checkbox"/> Not Applicable - all samples were undetected <input checked="" type="checkbox"/> <input type="checkbox"/> Aroclors were properly identified and quantitated on both columns <input checked="" type="checkbox"/> <input type="checkbox"/> Retention time criteria met	List all samples with compounds containing peaks outside RT or no 2nd column confirmation. Indicate qualifiers.								
Field Duplicates <input type="checkbox"/> Not Applicable Sample IDs <u>CARMH03901</u> , <u>CABRM03901</u> <input type="checkbox"/> <input checked="" type="checkbox"/> Within RPD Criteria 35% water; 50% soil Sample IDs _____, _____ <input type="checkbox"/> <input type="checkbox"/> Within RPD Criteria 35% water; 50% soil	Identify field duplicate pair and attach list of all compounds with noncompliant RPDs. Indicate qualifiers. <div style="text-align: right;"> <table border="0"> <tr> <th>Result</th> <th>Dup</th> <th>RPD</th> <th>Action</th> </tr> <tr> <td>AR1260</td> <td>1270</td> <td>386</td> <td>106.8 J/J</td> </tr> </table> </div>	Result	Dup	RPD	Action	AR1260	1270	386	106.8 J/J
Result	Dup	RPD	Action						
AR1260	1270	386	106.8 J/J						
Sample Results <input checked="" type="checkbox"/> <input type="checkbox"/> Reporting Limits adjusted for %moisture / dilutions / sample volumes	Call (fax) lab for resubmittals. Attach all resubmittal correspondence to this review.								

Reviewer's Signature:

CH Cantwell

Date 10/17/01

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: E95042

Account: UTC United Technology Corporation

Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9795-MS	WW25333.D 1		07/18/01	YYX	07/17/01	OP9795	GWW851
OP9795-MSD	WW25334.D 1		07/18/01	YYX	07/17/01	OP9795	GWW851
E94771-1	WW25326.D 1		07/17/01	YYX	07/17/01	OP9795	GWW851

The QC reported here applies to the following samples:

Method: SW846 8082

E95042-15

CAS No.	Compound	E94771-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	4		2.7	68	3.7	92	31* a	49-138/21
11104-28-2	Aroclor 1221	ND			ND		ND		nc	15-178/0
11141-16-5	Aroclor 1232	ND			ND		ND		nc	10-215/0
53469-21-9	Aroclor 1242	ND			ND		ND		nc	39-150/0
12672-29-6	Aroclor 1248	ND			ND		ND		nc	38-158/0
11097-69-1	Aroclor 1254	ND			ND		ND		nc	29-131/1
11096-82-5	Aroclor 1260	ND	4		3.0	75	3.4	85	12	25-133/35

CAS No.	Surrogate Recoveries	MS	MSD	E94771-1	Limits
877-09-8	Tetrachloro-m-xylene	79%	96%	88%	25-134%
877-09-8	Tetrachloro-m-xylene	84%	102%	91%	25-134%
2051-24-3	Decachlorobiphenyl	57%	58%	63%	14-150%
2051-24-3	Decachlorobiphenyl	63%	65%	74%	14-150%

(a) Outside control limits due to matrix interference.

No action taken for the RPD outlier. The MS/MSD was performed on a batch sample that was not from the Thompson Road site. Therefore, no action was taken because the MS/MSD RPD outlier may not be representative of site samples.

205
we 10/16/01

UNITED TECHNOLOGIES CORPORATION
SYRACUSE RFI
Field QC sample

Page: 1
Time: 12:10

DATALCP3
10/17/01

PCB	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> ID FROM REPORT -----> SAMPLE DATE -----> DATE EXTRACTED -----> MATRIX -----> UNITS ----->	CAR-F-0713-01 CARF071301 E95042-15 CARF071301 07/13/01 07/17/01 Water UG/L							
CAS # Parameter		E95042 VAL							
12674-11-2 Aroclor-1016		1.7 U							
11104-28-2 Aroclor-1221		1.7 U							
11141-16-5 Aroclor-1232		1.7 U							
53469-21-9 Aroclor-1242		1.7 U							
12672-29-6 Aroclor-1248		1.7 U							
11097-69-1 Aroclor-1254		1.7 U							
11096-82-5 Aroclor-1260		1.7 U							

E95042 PCB	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED --> MATRIX -----> UNITS ----->	CAR-M-H039-01 CARMH03901 E95042-20 07/13/01 07/17/01 07/25/01 Sedmnt UG/KG A	CAR-R-M039-01 CARRM03901 E95042-21 07/13/01 07/17/01 07/25/01 Sedmnt UG/KG A					
CAS #	Parameter							
12674-11-2	Aroclor-1016	33.	28.	U	U			
11104-28-2	Aroclor-1221	33.	28.	U	U			
11141-16-5	Aroclor-1232	33.	28.	U	U			
53469-21-9	Aroclor-1242	33.	28.	U	U			
12672-29-6	Aroclor-1248	33.	28.	U	U			
11097-69-1	Aroclor-1254	33.	28.	U	U			
11096-82-5	Aroclor-1260	1270.	386.	J	J			
		Field dups RPD = 106.8						

OK
10/18/01

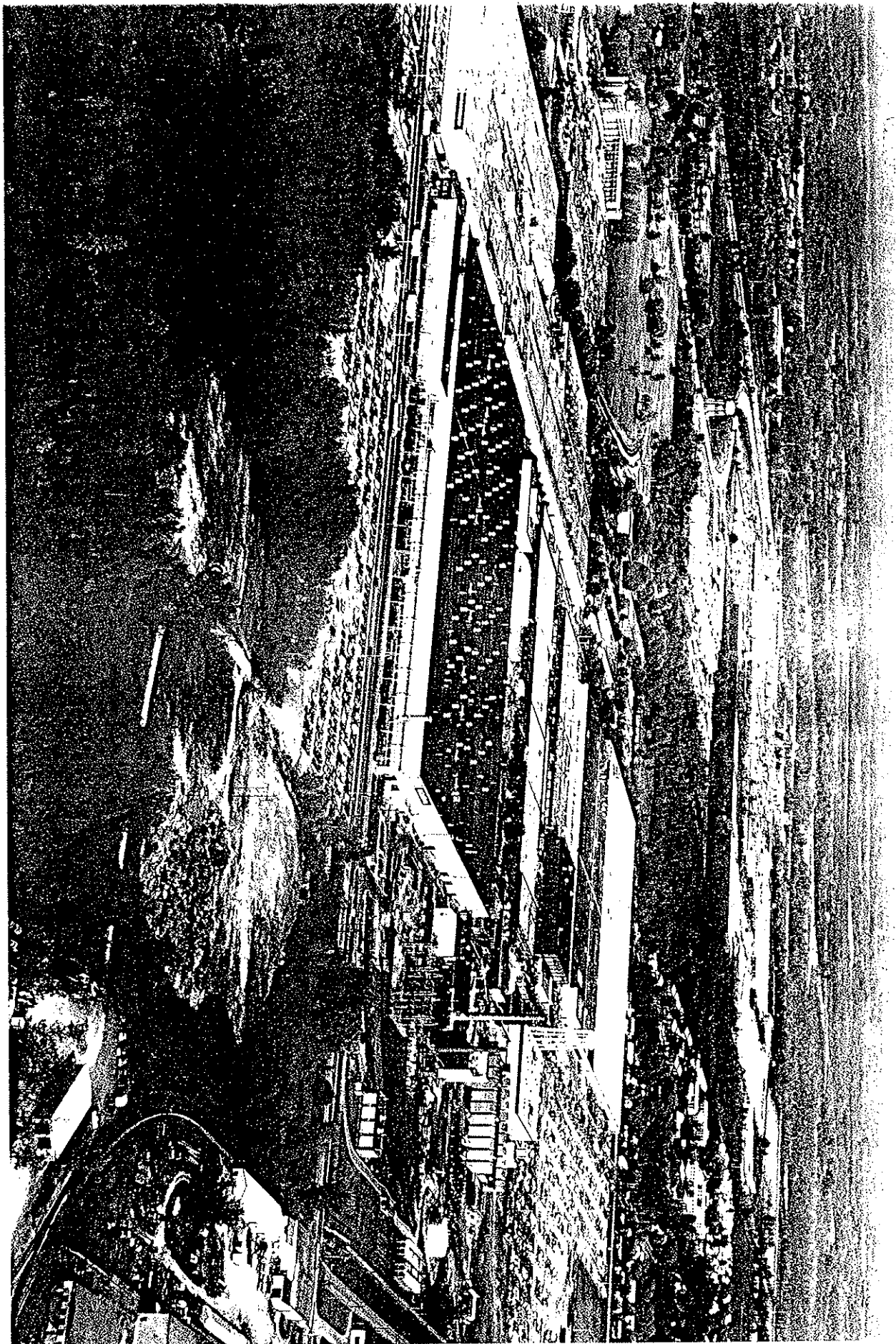
APPENDIX D

Data Evaluation Report and Work Sheets (June 2002)

The data evaluation report and work sheets for the June 2002 investigation will be submitted under separate cover by October 18, 2002.

APPENDIX E

Carrier-DeWitt Landfill Information



USGS Topo Map

Display Image

Microsoft TerraServer

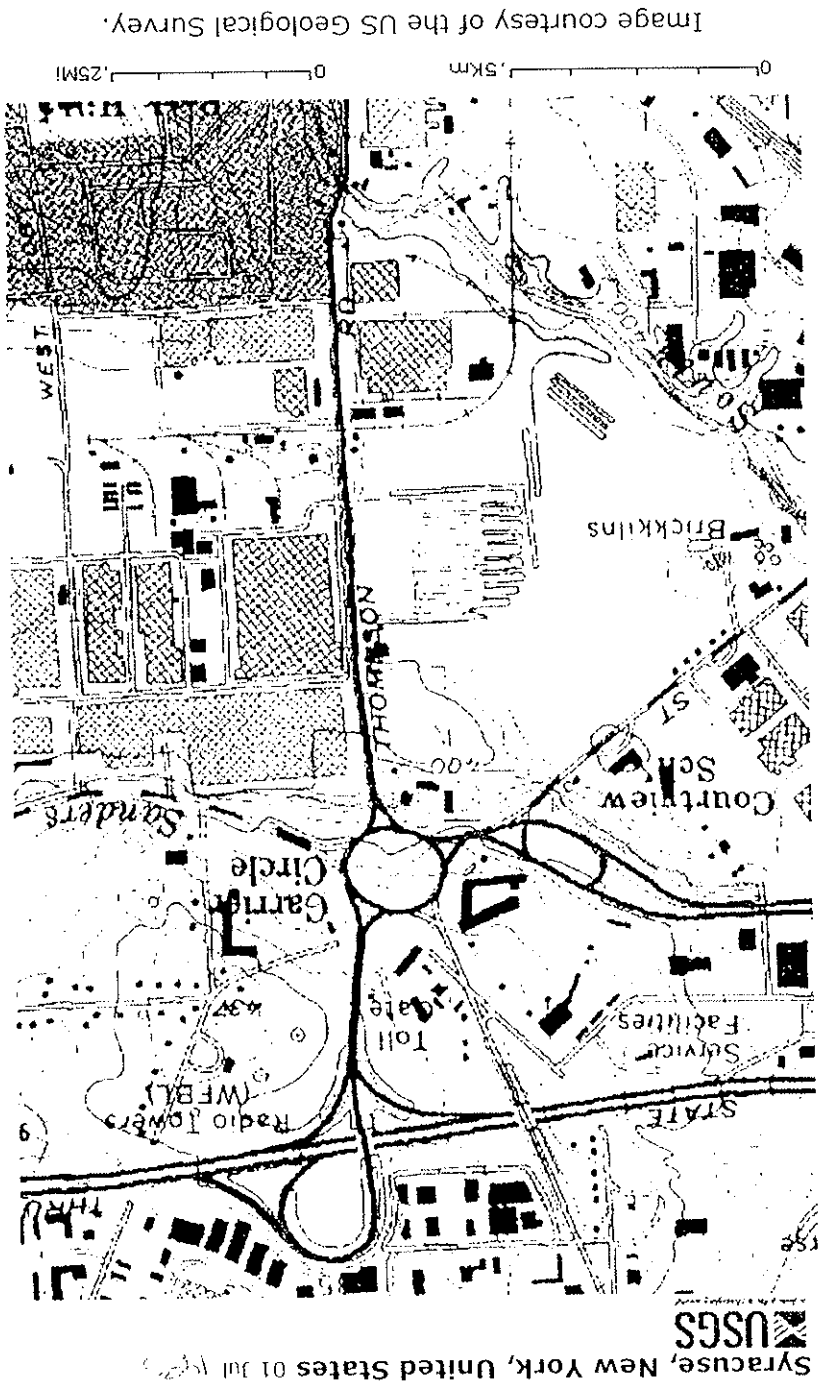


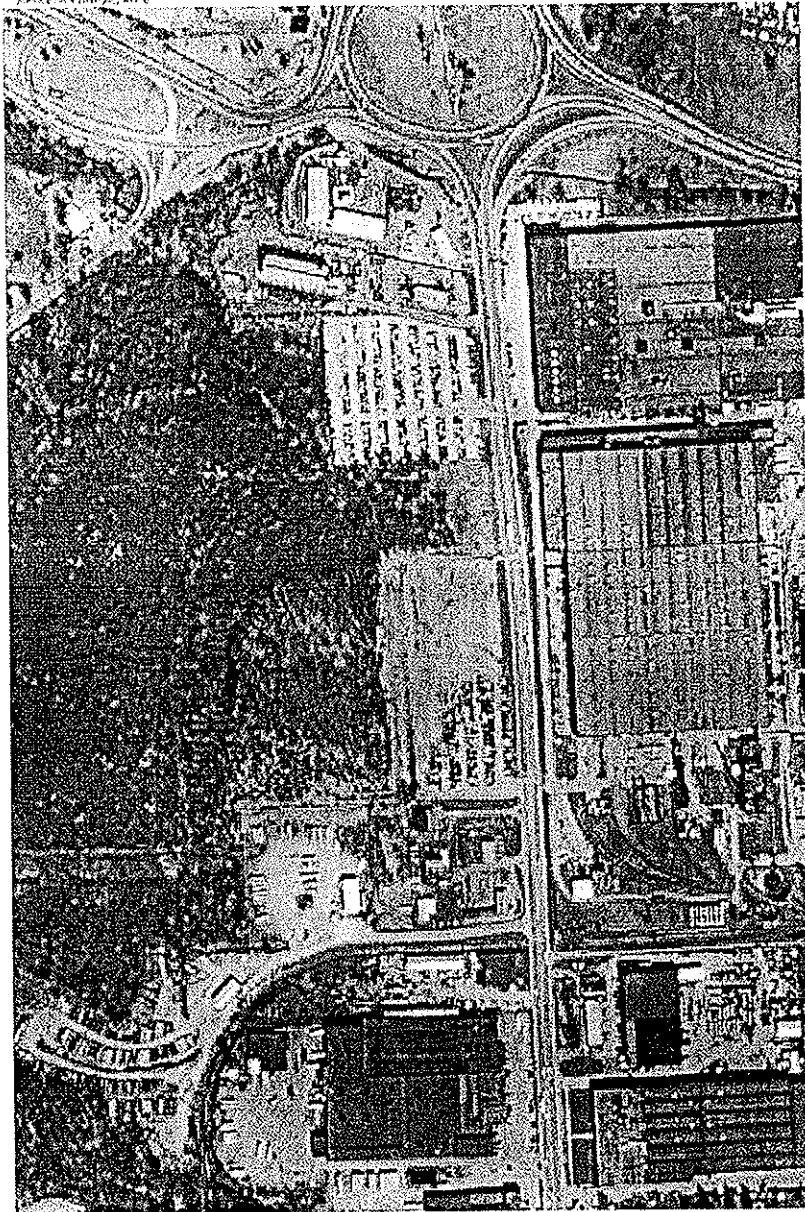
Image courtesy of the US Geological Survey.

Microsoft TerraServer

Display Image

USGS Aerial Photograph

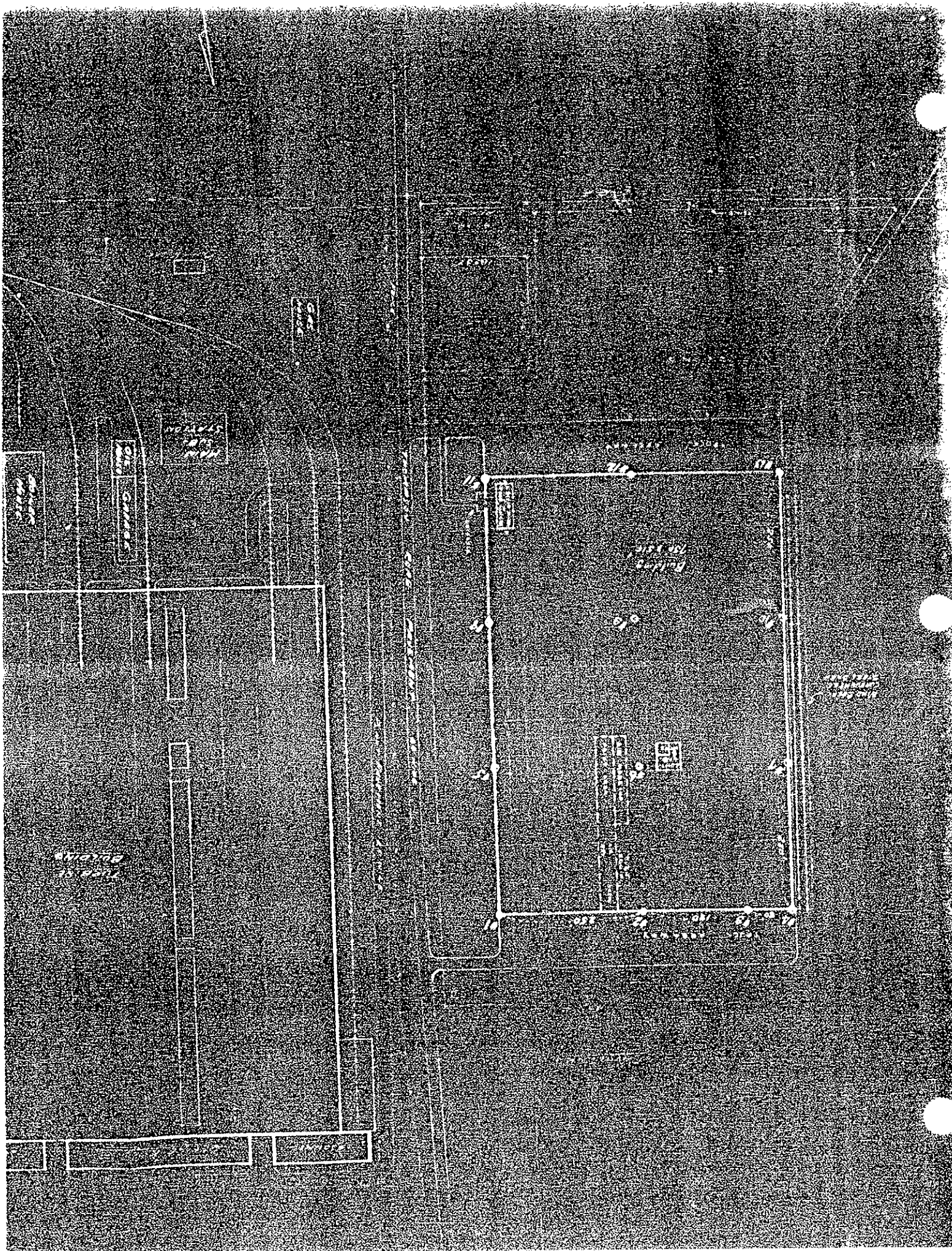
Syracuse, New York, United States 27 Mar



0 200M

0 200yd

Image courtesy of the US Geological Survey.



1055 Park Sq. Bldg. 4
BOSTON 16, Massachusetts

Date: August 1st, 1949 Job No. 88

Location of Borings Thompson Road, Danville, New York

All borings are plotted to a scale of 1" = 8 ft. using

as a fixed datum

No. 1

NO

NOTES

100

[illegible]

APR 11 1964		
Flat 427		
	15-0" Sand	
	Gravel	
	5-12" Clay	
6'-6"	Gravel	
10-0"	Gravel	2
11-0"	Sand	
	Fine Yellow	
	Sand Little	10
	Clay	10
12-0"	5-12" Sand	
2'-0"	Gravel	5
	Clay	
	5-12" Clay	
	Gravel	
13-0"	Little	5
	Fine Sand	
35'-0"	Clay	
	Shard	10
	Sand	
40'-6"	Gravel	10
45'-0"	Gravel	10
49'-0"	Gravel	10
	35'-0" - 45'	
	49'-0" - 49'	

No. 1		No. 2		No. 3		No. 4		No. 5		No. 6		No. 7		No. 8		No. 9		No. 10		No. 11		No. 12		No. 13		No. 14		No. 15		No. 16		No. 17		No. 18		No. 19		No. 20		No. 21		No. 22		No. 23		No. 24		No. 25		No. 26		No. 27		No. 28		No. 29		No. 30		No. 31		No. 32		No. 33		No. 34		No. 35		No. 36		No. 37		No. 38		No. 39		No. 40		No. 41		No. 42		No. 43		No. 44		No. 45		No. 46		No. 47		No. 48		No. 49		No. 50		No. 51		No. 52		No. 53		No. 54		No. 55		No. 56		No. 57		No. 58		No. 59		No. 60		No. 61		No. 62		No. 63		No. 64		No. 65		No. 66		No. 67		No. 68		No. 69		No. 70		No. 71		No. 72		No. 73		No. 74		No. 75		No. 76		No. 77		No. 78		No. 79		No. 80		No. 81		No. 82		No. 83		No. 84		No. 85		No. 86		No. 87		No. 88		No. 89		No. 90		No. 91		No. 92		No. 93		No. 94		No. 95		No. 96		No. 97		No. 98		No. 99		No. 100	
24'	10-2	11-1	12-1	13-1	14-1	15-1	16-1	17-1	18-1	19-1	20-1	21-1	22-1	23-1	24-1	25-1	26-1	27-1	28-1	29-1	30-1	31-1	32-1	33-1	34-1	35-1	36-1	37-1	38-1	39-1	40-1	41-1	42-1	43-1	44-1	45-1	46-1	47-1	48-1	49-1	50-1	51-1	52-1	53-1	54-1	55-1	56-1	57-1	58-1	59-1	60-1	61-1	62-1	63-1	64-1	65-1	66-1	67-1	68-1	69-1	70-1	71-1	72-1	73-1	74-1	75-1	76-1	77-1	78-1	79-1	80-1	81-1	82-1	83-1	84-1	85-1	86-1	87-1	88-1	89-1	90-1	91-1	92-1	93-1	94-1	95-1	96-1	97-1	98-1	99-1	100-1																																																																																																												
24'	10-2	11-1	12-1	13-1	14-1	15-1	16-1	17-1	18-1	19-1	20-1	21-1	22-1	23-1	24-1	25-1	26-1	27-1	28-1	29-1	30-1	31-1	32-1	33-1	34-1	35-1	36-1	37-1	38-1	39-1	40-1	41-1	42-1	43-1	44-1	45-1	46-1	47-1	48-1	49-1	50-1	51-1	52-1	53-1	54-1	55-1	56-1	57-1	58-1	59-1	60-1	61-1	62-1	63-1	64-1	65-1	66-1	67-1	68-1	69-1	70-1	71-1	72-1	73-1	74-1	75-1	76-1	77-1	78-1	79-1	80-1	81-1	82-1	83-1	84-1	85-1	86-1	87-1	88-1	89-1	90-1	91-1	92-1	93-1	94-1	95-1	96-1	97-1	98-1	99-1	100-1																																																																																																												
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[illegible]

To Carrier Corporation

Date August 1st, 1949 Job No. B.

Location of Borings Thompson Road, Delitt, New York.

All borings are plotted to a scale of 1" = 8 ft. using as a fixed datum.

No. 5

No. 6

No. 7

No. 8

SPLIT SAMPLER

Elev. 44.9

Elev. 45.3

Elev. 44.3

Elev. 44.6

Sand
Gravel 2
Gravel 1

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Gravel 1

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Sand
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Soft Blue

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Gravel 1

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Fine Sand

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To Corlies Corporation

Date August 1st, 1949 Job No. 1

Location of Boring Thompson Road, DuSable, New York

All borings are plotted to a scale of 1" = 3 ft. using

as a fixed datum

No. 9	No. 10	No. 11	No. 12
Flow 45965	Flow 46123	Flow 44117	Flow 46164
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SPRINTS

Flay Shale	
Med. Sand	8
Clay Sand	9
Fine Sand	5
Dark Sand	8
Sand	
Sand	
Clay	3
Fine Sand	
Sand	
Fine Dark Sand	9
Hard Red Sand	20
Hard Sand	55
Gravel	75
Little Clay	

APPENDIX F

Indoor Air Sampling Data Sheets

**INDOOR AIR SAMPLING
ANALYTICAL DATA
BUILDINGS TR-18 AND 18S
June 2002**



COVER PAGE

ANALYTICAL REPORT FOR
Ensafe

Phone (901) 372-7962 Fax (901) 372-2454

Form COVER-V1.3
08020209223469
Page 1

G025W00R

AMENDED

DCL Report Group...: 02I-1625-01

Date Printed.....: 02-AUG-02 09:22

Project Protocol #: P021C002

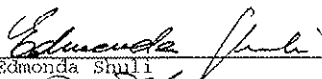
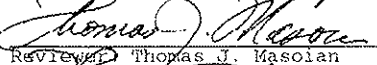
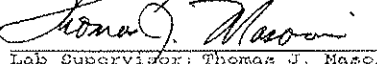
Client Ref Number..: 3133-031-04-03-00

Release Number.....: 3133-031-04-03-00

Analysis Method(s): T017

Ensafe
Attention: Bill Bradshaw
5724 Summer Trees Drive
Memphis, TN 38134

<u>Client Sample Name</u>	<u>Laboratory Sample Name</u>	<u>Date Sampled</u>	<u>Date Received</u>
CS062501	02I15784	25-JUN-02	28-JUN-02
CS062502	02I15785	25-JUN-02	28-JUN-02
CS062503	02I15786	25-JUN-02	28-JUN-02
CS062504	02I15787	25-JUN-02	28-JUN-02
CS062505	02I15788	25-JUN-02	28-JUN-02
Method Blank	BL-197279-1	NA	NA
LCS	QC-197279-1	NA	NA
LCS Dup	QD-197279-1	NA	NA

 Analyst: Edmonda Shull	8/2/02 Date
 Reviewer: Thomas J. Masolan	8/2/02 Date
 Lab Supervisor: Thomas J. Masolan	8/2/02 Date

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com



FORM H (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63H-V1.3
08020209223469
Page 2

SAMPLE GROUP COMMENTS



Client Name...: Ensaf

DCL Report Group...: 021-1625-01
Date Printed...: 02-AUG-02 09:22

Release Number...: 3133-031-04-03-00

Sample Group Comments

Analyzed by thermal desorption GC/MS according to method TO17 with modifications
All results are semi-quantitative.
PQL - Practical Quantitation Limit - Lowest standard that is detectable.
MDL - Method Detection Limit - Statistically derived value using 40 CFR methods.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.
Report generation options: BX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank.
For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL.
It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
* - Parameter outside of specified QC limits.

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Phone (801) 266 7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.3
08020209223469
Page 3

SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 02-AUG-02 09:22

Client Name.....: Ensafe
Client Ref Number.....: 3133-031-04-03-00
Sampling Site.....: Carrier Syracuse
Release Number.....: 3133-031-04-03-00

Date Received.....: 28-JUN-02 00:00

Client Sample Name: CS062501
DCL Sample Name....: 02115784
DCL Report Group...: 021-1625-01
Matrix.....: CARBO
Date Sampled.....: 25-JUN-02 00:00
Reporting Units....: ng/Sample
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: Not Applicable
Net Weight/Volume....: Not Required

DCL Analysis Group: G02600G4
Analysis Method....: T017
Instrument Type....: GC/MS VO
Instrument ID.....: 5972-X
Column Type.....: DR-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Vinyl Chloride	30-JUN-02 05:13		ND			1	100.
cis-1,2-Dichloroethene	30-JUN-02 05:13		91.			1	25.
trans-1,2-Dichloroethene	30-JUN-02 05:13		ND			1	25.
1,1-Dichloroethane	30-JUN-02 05:13		ND			1	25.
1,1-Dichloroethene	30-JUN-02 05:13		ND			1	25.
Trichloroethene	30-JUN-02 05:13		73.			1	25.

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	92.1	100.	92.1

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FAX (801) 268-9992 E-mail: lab@datachem.com



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.3
08020209223469

Page 4

SAMPLE ANALYSIS DATA SHEET



5025W04N

Date Printed.....: 02-AUG-02 09:22

Client Sample Name: CS062502

Client Name.....: Ensafe

DCL Sample Name....: 02I15785

Client Ref Number.....: 3133-031-04-03-00

DCL Report Group...: 02I-1625-01

Sampling Site.....: Carrier Syracuse

Matrix.....: CARBO

Release Number.....: 3133-031-04-03-00

Date Sampled.....: 25-JUN-02 00:00

Date Received.....: 28-JUN-02 00:00

Reporting Units....: ng/Sample

Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G0260004

Date Prepared.....: Not Applicable

Analysis Method....: T017

Preparation Method...: Not Applicable

Instrument Type....: GC/MS VO

Aliquot Weight/Volume: Not Applicable

Instrument ID.....: 5972-X

Net Weight/Volume : Not Required

Column Type.....: DB-1

☒ Primary

☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Vinyl Chloride	30-JUN-02 06:06		ND			1	100.
cis-1,2-Dichloroethene	30-JUN-02 06:06		06.			1	25.
trans-1,2-Dichloroethene	30-JUN-02 06:06		ND			1	25.
1,1-Dichloroethane	30-JUN-02 06:06		ND			1	25.
1,1-Dichloroethene	30-JUN-02 06:06		ND			1	25.
Trichloroethene	30-JUN-02 06:06		49			1	25.

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	89.3	100.	89.3

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FAX (801) 268-9992 E-mail: lab@datachem.com



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.3
08020209223469
Page 5

SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 02-AUG-02 09:22

Client Sample Name: CS062503

Client Name.....: Ensafe

DCL Sample Name....: 02I15786

Client Ref Number.....: 3133-031-04-03-00

DCL Report Group...: 02I-1625-01

Sampling Site.....: Carrier Syracuse

Matrix.....: CAREC

Release Number.....: 3133-031-04-03-00

Date Sampled.....: 25-JUN-02 00:00

Date Received.....: 28-JUN-02 00:00

Reporting Units....: ng/Sample

Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G0260004

Date Prepared.....: Not Applicable

Analysis Method....: T017

Preparation Method...: Not Applicable

Instrument Type....: GC/MS VO

Aliquot Weight/Volume: Not Applicable

Instrument ID.....: 5972-X

Net Weight/Volume....: Not Required

Column Type.....: DB 1

☒ Primary

☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Vinyl Chloride	30-JUN-02 07:00		ND			1	100.
cis-1,2-Dichloroethene	30-JUN-02 07:00		210			1	25.
trans-1,2-Dichloroethene	30-JUN-02 07:00		ND			1	25.
1,1-Dichloroethane	30-JUN-02 07:00		ND			1	25.
1,1-Dichloroethene	30-JUN-02 07:00		ND			1	25.
Trichloroethene	30 JUN 02 07:00		42.			1	25.

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	103.	100.	103.

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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 02-AUG-02 09:22

Client Sample Name: CS062504

Client Name.....: Ensafe

DCL Sample Name....: 02I15787

Client Ref Number.....: 3133-031-04-03-00

DCL Report Group...: 02I-1625-01

Sampling Site.....: Carrier Syracuse

Matrix.....: CARBO

Release Number.....: 3133-031-04-03-00

Date Sampled.....: 25-JUN-02 00:00

Date Received.....: 28-JUN-02 00:00

Reporting Units....: ng/Sample

Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G0260004

Date Prepared.....: Not Applicable

Analysis Method....: T017

Preparation Method....: Not Applicable

Instrument Type....: GC/MS VO

Aliquot Weight/Volume: Not Applicable

Instrument ID.....: 5972-X

Net Weight/Volume....: Not Required

Column Type.....: DB 1

☒ Primary

☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Vinyl Chloride	30-JUN-02 07:54		ND			1	100.
cis-1,2-Dichloroethene	30-JUN-02 07:54		85.			1	25.
trans-1,2-Dichloroethene	30-JUN-02 07:54		ND			1	25.
1,1-Dichloroethane	30-JUN-02 07:54		ND			1	25.
1,1-Dichloroethene	30-JUN-02 07:54		ND			1	25.
Trichloroethene	30 JUN 02 07:54		ND			1	25.

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	108.	100.	108.

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SAMPLE ANALYSIS DATA SHEET



Date Printed..... 02-AUG-02 09:22

Client Sample Name: CS062505

Client Name..... Ensafe

DCL Sample Name.... 02I15788

Client Ref Number.... 3133-031-04-03-00

DCL Report Group... 02I-1625-01

Sampling Site..... Carrier Syracuse

Matrix..... CARBO

Release Number..... 3133-031-04-03-00

Date Sampled..... 25-JUN-02 00:00

Date Received..... 28-JUN-02 00:00

Reporting Units.... ng/Sample

Report Basis..... ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G0260094

Date Prepared..... Not Applicable

Analysis Method.... T017

Preparation Method... Not Applicable

Instrument Type.... GC/MS VO

Aliquot Weight/Volume: Not Applicable

Instrument ID..... 5972-X

Net Weight/Volume.... Not Required

Column Type..... DB-1

☒ Primary

☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Vinyl Chloride	30-JUN-02 04:18		ND			1	100.
cis-1,2-Dichloroethene	30-JUN-02 04:18		ND			1	25.
trans-1,2-Dichloroethene	30-JUN-02 04:18		ND			1	25.
1,1-Dichloroethane	30-JUN-02 04:18		ND			1	25.
1,1-Dichloroethene	30-JUN-02 04:18		ND			1	25.
Trichloroethene	30-JUN-02 04:18		ND			1	25.

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	91.1	100.	91.1

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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 02-AUG-02 09:22

Client Sample Name: BL-197279-1

Client Name.....: Ensafe

DCL Sample Name....: BL-197279-1

Client Ref Number.....: 3133-031-04-03-00

DCL Report Group...: 02I-1619-01

Sampling Site.....: Not Applicable

Matrix.....: TUBE

Release Number.....: 3133-031-04-03-00

Date Sampled.....: Not Applicable

Reporting Units....: ng/Sample

Date Received.....: Not Applicable

DCL Preparation Group: Not Applicable

DCL Analysis Group: G0260004

Date Prepared.....: Not Applicable

Analysis Method....: TO-15

Preparation Method....: Not Applicable

Instrument Type....: GC/MS VO

Aliquot Weight/Volume: Not Applicable

Instrument ID.....: S972-X

Net Weight/Volume....: Not Required

Column Type.....: DB 1

☒ Primary

☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Dichlorodifluoromethane	29-JUN-02 16:45		ND			1	25.
Chloromethane	29-JUN-02 16:45		ND			1	25.
Freon 114	29-JUN-02 16:45		ND			1	25.
Vinyl Chloride	29-JUN-02 16:45		ND			1	25.
Bromomethane	29-JUN-02 16:45		ND			1	25.
Chloroethane	29-JUN-02 16:45		ND			1	25.
Freon 11	29-JUN-02 16:45		ND			1	25.
cis-1,2-Dichloroethene	29-JUN-02 16:45		ND			1	25.
Carbon Disulfide	29-JUN-02 16:45		ND			1	25.
Freon 113	29-JUN-02 16:45		ND			1	25.
Acetone	29-JUN-02 16:45		ND			1	25.
Methylene Chloride	29-JUN-02 16:45		ND			1	25.
trans-1,2-Dichloroethene	29-JUN-02 16:45		ND			1	25.
1,1-Dichloroethane	29-JUN-02 16:45		ND			1	25.
Vinyl Acetate	29-JUN-02 16:45		ND			1	25.
1,1-Dichloroethene	29-JUN-02 16:45		ND			1	25.
2-Butanone	29-JUN-02 16:45		ND			1	25.
Chloroform	29-JUN-02 16:45		ND			1	25.
1,1,1-Trichloroethane	29-JUN-02 16:45		ND			1	25.
Carbon Tetrachloride	29-JUN-02 16:45		ND			1	25.
Benzene	29-JUN-02 16:45		ND			1	25.
1,2-Dichloroethane	29-JUN-02 16:45		ND			1	25.
Trichloroethene	29-JUN-02 16:45		ND			1	25.
1,2-Dichloropropane	29-JUN-02 16:45		ND			1	25.
Bromodichloromethane	29-JUN-02 16:45		ND			1	25.
cis-1,3-Dichloropropene	29-JUN-02 16:45		ND			1	25.
4-Methyl-2-Pentanone	29-JUN-02 16:45		ND			1	25.
Toluene	29-JUN-02 16:45		ND			1	25.
trans-1,3-Dichloropropene	29-JUN-02 16:45		ND			1	25.
1,1,2-Trichloroethane	29-JUN-02 16:45		ND			1	25.
Tetrachloroethene	29-JUN-02 16:45		ND			1	25.
2-Hexanone	29-JUN-02 16:45		ND			1	25.
Dibromochloromethane	29-JUN-02 16:45		ND			1	25.
1,2-Dibromoethane	29-JUN-02 16:45		ND			1	25.
Chlorobenzene	29-JUN-02 16:45		ND			1	25.
Ethylbenzene	29-JUN-02 16:45		ND			1	25.
m,p-Xylene	29-JUN-02 16:45		ND			1	25.
o-Xylene	29-JUN-02 16:45		ND			1	25.
Styrene	29-JUN-02 16:45		ND			1	25.
Bromoform	29-JUN-02 16:45		ND			1	25.
1,1,2,2-Tetrachloroethane	29-JUN-02 16:45		ND			1	25.

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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 02-AUG-02 09:22
Client Name.....: Ensafe

DCL Sample Name...: BL-197279-1
DCL Report Group...: 02I-1619-01

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Benzyl Chloride	29-JUN-02 16:45		ND			1	25.
4-Ethyl toluene	29-JUN-02 16:45		ND			1	25.
1,3,5-Trimethylbenzene	29-JUN-02 16:45		ND			1	25.
1,2,4-Trimethylbenzene	29-JUN-02 16:45		ND			1	25.
1,3-Dichlorobenzene	29-JUN-02 16:45		ND			1	25.
1,4 Dichlorobenzene	29-JUN-02 16:45		ND			1	25.
1,2-Dichlorobenzene	29-JUN-02 16:45		ND			1	25.
1,2,4-Trichlorobenzene	29-JUN-02 16:45		ND			1	25.
Hexachlorobutadiene	29-JUN-02 16:45		ND			1	25.
Methyl t-Butyl Ether	29-JUN-02 16:45		ND			1	25.

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	101.	100.	101.

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FORM J (TYPE I)
SINGLE METHOD ANALYSES

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QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)
LABORATORY CONTROL DUPL (LCD)



S0260027

Client Name.....: Ensafe
Release Number.....: 3133-031-04-03-00

Matrix.....: AIR
Reporting Units.....: PPB V/V

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

DCL Sample Name....: QC-197279-1
Date Printed.....: 02-AUG-02 09:22

DCL Analysis Group: C0260004
Analysis Method....: T017
Instrument Type....: GC/MS VO
Instrument ID.....: 5972-X
Column Type.....: DB-1
☒ Primary
☐ Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
1,1,1-Trichloroethane	29-JUN-02 14:58	237.	277.	117.	25.0/175.	
1,1,2,2-Tetrachloroethane	29-JUN-02 14:58	354.	386.	109.	25.0/175.	
1,1-Dichloroethene	29-JUN-02 14:58	157.	178.	114.	25.0/175.	
Tetrachloroethene	29-JUN-02 14:58	326.	364.	112.	25.0/175.	
Toluene	29-JUN-02 14:58	192.	207.	108.	25.0/175.	
p-Dichlorobenzene	29-JUN-02 14:58	313.	340.	109.	25.0/175.	



S0260028

DCL Sample Name....: QD-197279-1

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,1,1-Trichloroethane	29-JUN-02 15:54	295.	124.	286.	17.9	6.3	0.00/50.0	
1,1,2,2-Tetrachloroethane	29-JUN-02 15:54	365.	103.	376.	20.9	5.6	0.00/50.0	
1,1-Dichloroethene	29-JUN-02 15:54	178.	114.	178.	0.493	0.28	0.00/50.0	
Tetrachloroethene	29-JUN-02 15:54	349.	107.	357.	14.7	4.1	0.00/50.0	
Toluene	29-JUN-02 15:54	196.	102.	201.	10.4	5.2	0.00/50.0	
p-Dichlorobenzene	29-JUN-02 15:54	334.	107.	337.	5.73	1.7	0.00/50.0	

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FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

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G0260004

Client Name.....: Ensafe
Release Number.....: 3133-031-04-03-00

Matrix.....: AIR
Reporting Units.....: ng/Sample

Date Printed.....: 02-AUG-02 09:22

DCL Analysis Group: G0260004
Analysis Method....: TO17

DCL Prep Group....: Not Applicable
Preparation Method: Not Applicable

QC Limit Type.....: Method

Surrogate Recoveries

Surr. ID	4-Bromofluorobenzene								
QC Limits									
DCL Sample Number	Analyte Result	Spiked Amount	% Rec. Q	Analyte Result	Spiked Amount	% Rec. Q	Analyte Result	Spiked Amount	% Rec. Q
02I15784	92.1	100.	92.1						
02I15785	89.3	100.	89.3						
02I15786	103.	100.	103.						
02I15787	108.	100.	108.						
02I15788	91.1	100.	91.1						
BL-197279-1	101.	100.	101.						
QC-197279-1	93.0	100.	93.0						
QD-197279-1	92.4	100.	92.4						

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