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PRELIMINARY GROUNDWATER INVESTIGATION REPORT DOWNERS GROVE GROUNDWATER SITE DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS

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Prepared for

United States Environmental Protection Agency
Region 5
77 West Jackson
Chicago, Illinois 60604

Prepared by

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March 2002

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SECTION 1

INTRODUCTION

1.1 OBJECTIVES AND SCOPE OF WORK

On 7 January 2002, the U.S. Environmental Protection Agency (U.S. EPA) Region V under TDD No. 0111-010 directed the Roy F. Weston, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) to develop a Site Assessment Work Plan for conducting a site assessment (SA) for the Downers Grove Groundwater Site in Downers Grove, DuPage County, Illinois. This document defined a scope of work to further investigate properties and businesses in the Ellsworth Industrial Park. Investigation activities were performed by both the U.S. EPA and Illinois Environmental Protection Agency (IEPA) in a joint effort. The scope of work included collecting hydrostratigraphic data and groundwater samples from locations around the industrial park in the vicinity of properties/businesses targeted based on historical waste-disposal practices. Concurrent with field activities, U.S. EPA and IEPA continued to gather background data, historical information, and company interviews. The work was conducted to further evaluate the potential source of known chlorinated-solvent groundwater contamination in residential wells south of the industrial park. The purpose of this report is to present the results of the geologic investigation and sampling activities performed.

1.2 REPORT ORGANIZATION

This preliminary investigation report is divided into five sections including the following:

Section 1 – Introduction - This outlines the project objectives and scope of work.

Section 2 – Background Information - This sections includes a site description, site history, and results of previous investigations.

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Section 3 – Field Investigation Activities - This section describes the investigation activities undertaken including sampling methodology, locations, etc.

Section 4 – Investigation Results - This section summarizes the field and analytical results of the field investigation.

Section 5 - Conclusions and Recommendations - This section presents conclusions based on the data collected during this investigation and also presents recommendations for potential future investigation activities.

Acknowledgments

Portions of this report were prepared by representatives of the IEPA and U.S. EPA and were incorporated into the body of this report. Specifically, subsections regarding the use and results of Geoprobe®, Membrane Interface Probe (MIP) logging and groundwater sampling were prepared by Mr. James M. Salch, P.G. of the IEPA, Bureau of Land, Springfield, Illinois. Subsections discussing global positioning system (GPS) surveying and mapping were prepared by Mr. Timothy Drexler of the U.S. EPA, Region V, Chicago, Illinois. START wishes to thank these individuals as well as their project teams for their efforts in the field and their contributions to this report.

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SECTION 2
BACKGROUND INFORMATION

2.1 SITE DESCRIPTION

The Downers Grove Groundwater Site is located in unincorporated Downers Grove, DuPage County, Illinois. The site encompasses the area in which chlorinated-solvent groundwater contamination has been detected in groundwater as shown on Figure 2-1. The approximate boundaries of the site are Burlington Avenue to the north, 63rd Street to the south, Lee and Springside Avenues to the east, and Interstate 355 (I-355) to the west. The site consists of residential, recreational, and commercial/light industry. The Ellsworth Industrial Park is located in the northern portion of the site, and it is within this area that the source of the groundwater contamination is suspected. The Ellsworth Industrial Park is bordered on the north by Burlington Avenue; on the south by Elmore and Inverness Avenues; on the east by Belmont Avenue; and on the west by I-355. Figure 2-2 shows the industrial park based on a recent aerial photograph.

2.2 SITE HISTORY

2.2.1 Previous Investigations

Between spring and fall 2001, IEPA performed a groundwater investigation just east of I-355 near Downers Grove. The investigation was in response to citizen concerns related to recent private-well sampling in neighboring Lisle. The investigation consisted of three rounds of residential-well sampling throughout the area. Approximately 495 private wells were sampled and analyzed for levels of volatile organic chemicals (VOCs). Sample results indicated elevated levels of tetrachlorethylene (PCE), trichloroethylene (TCE), and other related VOCs. Approximately 52% of the samples collected during Round 1 and Round 2 contained PCE or TCE above 5 parts per billion (ppb) (the federal drinking-water standards and the State of Illinois Maximum Contamination Limit [MCL]), and approximately 7% of the samples collected during Round 3 contained PCE or

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TCE levels above 5 ppb.

In October 2001, Parsons Engineering Science, Inc. (Parsons) performed a Cone Penetration Test (CPT) investigation within the Ellsworth Industrial Park under subcontract to IEPA (Parsons, 2001). The investigation used a CPT rig to log the shallow lithology in the area and collect groundwater samples at a variety of depths above the bedrock in order to identify the source(s) of the chlorinated solvent releases. The area of investigation included only the southern and southeastern-most portions of the industrial park along portions of Wisconsin, Elmore, and Inverness Avenues. During the investigation, Parsons was able to collect three groundwater samples from two boring locations using the CPT sampler. Difficulties were encountered due to low groundwater inflow rates, which the tight clay soil found in the area of investigation likely caused. In the areas where the CPT sampler could not be used, temporary 3/4-inch polyvinyl chloride (PVC) piezometers were installed. The piezometers were screened over intervals ranging from approximately 20 to 35 feet. Twenty-eight groundwater samples were collected from 27 separate sampling locations within the industrial park. Of the 28 groundwater samples, only one sample (CPT-07, from 74.7 - 72.9 feet below ground surface [bgs]) contained TCE above the method detection limit.

2.2.2 Evaluation of Existing Information

In October 2001, IEPA sent out information-request letters to approximately 21 facilities that had been identified during their initial door-to-door survey of the Ellsworth Industrial Park in Downers Grove, Illinois, as using chlorinated cleaners/solvents or other types of chlorinated materials. The information IEPA requested pertained to the site activities related to the purchasing, receiving, processing, storing, treating, disposing, or otherwise handling of hazardous substances. START reviewed this information along with available records from the U.S. EPA Records Center in order to develop a list of facilities in the industrial park identified as using chlorinated solvents. Based on the available information, each facility was then ranked according to its potential to be a source of contamination in the Downers Grove area. START identified approximately 12 facilities as having

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a high potential for contributing to the sources of the PCE/TCE contamination. These facilities and supporting information are summarized in Appendix A. The facilities are identified on Figure 2-2. This review and identification of potential-source facilities provided the basis for sample-location selection within the industrial park. These 12 facilities are discussed briefly in the following sections. There were several facilities in which no or limited information was available to review. Therefore, there may be additional facilities that are identified as potential sources of PCE/TCE contamination upon receipt of additional information.

2.2.2.1 Ames Supply Company

Ames Supply Company was a wholesale distributor to the office machine dealer industry and is centrally located within the industrial park on Curtiss Street. Ames is a large-quantity generator of hazardous waste and was the sole tenant of this piece of property from 1970 to 2000. The information IEPA obtained indicated that the following chemicals were used or handled at the facility: 1,1,1-trichloroethane, 1,1,2-trichlorotrifluoroethane; methylene chloride; TCE; chlorodifluoro methane; and 1,1,2,2-tetrachloroethane. Previous investigations at the facility include a Phase I Environmental Site Assessment (ESA) (EGSL, 2000), and a Phase II Subsurface Investigation (EGSL, 2001), with an expanded Phase II scope performed in September 2001 (EGSL, 2001). These investigations revealed that heavy staining was present on the floor of the facility and remnants of what was believed to be chlorinated solvent was observed within the expansion joints located in the manufacturing/warehouse area. Soil borings from the Phase II investigation indicated the presence of 1,1,2,2-tetrachloroethane, PCE, and TCE.

A Phase II Hydrogeologic Investigation was conducted at the site in December 2001 (EGSL, 2001). Six shallow groundwater monitoring wells were installed as part of the expanded Phase II investigation. One well (MW-3) was found to contain 1,1-dichloroethane, cis-1,2-dichloroethene, PCE, 1,1,1-trichloroethane, and TCE at a depth of 17 to 27 feet below ground surface (bgs). Several wells were could not be sampled due to insufficient water within the wells owing to low-

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permeability soil conditions. Groundwater-flow direction in the shallow overburden saturated zones was determined in the report to be southwesterly. However, it is unclear if this represents a true groundwater-flow direction because groundwater levels within the wells may not represent static conditions at the time of measurement.

2.2.2.2 Arrow Gear Company

Arrow Gear Company is an aircraft gear manufacturing company and is located towards the east-central portion of the industrial park on Curtiss Street. Arrow is the owner of this property and has been at this location for 37 years. The information IEPA obtained indicated that the facility used TCE and generated both F001 (spent halogenated solvents used in degreasing) and F009 (spent stripping and cleaning bath solutions from electroplating operations where cyanides are used) wastes. Previous investigations at the facility include a Phase I ESA (Northwest Envirocon, 1996). The Phase I identified a TCE spill/leak from a drum that was delivered to the facility and elevated levels of TCE from a well adjacent to the property. The investigation also identified drainage pipes from the facility that run into St. Joseph Creek.

2.2.2.3 Dyna Gear, Incorporated

Dyna Gear, Incorporated, is an after market and original manufacturer of automotive equipment and is located towards the north-central portion of the industrial park on Curtiss Street. Dyna Gear is the owner of this property and has been at this location for approximately five years. The information IEPA obtained indicated that the facility generated approximately 1,059 gallons of F001 waste in 1989. Previous investigations at the facility include a Phase I ESA (RERC, 1998). The Phase I indicated that a witness saw a container of cutting oil dripping and being dumped into the creek by an individual on the Dyna Gear property.

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2.2.2.4 Econo-Temp, Incorporated

Econo-Temp, Incorporated, is a heating and air conditioning parts and service center located in the southeast corner of the industrial park on Belmont Road. The information IEPA obtained indicated that the facility has used freon to recharge air conditioners and has operated at this location for approximately 10 years. During the door-to-door survey IEPA conducted, the following information was obtained regarding this property:

1. Liberty Wire (2333 Wisconsin Street) operated on the property during the 1960s - 1980s coating wires and possibly using vinyl chloride. The company had two underground storage tanks (USTs) removed with contamination.

2. Foote Jones Company (500 block of Rodgers in Downers Grove) handled TCE and had a history of disposing of chemicals and drums in the creek.

3. The Highview subdivision located at Maple/Belmont had a problem with TCE in a municipal well in about 1992.

2.2.2.5 Flexco Flexible Steel Lacing Company

Flexco Flexible Steel Lacing Company, located towards the south-central portion of the industrial park on Wisconsin Street, is a manufacturer of conveyor-belt fasteners and belt products. Flexco is a large-quantity generator of hazardous waste and has been at this location for over 30 years. The information IEPA obtained indicated that the facility used TCE until approximately 1990.

2.2.2.6 Magnatrol International, Incorporated

Magnatrol is a manufacturing facility that purchases paints, solvents, and chemicals to be used in the manufacture of level and flow controls located in the southeastern-corner of the industrial park on Belmont Road. Magnatrol is a large-quantity generator and has occupied the property for approximately 24 years. The information IEPA obtained indicated that the facility used TCE and

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generated F001 waste. Previous investigations at the facility include a Phase I ESA performed in 1998. The Phase I identified an oil-saturated absorbent on the floor in the hazardous-material storage room. A TCE degreaser, which had a 500-gallon aboveground TCE storage tank associated with it, was formerly used on-site. A floor drain in the basin of the shipping/receiving docks empties to the storm sewer, and stormwater runoff is north towards St. Joseph Creek.

2.2.2.7 Molex, Incorporated

Molex, Incoporated, is a manufacturer of electric and electronic connectors, which involve metal-plating and injection-molding operations. The company has two locations within the industrial park in the northwestern portion of the industrial park, one on Walnut Avenue and the second on Katrine Avenue. The Walnut Avenue facility is a large-quantity generator and has occupied the property for approximately 12 years. The information IEPA obtained indicated that this site used TCE and generated F001 waste. Historical searches of this location and the IEPA's door-to-door survey indicated that a 2,500-gallon UST containing mineral spirits was pulled approximately 3 years ago. The soil surrounding the tank was found to be contaminated and was remediated and tested for cleanup verification. Several monitoring wells were observed to be present on the Walnut Avenue property, but no information on them is available.

IEPA's door-to-door survey indicated that chlorinated solvents were not used at the Katrine site and that Molex has occupied this piece of property for approximately 37 years.

2.2.2.8 Morey Corporation

Morey Corporation, located in the southwestern portion of the industrial park on Wisconsin Street, is a manufacturer of small electrical components and printed circuit boards. Facility operations involved the storage of miscellaneous liquid wastes in a small, dedicated room along the eastern wall of the property. The waste primarily consisted of cleaning solvent and soldering byproducts. Morey

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operated at this location for approximately 30 years until moving to the Bollingbrook area in 2001. The property was sold in January 2001 and is currently vacant. The information IEPA obtained indicated that the following chemicals were used or handled at the facility: TCE; PCE; methylene chloride; vinyl chloride; cis 1,2-dichloroethene (DCE); trans 1,2-DCE; 1,1-DCE; 1,3-dichlorobenzene; and 1,4-dichlorobenzene. Previous investigations at the facility include a Phase I performed in May 2000 and a Phase II Subsurface Investigation performed in May 2000 with an expanded scope performed in June 2001. A Focused Site Investigation was also performed (Pioneer, 2000, 2001). The Phase I indicated two areas of potential concern: 1) the clay potting/compound mixing area inside of the building contains evidence of spilled materials and structural degradation of the underlying concrete floor and 2) an area exterior to the building in which a drain leading from the chemical and waste storage area exits through the wall with evidence of stressed vegetation, indicating previous chemical spills. The Phase II Investigations indicated elevated levels of PCE (220 parts per million [ppm]), TCE (5.96 ppm), vinyl chloride (0.116 ppm), 1,3-dichlorobenzene (2.72 ppm), 1,4-dichlorobenzene (2.67 ppm), cis 1,2-DCE (8.74 ppm), trans 1,2-DCE (0.118 ppm) and methylene chloride (0.0124 ppm) in soil borings taken near the unloading-dock area where the drain is located. During the Focused Site Investigation, an additional 17 soil borings were collected and indicated elevated levels of PCE (110 ppm), TCE (8 ppm), vinyl chloride (0.46 ppm), cis 1,2-DCE (3.3 ppm), trans 1,2-DCE (0.91 ppm), 1,1-DCE (0.18 ppm), and methylene chloride (0.40 ppm). Morey entered into the Illinois State Voluntary Site Remediation Program (SRP) and cleaned up a 1,200-square-foot area along the east-central portion of the property. In January 2001, the facility received a No Further Remediation (NFR) letter from IEPA.

2.2.2.9 Rexnord Corporation

Rexnord Corporation is a manufacturer of composite bearings. The company has two locations within the northeast corner of the industrial park off of Curtiss Street. The facility, located at 2324 Curtiss Street, has occupied this property for over 20 years and indicated using methylene chloride prior to 1990 during the IEPA door-to-door survey. The 2400 Curtiss Street facility is a large-

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quantity generator and has occupied the property for over 40 years. The information IEPA obtained indicated that this site formerly used PCE (until the 1980's) and generated F001 waste.

2.2.2.10 Scot, Incorporated

Scot, Incorporated, operates an engineering/manufacturing facility that produces propellant- and explosive-actuated devices for military aircraft, missiles, and space vehicles. The facility has operated at this location for approximately 43 years and is located in the central portion of the industrial park on Curtiss Street. The information IEPA obtained indicated that the facility formerly used TCE and generated F001 waste. Previous investigations at the facility include a Phase I ESA (CADDIS, 2000), a Phase II Subsurface Investigation (CADDIS, 2000), and a Supplemental Phase II Investigation (Levine Fricke, 2001). The Phase I indicated stained asphalt outside of the south side of the building and a storage room with a patched drain in the center of the floor that leads out to the west side of the building where it discharges directly onto the surface soil. A 2,000-gallon waste solvent/oil/paint UST was present near the southwest corner of the building and was removed in 1988. Soil samples collected in the parking area on the southside of the building during the Phase II investigation detected PCE at 238 ppb. PCE was confirmed in soil samples during the Supplemental Phase II Investigation at four boring locations with PCE levels ranging from 71.3 to 350 micrograms per Kilogram (ug/Kg) in shallow soil samples. TCE was also detected in one soil sample at 41.2 ug/Kg. Other detected VOCs included cis-1,2-dichloroethene, 1,1,1-trichloroethane, ethylbenzene, toluene, and xylenes at low levels. No groundwater investigations were undertaken in association with this site.

2.2.2.11 Suburban Self Storage

Suburban Self Storage is a self-storage facility located in the south-central portion of the industrial park. Liberty Copper and Wire Company previously occupied the property from 1960 to 1986. Review of information from the U.S. EPA Comprehensive Environmental Response, Compensation,

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and Liability Act (CERCLA) Records Center indicated that the facility used toluene, xylene, cresylic acid, and methanol and disposed of F003 wastes. The files in the Records Center indicated that a site investigation has previously been performed at the facility. Soils were found to be contaminated with xylene (57,100 ppm) and were subsequently remediated. At this point, there is no further remedial action planned. Review of historical information provided by Environmental Data Resources, Inc. (EDR) indicated that three 4,000-gallon USTs and one 5,000-gallon UST containing hazardous substances have been closed.

2.2.2.12 Tricon Industries, Incorporated

Tricon Industries, Incorporated, is a manufacturer of injection-molded components and utilizes metal-stamping, plating, and finishing operations. The company has two locations within the industrial park in the northeast corner off of Chase Street and in the southeast corner off of Wisconsin Street. The facility located at 5000 Chase Street was previously located at 2211 Curtiss Street. The information IEPA obtained indicated that the Chase Street site is a large-quantity generator using approximately 1,400 pounds of PCE every 2 months. The Wisconsin Street site was reported as using PCE and 1,1,1-trichloroethane.

2.3 CONTINUING FACILITY REVIEWS

In order to obtain detailed additional information, U.S. EPA sent focused 104(e) questionnaires to each of the facilities identified as using chlorinated solvents within the Ellsworth Industrial Park. For facilities where little or no existing information was known, a standard 104(e) form was sent. For facilities where some historical information was known, a focused 104(e) was sent. U.S. EPA has received responses to the 104(e) questionnaires, which are currently under review at the time of this document's preparation.

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SECTION 3
FIELD INVESTIGATION

This section describes the field and laboratory activities carried out during the investigation. The field investigation was conducted between 12 February and 2 March 2002 and consisted of the following activities:

- Cone penetration testing (CPT);
- Geoprobe MIP logging;
- Groundwater sampling;
- Geographic information system (GIS) surveying and mapping;
- Laboratory analysis.

The field investigation was performed in order to gain a more representative picture of the stratigraphy and shallow-groundwater characteristics throughout the Ellsworth Industrial Park and surrounding areas. Groundwater samples were collected and analyzed for VOCs during the field investigation in order to further delineate the chlorinated-solvent plume within the overburden and to assist U.S. EPA in determining the source of the contamination. The geological investigation and groundwater sampling was performed as a joint effort between U.S. EPA and the IEPA using two methods: CPT and Geoprobe. Under contract to U.S. EPA, WESTON conducted CPT logging and sampling. IEPA conducted Geoprobe logging and sampling activities

Prior to commencing field activities, a Site Assessment (SA) Work Plan was prepared in accordance with discussions with U.S. EPA and IEPA. The SA Work Plan included site-specific background information, site-specific project plans, and appropriate U.S. EPA guidance. Site-specific planning documents developed for field investigation activities include the following:

- Health and Safety Plan (HASP);
- Sampling and Analysis Plan (SAP).

The HASP was prepared in accordance with Occupational Health and Safety Administration

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(OSHA) guidelines and WESTON corporate health and safety policy. The HASP specified employee and subcontractor training, personal protective equipment (PPE), medical surveillance requirements, standard operating procedures, and a contingency plan in accordance with 29 Code of Federal Regulations (CFR) 1910.120.

The SAP was prepared to address the SA field-investigation activities. The SAP defined the sampling and data-collection methods that were used for the project. The SAP included sampling objectives; sampling locations and frequency; and a breakdown of the samples that the laboratory was to analyze.

3.1 CPT TESTING AND SAMPLING PROCEDURES

A 23-ton, truck-mounted cone penetrometer rig was used to perform CPT testing and groundwater sampling. The purpose of CPT work was to build on previous CPT data IEPA collected, characterize the stratigraphy at various locations across the site, and then use that information to choose groundwater-sampling depth intervals at each location. The placement of CPT borings and groundwater-sampling locations are shown on Figure 3-1.

The stratigraphy at each CPT location was analyzed by hydraulically pushing a 1.6-inch-diameter instrumented probe into the subsurface and recording geotechnical data. This included end-bearing resistance, friction along the sides of the probe, and soil resistivity. End-bearing resistance, measured in tons per square foot (tsf), helps differentiate between different geologic materials. For instance, sand has a greater end-bearing resistance than a clay. Similarly, the amount of friction along the sides of the probe helps identify the type of geologic material. Lower friction is incurred when pushing the probe through a sand than when pushing the probe through a clay, silty clay, or silt. The ratio of friction to end-bearing resistance (friction ratio) is a measure that helps identify the amount of fine-grained material (clay and silt) present. As an example, when pushing through a predominantly silty sand, both the end-bearing resistance and the friction ratio will be high.

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The soil resistivity measure was used because of its ability to aid in identifying features such as the water table and clay lenses. Zones that are unsaturated, or saturated with nonconductive liquids, will give high electrical-resistivity readings; saturated zones will give significantly lower readings. This measure is also useful in identifying dissolved constituents in groundwater plumes; however, this was not an expectation at the Downers Grove site.

Testing was conducted at a total of 35 locations with identifiers between CPT-40 and CPT-81 (Figure 3-1). Testing was not conducted at CPT-47 (underground utilities present), CPT-59 through CPT-61 (no access, Rexnord property), CPT-74 (former waste water treatment plant (WWTP), access restricted due to weather conditions), CPT-76 and CPT-77 (backup locations due to underground utilities).

The expectation was to advance CPT holes to a depth of about 70 feet below grade; however, the abundance of cobbles/boulders within the matrix of very stiff clay tills limited the depth of penetration at many locations. Multiple attempts were made to penetrate deeper at each location with varying success. The results of CPT logging are discussed further in Section 4. Table 3-1 summarizes the number of logging attempts completed at each location as well as the total depth achieved. CPT logs are contained in Appendix B. Appendix B also contains copies of CPT logs for the previous investigation IEPA conducted. These CPT locations are identified as CPT-01 through CPT-39.

Each CPT location was abandoned upon completion using a bentonite grout mixture tremmied into place from the bottom up, ensuring a proper seal. Where locations were advanced through pavement, an asphalt patch (UPM brand) was used to seal and repair the asphalt surface.

CPT Groundwater Sampling

In general, groundwater samples were collected directly after completion of the CPT hole

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(stratigraphy hole). Based on the real-time stratigraphy data gathered, sampling intervals were chosen. Sampling target horizons consisted primarily of sand and gravel zones within the clay till believed to be saturated based on resistivity and pore-pressure measurements. The groundwater-sampling locations were typically within several feet of the stratigraphy-hole locations. In the same manner that the CPT rods were pushed, the groundwater sampler was advanced by hydraulically pushing it to the predetermined depth. The groundwater sampler consisted of a screen with a retractable outer casing. The screen was opened by pulling back on the rods, exposing the screen to the native soil and groundwater. At each sampling depth, the groundwater sampler was opened, groundwater was allowed to infiltrate the sampler, and a small previously decontaminated stainless-steel mini-bailer was lowered through the CPT rods and used to collect groundwater samples. Where sufficient groundwater was available at the time of sampling, measurements of pH, specific conductance, and temperature were recorded on Water Sample Collection Forms, which are presented in Appendix C. Care was taken to fill the 40 milliliter (mL) VOA vials at an angle to minimize splashing and bubbling and to ensure that they were closed with no headspace.

At several locations, the standard CPT groundwater sampler could not be used due to low-permeability formations and lack of groundwater flow to the sampler. In these instances, a temporary piezometer was set at the desired sampling interval. Temporary piezometers consisted of 3/4-inch-diameter PVC screen and casing material 5 feet in length. New, unused sections of screen and casing were used for each location. The piezometers were installed by lowering the casing and screen down through the open CPT borehole after extraction of the CPT tools. Temporary piezometers were checked frequently for sufficient water sampling volume. If after approximately 24 hours insufficient water was present in the piezometer for sampling, the hole was deemed dry, and the location was abandoned. Table 3-1 summarizes the number of groundwater-sampling attempts completed at each location as well as the sample depths achieved. Groundwater-sample results are discussed in Section 4.

To monitor for the potential presence of soil gas vapors, a photo- and flame-ionization detector

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(PID/FID) (TVA-1000) was used to collect readings just below the borehole surface after retraction of CPT tools and prior to borehole grouting. Soil head-space monitoring results are summarized on Table 3-2

Each groundwater-sampling location was abandoned upon completion using a bentonite grout mixture tremmied into place from the bottom up, ensuring a proper seal. Where locations were advanced through pavement, an asphalt patch (UPM brand) was used to seal and repair the asphalt surface to Downers Grove Public Works Department standards.

3.2 GEOPROBE MIP TESTING AND SAMPLING PROCEDURES

The IEPA utilized a Geoprobe® Model 5400 (Geoprobe) during investigation activities at the Downers Grove site. The Geoprobe is a hydraulically powered machine that utilizes both static force and percussion to advance sampling and logging tools into the subsurface. A Membrane Interface Probe (MIP) was advanced to obtain soil-conductivity logs and total VOC profiles of subsurface materials at various locations throughout the industrial park.

The MIP is 1.5 inches in diameter and approximately 12 inches in length. The soil-conductivity portion of the MIP utilizes a dipole measurement arrangement where an alternating electrical current is passed from the center isolated pin of the probe to the probe body. The voltage response of the soil to the imposed current is measured across the same two points. The probe is reasonably accurate for measurements of soil conductivities in the range of 5 to 400 mS/m. In general, sands or course-grained materials have a lower conductivity, and silts and clays have higher conductivities.

The permeable membrane portion of the MIP is used to detect VOCs in both saturated and unsaturated soils during advancement of the MIP. VOCs in the subsurface come in contact with the heated surface of the MIP polymer membrane and partition (absorb) into the polymer membrane. VOCs in the gaseous, dissolved, solid, or free-product phase can partition into the membrane. Once

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VOC molecules are sorbed into the membrane, they move by diffusion across the membrane to areas of lower concentrations. Movement across the membrane is very rapid because the membrane is heated from 80-125 degrees Celsius and is relatively thin. Once through the membrane, the VOCs partition into the carrier gas, which is in contact with the back side of the membrane. It takes approximately 25-35 seconds for the carrier gas to travel through the MIP trunk line before it reaches the HNU Photoionization Detector used to quantify the total VOC concentration.

The MIP is ideally advanced at a rate of approximately one foot per minute. Soil conductivity (mS/M), probe speed (ft/min), temperature (Celsius) and PID concentration (uV) are recorded on a computer program developed by Geoprobe. Typically, soil cores are collected using the Macro Core Sampler® or the Discrete Macro Core Sampler® to compare actual samples to the MIP responses. IEPA collected soil cores for comparison purposes when practical.

Groundwater samples were collected at various probe locations using a Screen Point 15 Groundwater Sampler®. The actual sample was collected by means of a stainless-steel mini-bailer or a peristaltic pump. The Screen Point 15 Groundwater Sampler consists of a 4-foot stainless-steel wire wrapped screen, which is sealed in a steel sheath. Once the desired depth is reached, the rods are retracted approximately 4-feet, thus deploying the screen. A mini-bailer, polyethylene tubing, bladder pump, or peristaltic pump can be used to purge groundwater through the center of the rods. Following approximately 15 minutes of purging or once the water-quality measurements stabilize, the groundwater sample is collected.

The IEPA Geoprobe was used at nine locations throughout the Ellsworth Industrial Park to classify subsurface soils and to screen for the presence of VOCs between 11 February 2001 and 21 February 2002. The nine locations are designated EIP-1 through EIP-9 (see Figure 3-1). Groundwater samples were collected at six locations and are designated with the prefix G and a 100 series number that corresponds to the boring location (e.g., G-109). Groundwater samples were analyzed for VOCs as described in Subsection 3.4. Granular bentonite was used to fill the boreholes upon completion.

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A surface-water sample (S-101) was collected at the outfall of the Dynagear storm water sewer system at the east end of the east parking lot. A sheen was noted where the storm water discharge enters St. Joseph Creek a week before the investigation activities. Copies of the soil conductivity and MIP logs are attached in Appendix D. Groundwater-sample results are discussed in Section 4. The following information pertains to observations made during installation of the individual Geoprobe borings.

EIP-1

Boring location EIP-1 was located on Hitchcock Avenue, west of Walnut Avenue, in the City right of way on the south side of the Hitchcock. This boring was performed on 11 February 2002. The MIP's PID was tested using a benzene solution to ensure the device was functioning properly. This was standard procedure at each boring location to ensure that the MIP was functioning properly before advancement. The MIP was then advanced to refusal at approximately 42 feet below surface grade bsg. Based on the conductivity log of the boring, predominantly fine-grained materials were encountered to approximately 14.5 feet bsg. Predominantly sand and gravel extended from 14.5 feet bsg to approximately 32 feet bsg. A 2-foot interval of fine-grained material was present between 26 and 28 feet bsg. Fine-grained material was present from 32 feet bsg to refusal.

The PID showed elevated readings between 10 and 12 feet bsg. This was not confirmed with the Total Vapor Analyzer (TVA) in the soil core from that interval. The temperature log suggests that a saturated zone could exist near 11 feet bsg. This is believed to be a perched-water zone. Attempts to obtain a groundwater sample from that zone the following day were unsuccessful.

On 12 February 2002, additional attempts were made on the same boring location to collect a groundwater sample. The screen-point sampler was deployed from 8-12 feet bsg and 16-20 feet bsg; however, insufficient water was encountered to collect a sample. The screen-point sampler was then deployed from 38-42 feet bsg. A water level was recorded at approximately 28 feet bsg inside the

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rods. Groundwater was purged from the formation using a stainless-steel mini-bailer for approximately one half hour prior to sample collection. The groundwater was still a cloudy brown color and contained a significant amount of silt.

EIP-2

Geoprobe boring location EIP-2 was located at the northeast corner of James Avenue and Inverness Avenue within the City right of way (ROW). The MIP was advanced to approximately 27 feet bsg. The primary interest in this area was the soil present within and below the storm water sewer line, which runs north and south down the east side of Janes Avenue. Previous CPT testing was performed in this area as part of the previous IEPA soil investigation to the maximum depth achievable. Based on the soil-conductivity log, a coarse-grained material appears to be present from 2-5.5 feet bsg. This is likely bedding material for the sewer line. Fine-grained materials dominate the boring to its point of termination at 27 feet.

A small PID detection occurred between 10 and 12 feet bsg. The screen-point sampler was deployed from 8-12 feet bsg but had to be pulled to 6-10 feet bsg before groundwater could be obtained. The groundwater encountered is likely perched water associated with the bedding material in the utility corridor. Groundwater was purged from the formation for 15 minutes using a peristaltic pump prior to sample collection.

EIP-3

Geoprobe boring EIP-3 was located at the southeast corner of James Avenue and Wisconsin Street in the City ROW. The boring was located close to the storm water sewer to investigate potential impacts from discharge to the sewers. The MIP was advanced to 12 feet bsg when it was stopped due to poor temperature recovery of the heater block. The probe was removed, disassembled, checked, and reinstalled. The following day (13 February 2002), the equipment was set up on the

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same location, and the MIP was advanced to approximately 28 feet bsg. Predominately clayey material was encountered from the surface to 10.5 feet bsg. At 10.5 feet bsg, an increase in grain size was encountered. The subsurface materials remained fairly consistent from 10.5 feet bsg to termination of the boring at 28 feet bsg.

Some small PID detections occurred between 11 and 16 feet bsg. Rapid temperature drops indicate a potential saturated zone at approximately 11 feet bsg. The screen-point sampler was advanced to 16 feet bsg, and the screen was deployed from 11-15 feet bsg. Groundwater was purged for a minimum of 15 minutes using a peristaltic pump prior to sample collection. Groundwater sample G-103 was collected from this location. The groundwater encountered is likely perched water associated with the bedding material in the utility corridor.

EIP-4

Geoprobe location EIP-4 was located on Dynagear Property just west of the intersection of St. Joseph Creek and Curtiss Street. This location was selected to investigate a storm water sewer discharge point to St. Joseph Creek and to obtain geologic information near the creek. The MIP was advanced to refusal at approximately 34 feet bsg. The conductivity log suggests that silts and clays are present from the surface to approximately 11 feet bsg. A coarse-grained interval is present between 7 and 9 feet bsg. Sands and gravels with intermittent silts and clays are present from 11 to 27 feet bsg. Clayey materials are present from 27 feet bsg to the point of refusal.

A soil core was collected using the discrete macro-core sampler from 9-13 feet bsg to identify the material with the low conductivity. A rusty brown silty clay was present to approximately 9.4 feet bsg. A light brown, dry sand and gravel was present from 9.4 feet bsg to the end of the core at 13 feet bsg. A second discrete sample was collected from 24-28 feet bsg to identify the material where the conductivity increased. The 4-foot sample consisted of a hard gray clay till. A slight PID detection was observed at approximately 27.5 feet bsg. No organic vapor analysis (OVA) readings

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were observed in the discrete sample.

A water-level indicator was lowered into the borehole to a depth of 26 feet bsg. There was insufficient water in the borehole to collect a groundwater sample. No groundwater sample was collected at EIP-4.

EIP-5

Geoprobe boring location EIP-5 was located just north of the northwest corner of the Dynagear parking lot behind the facility. The boring location was approximately 40 feet from the St. Joseph Creek. The MIP was advanced to refusal at approximately 60 feet bsg. Boring EIP-5 was continuously cored to 16 feet bsg due to a significant detection on the PID at approximately 11 feet bsg. Silty clays with varying percentages of sand and gravel are present to approximately 10 feet bsg. A dry, brown sand and gravel was present to 16 feet bsg where coring stopped. FID readings on the TVA were as high as 31 ppm in the 4-8-foot sample. Contamination appeared to be contained in what was believed to be fill material from approximately 4-10 feet bsg. The soil-conductivity log suggests that the sand and gravel material is present from approximately 12 to 26 feet bsg. A finer-grained material with intermittent silts and sands is present from 26 to 39 feet bsg. A sandy material appears to be present from 39 feet bsg to the point of refusal at nearly 60 feet bsg. Refusal was believed to have occurred at bedrock based on borehole logs from wells installed near the creek.

The screen-point sampler was advanced to 40 feet bsg, and the screen was deployed between 36 and 40 feet bsg. The water level measured in the rods was roughly 28 feet. The formation was purged for approximately one half hour using a mini-bailer. Groundwater sample G-105 was collected. A duplicate sample (G-155) was also collected at this location. A field-blank sample was collected at this location as well. A water sample could not be collected at the 10-12 feet bsg interval where the PID detection was noted.

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EIP-6

Geoprobe borehole location EIP-6 was located at the northern edge of the Dynagear property adjacent to St. Joseph Creek where a 48-inch storm water sewer discharges into the creek. This location was selected based on its proximity to the 48-inch storm water sewer and its proximity to the Dynagear loading-dock area. The MIP was advanced to refusal at approximately 37 feet bsg. Grain size appears to increase gradually from silts and clays to sands and gravels in the upper 10 feet bsg. Sands and gravel are present from 10 feet bsg to approximately 28 feet bsg. Grain size decreases from 28 feet bsg to termination of the borehole at 37 feet bsg.

Some slight PID detections were noted at 3 feet bsg and at 27-39 feet bsg. Temperature drops at depths below 28 feet bsg suggest that this area could be saturated. On 19 February 2002, the screen-point sampler was advanced to 35 feet prior to refusal. The screen was deployed from 30-34 feet bsg. A water level of 27 feet bsg was measured inside the rods. The formation was purged for a minimum of 15 minutes using the polyethylene tubing and check-valve assembly. The groundwater sample was collected using a stainless-steel mini-bailer. The groundwater sample was brown and cloudy and contained appreciable amounts of fines. Groundwater sample G-106 was collected.

EIP-7

Geoprobe borehole location EIP-7 was located on the northern edge of the Dynagear property next to St. Joseph Creek near the former Rexnord facility outfall. This location was selected to investigate potential contamination from the Rexnord outfall into St. Joseph Creek and to gain geologic information close to the creek. Subsurface-resistivity logs were generated at this location by the U.S. EPA and its contractors. A groundwater sample was also obtained at this location by the U.S. EPA and its subcontractors. The MIP was used at this location primarily to determine if VOC contamination could be detected in subsurface materials. The MIP was advanced to refusal at approximately 25 feet bsg. Other than the initial 6 feet of material, sand and gravel seemed to

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predominate throughout the boring until the point of refusal. Some slight PID detections were noted in the upper 3.5 feet; however, these detections are evaluated as insignificant. No groundwater sample was collected from this location.

EIP-8

Geoprobe borehole location EIP-8 was located on the southeast corner of Katrine Avenue and Curtiss Street in the City ROW. This location was selected to obtain geologic information and to determine if releases from the storm water sewer has occurred. The MIP was advanced to 24 feet bsg. While installing another rod, the MIP malfunctioned. The MIP was removed, disassembled, checked, and reassembled prior to proceeding. On the second attempt, the MIP was advanced to refusal at approximately 40 feet bsg. The soil-conductivity log indicates that the upper 11 feet consists of finer-grained materials. Conductivities similar to what was observed at other boring locations as sand and gravel are present from 11 feet bsg to roughly 20 feet bsg. Finer-grained silts and clays with potential sand and gravel lenses are present from approximately 20 feet bsg to 28 feet bsg. A significant drop in conductivity occurred from 28 feet bsg to 40 feet bsg. This material is believed to consist predominantly of sand; however, no core was collected to confirm the composition.

No elevated PID detections were noted. Following removal of the MIP, the borehole was checked with a water-level indicator. The borehole stayed open to 40 feet; however, insufficient water was present to obtain a sample.

EIP-9

Geoprobe borehole location EIP-9 was located in the west parking lot, west of the Dynagear facility. This location was selected to provide geological information. The MIP was advanced to refusal at approximately 42 feet bsg. The soil-conductivity log indicates finer-grained material exists to

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approximately 8 feet bsg. Sand and gravel is present from approximately 8 feet bsg to roughly 20 feet bsg. A three foot lens of finer-grained silts and clays is present from 20 –23 feet bsg. Sand and gravel is present again from 23-37 feet bsg. Finer-grained silts and clays returns from 37-42 feet bsg.

No significant PID detections were noted. The temperature log suggested that materials beyond 38 feet bsg could be saturated. The screen-point sampler was advanced to 40 feet and the screen was deployed from 35-39 feet bsg. The water level inside the rods was approximately 36 feet. The formation was purged using the check-valve assembly and polyethylene tubing. After purging the formation for approximately 15 minutes, the formation began to produce less groundwater. Purging was completed using the stainless-steel mini-bailer. Groundwater sample G-109 was collected. The groundwater sample was brown and cloudy with an appreciable amount of fines.

S-101

A sheen was noted where the storm water discharges into St. Joseph Creek on 5 February 2002. Surface-water runoff from the roadways and parking areas surrounding the Dynagear facility is transported to the discharge area via sewer lines. Drainage from the drum-storage area along the north wall of the Dynagear building was noted going to one of the sewer line's manholes. Several storage bins are located at the loading dock area on the north side of the facility. Cuttings from machining operations are apparently discarded into these bins. The asphalt surface is heavily stained with what appears to be cutting oils. Surface-water runoff from this area is somewhat contained by drainage grates; however, evidence was present that contaminated runoff extends beyond the loading dock area. A surface-water sample (S-101) was collected from the storm water discharge area at the east edge of Dynagear's east parking lot.

3.3 SURVEYING AND MAPPING

CPT and Geoprobe logging and sampling points were surveyed for horizontal and vertical location/elevation by U.S. EPA using sub-meter accuracy GPS equipment. Table 3-3 summarizes

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ground-surface-elevation data for each CPT and Geoprobe location. U.S. EPA will input location and elevation data into a GIS database to facilitate three-dimensional visual modeling. This activity will be ongoing as additional data is gathered, and the site conceptual model will be updated accordingly.

3.4 ANALYTICAL SERVICES

Groundwater samples were collected during field activities to evaluate the source(s) of chlorinated solvent contamination within the Ellsworth Industrial Park. Groundwater samples were collected from various depths at both CPT and Geoprobe testing locations. Samples were analyzed for VOCs only.

3.4.1 Field Quality-Control Samples

Field duplicates and equipment blank samples were collected at an approximate frequency of one per 10 project samples per parameter. Trip blanks were also collected at a frequency of one per sample cooler shipment of aqueous VOC samples.

3.4.2 Analytical Laboratory Procedures

U.S. EPA groundwater samples were analyzed by Accutest Laboratories, Marlborough, Massachusetts, in accordance with methods specified in U.S. EPA SW-846 Method 8260B

IEPA groundwater samples were analyzed by the U.S. EPA, Region V, Central Regional Laboratory (CRL), Chicago, Illinois, in accordance with CLP SOW OLC03.2.

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3.4.4 Data Validation

U.S. EPA groundwater-sample analytical data was validated by a WESTON Data Validator following guidelines for data validation found in *Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses– U.S. EPA, October 1999.* IEPA groundwater sample analytical data was electronically reviewed by CADRE.

3.4.3 Sample Packaging, Storage, and Shipment

Sample containers were labeled and shipped with a sample tag affixed to each container. Samples were placed in plastic zipping bags. Bagged containers were placed in appropriate transport containers, and the containers were packed with appropriate shock-absorbent material and preserved with ice to 4° Celsius. All sample documents (e.g., chain of custody) were affixed to the underside of each transport-container lid. The lid was sealed with shipping tape, and custody seals were affixed to the transport container. Transport containers were labeled with the origin and destination locations. Sample packing, storage, and shipment activities were carried out in accordance with regulations promulgated by the U.S. Department of Transportation (DOT) and the International Air Transport Association (IATA).

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SECTION 4
INVESTIGATION RESULTS

This section presents the results of data collected during the investigation. Investigations included CPT testing, Geoprobe/MIP logging, and groundwater sampling. Data and information from previous investigations and studies is also included, where applicable, to better develop the site conceptual model.

4.1 REGIONAL GEOLOGIC/HYDROGEOLOGIC SETTING

The following subsections describe the regional soil conditions, geologic conditions, occurrence of groundwater, and surface-water conditions in the vicinity of the Downers Grove Site. Information is based primarily on data obtained from the public record.

4.1.1 Physiography

The site is situated within the Wheaton Morainal Country of the Great Lakes Section of the Central Lowland Physiographic Province (Willman, 1971). The Wheaton Morainal Country is characterized by complex morainal topography with a greater relief and more complicated slope patterns than in most of northeastern Illinois. Irregularly shaped hills, mounds, and ridges are intermingled with basins, marshes, and occasional lakes. The surface drainage pattern is geologically young and incomplete. Site drainage appears to be towards St. Joseph Creek from the north and south portions of the industrial park.

4.1.2 Surficial Soil

According to the Soil Conservation Service Soil Survey of DuPage County, Illinois (United States Department of Agriculture, 1979), the following surficial soil series are present within the industrial park:

- Ashkum silty clay loam;

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- Beecher silt loam;
- Markham silt loam;
- Urban Land - Orthents Complex

By far the largest percentage of area within the industrial park is designated Urban Land. Urban Land consists of areas altered by the presence of pavement, parking lots, and buildings so as to make the identification of the underlying soil impracticable. The Urban Land - Orthents complex is generally comprised of clayey, fine-textured soil that has been altered by cutting and mixing.

A small area within the industrial park west of the Arrow Gear property is classified as Markham silt loam and is described as a gently sloping, moderately well-drained soil found on ridges, knolls, and sideslopes of glacial till plains or moraines on uplands. Typically, the surface layer is black silt loam about 8 inches thick. The subsoil is about 28 inches thick. The upper part is brown silty clay, the middle part is mixed brown mottled clay loam; and the lower part is light olive brown silty clay loam. The underlying material to a depth of 5 feet is olive brown mottled very firm silty clay loam.

The extreme northeast corner of the industrial park between Chase and Belmont Avenues consists of Markham silt loam and Beecher silt loam. Markham silt loam is as described above. Beecher silt loam is nearly level, somewhat poorly drained soil on low ridges and in shallow depressions and drainageways on uplands. Typically, the surface layer is very dark gray silt loam about 7 inches thick. The subsoil is about 28 inches thick. The upper part is dark grayish brown mottled silty clay, the middle part is light olive brown mottled firm silty clay loam; and the lower part is light olive brown mottled silty clay loam. The underlying material to a depth of 5 feet is olive brown mottled very firm silty clay loam.

The extreme northwest corner of the industrial park in the vicinity of the current Village of Downers Grove Public Works building consists of Ashkum silty clay loam. Ashkum silty clay loam is nearly level, poorly drained soil along drainageways and in depressions between ridges on glacial plains.

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Typically, the surface layer is black silty clay loam about 11 inches thick. The subsoil is about 36 inches thick. The upper part is very dark gray mottled firm silty clay; the middle part is gray mottled firm silty clay loam; and the lower part is mixed gray and yellowish brown mottled very firm silty clay loam. The underlying material to a depth of 5 feet is mixed gray yellowish brown mottled very firm silty clay loam containing scattered pebbles.

Although several additional soil assemblages are present in the residential areas surrounding the industrial park, the soil types are similar in makeup to those silt and silty clay loams described above.

4.1.3 Glacial Deposits and Bedrock

Glacial till and glacial stratified drift deposits are common throughout the area underlying surficial soil and are the result of material deposition by advancing and retreating glaciers. The native glacial deposits in the vicinity of the industrial park consist of relatively impermeable silty and clayey tills of the Valparaiso Morainic System. Based on geologic information gathered, these low-permeability deposits dominate the area; however, scattered layers and lenses of sand and gravel are present within the till complex.

Unconsolidated materials in the area also consists of local deposits of sand and gravel of the Henry Formation. These deposits of sand and gravel are generally well sorted and evenly bedded. According to literature, these deposits are expected to be present along the course of St. Joseph Creek through the site area and have been confirmed with site-specific drilling information. Thickness of these sand and gravel deposits is expected to be variable and may be in contact with bedrock in the area.

Glacial deposit thickness varies in this portion of Illinois from surface outcrop to thicknesses greater than 300 feet. Bedrock was encountered during this investigation as well as during previous well

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installation (private and municipal). The depth to bedrock at the site is estimated to range from approximately 60 feet bgs to greater than 100 feet bgs. Variation is due to changes in topographic elevation and the potential for local erosion of the bedrock surface.

The uppermost bedrock unit present in the vicinity of the site consists of the Silurian-aged Racine Dolomite. This formation consists of a fine- to medium-grained dolomite with textures that vary from dense to vesicular to vuggy. Shale beds may also be present locally. U.S. EPA obtained drilling records throughout the area from the Illinois State Geological Survey (ISGS) through their PICS database. These data contained latitude, longitude, and drillers descriptions of the subsurface lithology at each location, including depth to bedrock. U.S. EPA used these bedrock-elevation data to prepare a bedrock surface contour map. This figure is included as Figure 4-1.

4.1.4 Groundwater Occurrence and Use

Groundwater is obtained from four major aquifer systems in northeastern Illinois – glacial drift, shallow carbonate bedrock, and two divisions of the deep bedrock. The glacial drift aquifer system is restricted to the unconsolidated materials overlying bedrock, more specifically, to the sand and gravel outwash deposits. The shallow bedrock aquifer system consists of those bedrock units that directly underlie the glacial drift and are recharged locally by precipitation. The major units in this system in the vicinity of the site are dolomites of the Silurian-aged Racine Formation. Deep groundwater is obtained primarily from two bedrock units consisting of the Glenwood-St. Peter sandstone and deeper sandstones of the Ironton-Galesville Formations. Together, the two deep sandstone units and portions of the overlying Galena-Platteville Formation are known as the Cambrian-Ordovician aquifer system in northeastern Illinois.

Prior to introduction of Lake Michigan water to the Downers Grove Area in 1992, the city maintained several municipal water supply wells in the vicinity of the site. Based on existing records, these wells were all open to the shallow dolomite aquifer. The city maintains one do lomite well (Well #10) within

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the industrial park as a backup well. This well is approximately 285 feet deep and is typical of the previous municipal wells operated in this area.

4.1.5 Surface Water

The natural surface drainage patterns at the site appear to have been significantly altered due to development of the industrial park and adjoining residential areas. Surface-water flow patterns at the site are controlled by St. Joseph Creek, which runs through the industrial park from east to west. An extensive storm sewer system is present within the industrial park to channel runoff to St. Joseph Creek. North of the creek, surface water generally flows to the south into the creek; and south of the creek, surface water generally flows north into the creek. St. Joseph Creek flows west and empties into the East Branch DuPage River approximately one to two miles west of the industrial park.

Based upon information contained in Phase I Environmental Site Assessments for some of the commercial properties within the industrial park, a 100- and 500–year floodplain is present along St. Joseph Creek but is confined to a rather narrow band along its length.

4.2 SITE GEOLOGY/HYDROGEOLOGY

Based on the CPT locations, geoprobe locations, and information from existing borings and wells installed as part of previous investigations, strata underlying the industrial park were identified and consist primarily of low-permeability silty clay till with scattered sand and gravel layers and lenses that appear laterally discontinuous with distance. While this is the primary characterization over the majority of the industrial park, substantially differing conditions are present along St. Joseph Creek. Along the creek are found primarily sand and gravel alluvial deposits with interbedded silt and clay layers. Several geologic cross sections were developed based on the findings of the geologic data

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collected. The lines of the cross section are shown on Figure 4-2 and the geologic cross sections are shown in Figures 4-3 through 4-9.

Cross section A-A' is located along Curtiss Street between Walnut and Belmont Avenue. The approximate eastern 2/3 of this transect is roughly parallel with St. Joseph Creek, including the portion of the creek adjacent to Dynagear, which was rerouted north to its present position. In general, low-permeability silty clay is found near the surface in thicknesses ranging from 4 to 17 feet in the western portion of this section to greater than 25 feet near Belmont Avenue. The most significant feature of this transect is thick zones of alluvial sand and gravel encountered beneath surficial silty clay deposits. Sand deposits up to 50 feet thick are present and typically contain scattered lenses of silt and clay, usually in thickness less than 10 feet. Bedrock was encountered at a depth of approximately 67 feet bgs in a boring west of Walnut Avenue. Although refusal occurred at the remaining CPT boring locations, it cannot be determined whether this occurred at the bedrock surface.

Cross sections B-B', D-D', and E-E' are oriented perpendicular to St. Joseph Creek at locations on either end of the industrial park and through the approximate center. Thick sequences of low-permeability materials are present in the areas away from St. Joseph Creek. The materials are described primarily as clayey silt to silty clay. These materials are up to 97 feet thick in the extreme southeast corner of the industrial park based on IEPA CPT information. Scattered lenses of sand and gravel are present in thicknesses generally less than 5 feet. Based on the number of shallow boring refusals, it is probable that a significant amount of boulders and cobbles are present within the clay till matrix. As described in the pervious paragraph, significant deposits of sand and gravel are present along St. Joseph Creek, which may be in contact with bedrock based on relative elevations. Sand deposits extend laterally an average of 600 to 800 feet north and south of the creek.

Cross sections C-C' and F-F' are located in the southeastern portion of the industrial park away from the creek. These cross sections are built on data provided primarily by IEPA from its previous CPT

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investigation, augmented with additional data from nearby CPT locations advenced during this investigation. The stratigraphy in this portion of the site consists predominantly of low-permeability silty clay. One IEPA CPT location (CPT-39) was advanced to 97 feet bgs and is inferred to have refused on bedrock at this location based on relative bedrock elevations in the area. Scattered, generally discontinuous lenses and layers of sand and gravel are encountered sporadically in the clay-till matrix at various depths. These units are generally less than 5 feet thick. A thicker sand sequence may be located in the vicinity of CPT-07 and CPT-08 at depths below 45 feet bgs although it is not known whether this represents a laterally continuous zone or just a larger layer/lens.

Groundwater was encountered in several of the CPT and Geoprobe borings advanced at the site at depths ranging from approximately 10 to 50 feet bgs. In general, saturated conditions were encountered upon entering the sand and gravel deposits below and within the silty-clay formation although this was not always the case. A number of the shallower sand and gravel zones did not produce groundwater during sampling attempts. There does not appear to be a pattern to this phenomena, and it may indicate that these granular lenses and layers may contain significant amounts of fine-grained material and are not laterally extensive. It is also noted that dry boreholes were encountered 2 near St. Joseph Creek at depths that would have been expected to produce groundwater if the sample zones were in hydraulic communication with surface water. This may indicate that the shallow water table is deeper than the creek water level and that a low-conductance layer is present within the creek bed in some areas, preventing direct connection to the shallow water table.

Shallow glacial overburden groundwater-flow directions were not calculated during this investigation because surveyed groundwater-elevation points were not part of the scope of work for this phase. However, shallow groundwater-flow direction would be expected to mimic local topography; therefore, shallow groundwater flow direction within the industrial park would be expected to converge on St. Joseph Creek, which is at the topographic low point within the industrial park.

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Bedrock groundwater-flow direction was evaluated. Based on the distribution of chlorinated-solvent compounds in residential wells early on, it was apparent that a south-southeast groundwater-flow direction was likely within the dolomite bedrock aquifer. This was confirmed based on measured groundwater-elevation data from area wells installed and/or monitored in conjunction with investigation activities at the nearby Lockformer environmental site. This data confirmed a south-southeast groundwater-flow direction under the Ellsworth Industrial Park. A bedrock groundwater elevation contour map is presented as Figure 4-10. Based on Figure 4-10, the horizontal hydraulic gradient is calculated to be approximately 0.0007 feet per foot (ft/ft) across the site for the bedrock aquifer.

4.3 GROUNDWATER SAMPLING RESULTS

The results of groundwater sampling conducted during this investigation are summarized in the following subsections. A total of 31 groundwater samples were collected from the CPT locations; six groundwater samples from Geoprobe locations and one surface-water sample from St. Joseph Creek. Because differing sampling methods were used, results are summarized separately by data generating organization. Data is summarized and discussed initially for U.S. EPA and IEPA sampling efforts. This is followed by a summary of groundwater analytical data generated by other individuals/companies for other projects but which are deemed applicable information for this investigation. Specifically, this includes groundwater data collected within the Ellsworth Industrial Park by Ames, Inc., and Clayton, Inc.

Groundwater VOC sampling results are summarized on Tables 4-1 and 4-2. Full validated analytical-data packages are contained in Appendix E. In addition to Table 4-1, groundwater analytical data are also shown on Figure 4-11. Low-concentration compounds determined to be laboratory artifacts (e.g., acetone) are not indicated on Figure 4-11.

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4.3.1 CPT Groundwater Samples

Thirty-one groundwater samples were collected from CPT locations during this investigation. Each of the groundwater samples was collected from saturated sand and gravel zones within overburden glacial deposits. No water samples were collected from bedrock. Each sample was analyzed for VOCs. Results of the VOC groundwater analysis from CPT samples are presented in Table 4-1.

The following VOCs were detected in CPT groundwater samples:

- Acetone
- Benzene
- Bromodichloromethane
- Chloroform
- 1,1-Dichloroethane (1,1-DCA)
- cis-1,2-Dichloroethane
- trans-1,2-Dichloroethane
- Tetrachloroethene (PCE)
- Toluene
- 1,1,1-Trichloroethane (1,1,1-TCA)
- Trichloroethene (TCE)

Of the above-listed compounds, acetone and chloroform were also detected in trip-blank samples. Therefore, the presence of these compounds in investigative samples is considered a laboratory/transport artifact.

Detected compounds can be grouped into two categories: chlorinated solvents and aliphatic hydrocarbons. Chlorinated solvents were detected at the following locations and concentrations:

- CPT-41 - 1,1,1-TCA at 0.76 ug/L from 53 to 55 feet bgs.
- CPT-44 - 1,1,1-TCA at 0.77 ug/L and TCE at 1.4 ug/L from 36 to 37 feet bgs.
- CPT-50 - 1,1-DCA at 0.62 ug/L; cis-1,2-DCE at 59.1 ug/L; trans-1,2-DCE at 3.4 ug/L; PCE at 2.7 ug/L; and TCE at 218 ug/L from 43 to 46 feet bgs.

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- CPT-51 - PCE at 22.4 ug/L; 1,1,1-TCA at 1.6 ug/L; and TCE at 12.6 ug/L from 36 to 37 feet bgs.
- CPT-53 - 1,1-DCA at 3.3 ug/L; PCE at 2.7 ug/L; 1,1,1-TCA at 9.4 ug/L; and TCE at 0.81 ug/L from 34 to 35 feet bgs.
- CPT-64 - PCE at 0.76 ug/L from 22 to 24 feet bgs.
- CPT-79 - PCE at 1.7 from 42 to 44 feet bgs; and 7.5 ug/L from 32 to 35 feet bgs.

The detected chlorinated solvents appear to be generally concentrated in the samples collected along Curtiss Street between Chase Street and Katrine Avenue. Although the samples were collected within public road ROW, they are in the vicinity of six of the properties identified in Section 2 as potential source areas based on past use of chlorinated solvents. The properties include Ames Supply; Scot, Inc; Arrow Gear, Inc.; Dynagear; Precision; and Rexnord Corporation. The highest TCE concentration (218 ug/L) was detected in CPT-50, located at the intersection of Chase and Curtiss Avenue adjacent to Rexnord, ArrowGear, and Precision. This area of detections also corresponds to areas along St. Joseph Creek where significant deposits of more permeable sand and gravel have been found.

Sporadic and generally low levels of chlorinated-solvent compounds were detected at locations along Wisconsin Avenue. TCE at 5.1 ug/L was detected in a previous investigation CPT sample (CPT-07) near the corner of James and Wisconsin. This sample, however, was collected at a depth of 73 to 75 feet bgs and is likely very near the bedrock surface. A shallower sample at this same location did not detect TCE.

Aliphatic hydrocarbon detections (e.g., benzene, toluene) were detected at very low concentrations and do not appear to represent a pattern at the site.

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4.3.2 Geoprobe Groundwater Samples

IPEA collected six groundwater samples from Geoprobe locations during this investigation. Each of the groundwater samples was collected from saturated sand and gravel zones within overburden glacial deposits. Each sample was analyzed for VOCs. Results of the VOC groundwater analysis from CPT samples are presented in Table 4-2. The following VOCs were detected in Geoprobe groundwater samples:

- Acetone
- Methylene Chloride
- 1,1-DCA
- 2-butanone
- Chloroform
- 1,1,1-TCA
- Benzene
- 1,2-Dichloroethane
- TCE
- Bromodichloromethane
- Toluene
- PCE
- Xylenes (total)

Of the above-listed compounds, acetone, benzene, toluene, PCE, and xylenes were detected in trip-blank samples. Therefore, the presence of these compounds in investigative samples may represent a laboratory/transport artifact.

As with CPT groundwater samples, detected compounds can be grouped into two categories: chlorinated solvents and aliphatic hydrocarbons. The majority of detected constituents were detected at low estimated concentrations below 1 ppb. The exception to this is at sample location EIP-9 (G109) on the west side of the Dynagear property. At this location, TCE and 1,2-DCE were detected at concentrations of 6 ug/L and 2 ug/L, respectively. This area of detections also corresponds to areas along St. Joseph Creek where significant deposits of more permeable sand and gravel have been found.

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4.3.3 Other Area Groundwater Samples

Chlorinated solvents have been detected during previous investigations others performed within the Ellsworth Industrial Park. These detections are shown on Figure 4-11 and include data for the former Ames Supply Company and Clayton wells. VOCs including 1,1-DCA, cis-1,2-DCE, PCE, 1,1,1-TCA, and TCE have been detected in shallow groundwater at Ames; TCE was detected in an overburden well installed by Clayton Environmental on the west side of the industrial park.

4.3.4 Surface-Water Sample

The IEPA observed an apparent sheen where the storm water discharges from Dynagear property into St. Joseph Creek, as previously described in Subsection 3.2. A surface-water sample (S-101) was collected from the storm water discharge area at the east edge of Dynagear's east parking lot. Analytical data for this sample is included on Table 4-2. Acetone, chloroform, bromodichloromethane, and PCE were detected at low concentrations. Acetone and PCE were detected in associated trip-blank samples indicating these compounds at the levels indicated may be the result of laboratory/transport artifact.

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SECTION 5

CONCLUSIONS AND RECOMMENDATIONS

This section presents the conclusions and recommendations for potential future actions at the Downers Grove groundwater site. The conclusions subsection summarizes the major findings of this phase of the investigation activities, augmented with data provided from previous investigations, as applicable.

5.1 CONCLUSIONS

The following paragraphs summarize the major findings of this investigation with regard to site geology and hydrogeology, nature and extent of observed contamination, and potential fate and transport mechanisms. Conclusions drawn are based on existing information gathered to date. As additional data is gathered, the site conceptual model will necessarily change to reflect new information.

5.1.1 Geology/Hydrogeology

The geology of the site is characterized by glacial till and glacial stratified drift deposits throughout the area underlying surficial soil and are the result of material deposition by advancing and retreating glaciers. The native glacial deposits in the vicinity of the industrial park consist of relatively impermeable silty and clayey tills. These low-permeability deposits dominate the area; however, scattered layers and lenses of sand and gravel are present within the till complex. Additionally, cobbles and boulders appear to be present throughout the area, resulting in numerous shallow refusals. While this is the primary characterization over the majority of the industrial park and surrounding area, substantially differing conditions are present in the vicinity of St. Joseph Creek. Along the creek are found thick sand and gravel alluvial deposits with interbedded silt and clay

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layers. The thickness of these sand and gravel deposits is variable and may be in contact with bedrock near the creek.

The uppermost bedrock unit present in the vicinity of the site consists of the Silurian-aged Racine Dolomite. Although refusal was encountered in all CPT and Geoprobe borings advanced at the site, it is not certain that refusal was due to bedrock being encountered. Bedrock has been encountered in wells others installed, however, at depths ranging from approximately 60 to 100 feet bgs. Variation is due to changes in topographic elevation and the potential for local erosion of the bedrock surface.

Groundwater was encountered in several of the CPT and Geoprobe borings advanced at the site at depths ranging from approximately 10 to 50 feet bgs. In general, saturated conditions were encountered upon entering the sand and gravel deposits below and within the silty clay formation; although this was not always the case. A number of the shallower sand and gravel zones did not produce groundwater during sampling attempts. Shallow groundwater-flow direction within the industrial park was not measured but would be expected to converge on St. Joseph Creek, which is at the topographic low point within the industrial park.

Bedrock groundwater-flow direction was determined to be south-southeast under the Ellsworth Industrial Park. The horizontal hydraulic gradient is calculated to be approximately 0.0007 ft/ft.

5.1.2 Nature and Extent of Constituents

A total of 31 groundwater samples were collected from the CPT locations: 6 groundwater samples from Geoprobe locations and 1 surface-water sample from St. Joseph Creek as part of this investigation. Chlorinated solvents were detected at several locations and depths within the overburden sand and gravel saturated zones. Some minor occurrences of aliphatic hydrocarbons (e.g., benzene, toluene, xylenes) were also observed but are at very low levels and do not appear to

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represent a pattern. The higher levels of detected chlorinated solvents appear to be generally concentrated in the samples collected along Curtiss Street between Chase Street and Katrine Avenue. Although the samples were collected within the public road ROW, they are in the vicinity of six of the properties identified in Section 2 as potential source areas based on past use of chlorinated solvents. The properties include Ames Supply, Scot Inc; Arrow Gear Inc; Dynagear; Precision; and Rexnord Corporation. Both PCE and TCE were detected in this area. This area of detections also corresponds to areas along St. Joseph Creek where significant deposits of more permeable sand and gravel have been found. The highest TCE concentration (218 ug/L) was detected in CPT-50 (depth of 43 to 46 feet bgs in sand and gravel), located at the intersection of Chase and Curtiss Avenue adjacent to the Rexnord, ArrowGear, and Precision properties.

Sporadic and generally low levels of chlorinated-solvent compounds were also detected at locations along Wisconsin Avenue. TCE at 5.1 ug/L was detected in a previous investigation's CPT sample (CPT-07) near the corner of James and Wisconsin. This sample, however, was collected at a depth of 73 to 75 feet bgs and is likely very near the bedrock surface. A shallower sample at this same location did not detect TCE.

Chlorinated solvents have also been detected during previous investigations others performed within the Ellsworth Industrial Park. VOCs including 1,1-DCA, cis-1,2-DCE, PCE, 1,1,1-TCA, and TCE have been detected in shallow groundwater at the former Ames Supply Company; TCE was detected in an overburden well Clayton Environmental installed on the west side of the industrial park.

Very low levels of VOCs (less than 1 ppb) were detected in a surface-water sample collected from St. Joseph Creek adjacent to a storm sewer outfall at the Dynagear property.

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5.1.3 Fate and Transport

From the data generated during this investigation augmented with applicable data from previous investigations, a preliminary site conceptual model of contaminant fate and transport can be developed. It should be noted that this conceptual model is based on information known to date and will necessarily be modified as additional data is gathered.

The mechanism by which chlorinated-solvent contamination is found within the bedrock aquifer at significant distances downgradient of the industrial park can be theorized based on existing information. Based on a south-southeast bedrock groundwater-flow direction and the spatial distribution of PCE and TCE detected in residential wells, a source(s) within the industrial park is suspected. Residential wells upgradient of the industrial park and west of the industrial park do not contain PCE or TCE, effectively delineating the overall extent of the plume and confining it to a source(s) within the industrial park and separating the plume from other nearby groundwater plumes west of I-355.

Initial IEPA CPT investigation activities concentrated on the southeastern quarter of the industrial park based on this pattern of PCE/TCE distribution. The results of this investigation, however, indicated thick sequences of low-permeability silty clay to depths approaching 100 feet bgs with only scattered occurrences of sand and gravel lenses, which appear discontinuous laterally. Based on this information, the likelihood of a PCE/TCE release from this area of the site migrating vertically to the bedrock aquifer is low. This is confirmed by the lack of positive detections for PCE/TCE in overburden groundwater samples in this area.

Using this information as well as historical information IEPA and U.S. EPA gathered regarding chlorinated-solvent use by other companies within the industrial park, a second phase of CPT and Geoprobe investigations was undertaken by both agencies. These investigations confirmed the presence of thick deposits of impermeable silty clay in the southern portion of the industrial park but

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also confirmed the presence of significant sand and gravel alluvial deposits along St. Joseph Creek, which traverses the central portion of the industrial park from east to west. Groundwater analytical data confirmed the presence of PCE/TCE as well as several biodegradation breakdown organic byproducts in shallow groundwater where these thick sand and gravel deposits are located. In these areas, it is conceivable that a chlorinated-solvent release could occur and migrate vertically through the sand and gravel deposits to the bedrock aquifer. Upon entering the bedrock aquifer, lateral migration would occur in the downgradient direction (south-southeast). This contamination in bedrock would underflow the southern portions of the industrial park and provides a plausible explanation for why shallow contamination was not significantly detected in shallower groundwater samples but is present in the bedrock aquifer.

The above fate and transport conceptual model does not mean, however, that a source(s) of the PCE/TCE plume could not be located in portions of the industrial park underlain by low-permeability silty clay deposits. Surface drainage pathways across the area have been modified significantly since development started. A comprehensive storm sewer system, which conveys storm water through the sewer system and discharges into St. Joseph Creek, exists within the industrial park. A potential exists that PCE/TCE releases migrated through the storm sewer system to the creek whereby discharge results in vertical migration through alluvial deposits to the bedrock aquifer. Prior to storm-sewer development, previous surface drainage ditches and culverts could have provided a similar pathway.

Additional work will be required to evaluate and test the contaminant fate and transport conceptual model developed herein. Recommendations for future, potential field-testing activities are made in the following section.

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5.2 RECOMMENDATIONS

The chlorinated solvents detected were generally concentrated in the groundwater samples collected along Curtiss Street between Chase Street and Katrine Avenue. Theses samples were collected along the public road ROW. There are six properties (Ames Supply; Scot, Inc.; Arrow Gear, Inc.; Dynagear; Precision; and Rexnord Coporation) in the vicinity of these samples. These properties should be investigated for locating a potential source for groundwater contamination within the study area. Therefore, it is recommended to conduct a soil-boring investigation on these properties.

Prior to storm-sewer development, previous surface drainage ditches and culverts could have provided a similar pathway. These drainage areas should be investigated if they could be located.

A comprehensive storm-sewer system, which conveys storm water through the sewer system and discharges into St. Joseph Creek, exists within the industrial park. A potential exists that PCE/TCE releases migrated through the storm-sewer system to the creek, whereby discharge results in vertical migration through alluvial deposits to the bedrock aquifer. It is recommended that the subsurface soil adjacent to the storm-sewer system be investigated using Geoprobe. Sediment samples should be collected from the St. Joseph Creek to evaluate if the creek is impacted by chlorinated solvents.

It is recommended that shallow and bedrock monitoring wells to be installed identify potential property(s) that may be contributing to the groundwater contamination in Downers Grove area.

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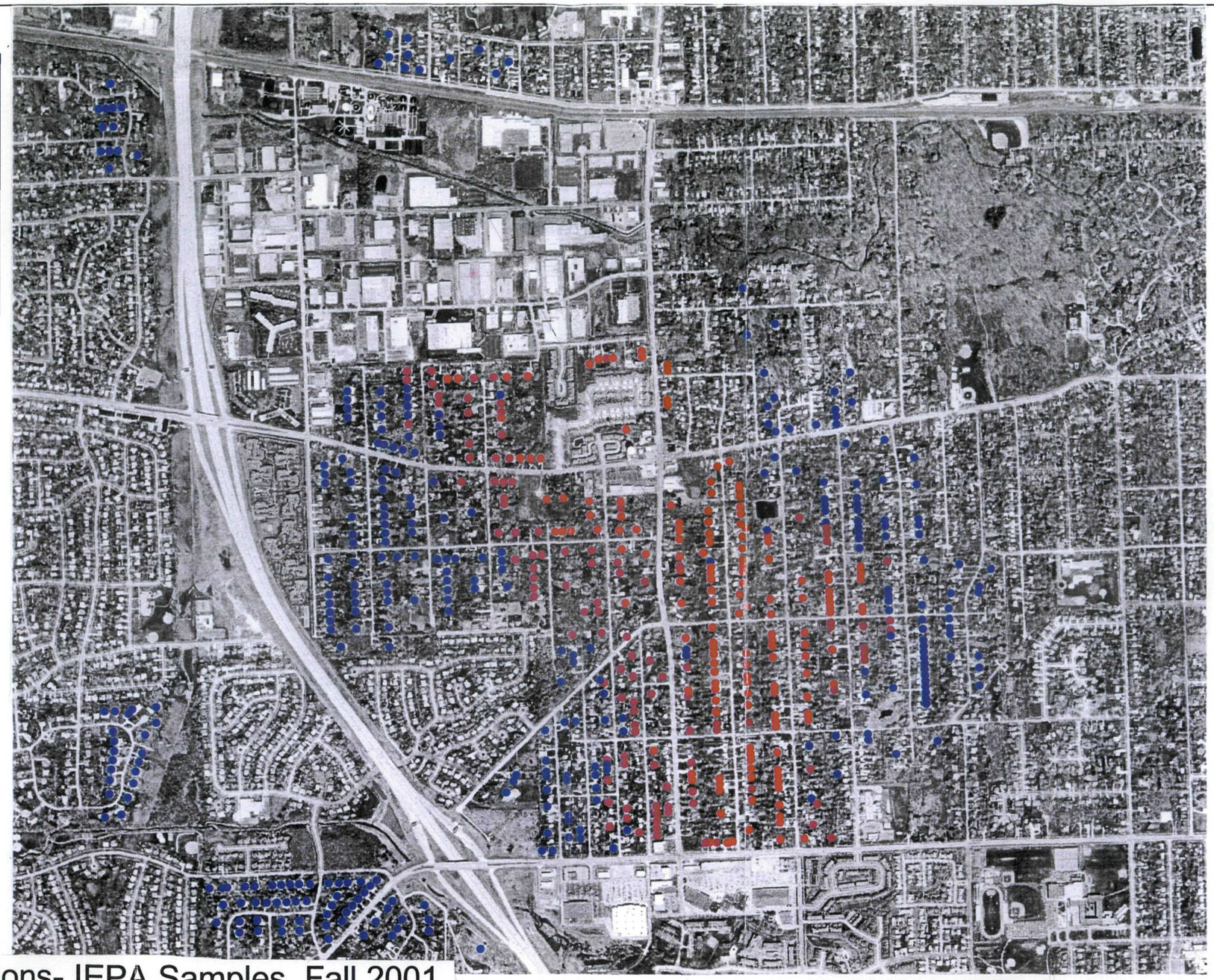
FIGURES



NOTE:
FIGURE ADAPTED FROM U.S. EPA FIGURE.

FIGURE 2-1

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM U.S. EPA CONTRACT No. 68-W-00-119 TDD No. S05-0111-010 DOCUMENT CONTROL No. 195-2A-	PROJECT AREA BASE MAP U.S. EPA Downers Grove, Illinois

FIGURE 2-2

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM U.S. EPA CONTRACT No. 68-W-00-119 TDD No. S05-0111-010 DOCUMENT CONTROL No. 195-2A-	SITE MAP U.S. EPA Downers Grove, Illinois

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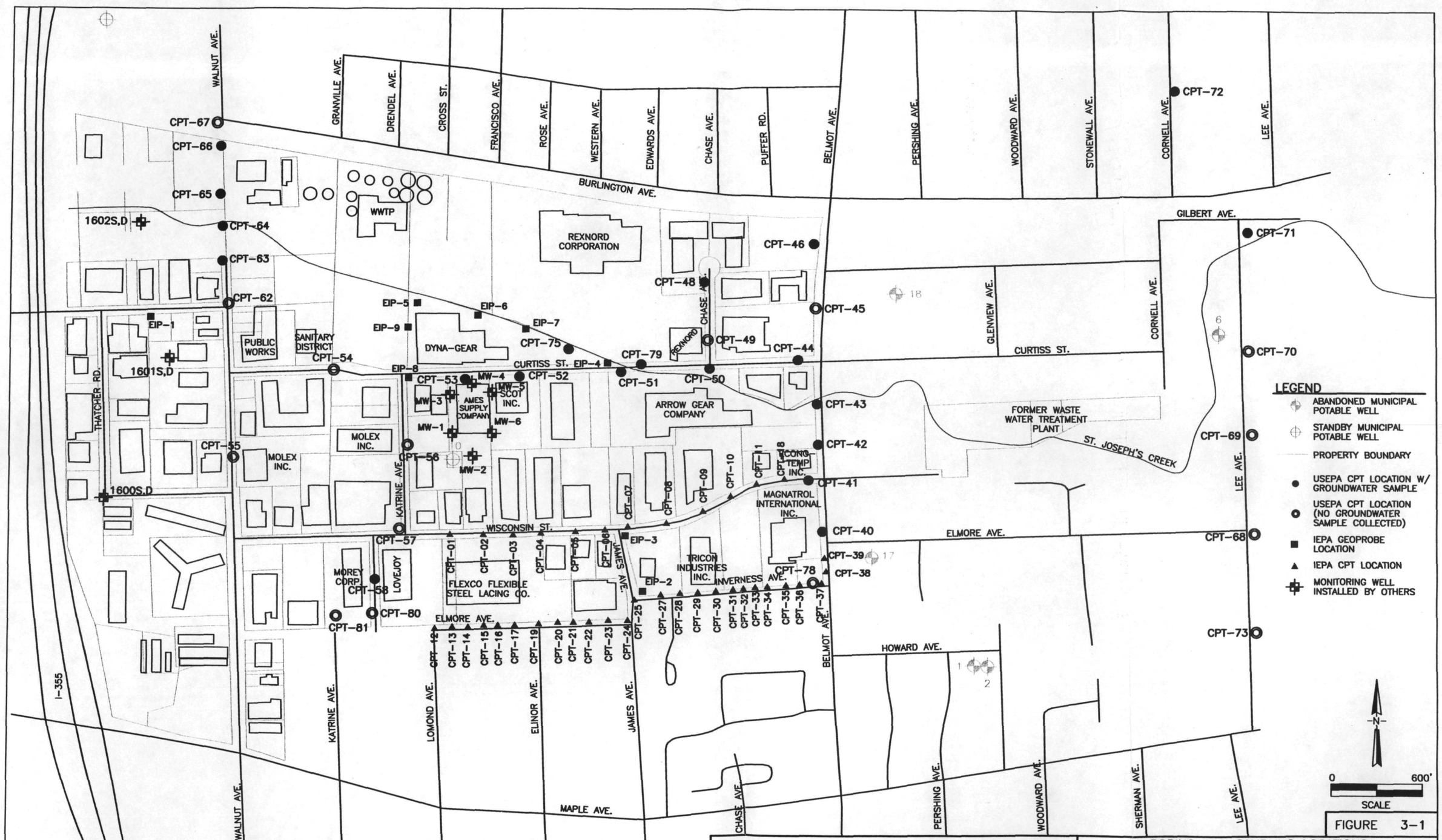

FIGURE 3-1

NOTE:
BASE FIGURE BASED ON "PRIVATE WELL SAMPLING PROGRAM DOWNERS GROVE AND LISLE ILLINOIS" JULY 19, 2001 PREPARED BY PARSONS ENGINEERING SCIENCE, INC.

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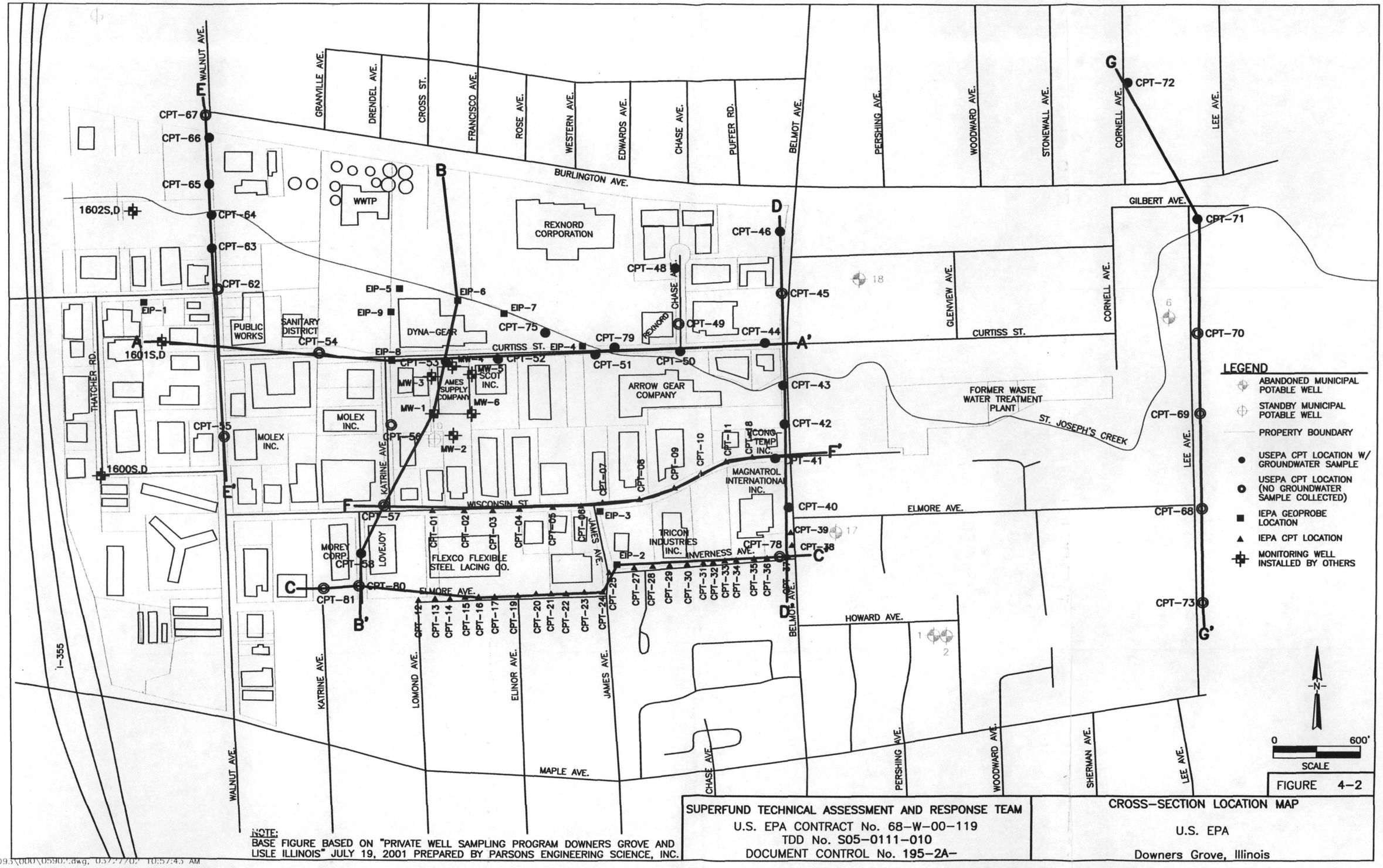
DOCUMENT CONTROL No. 195-2A-

BORING AND SAMPLING LOCATIONS
U.S. EPA
Downers Grove, Illinois

FIGURE 4-1

BEDROCK SURFACE CONTOUR MAP

(To be provided by U.S. EPA)



NOTE:
BASE FIGURE BASED ON "PRIVATE WELL SAMPLING PROGRAM DOWNERS GROVE AND LISLE ILLINOIS" JULY 19, 2001 PREPARED BY PARSONS ENGINEERING SCIENCE, INC.

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TDD No. S05-0111-010
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FIGURE 4-2

CROSS-SECTION LOCATION MAP

U.S. EPA

Downers Grove, Illinois

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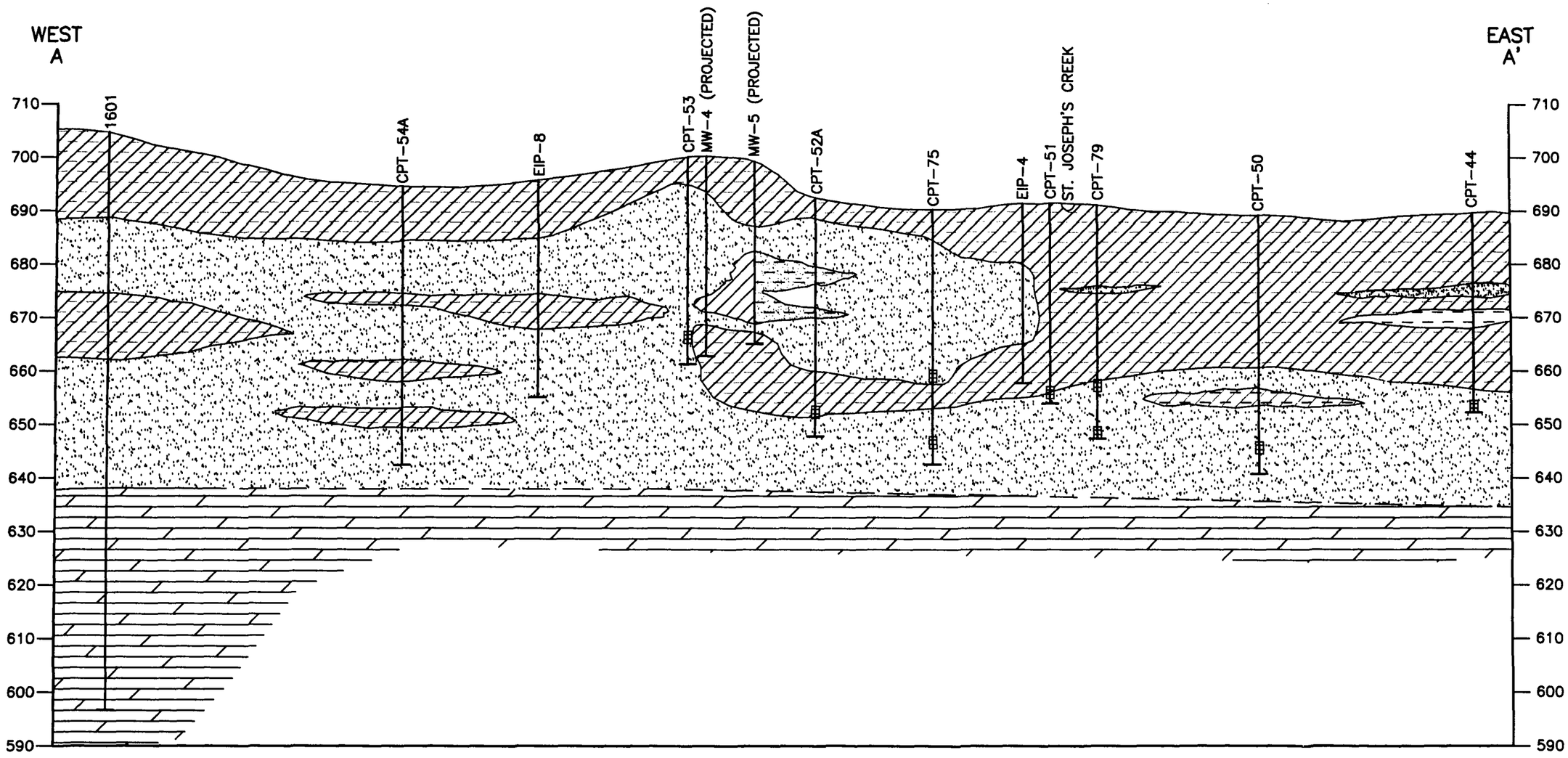

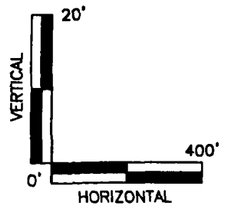

LEGEND

- CLAY
- SILTY SAND
- SAND
- SANDY SILT
- SILT
- BEDROCK
- SILTY CLAY
- CLAYEY SILT
- WATER SAMPLING LOCATION

FIGURE 4-3

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

CROSS SECTION A-A'
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Downers Grove, Illinois

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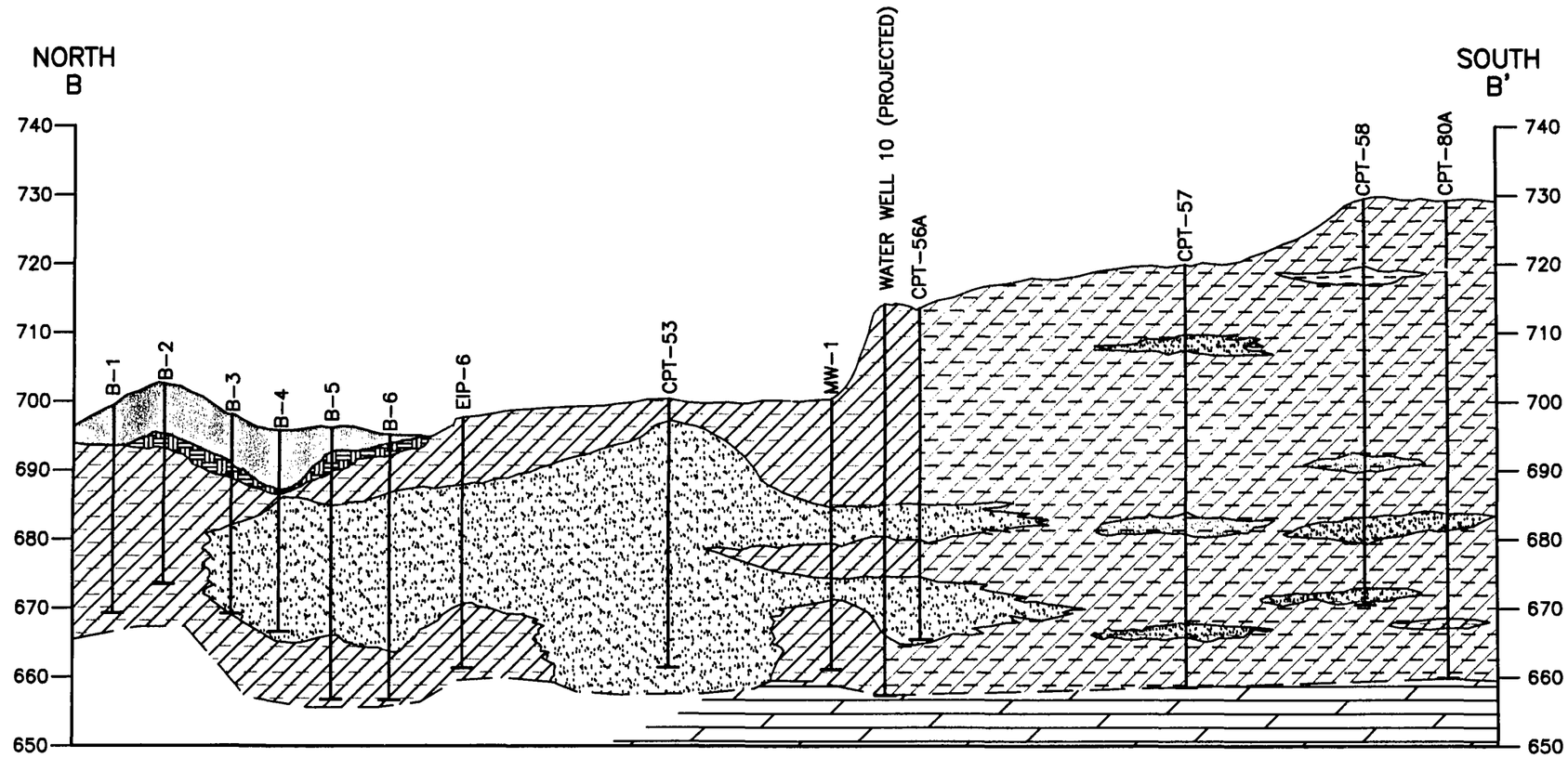

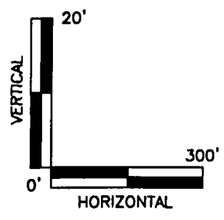

LEGEND

- FILL
- SAND
- SILT
- SILTY CLAY
- TOPSOIL
- SILTY SAND
- SANDY SILT
- BEDROCK
- CLAYEY SILT

FIGURE 4-4

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
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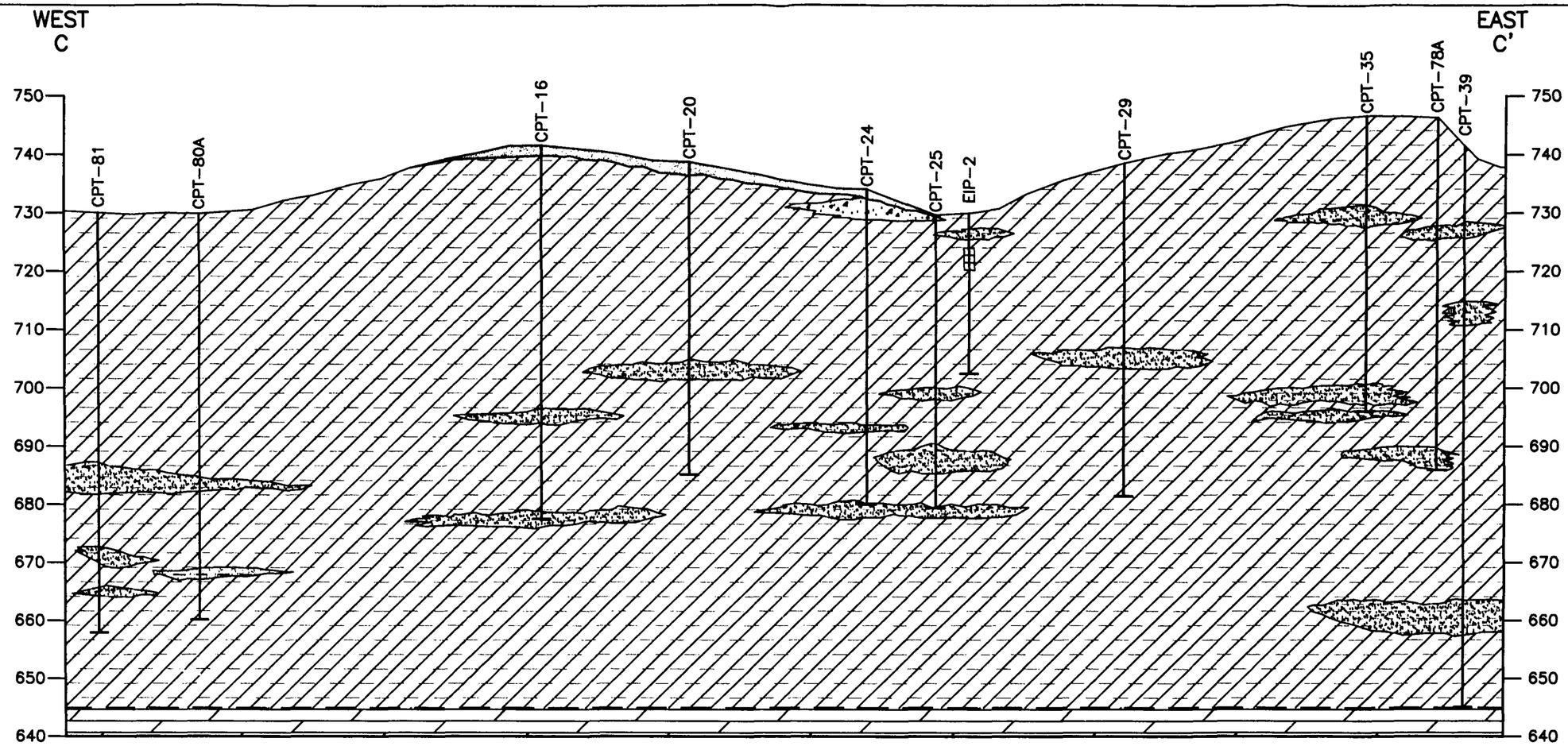
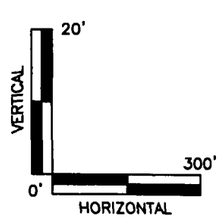
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

CROSS SECTION B-B'
U.S. EPA
Downers Grove, Illinois





LEGEND

- FILL
- SAND AND GRAVEL
- SAND
- SILTY CLAY
- SILTY SAND
- SANDY SILT
- BEDROCK
- CLAYEY SILT
- WATER SAMPLING LOCATION

FIGURE 4-5

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

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U.S. EPA
Downers Grove, Illinois

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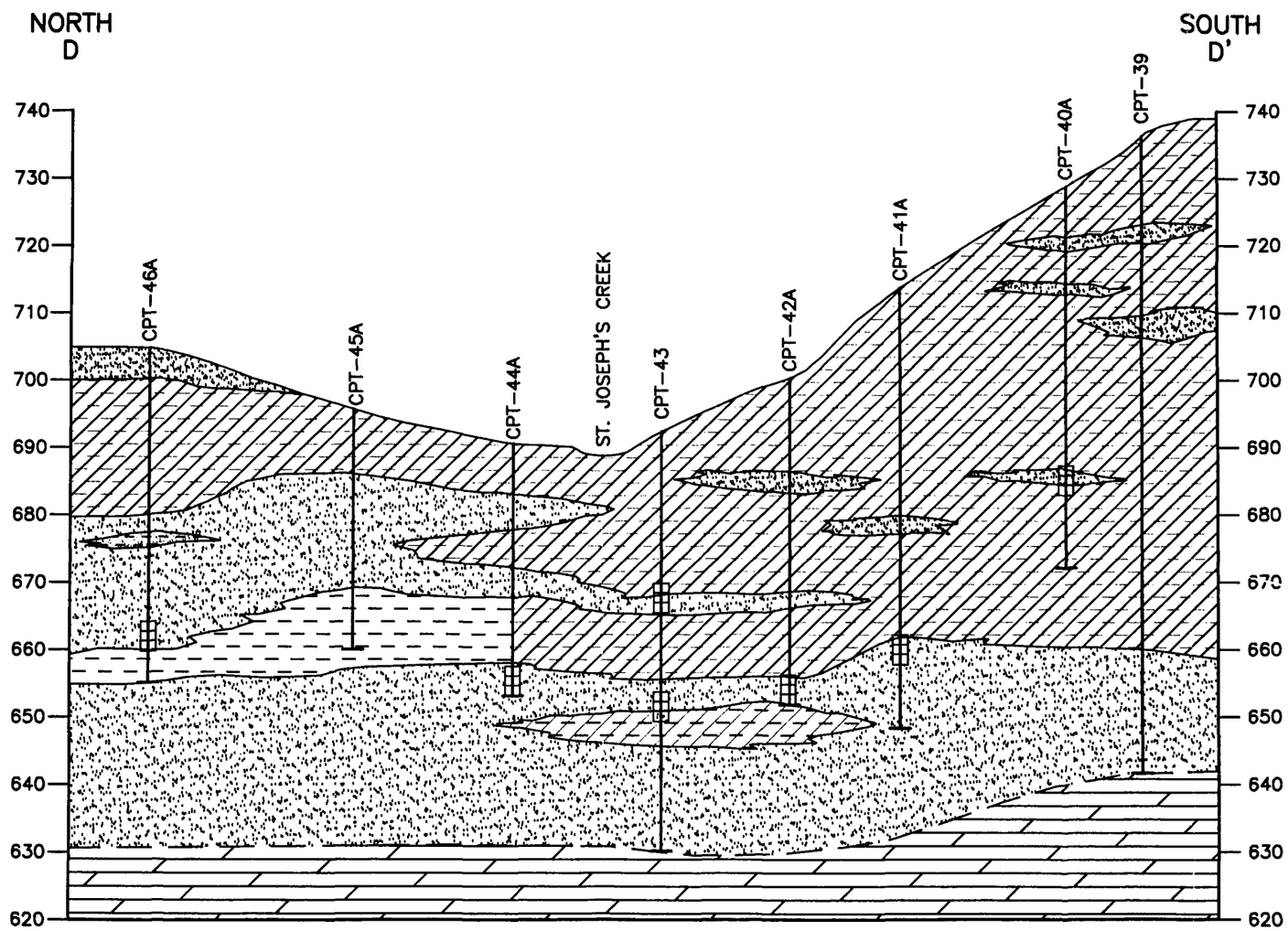
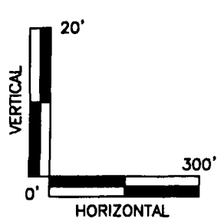




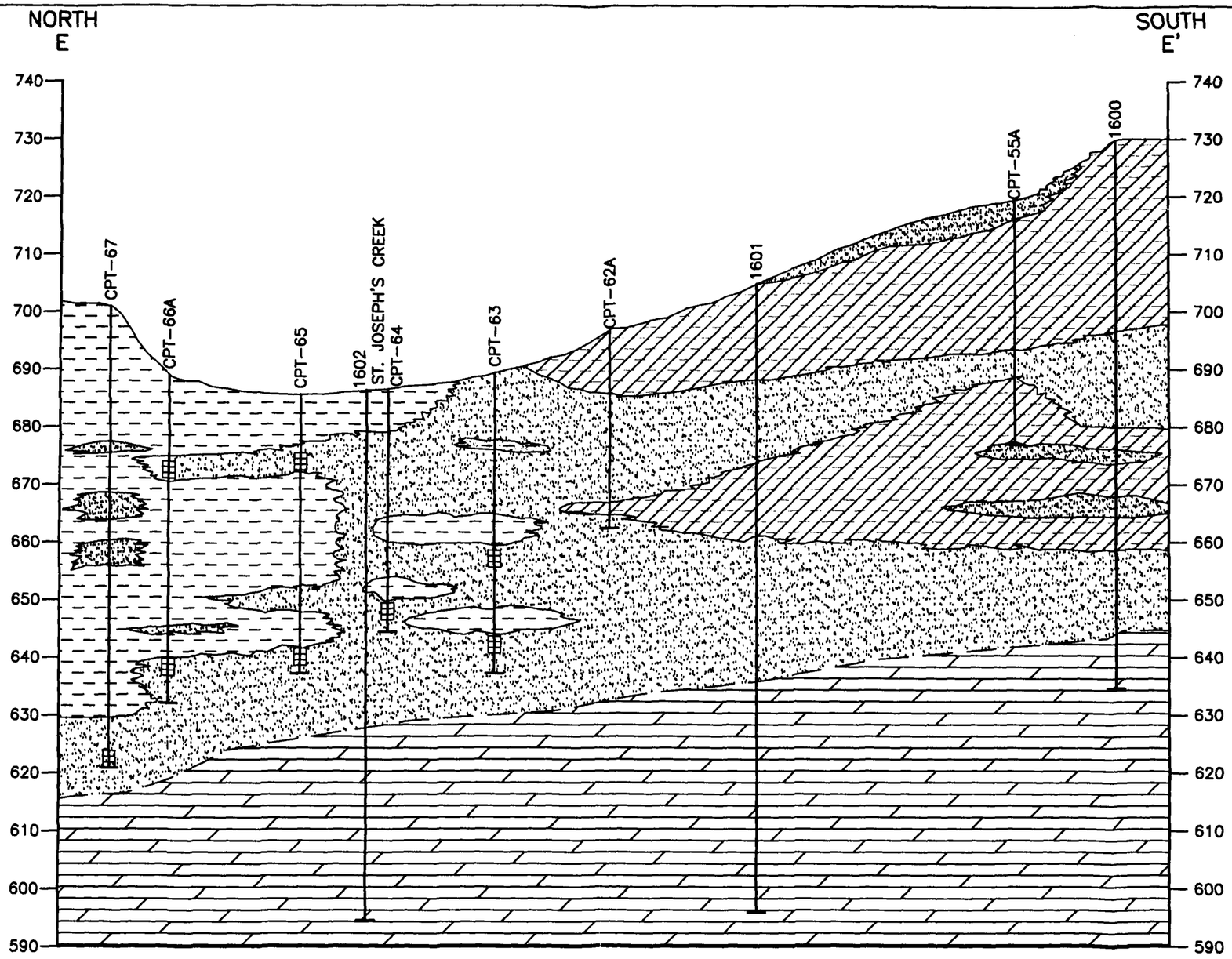
LEGEND

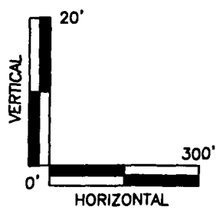
- SAND
- SANDY SILT
- SILT
- BEDROCK
- SILTY CLAY
- CLAYEY SILT
- WATER SAMPLING LOCATION

FIGURE 4-6

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

CROSS SECTION D-D'
U.S. EPA
Downers Grove, Illinois





LEGEND

- SAND
- SANDY SILT
- SILT
- BEDROCK
- SILTY CLAY
- WATER SAMPLING LOCATION

FIGURE 4-7

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

CROSS SECTION E-E'
U.S. EPA
Downers Grove, Illinois

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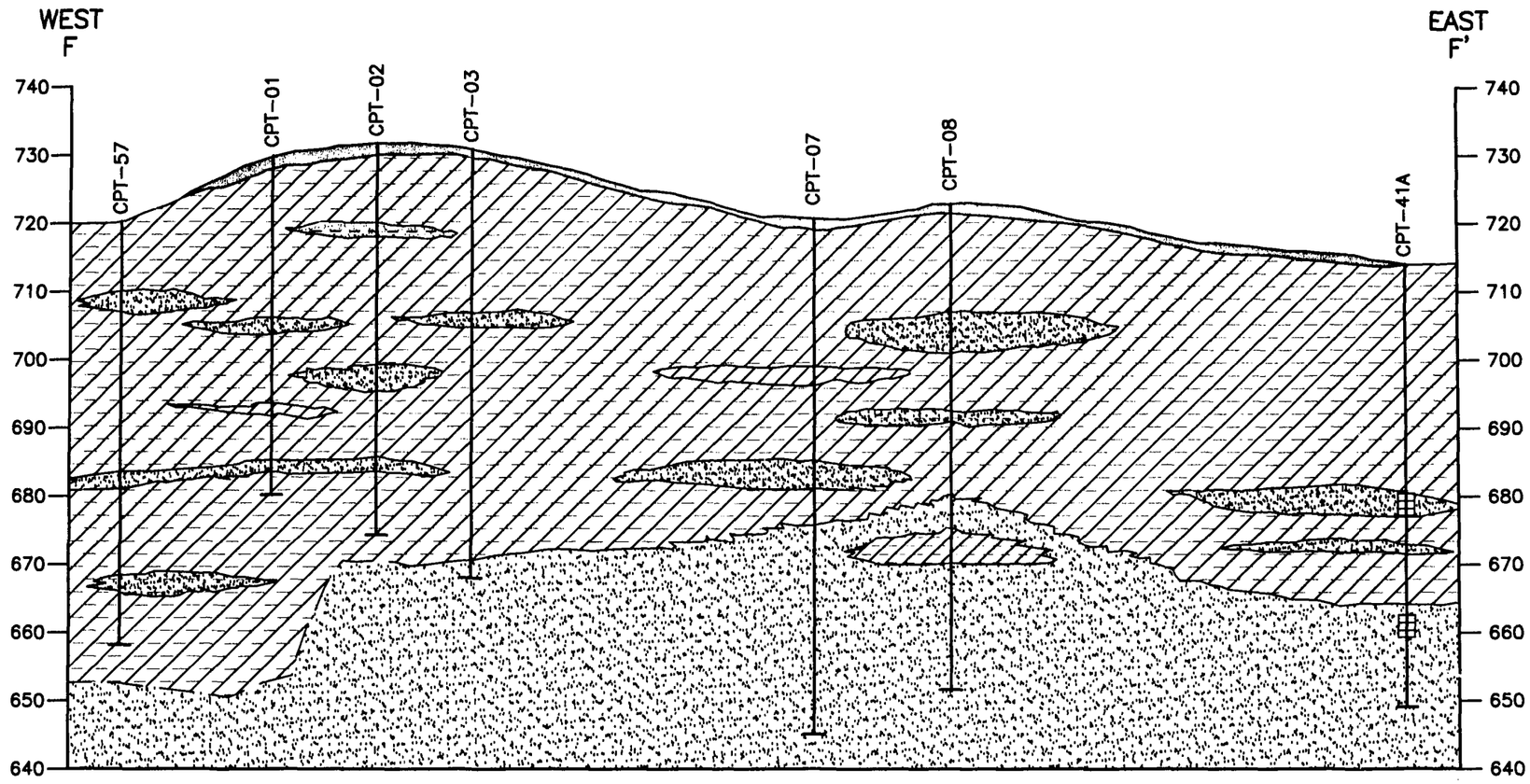


LEGEND

- CLAY
- FILL
- SAND
- SILTY SAND
- SANDY SILT
- SILTY CLAY
- WATER SAMPLING LOCATION

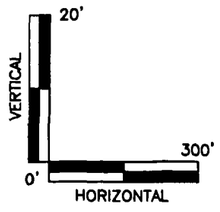
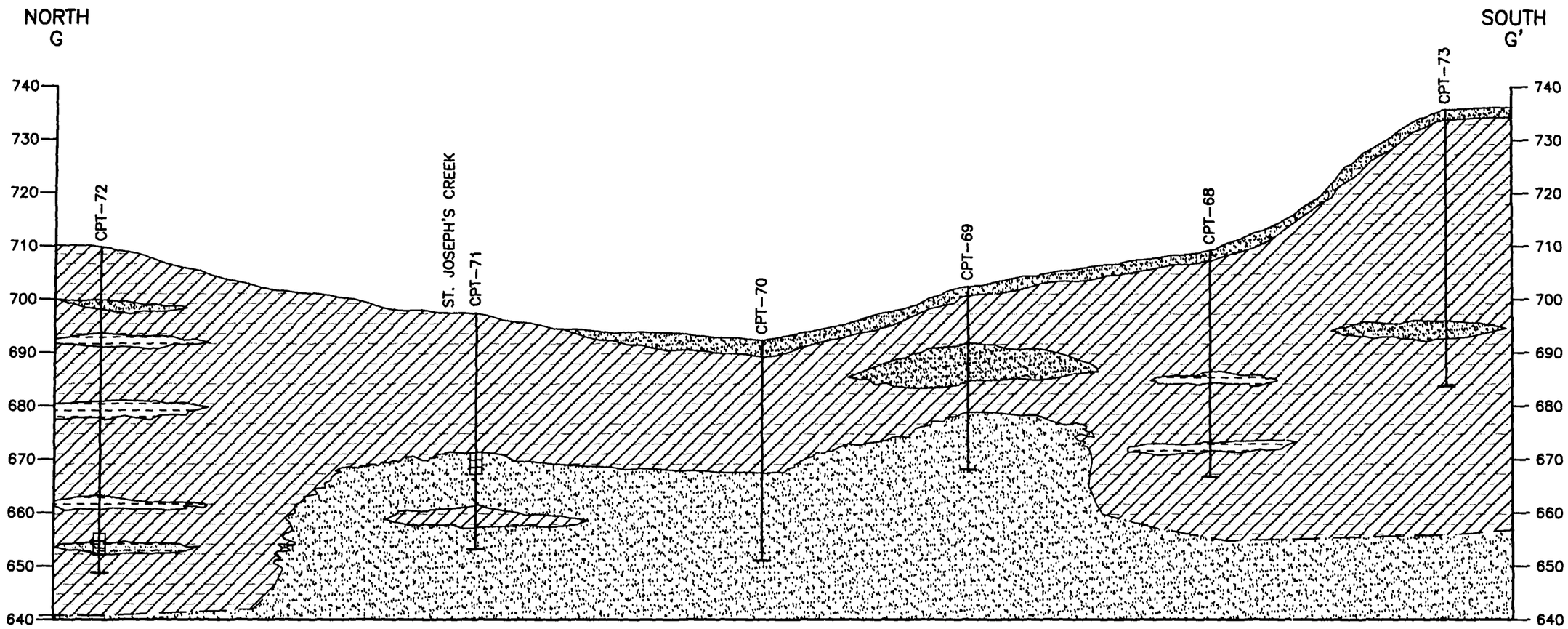
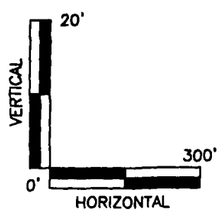


FIGURE 4-8

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

CROSS SECTION F-F'
U.S. EPA
Downers Grove, Illinois





LEGEND

- CLAY
- SILTY CLAY
- SAND
- SANDY SILT
- SILT
- WATER SAMPLING LOCATION

FIGURE 4-9

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

CROSS SECTION G-G'

U.S. EPA

Downers Grove, Illinois

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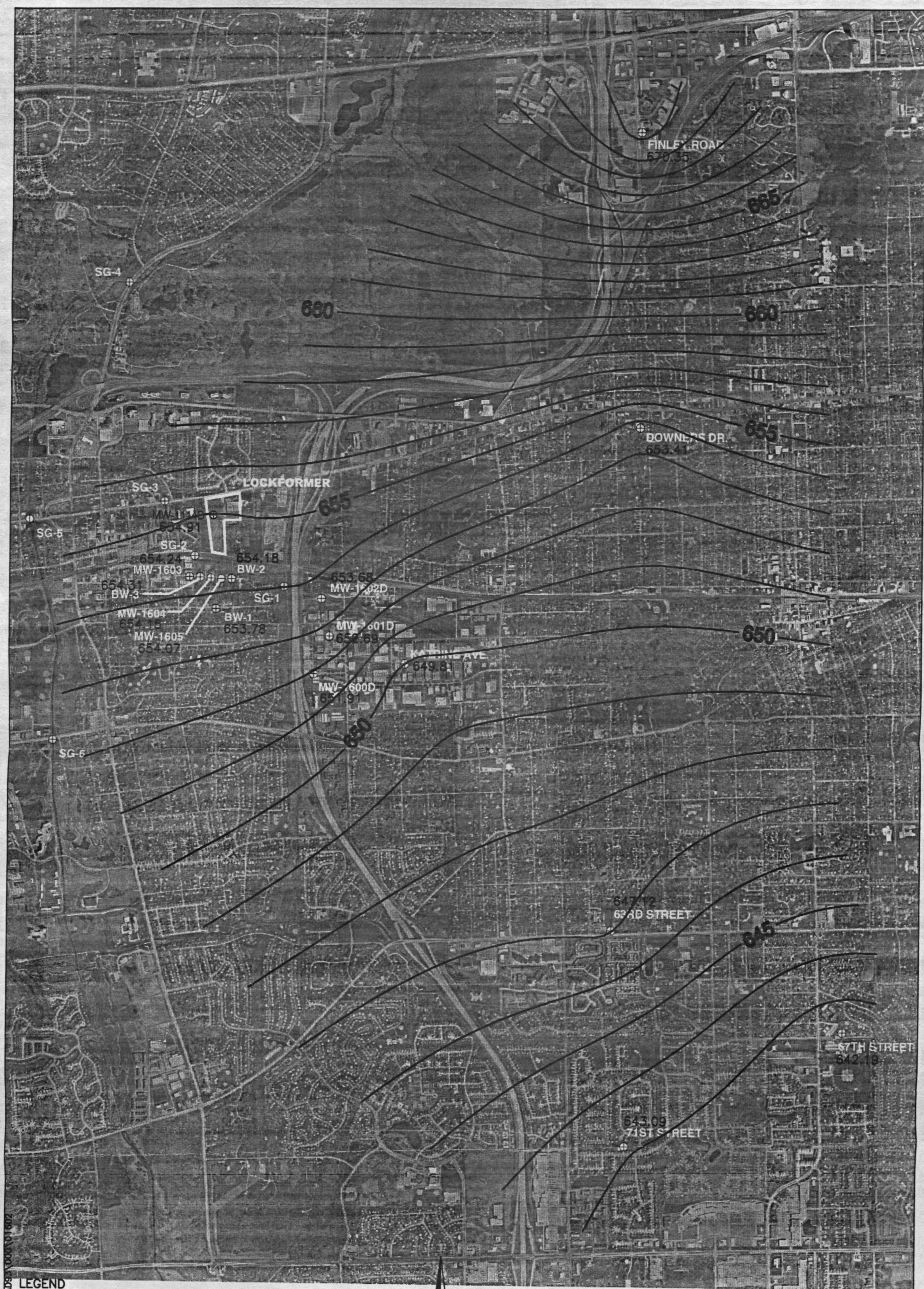

LEGEND

⊕ MONITORING WELL LOCATION USED TO CONSTRUCT CONTOURS

GROUNDWATER ELEVATION CONTOUR (IN FEET) DASHED WHERE INFERRED ARROW INDICATES GENERAL DIRECTION OF FLOW

654.51 GROUNDWATER ELEVATION (IN FEET)

-N-

0 2,400'

SCALE

NOTE:
SG SERIES WELLS WERE NOT USED TO CONSTRUCT CONTOURS.

FIGURE 4-10

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

BEDROCK AQUIFER POTENTIOMETRIC SURFACE CONTOUR MAP (11/30/01)
U.S. EPA
Downers Grove, Illinois

HERNANDD-01/23/02-15:47-J:\CAD93\000\01602

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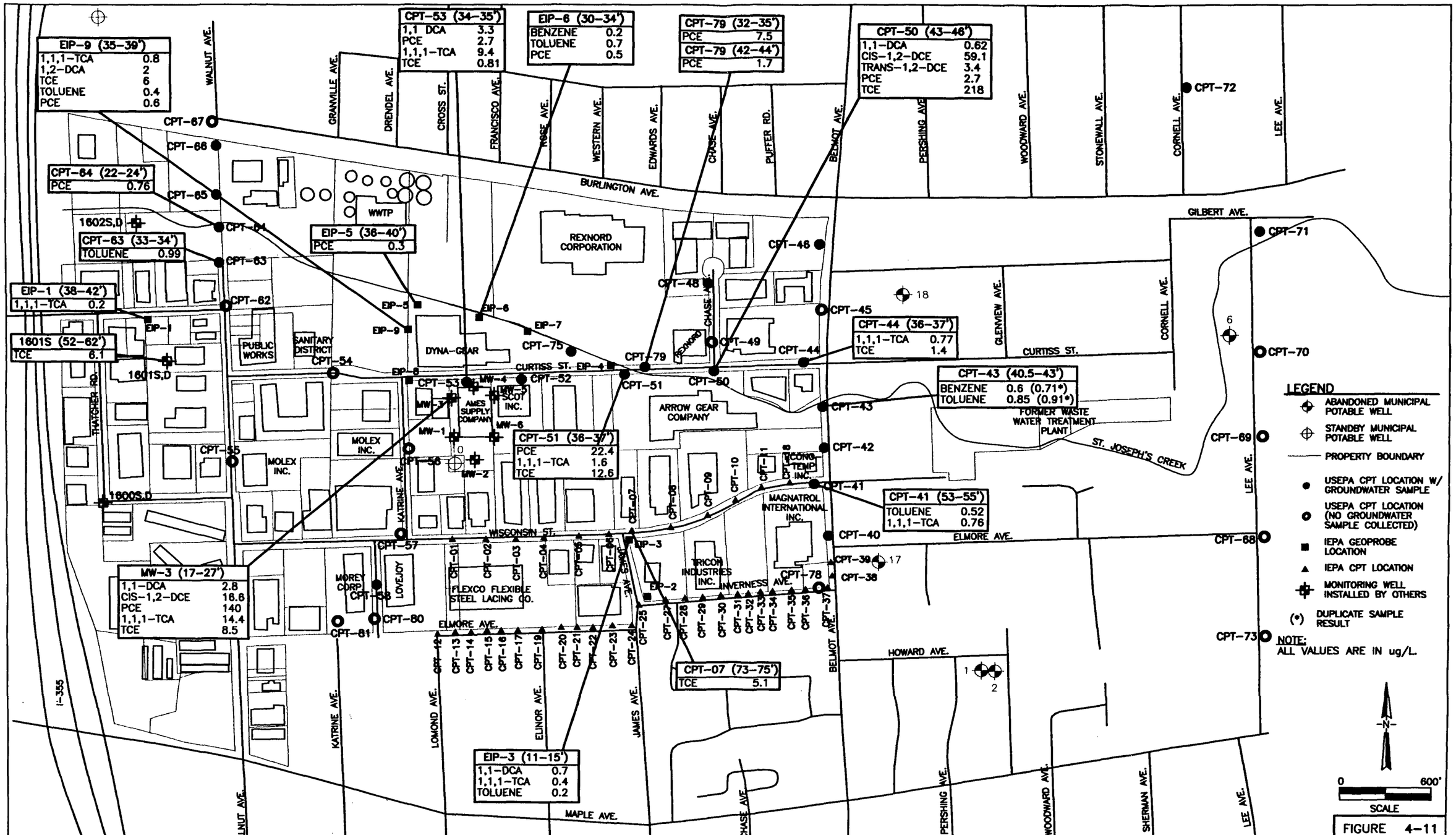

NOTE:
BASE FIGURE BASED ON "PRIVATE WELL SAMPLING PROGRAM DOWNERS GROVE AND LISLE ILLINOIS" JULY 19, 2001 PREPARED BY PARSONS ENGINEERING SCIENCE, INC.

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
TDD No. S05-0111-010
DOCUMENT CONTROL No. 195-2A-

FIGURE 4-11

SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER

U.S. EPA

Downers Grove, Illinois

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TABLES

Table 3-1
SUMMARY OF
LEGGING AND SAMPLING ACTIVITIES
US EPA
Downers Grove, IL

LOCATION	REFUSAL DEPTH (ft)	LEGGING DATE	SAMPLE INTERVAL (ft)	WATER RECOVERED?	COMMENTS	SAMPLE DATE
CPT-40	54.30	2/28/2002	40-45	Y	low sample recovery (2 vials only)	3/1/2002
CPT-40A	54.63	2/28/2002				
CPT-41	55.12	2/19/2002	34-35	Y		2/19/2002
			53-55	Y		2/19/2002
CPT-41A	65.29	2/19/2002				
CPT-42	49.70	2/28/2002	30.8-32.8	Y		2/28/2002
CPT-42A	49.70	2/28/2002	45-47	Y		2/28/2002
CPT-43	62.99	2/27/2002	23-26	Y		2/27/2002
			40.5-43	Y		2/27/2002
			58.5-61	Y		2/27/2002
CPT-44	36.91	2/26/2002	36-37	Y		2/26/2002
CPT-44A	37.24	2/26/2002				
CPT-45	12.14	2/27/2002	21-26	N	dry; unrecoverable amount of wate	2/28/2002
CPT-45A	37.07	2/27/2002	29-34	N	dry	2/28/2002
CPT-46	18.54	2/26/2002	30.5-35.5	N	dry; air emitted from boring with slight methane smell	2/27/2002
CPT-46A	50.20	2/26/2002	44-45	Y		2/26/2002
CPT-48	33.46	2/13/2002	31.5-32.5	Y	low sample recovery (1 vial only)	2/15/2002
CPT-48A	32.97	2/14/2002				
CPT-49	19.85	2/15/2002	--	N	too shallow; above water table, so no water sample was attempted to be recovered	2/15/2002
CPT-49A	19.68	2/15/2002				
CPT-49B	10.33	2/15/2002				
CPT-50	34.78	2/22/2002	26-31	N	dry	2/23/2002
			43-46	Y		2/22/2002
CPT-50A	47.90	2/22/2002				
CPT-51	38.39	2/15/2002	36-37	Y		2/15/2002
CPT-51A	38.39	2/15/2002				
CPT-52	44.62	2/18/2002	29-30	N	dry	2/18/2002
			37-42	Y	low sample recovery (2 vials only)	2/18/2002
CPT-52A	45.44	2/18/2002				
CPT-53	39.04	2/14/2002	34-35	Y	low sample recovery (1 vial only)	2/15/2002
CPT-54	39.86	2/18/2002	38-39	N	dry	2/18/2002
			43-48	N	dry; air emitted from boring	2/19/2002
CPT-54A	52.16	2/18/2002				
CPT-55	31.82	2/22/2002	25-30	N	dry; air emitted from boring, which smelled like methane	2/23/2002
			37-42	N	dry	2/23/2002
CPT-55A	41.99	2/22/2002				
CPT-56	38.39	2/15/2002	31-32	N	dry	2/18/2002
			39-40	N	dry	2/18/2002
			41-46	N	dry	2/19/2002
CPT-56A	46.92	2/15/2002				
CPT-57	61.52	2/19/2002	50-55	N	dry	2/20/2002

Table 3-1 (CONTINUED)
SUMMARY OF
LEGGING AND SAMPLING ACTIVITIES
US EPA
Downers Grove, IL

LOCATION	REFUSAL DEPTH (ft)	LEGGINGDATE	SAMPLE INTERVAL (ft)	WATER RECOVERED?	COMMENTS	SAMPLE DATE
CPT-58	64.14	2/20/2002	39-40	N	dry	2/20/2002
			47-52	N	dry; air emitted from boring	2/21/2002
			61-66	Y	sample integrity questionable due to being a composite sample and vial was filled only a little more than 3/4 full (had headspace)	2/21/2002
CPT-58A	56.27	2/20/2002				
CPT-62	17.06	2/13/2002	26-30	N	dry	2/13/2002
CPT-62A	34.45	2/13/2002				
CPT-62B	19.36	2/13/2002				
CPT-63	51.51	2/13/2002	33-34	Y		2/13/2002
			45-49	Y		2/13/2002
CPT-64	41.50	2/21/2002	22.5-24.5	Y		2/21/2002
			36-41	Y		2/22/2002
CPT-64A	24.44	2/21/2002				
CPT-65	48.56	2/21/2002	12-13	Y		2/21/2002
			46-48	Y		2/21/2002
CPT-65A	41.34	2/21/2002				
CPT-66	56.27	2/21/2002	15-16	Y		2/21/2002
			49-50	Y		2/21/2002
CPT-66A	55.28	2/21/2002				
CPT-67	79.89	2/26/2002	30.5-35.5	N	dry; low recharge and recovery	2/28/2002
			42-43	N	dry; small amount of air emitted from boring	2/26/2002
			77-79	Y		2/26/2002
CPT-68	42.98	3/1/2002	--		no sample taken	
CPT-69	33.79	3/1/2002	--		no sample taken	
CPT-70	40.85	3/1/2002	30-35	N	dry	3/2/2002
CPT-71	43.80	3/1/2002	25-30	Y		3/1/2002
CPT-72	60.53	2/27/2002	47-48	N	dry	2/27/2002
			52-57	Y		2/28/2002
CPT-73	51.51	3/1/2002	--		no sample taken	
CPT-75	30.35	2/14/2002	30-31	Y		2/14/2002
			43-45	Y		2/14/2002
CPT-75A	48.39	2/14/2002				
CPT-76						
CPT-77						
CPT-78	66.60	2/19/2002	55-60	N	dry	2/20/2002
CPT-78A	60.20	2/19/2002				
CPT-79	41.99	2/22/2002	32-35	Y		2/22/2002
			42-44	Y		2/22/2002
CPT-79A	43.96	2/22/2002				
CPT-80	60.20	3/1/2002	65-70	N	dry	3/2/2002
CPT-80A	70.05	3/1/2002				
CPT-81	72.51	2/28/2002	45-50	N	dry; no water sample taken from piezometer due to cross contamination from surface water	2/28/2002
			55.5-60.5	N	dry; no water sample taken from piezometer due to cross contamination from surface water	2/28/2002
EIP-1	42	2/11/2002	38-42	Y	G101	2/12/2002
EIP-2	27	2/12/2002	6-10	Y	G102	2/12/2002
EIP-3	28	2/13/2002	11-15	Y	G103	2/13/2002
EIP-4	34			N		
EIP-5	60	2/19/2002	36-40	Y	G105, G155(DUPLICATE)	2/14/2002
EIP-6	37	2/19/2002	30-34	Y	G106	2/19/2002
EIP-7	25			N		
EIP-8	24			N		
S101				Y	surface water sample	2/5/2002

TABLE 3-2
SUMMARY OF TVA-100
PID/FID AIR MONITORING
U.S. EPA
DOWNERS GROVE, ILLINOIS

DATE	LOCATION	HEADSPACE (hydropunch) (ppm) PID	FID	HEADSPACE (piezometer) (ppm) PID	FID
2/28/2002	CPT-40	0.27	0.45	N/A	N/A
2/19/2002	CPT-41	3	1.2	N/A	N/A
2/28/2002	CPT-42	N/A	N/A	0.12	0.25
2/27/2002	CPT-43	N/A	N/A	0.13	0.17
2/26/2002	CPT-44	0.01	0.01	N/A	N/A
2/27/2002	CPT-45	N/A	N/A	0.06	0.09
2/26/2002	CPT-46	0.18	0.18	N/A	N/A
2/14/2002	CPT-48	N/A	N/A	0.06	0.12
2/15/2002	CPT-49	0.28	0.25	N/A	N/A
2/22/2002	CPT-50	N/A	N/A	0	N/A
2/15/2002	CPT-51	N/A	N/A	1.3	2.8
2/18/2002	CPT-52	0.4	2	N/A	N/A
2/14/2002	CPT-53	0.6	2.4	N/A	N/A
2/18/2002	CPT-54	N/A	N/A	1.9	3.31
2/22/2002	CPT-55	0.26	N/A	N/A	N/A
2/15/2002	CPT-56	N/A	N/A	1.2	3.8
2/19/2002	CPT-57	0.11	1.3	N/A	N/A
2/20/2002	CPT-58	N/A	N/A	0.03	0.08
2/13/2002	CPT-62	0.5	1.2	0.22	0.8
2/13/2002	CPT-63	0.8	2.1	0.9	1.4
2/21/2002	CPT-64	0.02	0.02	N/A	N/A
2/21/2002	CPT-65	0.03	0.03	N/A	N/A
2/21/2002	CPT-66	N/A	N/A	0.11	0.19
2/26/2002	CPT-67	0.01	0.19	N/A	N/A
3/1/2002	CPT-68	0.03	0.1	N/A	N/A
3/1/2002	CPT-69	0.01	0.09	N/A	N/A
3/1/2002	CPT-70	N/A	N/A	0.74	0.91
3/1/2002	CPT-71	0.05	0.14	N/A	N/A
2/27/2002	CPT-72	0.02	0.02	N/A	N/A
3/1/2002	CPT-73	0.05	0.07	N/A	N/A
2/14/2002	CPT-75	N/A	N/A	0.8	1.9
2/19/2002	CPT-78	N/A	N/A	60	78
2/22/2002	CPT-79	N/A	N/A	0	N/A
3/1/2002	CPT-80	N/A	N/A	0.05	0.16
2/28/2002	CPT-81	0.02	0.02	N/A	N/A

NOTE: Readings taken using calibrated TVA-1000 PID/FID Instrument

Table 3-3
Elevation Data
U.S. EPA
Downers Grove, Illinois

Sampling/Logging Location	Easting	Northing	Elevation (Ground)
CPT40	1064845.149	1865983.993	728.059
CPT41	1064831.248	1866247.984	713.523
CPT42	1064820.224	1866523.028	700.175
CPT42	1064820.166	1866523.012	700.130
CPT43	1064809.300	1866863.870	693.007
CPT43	1064809.304	1866863.839	692.993
CPT44	1064772.741	1867307.912	690.058
CPT45	1064787.364	1867553.331	695.955
CPT46	1064808.949	1867922.749	704.976
CPT48	1064073.834	1867725.581	695.503
CPT49	1064080.990	1867350.735	695.179
CPT50	1064044.384	1867145.065	688.830
CPT51	1063519.634	1867119.138	691.028
CPT52	1062752.281	1867092.983	692.725
CPT53	1062490.734	1867082.574	699.794
CPT54	1061650.311	1867101.018	703.392
CPT55	1060965.064	1866554.748	720.481
CPT56	1062104.286	1866654.546	713.531
CPT57	1062088.928	1866071.063	720.210
CPT58	1061876.726	1865712.341	730.626
CPT62	1060914.448	1867583.536	697.306
CPT64	1060870.765	1868034.782	687.205
CPT65	1060868.719	1868278.280	686.656
CPT66	1060835.594	1868617.938	688.011
CPT67	1060871.485	1868853.805	701.411
CPT68	1067646.718	1866022.073	709.345
CPT69	1067636.320	1866460.590	703.343
CPT70	1067622.060	1867083.979	693.442
CPT71	1067619.380	1868011.105	697.734
CPT72	1067817.005	1869111.392	709.097
CPT73	1067663.269	1865382.159	736.155
CPT74	1066024.553	1866745.669	691.211
GP	1060506.707	1867501.675	694.780
GP	1066327.427	1866849.925	697.204
GP	1066193.377	1866810.053	691.346
GP	1065699.223	1866833.040	686.411
GP	1062114.000	1867149.875	703.059
GP	1063532.367	1866039.563	707.672
GP	1063610.296	1865615.979	715.962
GP	1063427.595	1867173.865	689.781
GP	1062546.034	1867494.047	688.564
GP	1062149.610	1867557.569	692.146
GP	1062108.250	1867340.151	697.444
GP	1062113.771	1867149.966	703.039
GP	1062114.780	1867075.917	704.492

Note 1: Elevations are in feet above mean sea level (msl)
Note 2: Northing and Easting are Illinois State Plane Coordinates

Table 4-1
Groundwater CPT VOC Results
U.S. EPA
Downers Grove, Illinois

CPT Location	CPT-40	CPT-41	CPT-41	CPT-42	CPT-42	CPT-43	CPT-43	CPT-43	CPT-44	CPT-46	CPT-48	CPT-50	CPT-51	CPT-52	CPT-53	CPT-58	CPT-63	CPT-63	CPT-64	CPT-64	CPT-65
Sample Depth (ft.)	(40-45)	(34-35)	(53-55)	(45-47)	(30.8-32.8)	(58.5-61)	(40.5-43)	(23-26)	(36-37)	(44-45)	(31.5-32.5)	(43-46)	(36-37)	(37-42)	(34-35)	(61-66)	(33-34)	(45-49)	(22.5-24.5)	(36-41)	(12-13)
Date	3/1/02	2/19/02	2/19/02	2/28/02	2/28/02	2/27/02	2/27/02	2/27/02	2/26/02	2/26/02	2/15/02	2/22/02	2/15/02	2/18/02	2/15/02	2/21/02	2/13/02	2/13/02	2/21/02	2/22/02	2/21/02
Volatile Organic Compounds (ug/L)																					
Acetone	19.3	--	--	2.9	--	12.8	--	--	--	--	--	--	--	10.6	--	14.3	--	--	--	2.5	--
Benzene	--	--	--	--	--	--	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	3.7	--	6.1	--	--	--	--	--	1.4	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	0.62	--	--	3.3	--	--	--	--	--	--
cis-1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	59.1	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--	--	--	3.4	--	--	--	--	--	--	--	--	--
Tetrachloroethane	--	--	--	--	--	--	--	--	--	--	--	2.7	22.4	--	2.7	--	--	--	0.76	--	--
Toluene	--	--	0.52	--	--	--	0.85	--	--	--	--	--	--	--	--	--	0.99 J	--	--	--	--
1,1,1-Trichloroethane	--	--	0.76	--	--	--	--	--	0.77	--	--	--	1.6	--	9.4	--	--	--	--	--	--
Trichloroethane	--	--	--	--	--	--	--	--	1.4	--	--	218	12.6	--	0.81	--	--	--	--	--	--

CPT Location	CPT-65	CPT-66	CPT-66	CPT-67	CPT-71	CPT-72	CPT-75	CPT-75	CPT-79	CPT-79	EB-01	EB-02	EB-03	TB-01	TB-02	TB-03	TB-04	TB-05	TB-06	TB-07	TB-08
Sample Depth (ft.)	(46-48)	(15-16)	(49-50)	(77-79)	(25-30)	(52-57)	(30-31)	(43-45)	(32-35)	(42-44)	na	na	na	na	na	na	na	na	na	na	na
Date	2/21/02	2/21/02	2/21/02	2/26/02	3/1/02	2/28/02	2/14/02	2/14/02	2/22/02	2/22/02	2/13/02	2/13/02	2/28/02	2/13/02	2/16/02	2/20/02	2/21/02	2/22/02	2/26/02	2/28/02	3/2/02
Volatile Organic Compounds (ug/L)																					
Acetone	--	--	--	8.8	--	4.2	--	3.6 J	--	--	--	--	2.6 J	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--	0.52 J	0.55 J	0.51 J	--	0.55 J	0.61 J	0.65 J	0.52 J	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethane	--	--	--	--	--	--	--	--	7.5	1.7	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--	--
Trichloroethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

J -- Estimated or analyte detected below quantitation limit

EB - Equipment blank sample

TB - Trip blank sample

-- - Compound not detected

Table 4-2
Groundwater Geoprobe VOC Results
IEPA
Downers Grove, Illinois

Geoprobe Location	EIP-1 (G101)	EIP-2 (G102)	EIP-3 (G103)	EIP-5 (G105)	EIP-5FD (G155)	EIP-6 (G106)	EIP-9 (G109)	S101*	TB	TB-1	FB
Sample Depth (ft bgs)	38 - 42	6 - 10	11 - 15	36 - 40	36 - 40	30 - 34	35 - 39	na	na	na	na
Sample Date	02/12/02	02/12/02	02/13/02	02/14/02	02/14/02	02/19/02	02/20/02	02/21/02	02/14/02	02/21/02	02/14/02
Volatile Organic Compounds (ug/L)											
Acetone	--	--	--	--	--	4 J	4 J	6	--	2 J	--
Methylene Chloride	0.2 J	0.2 J	0.3 J	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	0.7 J	--	--	--	--	--	--	--	--
2-Butanone	--	--	--	--	--	--	0.7 J	--	--	--	--
Chloroform	--	--	--	--	--	--	0.2 J	0.8	--	--	--
1,1,1-Trichloroethane	0.2 J	--	0.4 J	--	--	--	0.8	--	--	--	--
Benzene	--	--	--	--	--	0.2 J	--	--	--	--	0.8
1,2-Dichloroethane	--	--	--	--	--	--	2	--	--	--	--
Trichloroethene	--	--	--	--	--	--	6	--	--	--	--
Bromodichloromethane	--	--	--	--	--	--	--	0.4 J	--	--	--
Toluene	--	--	0.2 J	--	--	0.7	0.4 J	--	--	--	2
Tetrachloroethene	--	--	--	0.3 J	0.3 J	0.5 J	0.6 J	0.2 J	--	0.2 J	--
Xylenes (total)	--	--	--	--	--	--	--	--	--	--	0.9

FD - Field duplicate sample
* - Surface water sample location
J - Indicates and estimated value
TB - Trip blank sample
FB - Field Blank sample
-- - Compound not detected

APPENDIX A

SITE HISTORICAL SUPPORTING INFORMATION

BACKGROUND INFORMATION
FACILITIES

Downes Grove Site- Ellsworth Industrial Park Facility Summary

Facility Name/ Company Contact	Facility Address	Description of Activities	Response to IL/EPA Questionnaire	CERCLA	RCRA	EPA ID No.	UST	LUST	SRP	Chemicals Reported	Estimated Chemical Quantities	Previous Investigations	Investigation Findings	Building Occupation	Previous Owner(s)	Questionaire	EDR
Ames Supply Co. Ralph Kuenigsman (630) 363-0630	2537 Curtiss St. (IEPA Survey- Recently moved to 1936 University Ave, Lisle, IL)	Re-selling packaged supplies. Wholesale distributor to the office machine dealer industry. (copiers, typewriters, etc.)	Yes - Many Responses were previously addressed in their response to Subpoena from the State of IL vs. Lockformer (3/21/01)		LQG	ILD005163811				1,1,1- Trichloroethane 1,1,2-Trichlorotrifluoroethane Methylene Chloride Trichloroethylene Chlorodifluoro Methane IEPA Survey-Yes Chlorinated chemical user	Ames used to sell the following products that contained various % of the chemicals of concern (invoices for these products were not provided with the response to IEPA's questionnaire): - HL Platen Cleaner (50% Trichloroethylene) - Kleen-All Heavy Duty Degreaser (79-84% 1,1,1-Trichloroethane, 15-20% Chlorodifluoro methane) - AGS-0 Degreaser (90% 1,1,1-Trichloroethane) - AGS-5 Power Cam Roll Cleaner (72% 1,1,1-Trichloroethane) - AGS-15 Print Wheel Cleaner (66% 1,1,1-Trichloroethane) - AGS-30 All Purpose Oil and Cleaner (60% 1,1,1-Trichloroethane) - AGS-100 Office Machine Oil (92% 1,1,1-Trichloroethane) - AGS Non-Fluid Oil (92% 1,1,1-Trichloroethane) - Flux Stripper (60-65% 1,1,1-Trichloroethane) - Flux Stripper and Defluxer (40-45% 1,1,2-Trichlorotrifluoroethane, 40-45% Methylene Chloride) Ames used the following chemicals that contained various % of the chemicals of concern (invoices were provided for these products with the response to IEPA's questionnaire): - SK-105 Solvent (?? % of Chemicals of Concern, MSDS included with response was not complete) - Chemlok 233 (33% Trichloroethylene) - Approximately 13 gallons from 1998-2000 - Tapmatic #1 Cutting Fluid (84 5% 1,1,1-Trichloroethane, 9 5% Chlorinated paraffin) - Approximately 1.5 gallons ordered in 1998 - Carb-Sol Solvent (100% Trichloroethylene) - Approximately 80 gallons delivered from 2/17/00 - 8/14/00. Copies of Manifests indicate the following: - 4/14/93 - 1 drum of F001 waste - ??/??/?? - 30 drums of 1,1,1- ?? - 2/20/01 - 4 drums of F001/F005 waste	1/31/00 - Phase I ESA 7/31/01 - Phase II Subsurface Soil Investigation Report 9/14/01 - Expanded Scope of Phase II -	Heavy staining observed around compressor as well as 55-gallon drums containing oil. Observed what appeared and smelled like remnants of chlorinated solvent within expansion joints located in concrete floor throughout manufacturing/ warehouse area. 3 soil borings, 1,1,2,2-Tetrachloroethane detected at 0.78 mg/kg in one sample. Tetrachloroethene detected in 3 samples (0.005 - 0.033 mg/kg) and 1,1,1-Trichloroethane detected in 2 samples (0.008 - 0.035 mg/kg).	Ames sole tenant from 1970 - 2000 IEPA Survey- tenant for 39 years. Owner is White Lake Corp. Ames moved to 1936 University Ave. (unit C) in Lisle, IL.			FINDS
Arrow Gear Co. Dave Reis (630) 969-7640	2301 Curtiss St.	Gear Manufacter Company. Aircraft gear production.	Yes		SQG	ILD005075205	X	X - 1993 (non-petroleum product)		F001, F009, TCE	171 gallons/ annually. IEPA Survey-chlorinated solvents used prior to 1984, PCE.	1996- Phase 1	TCE Spill- Leak from drum delivered. Elevated levels of TCE from well adjacent. Drainage pipes run to creek.	Owner (37 years- original owner)			FINDS
Bales Mold Service Steve Bales (630) 852-4666	2824 Hitchcock Ave	Refinish plastic injection mold coating to the plastic industries.	Yes		SQG	ILD018214981				TCE. IEPA Survey- PCE (vapor degreaser) HCL HNO3.	Three 55 gallon drums/annually 2001			Owner (16 years)			FINDS
Bison Gear	3850 Ohio Ave. St. Charles, IL 60174															Full	
Burnside Construction (formerly Suburban Self Storage 1971-1994) Jack Swanson (630) 964-8622	2400 Wisconsin St.											104E/ 2002					
C&C Machine Tool Service, Inc. Merle Capas (630) 810-0484	5024 Chase Ave IEPA Survey- formerly located at 5018 Chase ave.	Electrical Rebuild and recondition of housing and equipment for printing presses.	Yes		SQG	ILR000040535				No Chlorinated Solvents. IEPA Survey formerly located at 5018 Chase ave. Generate D039, D001, D040, F003, F005, F007.	IEPA Survey- Generate a waste form cleaning spray guns contain approx. 0-1% by weight of TCE and PCE.			tenants since 9/1995 (owner Ned Lopata-Chase Belmont Properties)		Full	FINDS
Contemporary Controls	2431 Curtiss St.	Design and manufactory industrial networking products for pc.	No		SQG	ILD981101389								CC has leased property for 2.5 years. Previously the property was occupied by Lovejoy Inc. - Gear Division. CC operated at 2733 Curtiss St. from 1985 1987 and at 2512 Wisconsin St. from 1988 - 1997.		Full	
Contemporary Controls George Kornus (630) 963-7070	2431 Curtiss St.	Design and manufactory industrial networking products for pc.	NO							IEPA Survey- No chlorinated solvents. Degreasers discontinued in 1987.				Tenants (Arrow Gear Co.-Owner)		Full	
CVP Systems Greg Keller (630) 952-1190	2514-18 Wisconsin St.	Assemble vacuum packaging equipment for the food industry.	NO		SQG	ILD984789776				IEPA Survey- None. Used Safety Kleen Parts washer about 7 yrs ago.		104E 2002	Did not and does not use chlorinated solvents.	Tenants (13 Years)		Full	FINDS
* Downers Grove Public Wells #6 & #8	N/A	Both wells while in operation draw water from the Silurian dolomite aquigroup & serviced Downers Grove, Westmont, Darien & other villages. Well # 6 Installed in 1928 to a depth of 200' Well # 8 Installed in 1950 to a depth of 400' - plugged in December 1990 Began using water from Lake Michigan in 1992		SI						Methylene Chloride Dichloroethylene Chloroform 1,1,1-Trichloroethylene Trichloroethane Tetrachloroethylene Dichlorobromo methane Chlorodibromo methane Bromoform		7/10/85 - Sampling event of well nos. 6,7,8,11,12,14 7/23/86 - Follow up testing of wells 5 & 8 07/8/87 - Resample of Well # 6 8/11/87 - Sample from St. Joseph's Creek 04/88 - Site Inspection Work Plan for PW #6 4/88 - Site Inspection Work Plan for PW # 8 IEPA Quarterly Sampling Results for Well # 6 IEPA Quarterly Sampling Results for Well # 8 IEPA Quarterly Sampling Results for Well # 10	Sampling results indicated the following: Methylene Chloride - 4.3 ppb in well # 6, .2 ppb in well #8 Dichloroethylene - .2 ppb in well # 6 Chloroform - .2 ppb in well # 6 1,1,1-Trichloroethylene - 4.5 ppb in well # 6, .2 ppb in well #8 Trichloroethane - 11.7 ppb in well #6, .2 ppb in well #8 Tetrachloroethylene - 3.6 ppb in well # 6, .2 ppb in well #6 Sampling results indicated the following in Well #8: Tetrachloroethylene - 3 ppb Dichlorobromo methane - 2 ppb Chlorodibromo methane - 3 ppb Bromoform - 1 ppb Sample results indicated: TCE - 7 ppb PCE - 3 ppb 1,1,1-Trichloroethane - 1 ppb Sample results indicated TCE at 29 ppb Collected 3 Groundwater Samples and 2 Surface Water Samples - no sampling results provided Collected 3 Groundwater Samples and 1 Surface Water Samples - no sampling results provided 12/11/86 - Trichloroethylene - 5 ppb; Tetrachloroethylene 4 ppb; 1,1,1 - Trichloroethane - 2 ppb 5/12/87 - Trichloroethylene - 5 ppb; Tetrachloroethylene 2 ppb 7/1/87 - Trichloroethylene - 7 ppb; Tetrachloroethylene 3 ppb; 1,1,1 - Trichloroethane - 1 ppb 4/19/88 - Trichloroethylene - 2 ppb; Tetrachloroethylene 1 ppb 8/15/88 - Trichloroethylene - 4 ppb; Tetrachloroethylene 2 ppb 10/3/88 - Trichloroethylene - 4 ppb; Tetrachloroethylene 2 ppb 7/1/87 - ND 8/15/88 - ND 4/19/88 - Trichloroethylene - 1 ppb; Tetrachloroethylene 4 ppb; 1,1,1 - Trichloroethane - 2 ppb 8/15/88 - Tetrachloroethylene 3 ppb; 1,1,1 - Trichloroethane - 2 ppb 10/3/88 - Tetrachloroethylene 4 ppb; 1,1,1 - Trichloroethane - 2 ppb					
Downers Grove Sanitary District Sheila Herschel (630) 969-0664	4909 Walnut Ave	waste water treatment plant	No			ILD000072071											
Dyna Gear, Inc. Tom Gust (630) 969-1739	2500 Curtiss St.	After Market and Original Manufactory equipment gear-timing chain manufacture. Automotive gears.	Yes		SQG	ILD039516107					From 1989 BRS - Generated approx. 1,059 gal of F001 waste	Phase 1 Now/2001	Witness a container of cutting oil dripping being dumped into creek by an individual on the Dynagear property.	Owner (5 yrs at this location)			FINDS
Econo-Temp, Inc. Steven Graves (630) 963-8080	5280 Belmont Rd	Heating and Cooling (former Occupant- Molex, Inc. and prior was Liberty Wire)	yes/ not a lot		SQG	ILD984914135				Freon				Owner (10 years) Liberty Wire operated during 1950s - 1980s, had 2 USTs removed w/ contamination. Foote Jones Co. handled TCE, had a history of disposing chemicals and drums in the creek. Former Employee John B. 4824 Cornell, Downers Grove, 968-1343). Highview Subdivison located at Maple and Belmont had problem with TCE in municipal well in 1992. Contact Gene Wilson, 1945 Wisconsin, Downers Grove, 630-852-7039		Full	FINDS

13 March 2002

Downes Grove Site- Ellsworth Industrial Park Facility Summary

Facility Name/ Company Contact	Facility Address	Description of Activities	Response to IL/EPA Questionnaire	CERCLA	RCRA	EPA ID No.	UST	LUST	SRP	Chemicals Reported	Estimated Chemical Quantities	Previous Investigations	Investigation Findings	Building Occupation	Previous Owner(s)	Questionaire	EDR
Flexco Flexible Steel Lacing Co. Curtis Albrecht (630) 971-0160	2525 Wisconsin St.	manufactures conveyor belt fasteners and belt products	Yes		LQG	ILD005094230				TCE	400 gallons/year 1984; 880 gallons/ 1983, 690 gallons 1985 IEPA Survey- Used TCE until 1990			Owner (30+ years)			FINDS
Foote-Jones/Regal-Beloit	2102 N. Natchez Chicago, IL 60635	Formerly located at either Arrow Gear or Econo Temp address														Full	
Grove Automotive, Ltd. Tom Tweedy (630) 241-2626	5103 Belmont Rd	Auto Repair - Parts Cleaning fluid stored inside building and drum hauled away by Safety Kleen	Yes											Tenants - Been at location 41 yrs 1966-Present Owned by Glen & Christine Blum	Carl Blum (1950-1966) Burks Carbonic (1966-1982) Grove (1982-Present)	Full	
Hahn Graphics, Inc. Chris Wagner (630) 964-6122	5023 Chase Ave	Off-Set Printing	Yes							IEPA Survey- Safety Kleen 105 solvent. Contains Tetrachlorethene at 0 to 0.29% (by weight)				At location since 1987. Tenants (owner Ned Lopata-	Unknown Computer Company	Full	
J.L. Clark	Atlas II Division 2300 S. 6th Street Rockford, IL 61125															Full	
Joe Madden Ford - Body Shop **Gary McCann (630) 862-2268**	5126 Walnut Ave.	Auto body shop comprises an automotive service and body repair shop. Operates 2 paint spray booths & a paint mixing room	Yes		SQG		X	X		Waste Material	5 gal/annually	SA	Results available thru Auto Nation (business owner). Property was owned by Global Fire. SA conducted during that time. Contact Jim Wachnin at Joe Madden Ford on Ogden Ave.	Owner (13 Years)	Facility vacant until 1998 1988 - Maintenance & body repair shop constructed		FINDS
												Phase 1 (11/22/99)	Found 6 empty overturned 55-gallon drums adjacent to fence along northern property boundary. One of which was labled "used oil". Surface staining and stressed vegetation observed. An additional 4 empyt, overturned 55-gallon durms approximatlye 30-feet east of other 6 drums. One of which was labled "lequer". Rust and staining observed around 11, 55-gallon and 30-gallon drums stored inside and outside of the body shop buildings. Small stains and evidence of fresh drips in by ship building and stains observed on paint mixing room floor.				
												Phase II (12/6/00)	Collected soil samples. No contamination in several areas of the building that were tested above applicable corrective action or clean-up target levels for potable groundwater.				
Ketone Automotive Inc. Mike Curry (630) 862-9607	4935 Belmont Rd	Retailer of paint and paint related materials. Former Occupant-Auto body shop	No			ILD984921353				IEPA Survey- response "no chlorinated chemicals"				Tenants		Full	FINDS
Liberty Copper c/o Magna Tek, Inc.	427 E. Stewart Milwaukee, WI 53207-1200															Full	
Liberty Copper & Wire c/o Litton Systems, Inc.	1725 Jefferson Davis Hwy Suite 601, Crystal Square Two Arlington, VA 22202-3285															Full	
Lovejoy, Inc.	2655 Wisconsin Avenue Downers Grove, IL 60515	Machine and Manufacture power transmission couplings								methylene chloride		samples collected 3/20/92 10/E/ 2002	elvated levels of metals. TCE/PCE bdl.	Tenants-since 1971		Full	
Magnatrol International, Inc. Joseph Fielder (630) 719-6120	5300 Belmont Rd.	Manufacturing facility that purchases paints, solvents and chemicals to be used in the manufacture of level and flow controls and/or maintenance of the facility. (former Occupant- Scheub Engineering: manufactured boiler systems)	Yes		LQG	ILD069824684				1,1,1-Trichloroethylene Magnetrol has not purchased or used chlorinated solvents since prior to 1995.	From manifests: 1980 - 8505 gal, 1981 - 1,460 gal, 1982 - 2,050 gal, 1983 - 2,320 gal, 1984 - 800 gal, 1985 - 2,129 gal, 1986 - 923 gal, 1987 - 684 gal, 1988 - 1,390 gal, 1989 - 800 gal, 1990 - 1,455 gal, 1991 - 1,855 gal, 1992 - 180 gal, 1995 - 55 gal, 1996 - 55 gal. From 1989 BRS - Generated approx. 800 gal of F001 waste.	1998 - Phase I	Hazardous material storage room had oil saturated absorbent material on the floor. Staining noted on NW portion of the floor, near rolling door. - A 1,1,1 - Trichloroethylene degreaser was formerly used on site which had a 500 gallon AST associated with it. Approximately 6-8 55-gallon drums were emptied and replaced each year and an additional 3 drums were replaced over the course of the year. - A floor drain in the basin of the shipping/receiving docks empties to the storm sewer. Storm water runoff is north towards St. Joseph's Creek.	Magnetrol owned property since 2/11/78 Scheub Engineering owned property since 1961-1978			FINDS
Maple Plaza Cleaners Suna Kuao (630) 852-7670	2261 Maple Ave.	Dry cleaner service - has 1 dry-to-dry unit that uses PCE	No		SQG	ILR000051912				PCE (safety-kleen picks up used PCE)	5 gallons/ month From Invoices: 10/14/99 - 1 drum of PCE, 5/20/99 - 1 drum of PCE, 1/10/00 - 1 drum of PCE	Site Inspection (7/14/98)	Drilled inside and outside near rear door - found no evidence of contamination underground	Tenants - Leased from Inland			FINDS
Molex Inc. George Burman (630) 512-8787	5225 Walnut Ave.	Metal Plating and injection molding operations as part of the manufacture of electric and electronic connectors.	Yes		LQG		X	X		TCE, F001	5,000 gallons 1991, 9,000 gallons 1992	EDR	Reports 1-2,500 gallon mineral spirits UST on site. IEPA Survey- Tank pull at this location 3 years ago. Contaminated mineral spirits. Soil tested & remediated. Use isopropalalcohol, acetone.	Owner (12 years) Last two years fiber optics. Previous 10 years warehouse		Full	FINDS
Molex Inc. John Sprewak (630) 512-8787	5224 Katrine Ave.						X	X		IEPA Survey- No chlorinated solvents.				Owner (37 Years)		Full	
Morey Corp (former) Fred Pfeiffer (630) 784-2100	2569 Wisconsin St.	Manufacture of small electrical components. Printed circuit boards. No plating. Site operations involved the storage of misc. liquid wastes in a small, dedicated room along the eastern wall of the property. The waste primarily consisted of cleaning solvent and soldering by-products.	Yes - Requested more time, only submitted partial response. Much of information included from response to Subpoena for State of IL vs. Lockformer (5/21/01)		SQG	ILD025415266			X	Trichloroethylene Tetrachloroethene Trichloroethene Vinyl Chloride cis 1,2-Dichloroethene trans 1,2-Dichloroethene 1,1-Dichloroethene Methylene Chloride 1,3-Dichlorobenzene 1,4-Dichlorobenzene	MSDS - Synthetic Wax Dispersion (55-65% Trichloroethylene)	5/9/00 - Phase I	Indicated 2 Areas of potential concern: 1) The clay potting compound mixing area inside of the building contains evidence of spilled materials and structural degradation of the underlying concrete floor; 2) An area exterior to the building in which a drain leading fro the chemical & waste storage area exits through the wall. There was evidence of stressed vegetation within this area, indicating chemical spills.	Property sold in 1/01 to Ross A. and Barbara R. Johnson Montgomery Ward used to lease a portion of the property for parking. Firm moved to Bolingbrook.			FINDS
												5/18/00 - Phase II Subsurface Investigation	ENMARC was requested to collect samples from the exterior area following a release of flux thinker from the drain to the outside of the building. Morey had already excavated a 3'x3'x4' area and wanted to ensure that all contamination was removed. A sample collected from the bottom of the excavation indicated elevated levels of tetrachloroethene, trichloroethene and vinyl chloride.				
												6/2/00 - Expanded Phase II Investigation	7 borings completed. Highest impact is located at the bottom of the concrete stoop located immediately adjacent to the unloading dock area. It appears that releases of contaminants from the drainage pipe would follow the topography of the ground surface and flow towards this area. Materials appear to have accumulated at this location and infiltrated into the ground. Tetrachloroethene results ranged from 0.147 - 220.8 ppm, Trichloroethene results ranged from ND - 5.96 ppm, Vinyl Chloride results ranged from ND - 0.116 ppm, 1,3-Dichlorobenzene results ranged from ND - 2.72 ppm, 1,4-Dichlorobenzene results ranged from ND - 2.67 ppm, cis 1,2-Dichloroethene results ranged from ND - 8.74 ppm, trans 1,2-Dichloroethene results ranged from ND - 0.118 ppm and Methylene Chloride results ranged from ND - 0.0124.				
												11/8/00 and 1/23/01 - Focused Site Investigation by Pioneer Environmental	Purpose to determine the nature and extent of contamination and then use the regulatory options in the SRP to obtain an NFR Letter. The remediation site consisted of approximately 1,200 sq. ft. in the east-central portion of the property. Additional assessment work in connection with the focused site investigation and remedial action completion report dated 11/8/00, which was submitted to the State Voluntary Remediation Program. A total of 17 Soil Borings were collected and sample results indicated the following ranges: Tetrachloroethene ND - 110 ppm, Trichloroethene ND - 8 ppm, Vinyl Chloride results ranged from ND - 0.46 ppm, cis 1,2-Dichloroethene ND - 3.3 ppm, trans 1,2-Dichloroethene ND - 0.91 ppm 1,1-Dichloroethene ND - 0.18 ppm and Methylene Chloride ND - 0.40.				
												2/14/01 - NFR Letter received from IEPA					
Precision Brand	2250 Curtiss St.															Full	
Rexnord Corp Charlie Lawhon (630) 969-1770	2324 Curtiss St.	Manufacture composite bearings.	Yes/ Subpoena from Lockformer		SQG	ILD980825301				TCE. IEPA Survey- used chlorinated solvents prior to 1990 (Methylene Chloride).	4 drums/annually; 700 gallons	104E/ 2002	Never used TCE/PCE. 1981-1990 used approx. 20 gallons of methylene chloride per month. Never generated waste, methylene chloride evaporated. Subsequently switched to non-chlorinated solvents. (acetone/ dimethyl ester).	Owner (20+ years at this location). ComEd Maintenance Buildings formerly occupied property.		Full	ERNS FINDS
Rexnord Corp Rudolph Aluys, Jr (630) 969-1770	2400 Curtiss St.	Manufactures industrial and aircraft rolling element bearings.	Yes/ Subpoena from Lockformer		LQG	ILD005455571				F001. IEPA Survey-use PCE. Formerly used TCE until 1980s.	From 1993 BRS - Generated approx. 350 gal of F001 waste. From 1995 BRS - Generated approx. 2,555 gal of F001 waste. From 1997 BRS - Generated approx. 165 gal of F001 waste. From 1999 BRS - Generated approx. 220 gal of F001 waste.	104E/ 2002	1989-1993: small quantities of TCE for degreaser. Detrex/ Coleman/ Chemcentral invoices-purchased 4 drums per month and 2 drums sent offsite for recycling. They use total enclosed vapor degreaser. Soil excavation summary report (1/93)- Cadmium 11.8-388 ppm. 3,000 gallon ust leak-cutting oil (3/95)	Owner (40+ yrs at location) original at location.		Full	FINDS
Scot, Inc. Randall Siapoch (630) 969-0620	2525 Curtiss St.	Operates an engineering/Manufacturing firm-producing propellant and explosive actuated devices for military aircraft, missiles and space vehicles.	Yes		SQG	ILD087530845	X			F001. IEPA Survey-formerly used TCE.	10 gallons/annually	Phase I and II	TCE user-stored in storage room. Stained asphalt outside south side of building. Storage room has a patched drain in center floor, which leads outside to wet side building. The endpoint is visible at surface and discharges directly onto the surface soil. Soil samples collected during phase II (238ppb PCE) (11.2 ppm/ PID reading)	Owner (43 years)			FINDS
Suburban Self Storage (formerly Liberty Copper and Wire Company 1961-1988) Jack Sorenson (630) 964-6622	2333 Wisconsin St.	Self Storage Facility	Yes	SI - NFRAP	CORRACTS SQG	ILD047033188	X	X		Toluene, Xylene, Cresylic acid, Methanol	1988-28,280 gal.; 1987-2,200; 1985-1320gal; 1989-880gal (F003)	EDR, Visual SI 3/93 104E/ 2002	EDR identified 3-4,000 gallon and 1-5,000 gallon Hazardous Substance USTs that have been closed. CERCLA-soil contamination; 57,100ppm xylene.	Liberty Copper and Wire occupied property from 1960 - 1986		Full	FINDS

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Downes Grove Site- Ellsworth Industrial Park Facility Summary

Facility Name/ Company Contact	Facility Address	Description of Activities	Response to IEPA Questionnaire	CERCLA	RCRA	EPA ID No.	UST	LUST	SRP	Chemicals Reported	Estimated Chemical Quantities	Previous Investigations	Investigation Findings	Building Occupation	Previous Owner(s)	Questionaire	EDR
Tricon Industries, Inc. Cullen Kline (630) 963-0220	5000 Chase Ave (previous address 2211 Curtiss)	Manufacturer of insert injection molded componentry. As a supplement to the plastic molded parts, employ metal stamping, assembly, plating and finishing operations.	yes/ not a lot		LQG	ILT180019879				PCE	1989 4025 gallons F001. Approx 1400 lbs PCE every two months (IEPA survey)	From Magnetrol Phase I	Tricon uses large quantities of Tetrachloroethyene. 10,992 lbs (1987, 88, 89, 90, 91, 92)	Tenants (Lopatar & CO owner)			FINDS
Tricon Industries, Inc. Larry McDaniel (630) 964-2330	2325 Wisconsin St.	Manufacturer of insert injection molded componentry. As a supplement to the plastic molded parts, employ metal stamping, assembly, plating and finishing operations. (90% for automotive market)	yes/ not a lot		SQG	ILD005084124				Perchloroethylene 1,1,1-Trichloroethane	From manifests PCE - 1983 - 250 gal; 1984 - 450 gal; 1985 - 1,047 gal; 1986 - 825 gal; 1987 - 645 gal; 1988 - 620 gal; 1989 - 1,150 gal; 1990 - 610 gal; 1991 - 440 gal; 1992 - 150 gal; 1993 - 250 gal; 1994 - 220 gal; 1995 - 315 gal; 1996 - 550 gal; 1997 - 306 gal; 1998 - 220 gal; 1999 - 358; 2000 - 470 gal; 2001 - 55 gal 1,1,1-Trichloroethane - 1983 - 70 gal; 1984 - 50 gal; 1985 - 55 gal; 1986 - 55 gal; 1987 - 55 gal; 1989 - 250 gal From Invoices 1992 - 1997 for PCE: 1992 - 10 drums; 1993 - 11 drums; 1994 - 11 drums; 1995 - 12 drums; 1996 - 13 drums; 1997 - 9 drums			Owner (30+ years)			FINDS
Universal Fire Protection John Cichon (630) 963-0001	5006 Walnut Ave.	Fabricate Sprinkler System for fire protection.								IEPA Survey- No Chlorinated chemicals used. Use-Cutting oil which is a mineral oil w/ chlorinated paraffin.				Owner (17 years)			

*** Included for reviewing purposes.**
Not a facility. Not categorized.

CERCLA- *Comprehensive Environmental Response, Compensation, and Liability Act*
NFRAP- No Further Remedial Action Planned
SI- Site Investigation
RCRA- Resource Conservation and Recovery Act
UST- Underground Storage tank
LUST- Leaking Underground Storage Tank
ERNS- Emergency Response Notification System
SRP- Site Remediation Program
SQG- Small Quantity Generator
LQG- Large Quantity Generator
EDR- Environmental Data Resources
FINDS- Facility Index System
CORRACTS- Corrective Action

Priority Categories:
Red- High
Blue- Medium
Black- Low
Green- More Information Needed

BACKGROUND INFORMATION MATRIX
PREPARED BY
IEPA

had a 475 gal Tank

WASTE

YEARS	80	81	82	83	84	85	86	87	88	89	90	91
LIBERTY COPPER						F001 – 2246	F001 – 789					
KOLNO TEND / MOLEX												
MAGNATROL (475)	TCE – 2145 dispos	TCE / TCA – 3485	TCA / TCE 2050	TCA – 2370	TCE – 500 TCA – 100	TCE – 1475 TCA – 654	TCE – 312 TCA – 477	TCE – 250 TCA – 437	TCE – 905 TCA – 335	TCE – 405 TCA – 345	TCE – 1050 TCA – 315	TCA – 1845
TRICON			0	PCE – 250 TCA – 70	PCE – 450 TCA – 50	PCE – 1047 TCA – 55	PCE – 825 TCA – 55	PCE – 645 TCA – 55	PCE – 620	PCE – 430 TCA – 50	PCE – 810 TCA – 105	PCE – 440
ARROW GEAR	TCE – 100		TCE – 210 F001 – 2050		TCE – 235		TCE – 155	TCE – 126	TCE – 183	TCE – 308	TCE – 81 MC – 45	TCE – 85 MC – 100
REXNORD	F001, 2, 3, 5, 10, 17, D006 – 43,500		F002, D006 – 47,000		F001 – 50	F001 – 500	F001 – 850	F001 – 1000	F001 – 700	F001 – 440	TCA – 55	TCA – 95 F002 – 55
87 – 2733 Curt 89 – 2500 WIS. CONT CONTROLS								F001 – 100		F001 – 95		
DYNAGEAR												
SCOTT	D001 3300	→	→	→	→	0		F001 –				
AMES								TCA – 100				
FIREX (500)		TCE BLACO (TROM)	F001 – 2850	F001 – 1600	F001 – 1736	F001 – 335	F001 – 120					
BISON GEAR (254)	1976 – TCA						D001 – 2213	D001 – 1203	D001 – 1509	F001 – 660 (TCA)		
FLEXIBLE STEEL (254)		TCE – 2959	TCE – 1480	TCE – 550	TCE – 700	TCE – 690	TCE – 850	TCE – 1000	TCE – 895	TCE – 990	TCE – 1190	TCE – 1415
MOREY CORP					F001 – 370	F001 – 450 PCE – 70	F001 – 245 TCE – 50	F001 – 360	F001 – 100	F001 – 300 TCE – 165	F001 – 210	TCTFA – 275
MOLEX	TCA – 0	TCA – 0	TCA – 0		0	0	0	0	0	0	0	PCE – 295
ATLAS TUBE		ACETONE MEK		F003 – 1100	F003 – 825	F003 – 880	F003 – 1925	F003 – 1805	D001 – 2145	F003 – 1210	F003 – 1510	
PRECISION BRAND	TCE											
LOVEJOY (100)									F002 – 350			
LINDY					TCE – 350						TCE – 290	TCE – 210

DISPOSAL COMPANY

	80	81	82	83	84	85	86	87	88	89	90	91
LIBERTY COPPER		ortek	ortek	LARAMAY		SK-1	SK-1					
ECONOTEMP / MOLEX												
MAGNATROL	NE / BB (Baron + Blakely)	USE / BB	BB	FISHER CALO EN	BB SK-1	(Safety Kleen) SK-1	SK-1	SK-1	SK-6	SK-6	SK-6	EWS SK-6
TRICON				ACS	ACS	ACS	ACS	ACS	ACS/BB	ACS/BB	ACS Auganic	Auganic
ARROW GEAR		BB	BB		BB		BB	BB	BB	BB	BB	BB
REXNORD	CID	WMoI	WMoI CID	chem-clean	BB	BB	BB	BB	BB	BB	SK1 / EWR	SK6 / Auganic
CONT CONTROLS / LOVEJOY								BB		BB		
DYNAGEAR											BO	BO
SCOTT			AWP	AWP		NO SHIPMENT O	WASTE RESEARCH & reclamation W/		EWR			
AMES								ACS				
BALES MOLD												
BISON GEAR						chem-clean	SK-1	SK-1	SK-6	SK-6		
FLEXIBLE STEEL	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	SK-1 BB
MOREY CORP				BB	BB	BB	BB	BB	BB	SK6 / BB	BB	BB
MOLEX		BB	BB			SK-1	SK-1	SK-1	SIP1	SK-6	SK-6	SK-2 SK-6
ATLAS TUBE			ACS	ACS	ACS	ACS	ACS Auganic		Auganic	Auganic	Auganic	
PRECISION BRAND												
FIRE-X	[illegible]	BB	BB	BB	BB	BB	BB					
LOVESCY LINDY					BB		BB	EWR	EWR		BB	BB

BERTY COPPER	ACETONE, TOLUENE, XYLENE, METHENOL, CRESYLIC,
ONO TEND / MOLEX	
AENATROL	TCE, TCA
RICON	PCE, TCA
ARROW GEAR	TCE, MC
REYNORD	STODDARD, MC, TCA, TCE (PCE)?
ONT CONTROLS / LOVEJOY	
DYNAGEAR	
SCOTT	TCE, PCE, TCA
AMES	TCE, MEK, ETHYL ACETATE
FIRE X	TCE, BLACO (TROM)
BISON GEAR	TCA
FLEXIBLE STEEL	TCE
MOREY CORP	PCE, TCE, DCE
MOLEX (KAT)	TCA
ATLAS TUBE	ACETONE, MEK
PRECISION BRAND	TCE
LOVEJOY	
LINDY	

SYNONYM LIST
FOR CHEMICAL COMPOUND

List of Most Commonly Used Chlorinated Solvents and Their Breakdown Products

Chemical Name	CAS No.	Synonyms	
Tetrachloroethylene	127-18-4	1,1,2,2-Tetrachloroethylene	Perclene d
		Ankilostin	Perclene
		Antisol 1	Percosolve
		Carbon dichloride	PERK
		Didakene	Perklone
		Dowper	Persec
		Ethylene tetrachloride	Tetlen
		Fedal-un	Tetracap
		ISOFORM	Tetrachloroethene
		Nema	Tetrachloroethylene
		PCE	Tetraleno
		PER	Tetralex
		Perawin	Tetravec
		PERC	Tetrochloroethane
		Perchlor	Tetroguer
		Perchloroethylene	Tetropil

Chemical Name	CAS No.	Synonyms		
Trichloroethylene	79-01-6	1,1,2-trichloroethene	Ethylene trichloride	Trial
		1,1,2-Trichloroethylene	Fleck-flip	Triasol
		1,1-dichloro-2-chloroethylene	Flock flip	Trichloran
		1,2,2-trichloroethylene	Fluate	Trichlorathane
		1-chloro-2,2-dichloroethylene	Gemalgene	Trichloren
		Acetylene trichloride	Germalgene	Trichloroethene
		Algylen	Lanadin	Trichloroethylene (TCE)
		Anamenth	Lethurin	Triciene
		Benzinol	Narcogen	Tri-Clene
		Blacosolv	Narkogen	Trielene
		Blancosolv	Narkosoid	Trieline
		Cecolene	Nialk	Triklone
		Chlorilen	Perm-a-chlor	Trilene
		Chlorylea	Perm-a-clor	Triline
		Chlorylen	Petzinol	Trimar
		Chorylen	Philex	Triol
		Circosolv	TCE	Tri-plus
		Crawhaspol	Threthylene	Tri-plus m
		Densinfluat	Trethylene	Vestrol
		Dow-tri	Tri	Vitran
		Dukeron	Triad	Westrosol
		Ethinyl trichloride		

List of Most Commonly Used Chlorinated Solvents and Their Breakdown Products

Chemical Name	CAS No.	Synonyms	
Methylene Chloride	75-09-2	Aerothene MM	Methylene dichloride
		DCM	Narkotil
		Dichloromethane	Plastisolve
		Freon 30	R 30
		Methane dichloride	Refrigerant 30
		METHYLENE CHLORIDE (DICHLOROMETHANE)	Solaesthin
		Methylene chloride	Solmethine

Chemical Name	CAS No.	Synonyms	
1,1,1-Trichloroethane	71-55-6	1,1,1-	Chlorothene
		1,1,1 tce aerothene tt	Methyl Chloroform
		1,1,1-TRICHLOROETHANE (METHYL CHLOROFORM)	Methyltrichloromethane
		1,1-Trichloroethane	Solvent 111
		Alpha-trichloroethane	Trichloroethane,
		Chlorothene NU	Tri ethane
		Chlorothene VG	

Chemical Name	CAS No.	Synonyms	
Carbon Tetrachloride	56-23-5	Benzinoform	Perchloromethane
		Carbon chloride	r 10 (refrigerant)
		Carbon tet	R 10
		Carbon tetrachloride	Refrigerant R10
		Carbona	Tetrachlorocarbon
		Flukoids	Tetrachloromethane
		Freon 10	Tetrafinol
		Halon 104	Tetraform
		Methane tetrachloride	Tetrasol
		Necatorina	Univerm
		Necatorine	Vermoestricid

Chemical Name	CAS No.	Synonyms	
Vinyl Chloride	75-01-4	Chloroethene	VC
		Chloroethylene	VCM
		Ethylene monochloride	Vinyl C
		Monochloroethene	Vinyl Chloride
		Monochloroethylene	

List of Most Commonly Used Chlorinated Solvents and Their Breakdown Products

Chemical Name	CAS No.	Synonyms
1,1-Dichloroethylene	75-35-4	1,1-DCE 1,1-Dichloroethene 1,1-dichloroethylene Asym-dichloroethylene Sconatex VDC Vinylidene Chloride Vinylidene chloride(II) Vinylidene dichloride

Chemical Name	CAS No.	Synonyms	
Chloroform	67-66-3	Chloroform	R 20
		Chloroform	r 20 (refrigerant)
		Formyl trichloride	Refrigerant R20
		Methane trichloride	Trichloroform
		Methenyl trichloride	Trichloromethane
		Methyl trichloride	

Partial List of Chlorinated Chemicals

Chemical Name	CAS No.	Synonyms	
Chlordane	12789-03-6	1068	M 140
		1,2,4,5,6,7,10,10-octachloro-4,7,8,9-tetrahydro-4,7-methyleneindane	M 410
		1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane	Octachloro tetrahydro methanoindane
		Chlordane (technical)	Octachloro-4,7-methanohydroindane
		Chlordane (technical)	Octachloro-4,7-methanotetrahydroindane
		Gamma-chlordan; chlorindan; dichlorochlordene	Topichlor

Chemical Name	CAS No.	Synonyms	
Chlorobenzene	108-90-7	Benzene chloride	Chlorobenzol
		Chlorobenzene	MCB
		Chlorobenzene	Monochlorobenzene
		Chlorobenzene Mono	Monochlorobenzol

Chemical Name	CAS No.	Synonyms		
2,4-Dichlorophenoxyacetic acid	94-75-7	2,4-D	Crop Rider	Low Vol 4 Ester Weed Killer
		2,4-D acid	Crotilin	MCP amine
		2,4-D Amine No. 4	Debroussaillant 600	Miracle
		2,4-D LV6	Decamine	Monosan
		2,4-D solution (1mg/ml)	Dicopur	Netagrone
		2,4-Dichlorophenoxyacetic acid	Dicotox	Pennamine
		Agrotect	DMA 4	PHENOXYAXETIC ACID HERBICIDES
		Amidox	Dormone	Rhodia
		Amine 4 2,4-D Weed Killer	Emulsamine BK	Standard 2,4-D Amine
		Amoxone	Envert DT	U-5043
		Asgrow 2,4-D amine 4	Fernimine	Verton
		Asgrow Aqua KD	Formula 40	Weed Tox
		BH 2,4-D	Formula 40 4L	Weedar 64
		B-selektonon	Helena 2,4-D	Weedar 64A
		Chipco turf herbicide "d"	Ipaner	Weedone-2,4-DP
		Chloroxone	Lawn-Keep	Weedtrol

Chemical Name	CAS No.	Synonyms	
1,4-Dichlorobenzene	106-46-7	DCB	Paramoth
		Dichloricide	Paranuggets
		Dichlorocide	Para-zene
		Evola	P-chlorophenyl chloride
		Globol	PDB
		PARA	PDCB
		Paracide	P-dichlorobenzol
		Para-Dichlorobenzene	Persia-perazol
		Paradow	Santochlor

Chemical Name	CAS No.	Synonyms	
1,2-Dichloroethane	107-06-2	1,2-DCE	Di-chlor-mulsion
		1,2-Dichloroethane	Dutch liquid
		1,2-Ethylene dichloride	Dutch oil
		1,2-Ethylidene dichloride	EDC
		2-Dichloroethane	Ethane dichloride
		Alpha, beta-dichloroethane	Ethylene chloride
		Borer sol	Ethylene dichloride
		Brocide	Freon 150
		Destruxol borer-sol	Glycol dichloride
		Dichloremulsion	Sym-dichloroethane

Chemical Name	CAS No.	Synonyms	
Endrin	72-20-8	(1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)-3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-Dimethanonaphth[2,3-b]oxirene	Compound 269
			Endrex
		(1R,4S,5R,8S)-1,2,3,4,10,10-hexachloro-1,4,4a,5,6,7,8,8a-octahydro-6,7-epoxy-1,4:5,8-dimethanonaphthalene	Experimental insecticide 269
		1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo-endo-5,8-dimethano-naphthalene	Hexachloroepoxyoctahydro-endo,endo-
		1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene	Hexadrin
		2,7:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,3alpha,6alpha,6abeta,7beta,7aalpha)-	Mendrin
		3,4,5,6,9,9-Hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-dimethanonaphth(2,3-b)oxirene	Nendrin
		3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-dimethanonaphth(2,3-b)oxirene, (1aA,2B,2aB,3A,6A,6aB,7B,7aA)-	Oms 197

Partial List of Chlorinated Chemicals

Chemical Name	CAS No.	Synonyms	
Heptachlor	76-44-8	1(3a),4,5,6,7,8,8-heptachloro-3a(1),4,7,7a-tetrahydro-4,7-methanoindene	E 3314
		1,4,5,6,7,10,10-heptachloro-4,7,8,9-tetrahydro-4,7-endomethyleneindene	Hepta
		1,4,5,6,7,10,10-heptachloro-4,7,8,9-tetrahydro-4,7-methyleneindene	Heptachlor
		1,4,5,6,7,8,8a-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	Heptachlorane
		1,4,5,6,7,8,8-heptachloro-3a,4,7,7,7a-tetrahydro-4,7-methyleneindene	Heptachlorotetrahydro-4,7-methanoindene
		1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-endomethanoindene	Heptagran
		1,4,5,6,7,8,8 Heptachloro-3a,4,7,7a-Tetrahydro-4,7 Methano-1H Indene	Heptaklor
		1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	Heptamul
		1H-1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	Heptox
		3,4,5,6,7,8,8a-Heptachlorodicyclopentadiene	Rhodiachlor
		3-Chlorochlordene	Tetrahydro
		6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-3-methyl-4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-6,9-methano-2,4,3 benzodioxathiepin	Velsicol 104
		Agroceres	Velsicol heptachlor
		Drinox H-34	

Chemical Name	CAS No.	Synonyms	
Hexachlorobenzene	118-74-1	Amatin	Julian's carbon chloride
		Anticarie	No Bunt
		Bunt-cure	No bunt 40
		Bunt-no-more	No bunt 80
		Ceku C.B.	Pentachlorophenyl chloride
		Co-op hexa	Perchlorobenzene
		Granox nm	Sanocide
		HCB	Smut-go
		Hexa c.b.	Snieciotox
		Hexachlorobenzene	

Chemical Name	CAS No.	Synonyms	
Hexachlorobutadiene	87-68-3	1,1,2,3,4,4-hexachloro-1,3-Butadiene	Hexachloro-1,3-butadiene
		1,3-Hexachlorobutadiene	Hexachlorobuta-1,3-diene
		Dolen-pur	Hexachlorobutadiene
		Gp-40-66:120	HEXACHLOROBUTADIENE 1,3-
		HCBD	Perchlorobutadiene

Chemical Name	CAS No.	Synonyms	
Hexachloroethane	67-72-1	1,1,1,2,2,2-hexachloroethane	Ethylene hexachloride
		Aviothane	Falkitol
		Carbon hexachloride	Fasciolin
		Distokal	HCE
		Distopan	Hexachloroethane
		Distopin	Mottenhexe
		Egitol	Perchloroethane
		Ethane hexachloride	Phenohep

Chemical Name	CAS No.	Synonyms		
Lindane	58-89-9	(1alpha,2alpha,3beta,4alpha,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	Forst-nexen	Kokotine
		1,2,3,4,5,6-hexachlorocyclohexane	Gallogama	Kwell
		1,2,3,4,5,6-hexachlorocyclohexane (1alpha,2alpha,3beta,4alpha,5alpha,6beta)	Gamacarbatox	Kwell-R
		1,2,3,4,5,6-Hexachlorocyclohexane gamma isomer	Gamacid	Lasochron
		1alpha,2alpha,3beta,4alpha,5alpha,6beta-Hexachlorocyclohexane	Gamaphex	Lendine
		Aalindan	Gamene	Lentox
		Aficide	Gamiso	Lidenal
		Agrisol g-20	Gamma BHC	Lindafor
		Agrocide	Gamma hexachlor	Lindagam
		Agrocide 2	gamma-1,2,3,4,5,6-Hexachlorocyclohexane	Lindagrain

Partial List of Chlorinated Chemicals

Chemical Name	CAS No.	Synonyms		
Lindane (condinued)	58-89-9	Agrocide 6g	Gamma-benzene hexachloride	Lindagranox
		Agrocide 7	gamma-BHC (lindane)	Lindalo
		Agrocide III	Gamma-BHC Benhexachlor	Lindamul
		Agrocide wp	Gamma-COL	LINDANE (BENZENE HEXACHLOROIDE-GAMMA ISOMER)
		Agronexit	Gamma-HCH	Lindapoudre
		Ameisenatod	Gammahexa	Lindaterra
		Aparasin	Gamma-hexachlorane	Lindex
		Aphtiria	Gamma-hexachlorobenzene	Lindosep
		Aphtitria	Gamma-hexachlorocyclohexane	Lintox
		Aplidal	Gamma-Hexachlorocyclohexane	Linvur
		Arbitex	Gammahexane	Lorexane
		BBH	Gammalin	Mglawik I
		Ben-hex	Gammalin 20	Milbol 49
		Benhexachlor	Gamma-lindane	Mszycol
		Benhexol	Gammaterr	Neo-scabicidol
		Bentox 10	Gammex	Nexen-fb
		Benzene hexachloride	Gammexane	Nexit
		Benzene hexachloride, all isomers	Gammopaz	Nexit-stark
		Benzene hexachloride-gamma-isomer	Geobilan	Nexol-e
		Benzex	Geolin g 3	Nicochloran
		Bexol	Gexane	Novigam
		BHC	HCC	Novigan
		BHC (alpha-, beta-, gamma-)	HCCH	Omnitox
		Borer Spray	Hecoltox	Ovadziak
		Celanex	Hexachlorane	Owadziak
		Chloresene	Hexachlorocyclohexane, gamma-isomer	Pedraczak
		Codechine	Hexatox	Pflanzol
		DBH	Hexaverm	PLK
		Detmol-extrakt	Hexicide	Quellada
		Detox 25	Hexyclan	Sang gamma
		Devoran	HGI	Silvanol
		Dol granule	Hilbeech	Spritzlindane
		Drill tox-spezial aglukon	Hortex	Streunex
		Entomoxan	Hungaria I7	TAP 85
		Esoderm	Inexit	TRI-6
		Exagama	Isotox	Verindal ultra
		Forlin	Jacutin	Viton

Chemical Name	CAS No.	Synonyms		
Methoxychlor	72-43-5	1,1'-(2,2,2-Trichloroethylidene)-bis[4-methoxybenzene]	Di(p-methoxyphenyl) trichloromethyl methane	Methoxo
		1,1,1-Trichloro-2,2-bis(p-anisyl)ethane	Dianisyltrichloroethane	Methoxy DDT
		1,1,1-trichloro-2,2-bis(p-methoxyphenyl)ethane	Dimethoxy-ddt	Methoxychlor
		1,1-bis(p-methoxyphenyl)-2,2,2-trichloroethane	Dimethoxydiphenyltrichloroethane	Methoxychlor 2 ec
		2,2,2-trichloro-1,1-bis(4-methoxyphenyl)ethane	Dimethoxy-dt	Metox
		2,2-bis(p-anisyl)-1,1,1-trichloroethane	DMDT	Mezox k
		2,2-bis(p-methoxyphenyl)-1,1,1-trichloroethane	Double-m ec	Moxie
		4,4-(2,2,2-trichloroethylidene)dianisole	Flo pro mcseed protectant	Oms 466
		Bis(p-anisyl)-1,1,1-trichloroethane	Maralate	P,p'-dimethoxydiphenyltrichloroethane
		Bis(p-methoxyphenyl)-1,1,1-trichloroethane	Marlate	P,p'-dmdt
		Chemform	Maxie	P,p'-methoxychlor
		Chemform methoxychlor	Methoxcide	

Chemical Name	CAS No.	Synonyms		
Pentachlorophenol	87-86-5	2,3,4,5,6-Pentachlorophenol	Lauxtol	Penwar
		Chem-tol	Lauxtol a	Peratox
		Chlorophen	Liroprem	Permacide
		Cryptogil oil	Osmoplastic	Permagard
		Dow pentachlorophenol dp-2 antimicrobial	Oz-88	Permasan
		Dowcide 7	PCP	Permatox dp-2
		Dowicide 7	Penchlorol	Permatox penta
		Dowicide EC-7	Penta	Permite
		Dura-Treet	Pentachlorofenol	Pol-NU
		Durotox	Pentachlorophenate	Priltox
		EP 30	Pentachlorophenol	Santobrite
		Forepen	pentachloro-Phenol	Santophen 20
		Fungifen	Pentachlorophenol, dp-2	Sinituho
		Glazd penta	Pentacon	Term-i-trol
		Grundier arbezol	Penta-kil	Thompson's wood fix

Partial List of Chlorinated Chemicals

Chemical Name	CAS No.	Synonyms
2,4,5-Trichlorophenol	95-95-4	2,4,5-Trichlorophenol, Collunosol Dowicide 2 Preventol I

Chemical Name	CAS No.	Synonyms	
2,4,6-Trichlorophenol	88-06-2	Dowcide 2S	Dowicide 2S
		TCP	2,4,6-Trichloro-2-hydroxybenzene
		2,4,6 T	2,4,6-TCP
		Omal	2,4,6-Trichlorophenol
		Phenachlor	

Chemical Name	CAS No.	Synonyms		
2,4,5-TP (Silvex)	93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid	Color-set	Kurosal sl
		2,4,5-tcppa	Double strength	Propionic acid, 2(2,4,5-trichlorophenoxy)
		2,4,5-TP	Fenoprop	Propon
		2,4,5-TP (Silvex)	Fenormone	Silvex
		2,4,5-TP acid	Fruitone t	Silvex acid
		2,4,5 trichlorophenoxy propionic acid	Kuran	Silvi-rhap
		Alpha-(2,4,5-Trichlorophenoxy) propionic acid	Kurosal	Sta-fast
		Aqua-vex	Kurosal g	Weed-B-Gon

Chemical Name	CAS No.	Synonyms	
1,1,2-Trichloroethane	79-00-5	1,1,2-TRICHLOROETHANE (VINYL TRICHLORIDE)	Ethane trichloride
		1,2,2-Trichloroethane	Trichloroethane, 1,1,2-
		Beta-trichloroethane	Vinyl trichloride

Chemical Name	CAS No.	Synonyms	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	Freon 113	Freon TF
		Fluorocarbon 113	Trichloro 1,2,2-trifluoroethane
		1,1,2-Trichlorotrifluoroethane	1,1,2-Trifluorotrichloroethane
		Halocarbon 113	1,1,2-Trifluoro-1,2,2-trichloroethane
		Refrigerant 113	Frigen 113 tr-t
		FC 133	Chlorinated fluorocarbon
		Trichlorotrifluoroethane	1,2,2-Trichlorotrifluoroethane
		CFC-113	Genetron 113
		Diflon S-3	Trichloro-1,2,2-trifluoroethane, 1,1,2-
		Freon TF (113)	1,1,2-Trichloro-1,2,2-trifluroethane

Chemical Name	CAS No.	Synonyms	
Orthodichlorobenzene	95-50-1	1,2-Dichlorobenzene	Dizene
		Chloroben	Dowtherm e
		Chloroden	o,p-Dichlorobenzene mixture
		Cloroben	ODB
		DCB	ODCB
		Dichloricide	o-dichlorobenzene
		Dichlorobenzene, 1,2-	o-Dichlorobenzol
		Dichlorobenzol	Special termite fluid
		Dilantin db	Termitkil
		Dilatin db	

Chemical Name	CAS No.	Synonyms
Trichlorotrifluoromethane		

Partial List of Chlorinated Chemicals

Chemical Name	CAS No.	Synonyms		
Hexachlorophene	70-30-4	2,2'-Dihydroxy-3,3',5,5',6,6'-hexachlorodiphenylmethane	Eleven	Methylenebis(3,4,6-trichlorophenol)
		2,2'-dihydroxy-3,5,6,3',5',6'-hexachlorodiphenylmethane	Exofene	Nabac
		2,2'-methylenebis[3,4,6-trichlorophenol]	Fomac	Neosept V
		Acigena	Fostril	Phisodan
		Almederm	G-11	pHisohex
		AT-7	Gamophene	Ritosept
		B32	Germa-medica	Septisol
		Bilevon	HCP	Septofen
		Bis(2,3,5-trichloro-6-hydroxyphenyl)methane	Hexabalm	Steral
		Bis(2 hydroxy-3,5,6-trichlorophenyl)methane	Hexachlorophene	Steraskin
		Bis(3,5,6-trichloro-2-hydroxyphenyl)methane	Hexafen	Surgi-Cen
		Bivelon	Hexide	Surofene
		Compound G-11	Hexophene	Tersaseptic
		Cotofilm	Hexosan	Trichlorophene
		Dermadex	Methane, bis(2,3,5-trichloro-6-hydroxyphenyl)	Turgex

APPENDIX B

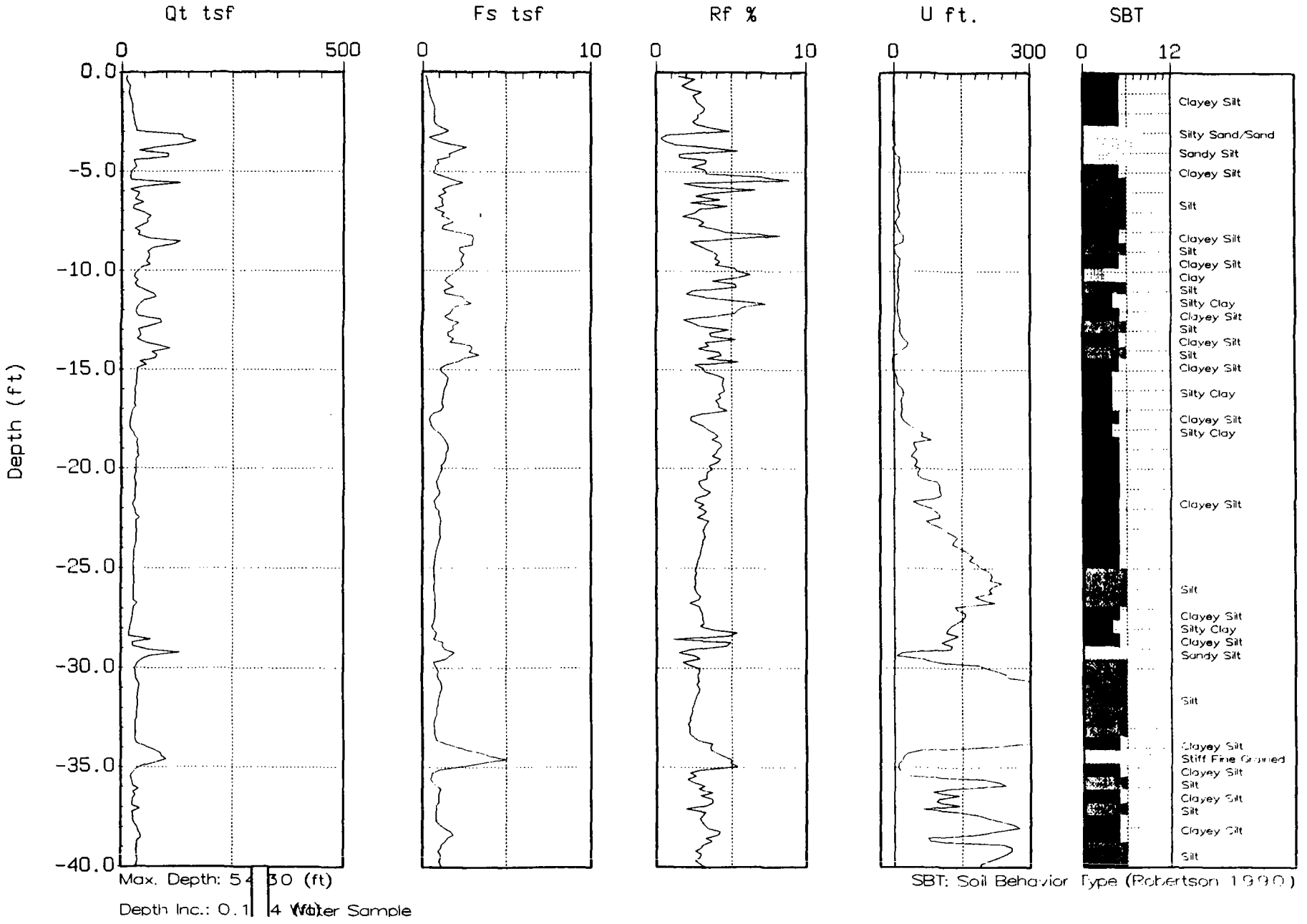
CPT LOGS

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-40
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 10:53



Max. Depth: 54.30 (ft)
Depth Inc.: 0.14 (ft)
Water Sample

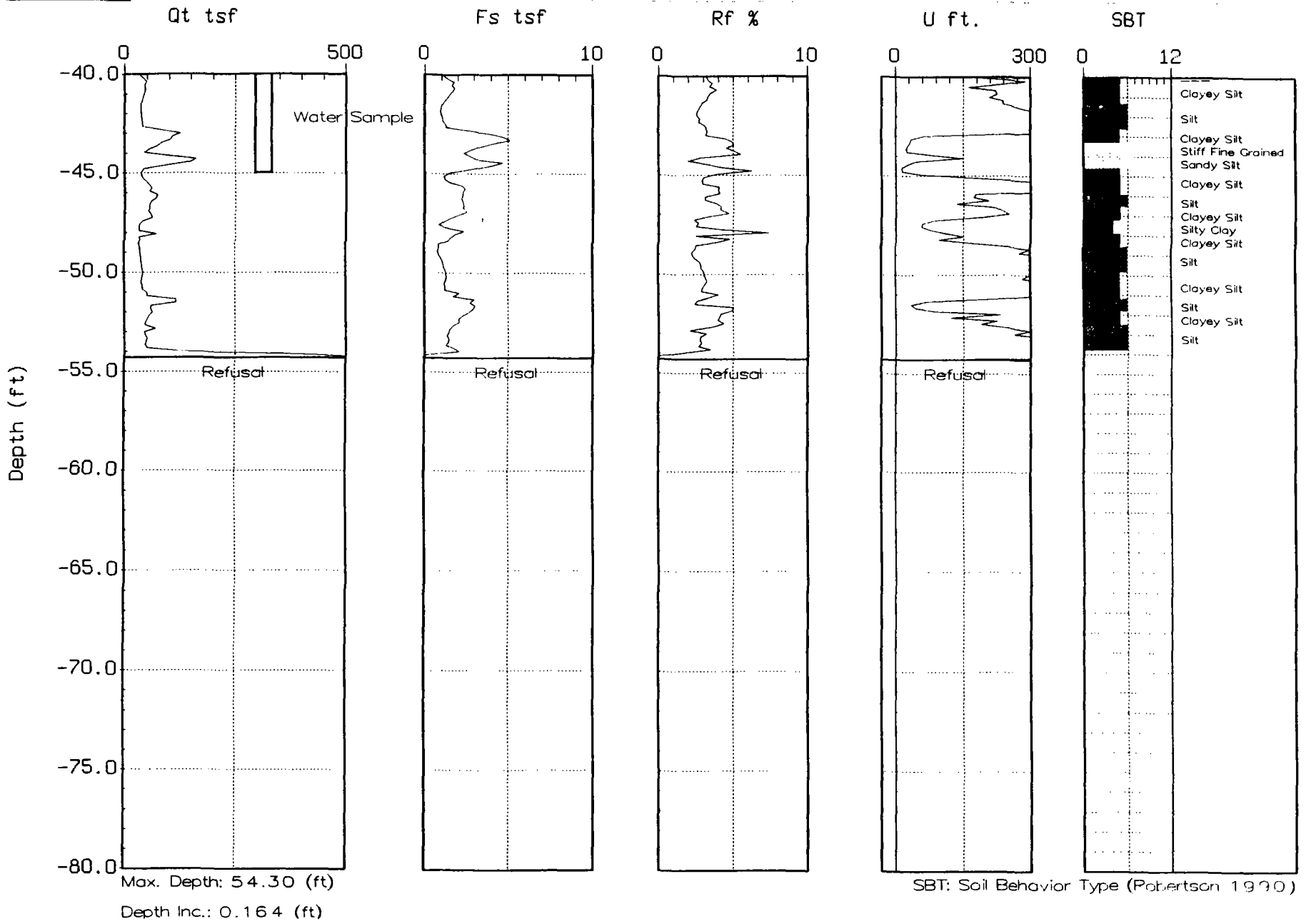
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-40
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 10:53



Max. Depth: 54.30 (ft)
Depth Inc.: 0.164 (ft)

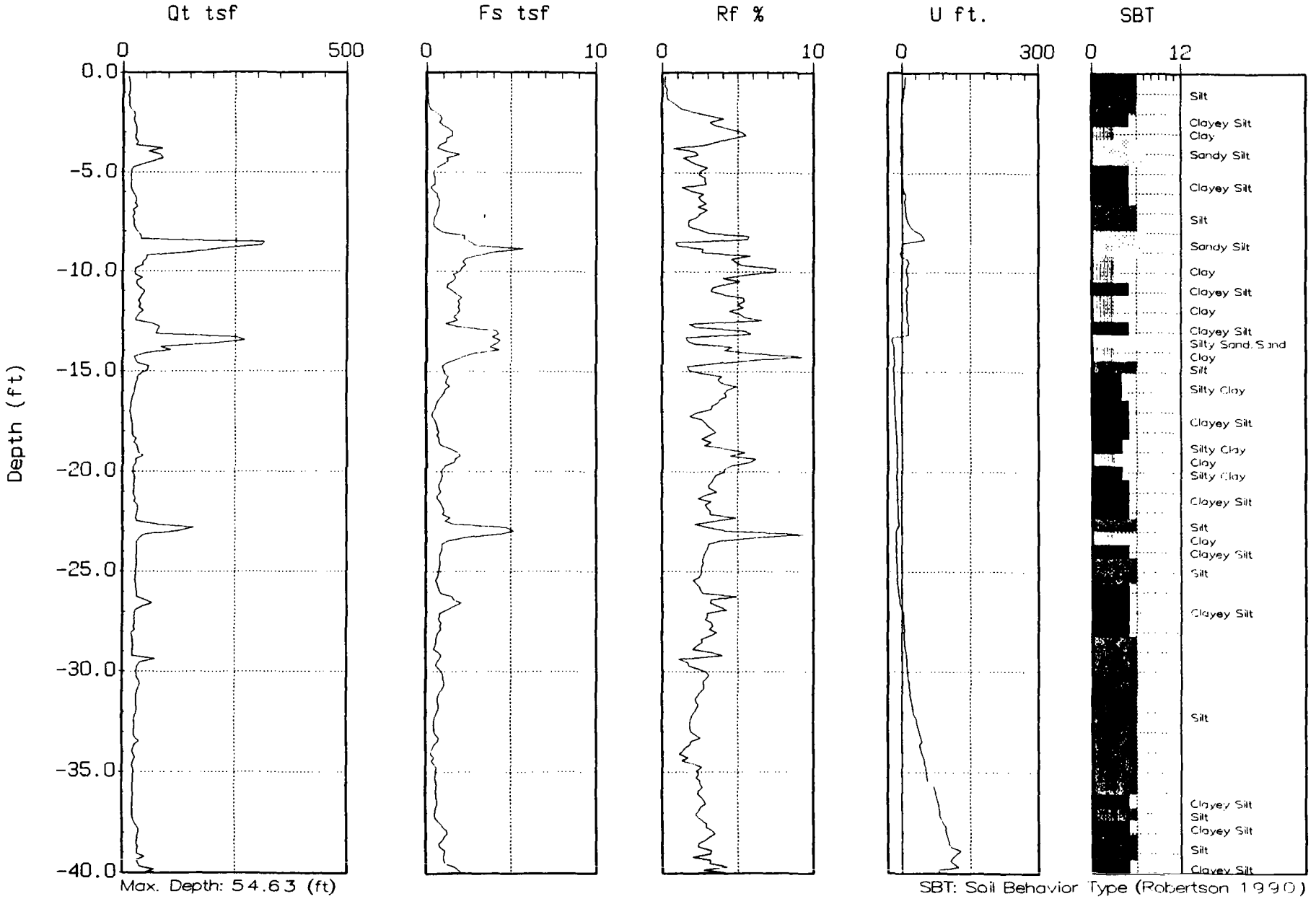
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-40A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 11:26



Max. Depth: 54.63 (ft)
Depth Inc.: 0.164 (ft)

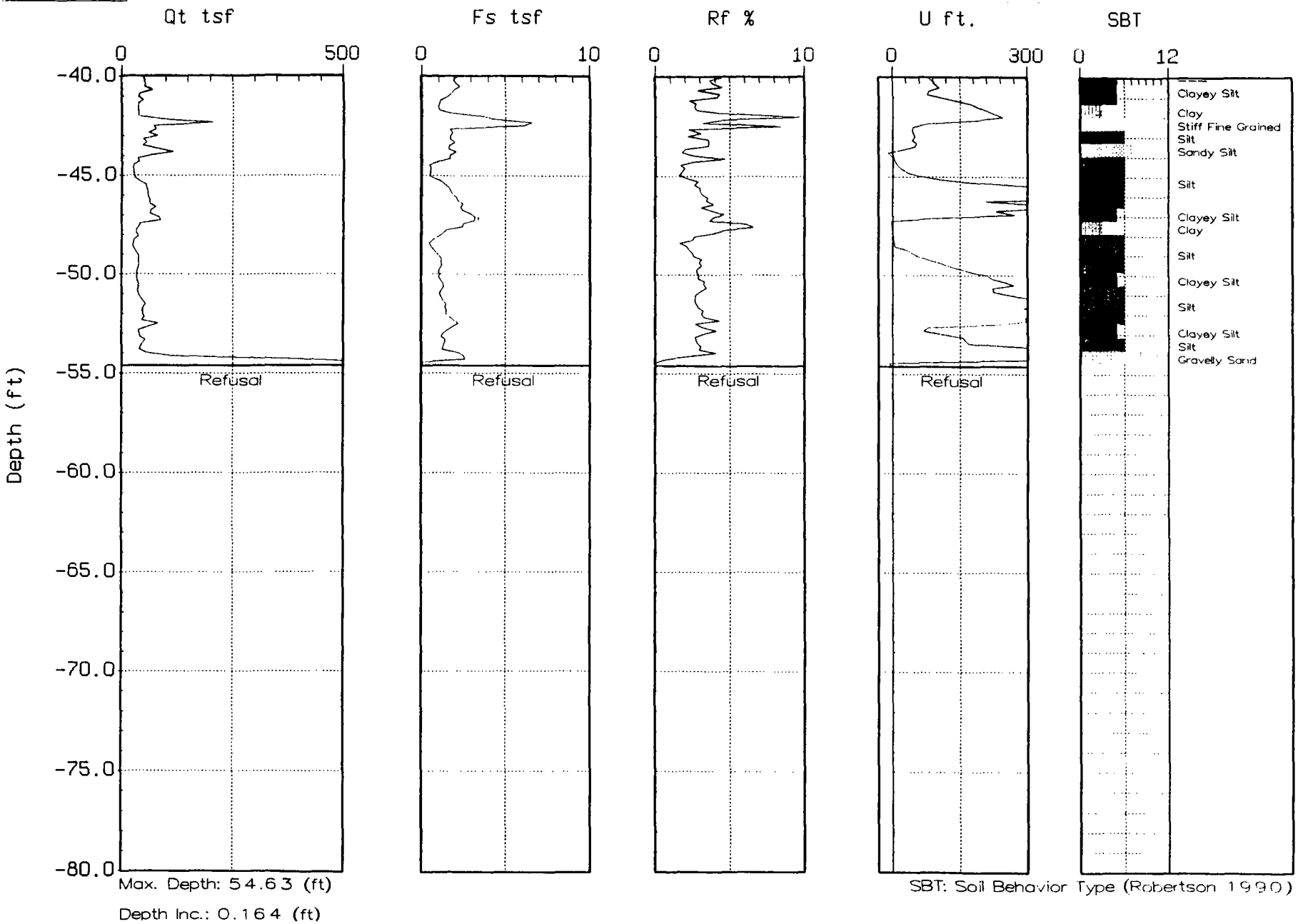
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-40A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 11:26



Max. Depth: 54.63 (ft)
Depth Inc.: 0.164 (ft)

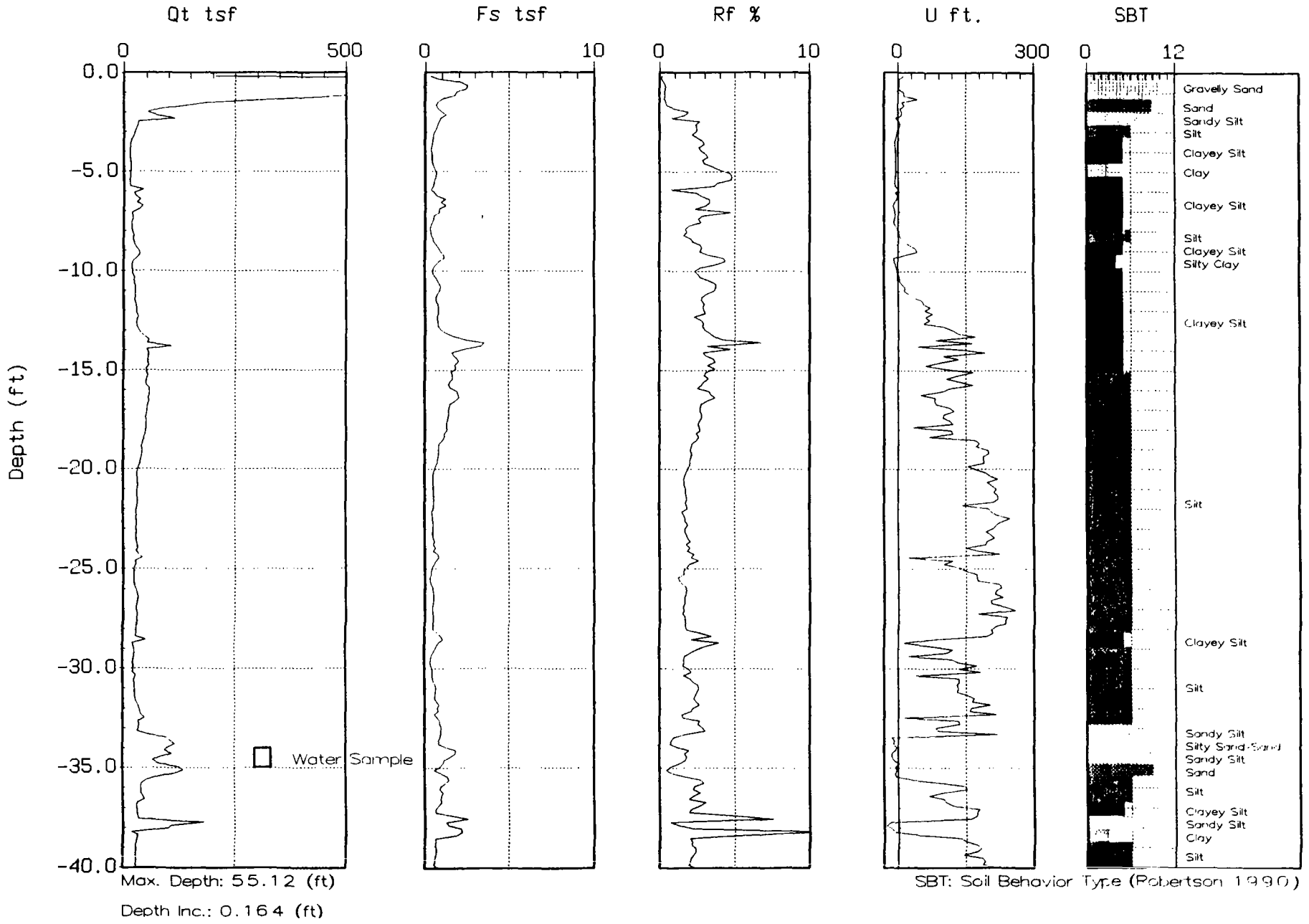
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-41
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 12:44



Max. Depth: 55.12 (ft)
Depth Inc.: 0.164 (ft)

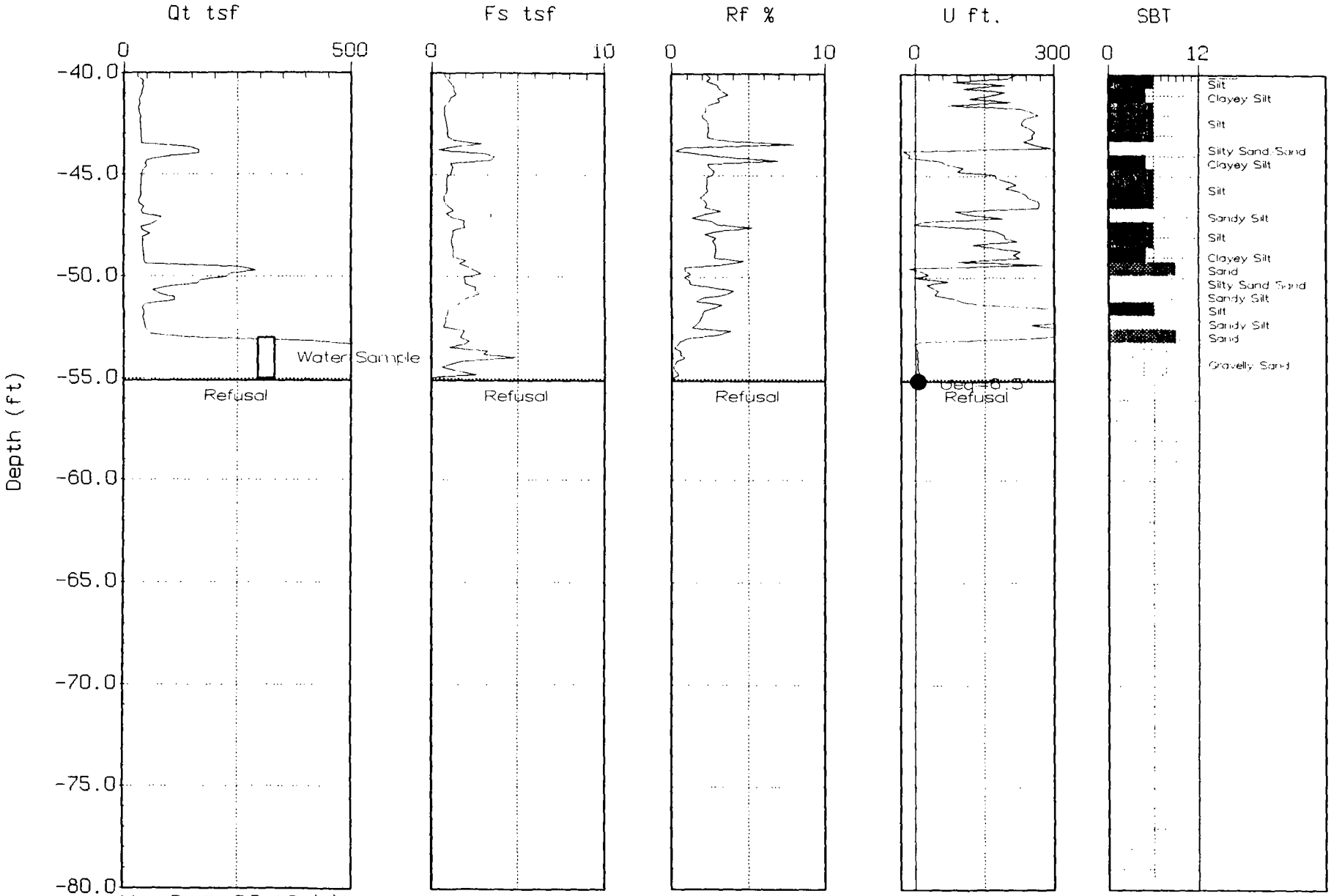
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-41
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 12:44



Max. Depth: 55.12 (ft)
Depth inc.: 0.164 (ft)

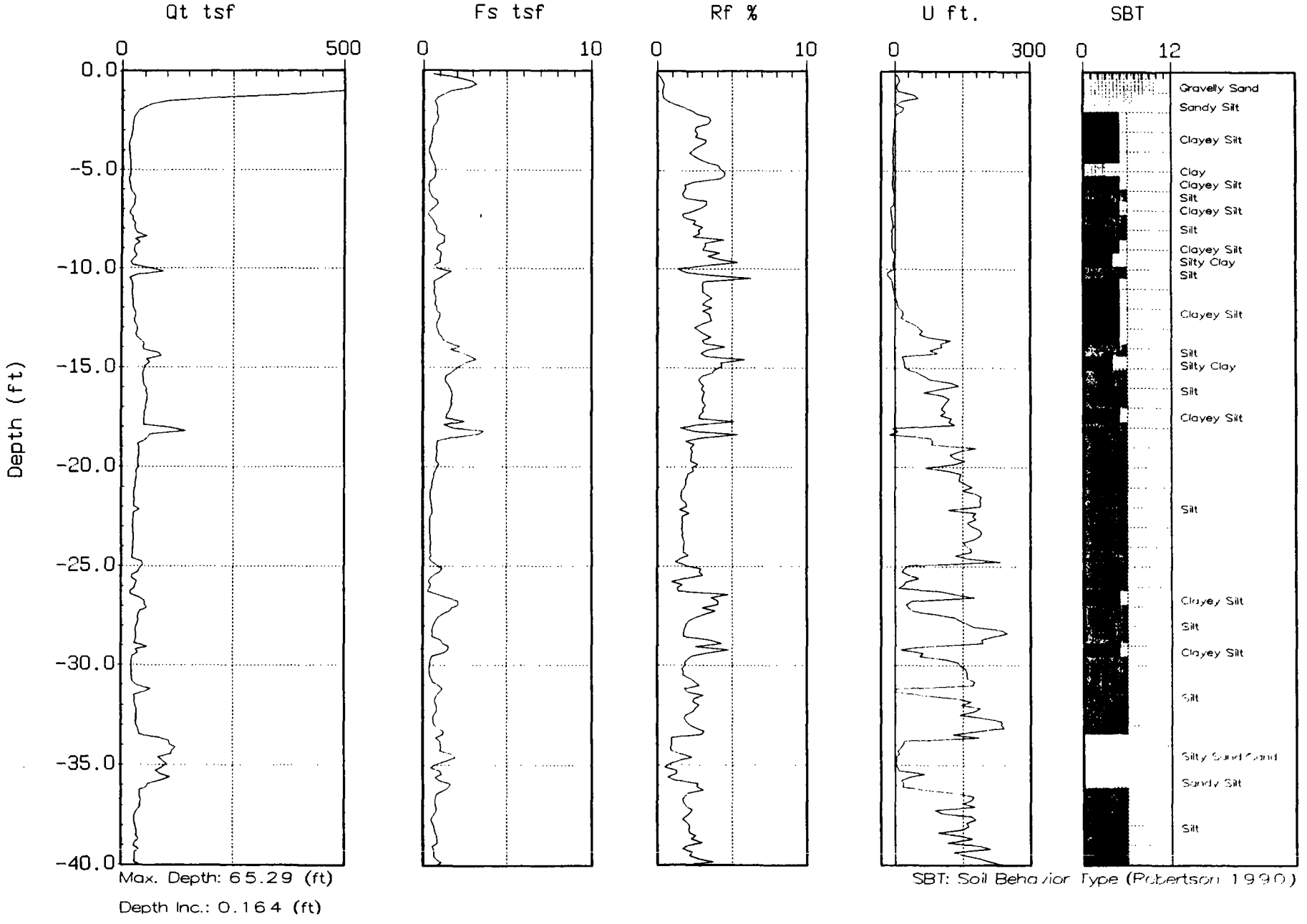
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-41A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 14:45



Max. Depth: 65.29 (ft)
Depth Inc.: 0.164 (ft)

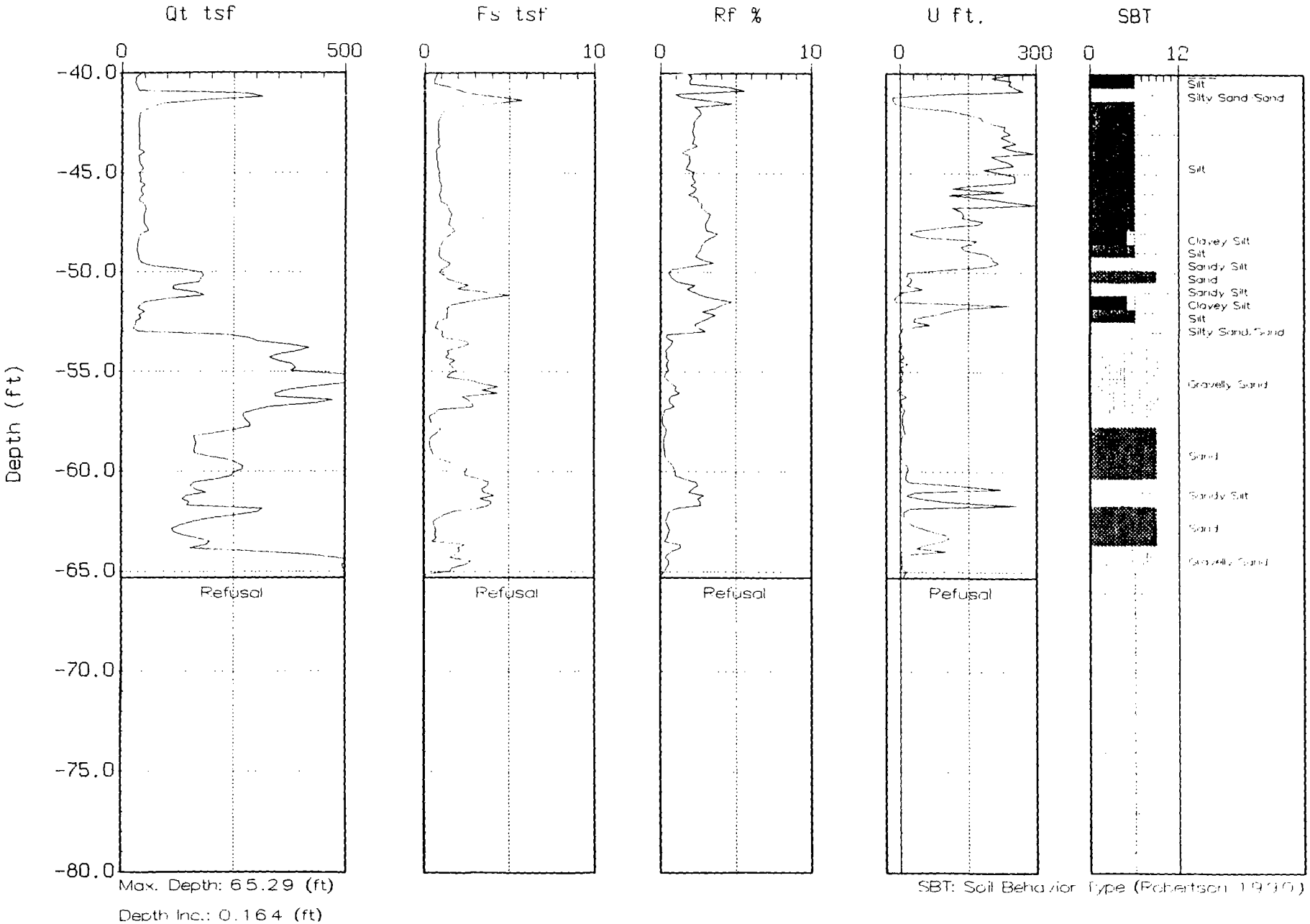
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-41A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 14:45



Max. Depth: 65.29 (ft)
Depth Inc.: 0.164 (ft)

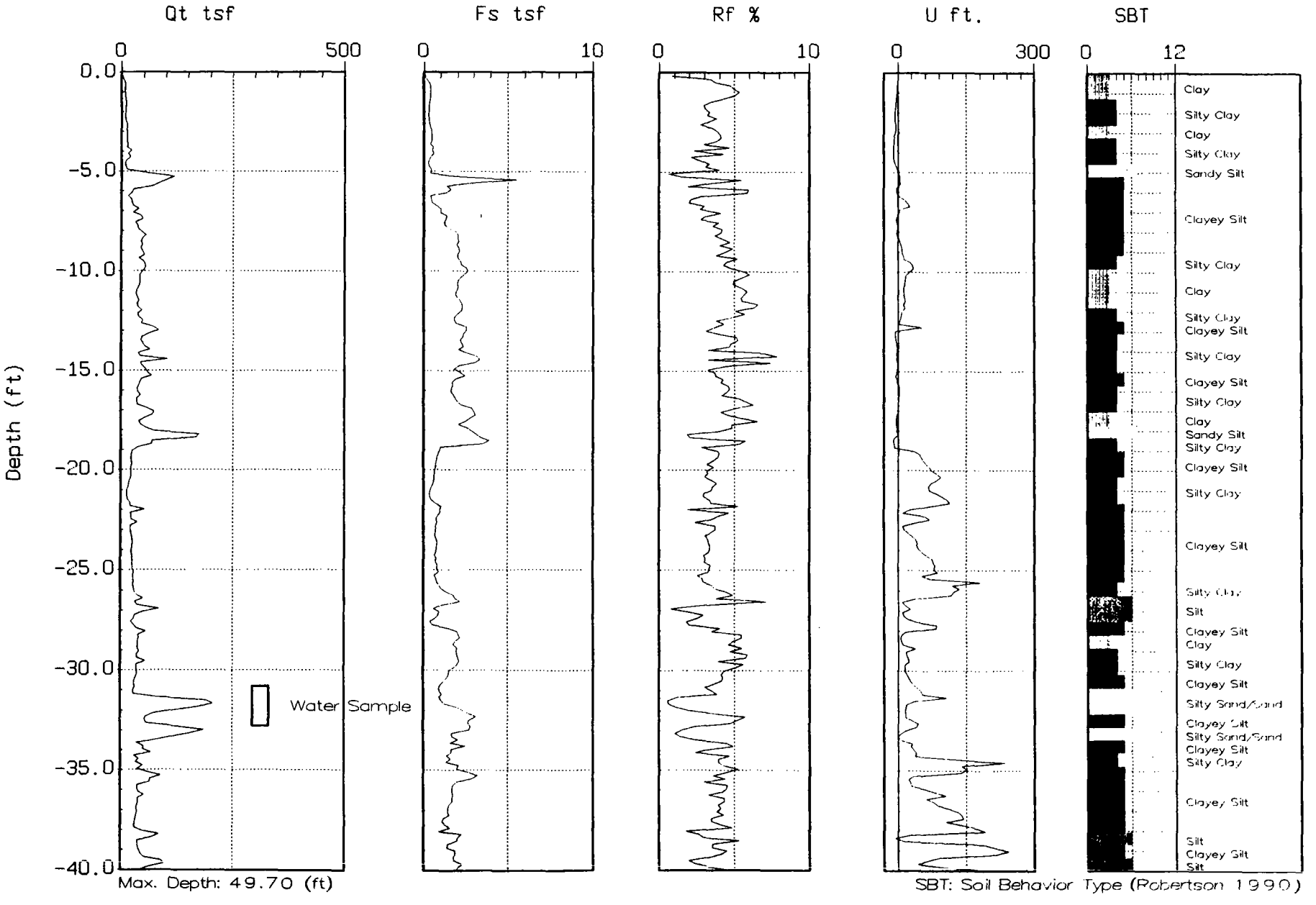
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-42
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 07:18



Max. Depth: 49.70 (ft)
Depth Inc.: 0.164 (ft)

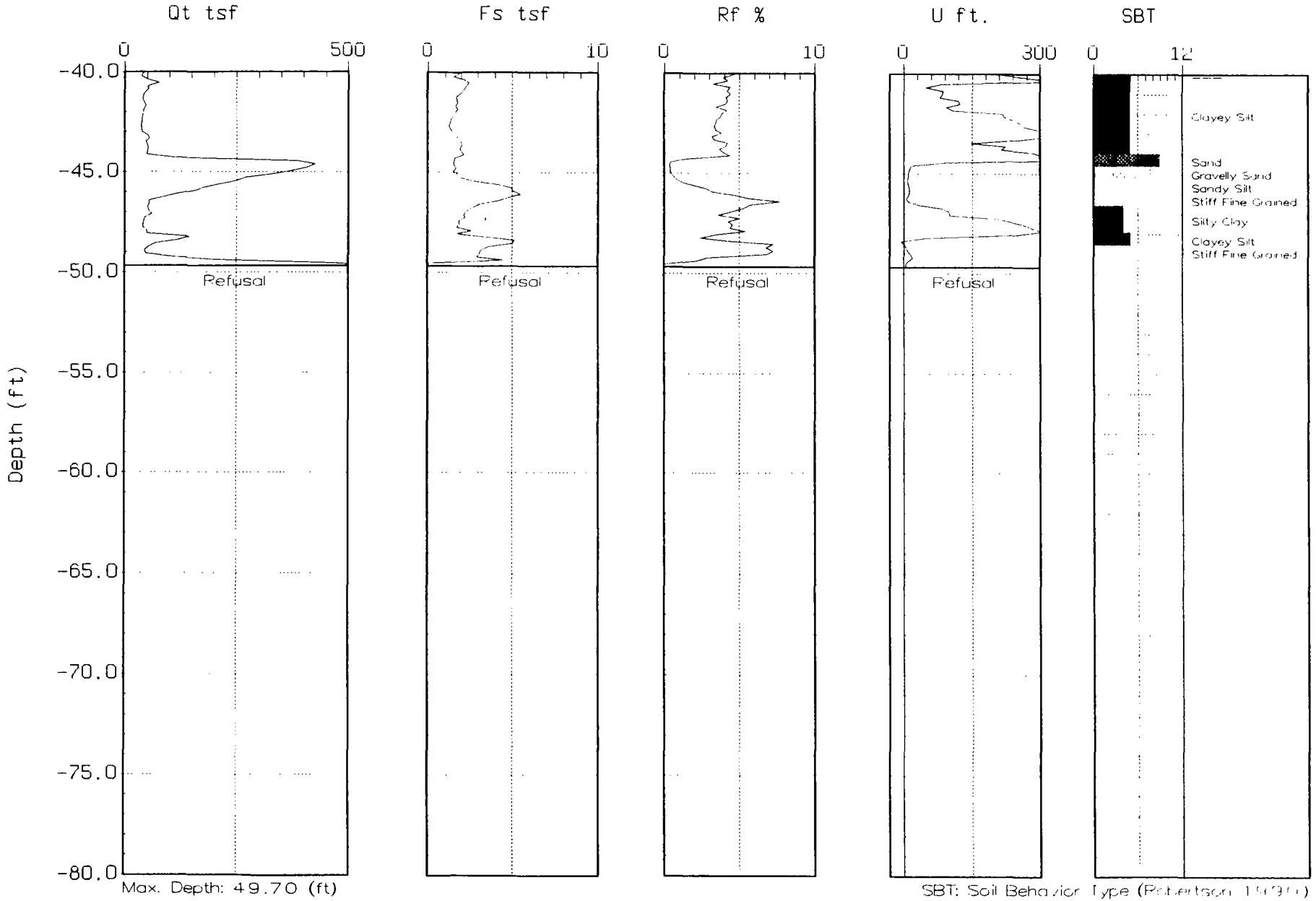
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-42
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 07:18



Max. Depth: 49.70 (ft)
Depth Inc.: 0.164 (ft)

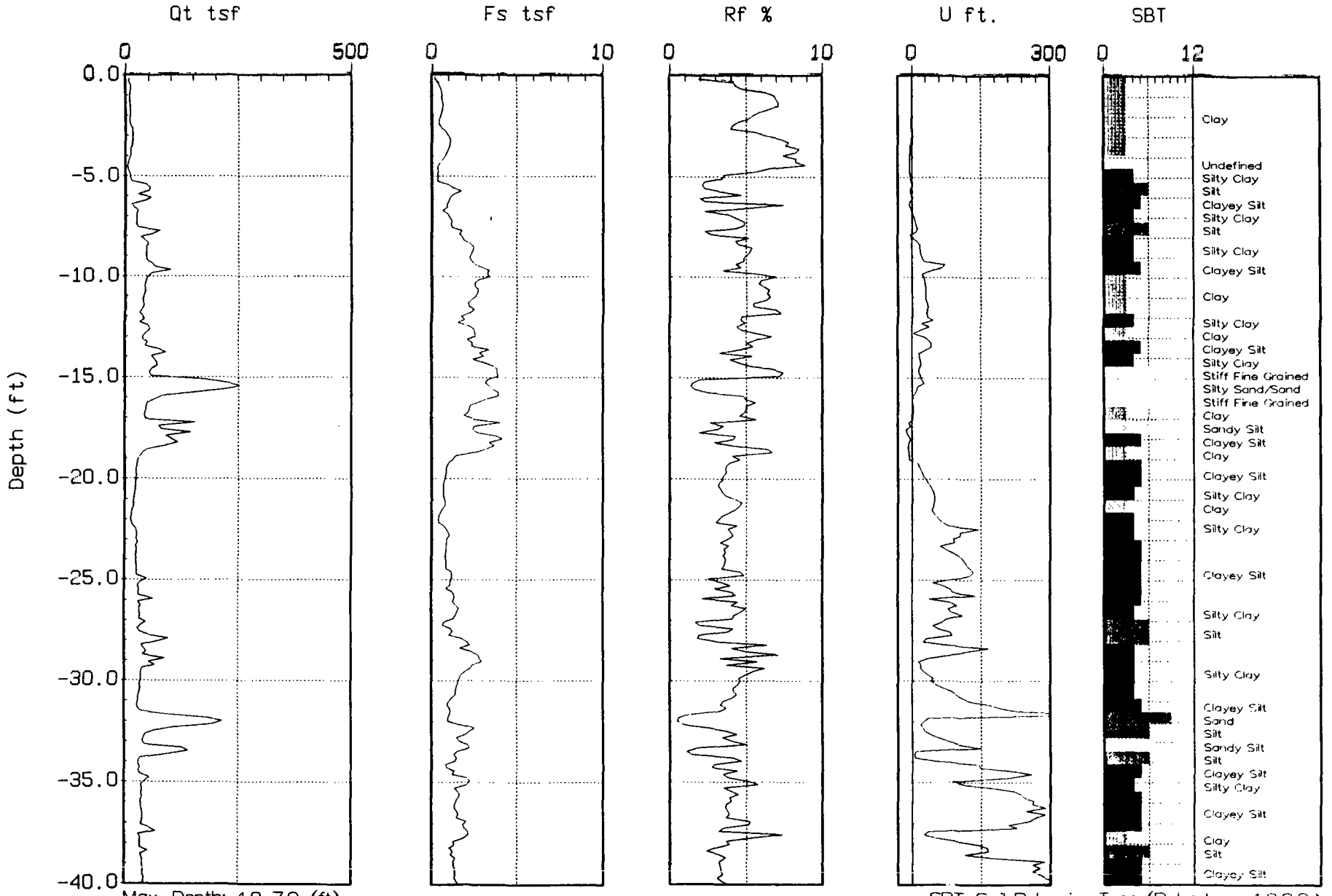
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-42A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 08:08



Max. Depth: 49.70 (ft)
Depth Inc.: 0.164 (ft)

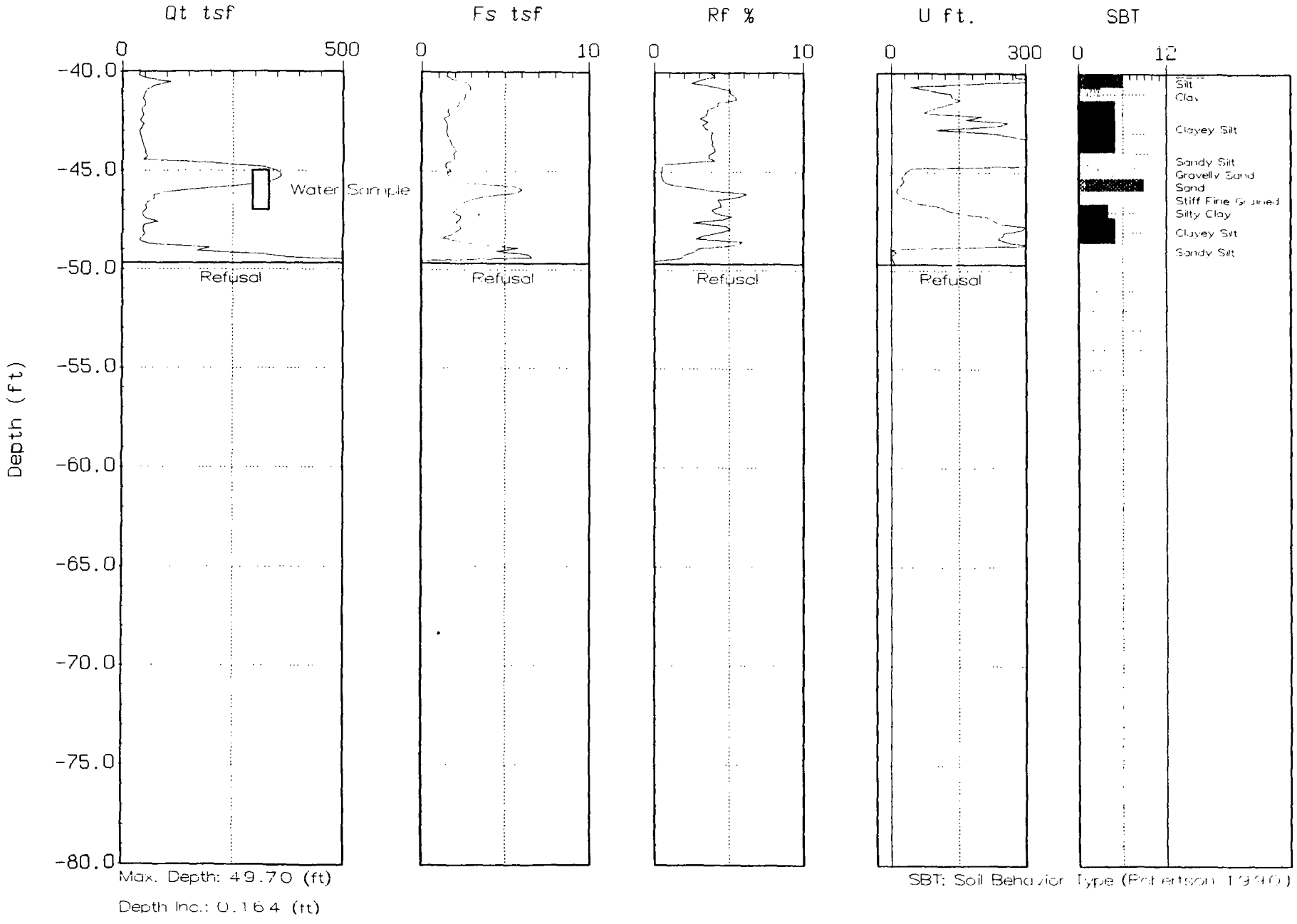
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-42A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:28:02 08:08

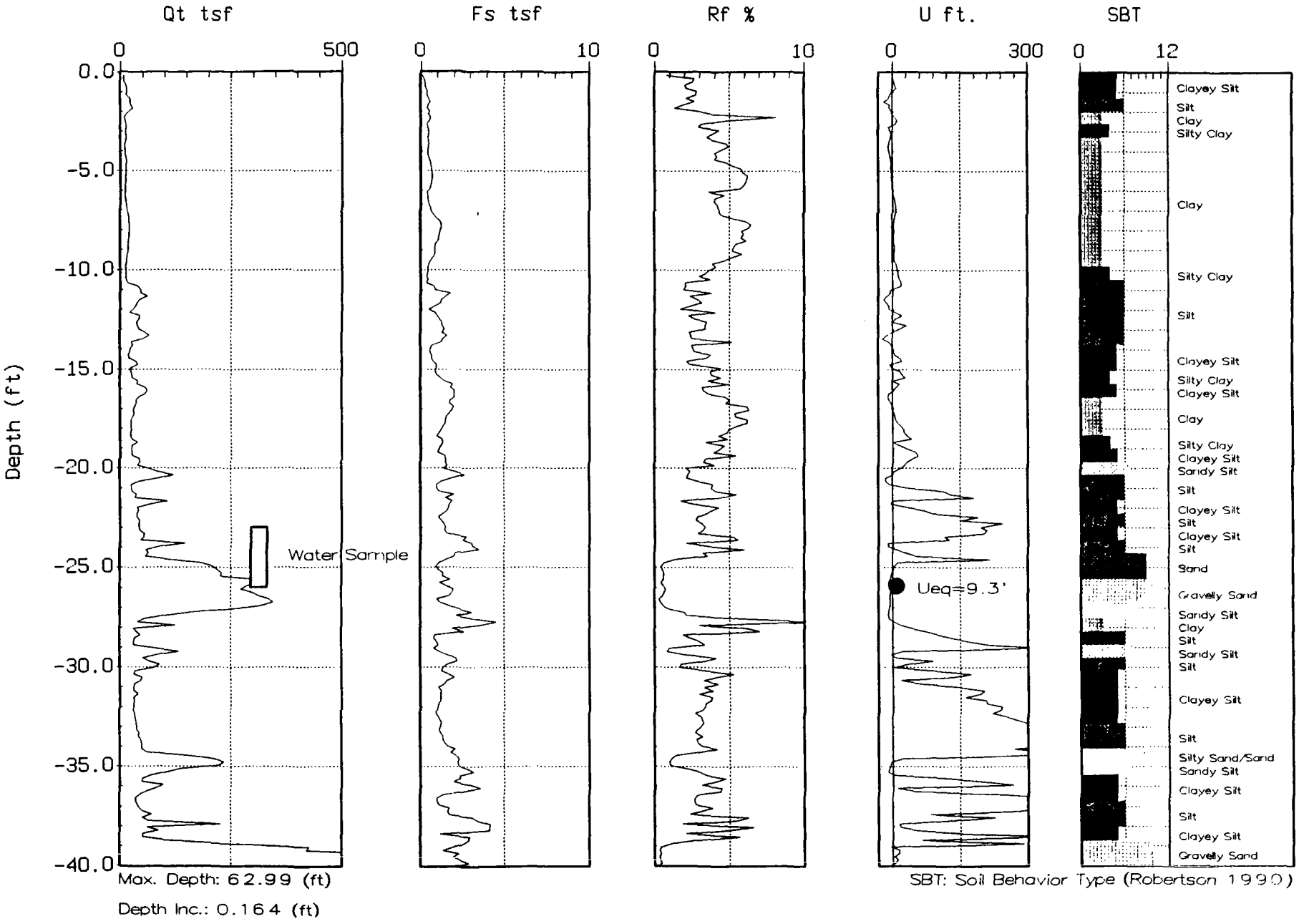


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-43
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:27:02 14:06



Max. Depth: 62.99 (ft)
Depth Inc.: 0.164 (ft)

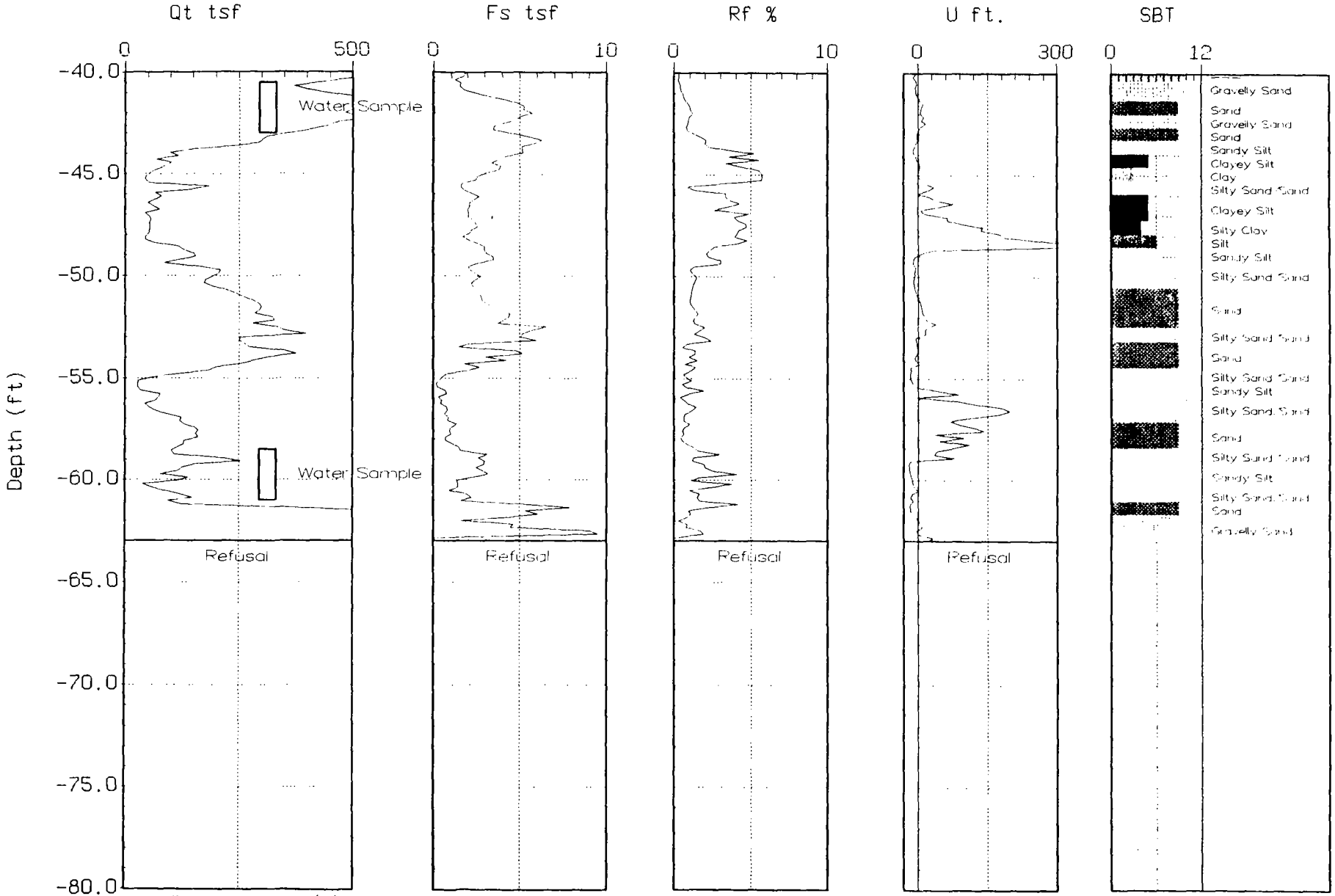
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-43
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:27:02 14:06



Max. Depth: 62.99 (ft)
Depth Inc.: 0.164 (ft)

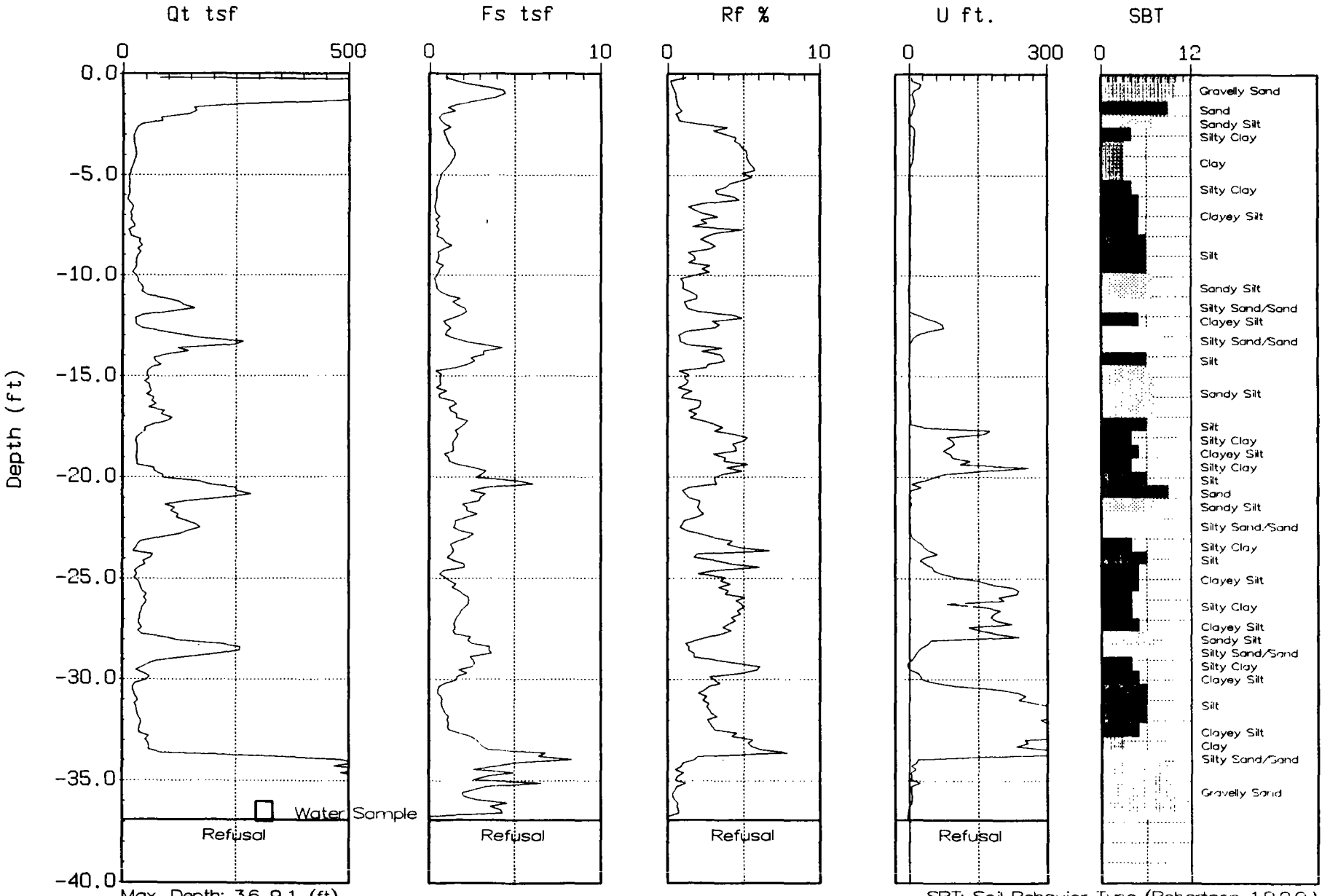
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-44
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:26:02 13:39



Max. Depth: 36.91 (ft)
Depth Inc.: 0.164 (ft)

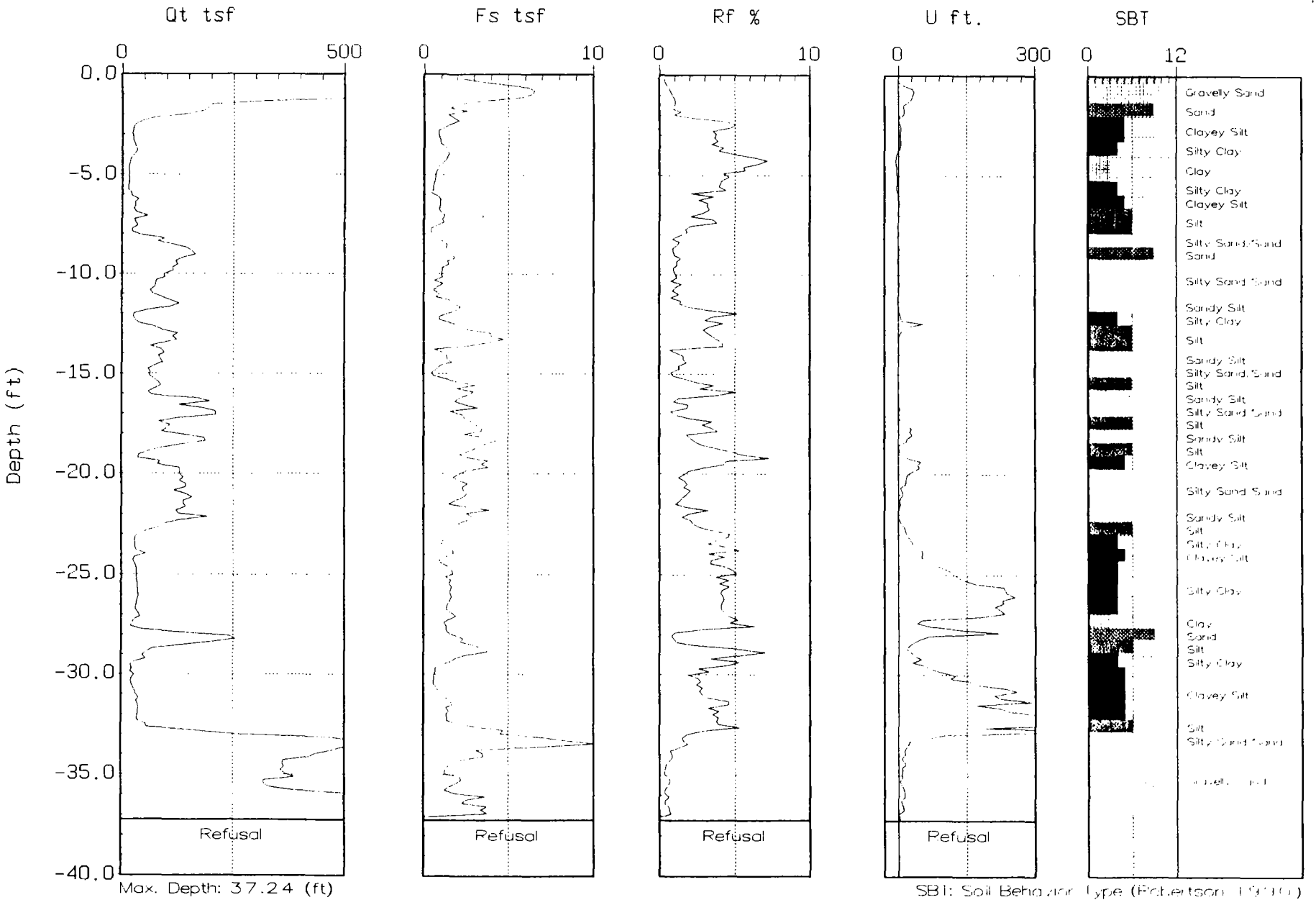
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-44A
Location: DOWNER'S GROVE

Cone: 20 TOTA 112
Date: 02:26:02 14:19



Max. Depth: 37.24 (ft)
Depth Inc.: 0.164 (ft)

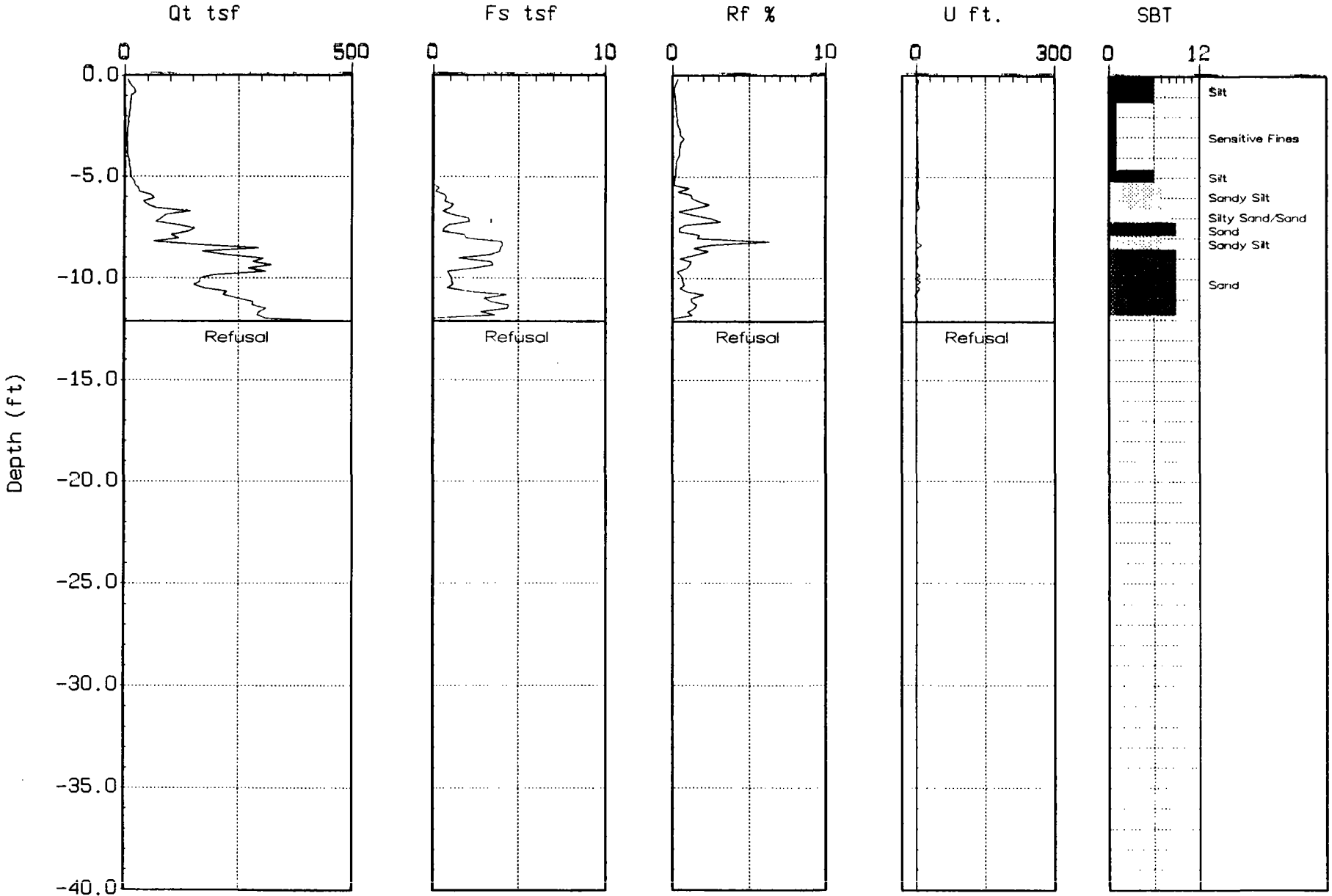
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-45
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:27:02 11:18



Max. Depth: 12.14 (ft)
Depth Inc.: 0.164 (ft)

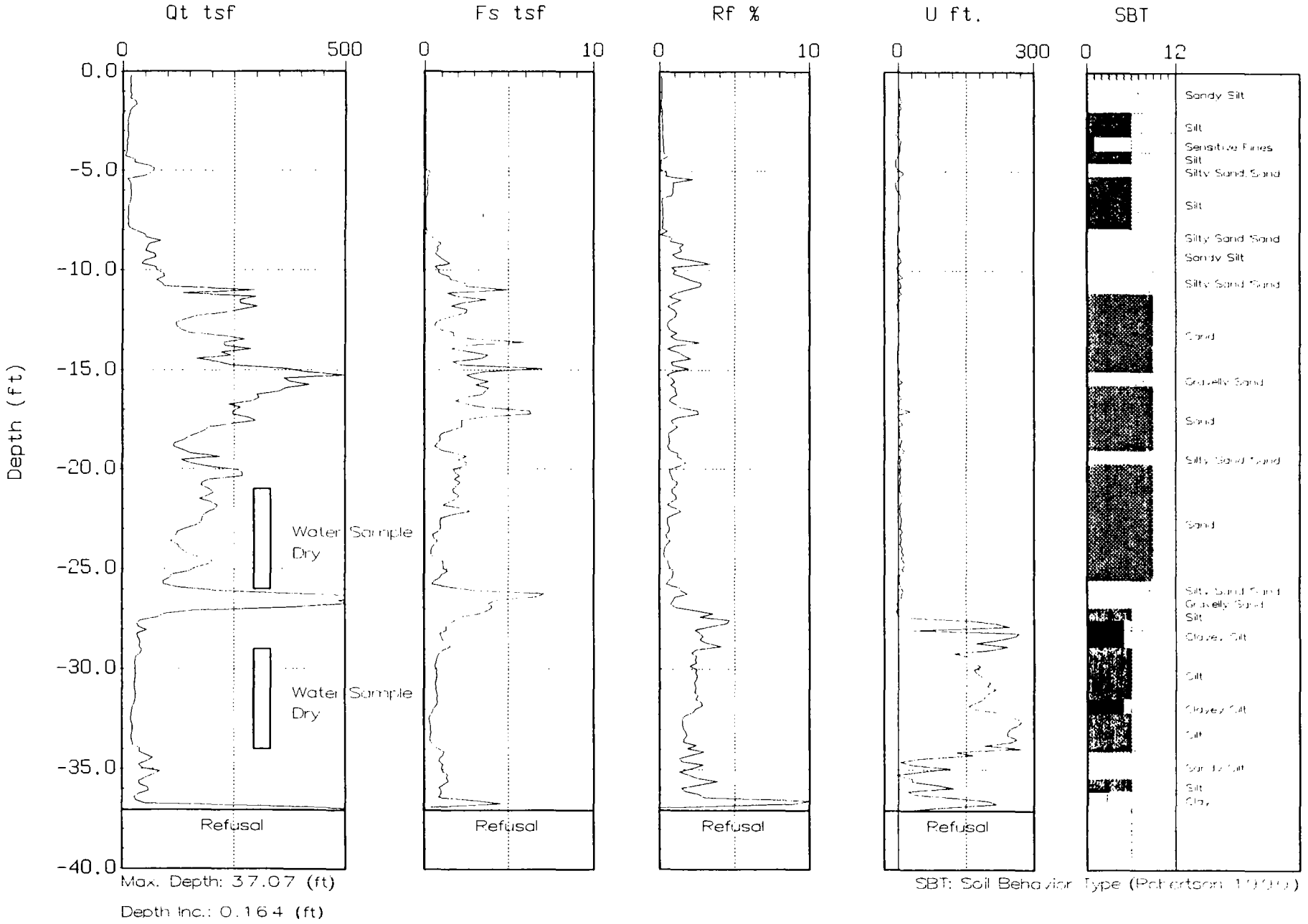
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-45A
Location: DOWNER'S GROVE

Cone: 20 TOTA 1 1 2
Date: 02:27:02 11:35

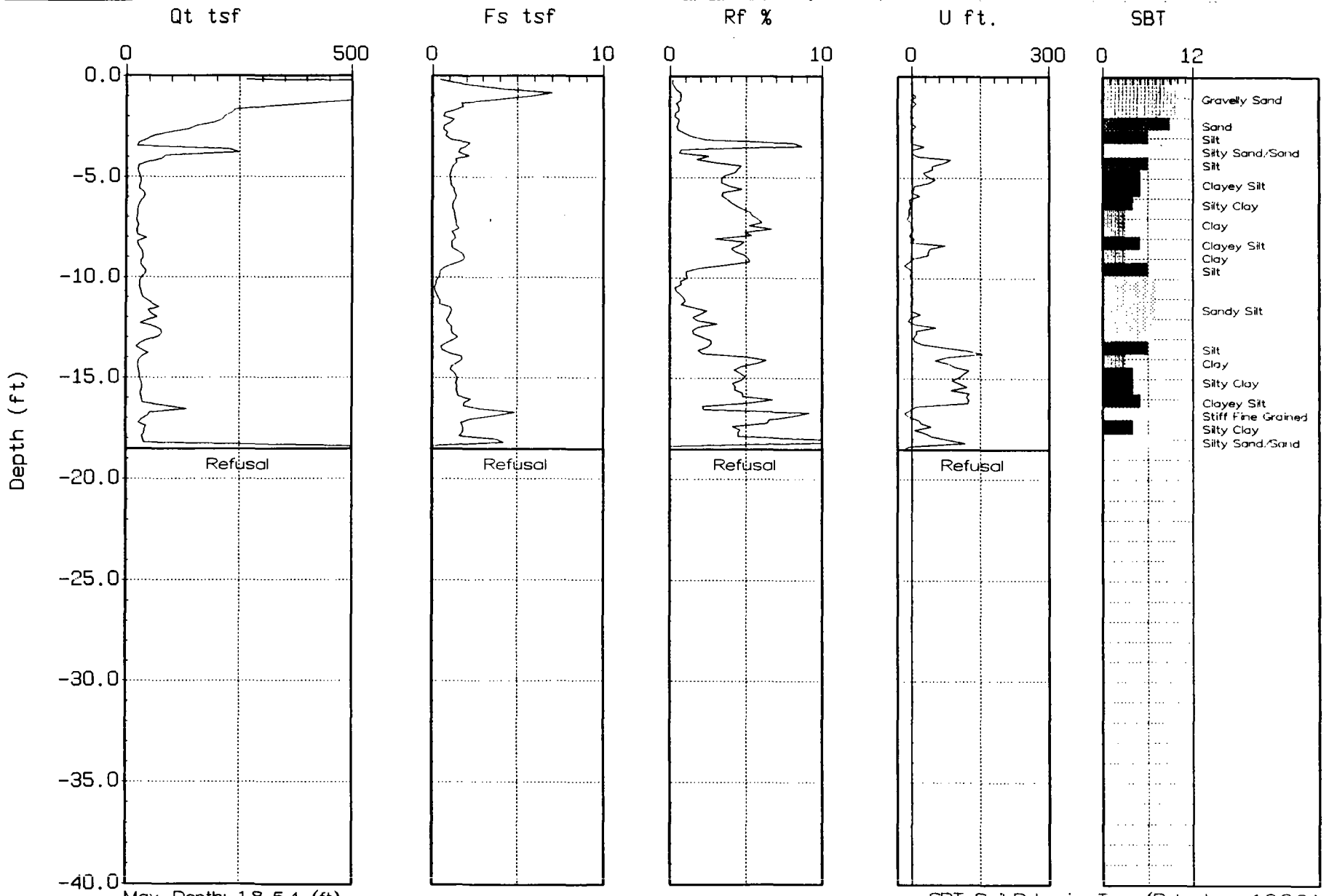


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-46
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:26:02 10:32



Max. Depth: 18.54 (ft)
Depth Inc.: 0.164 (ft)

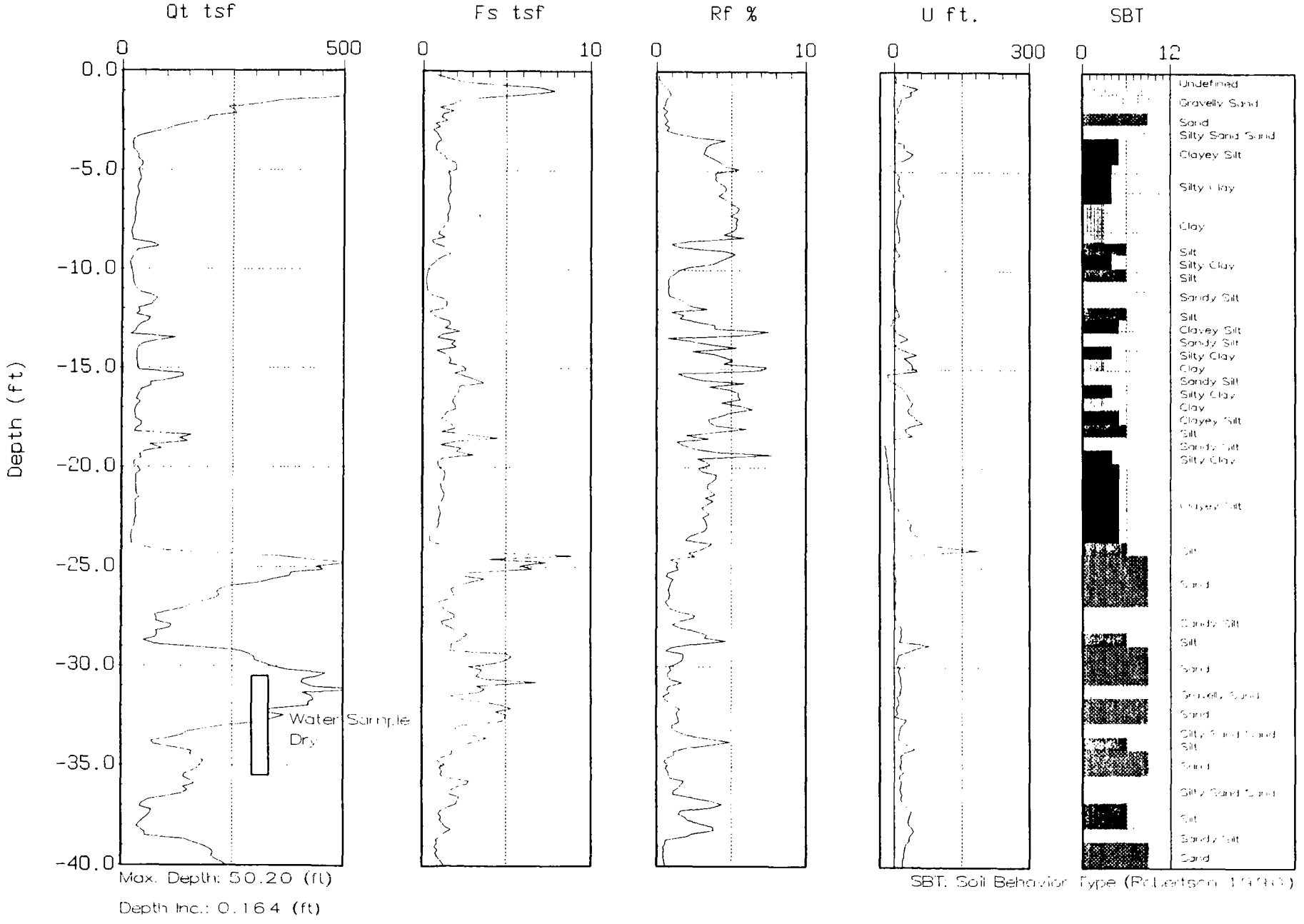
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT 46A
Location: DOWNEY'S GROVE

Cone: 20 10N A 112
Date: 02:26:02 10:51



Max. Depth: 50.20 (ft)
Depth Inc.: 0.164 (ft)

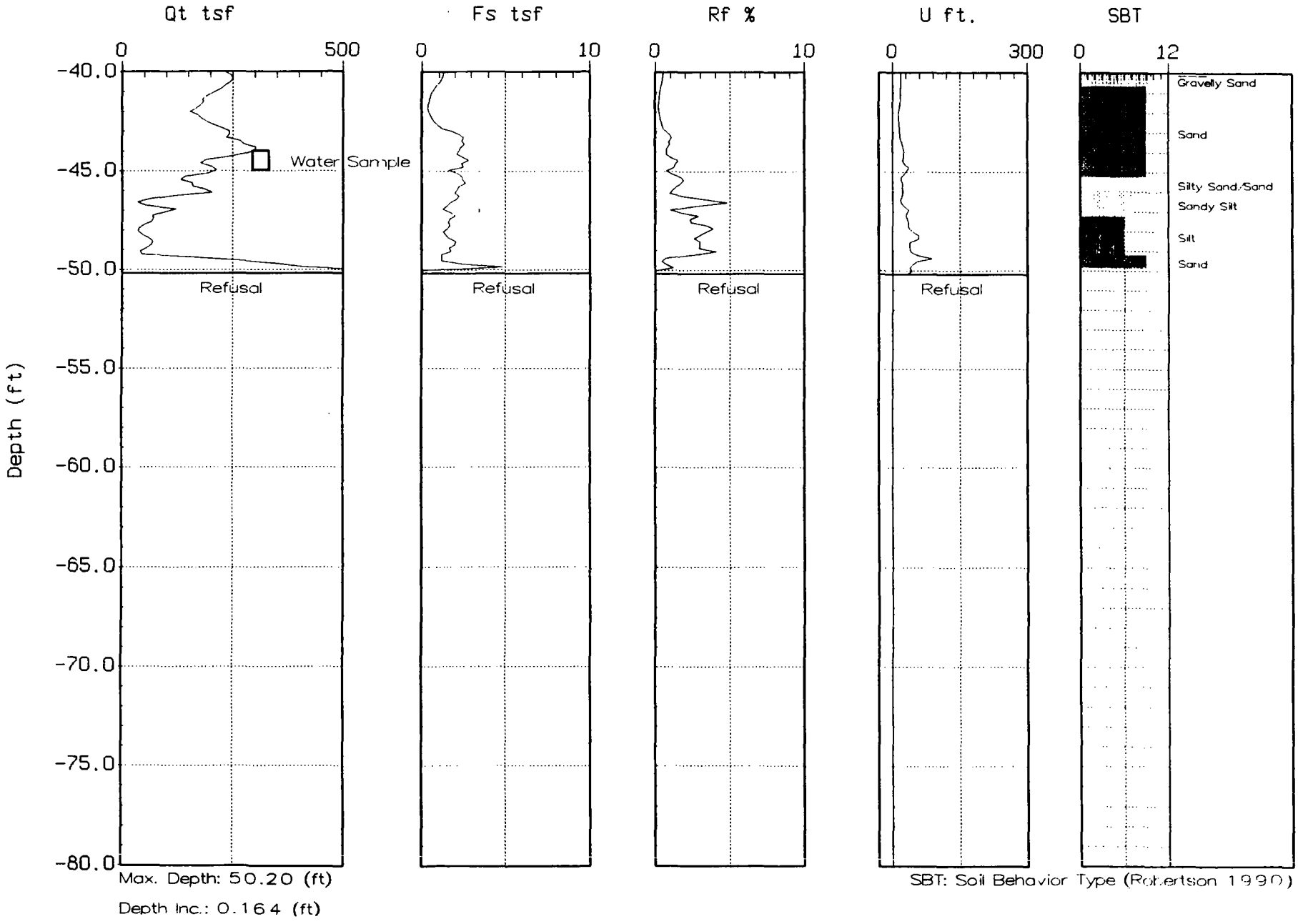
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-46A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:26:02 10:51

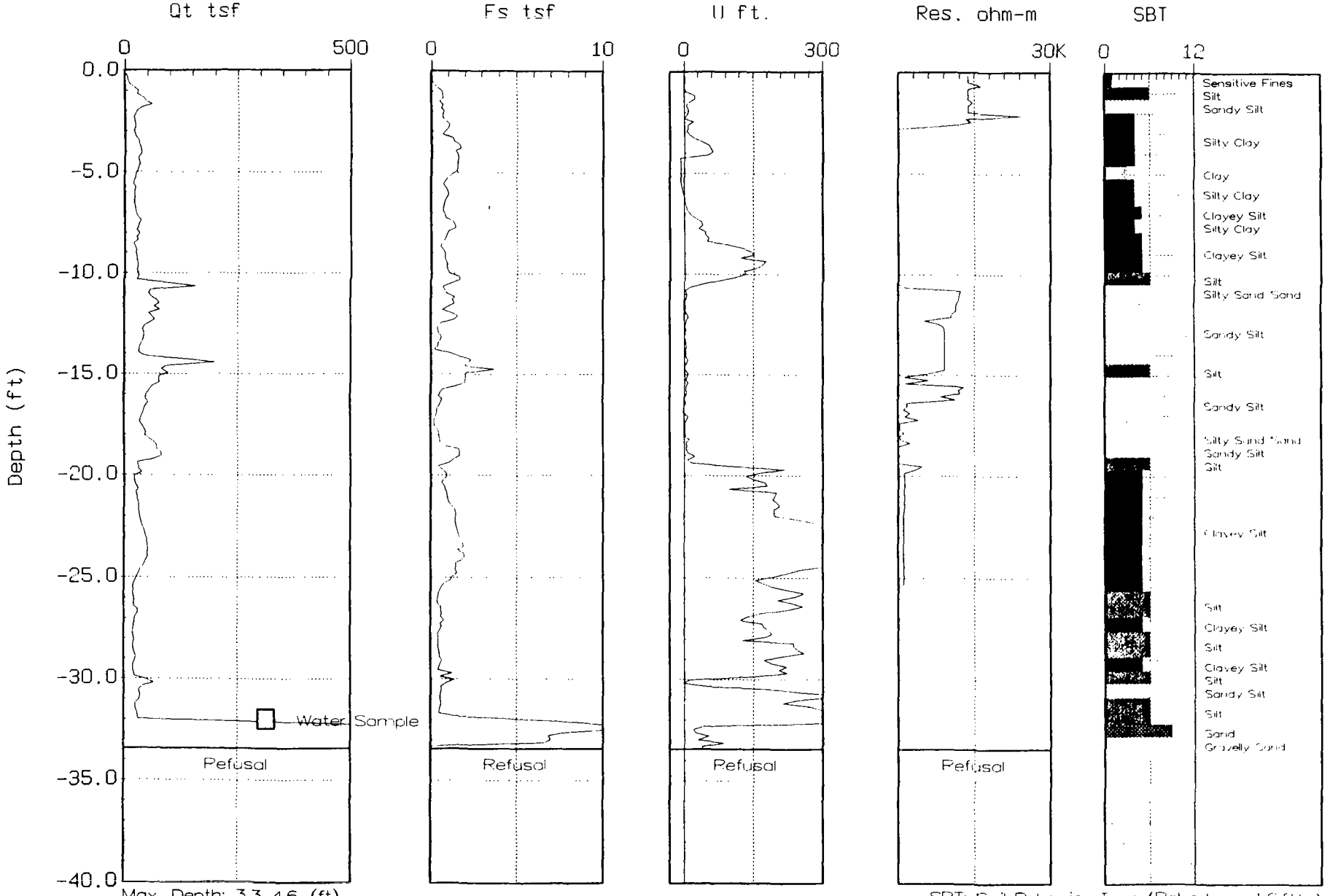


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-48
Location: DOWNER'S GROVE

Cone: 20 10N A 097
Date: 02:13:02 15:03



Max. Depth: 33.46 (ft)
Depth Inc.: 0.164 (ft)

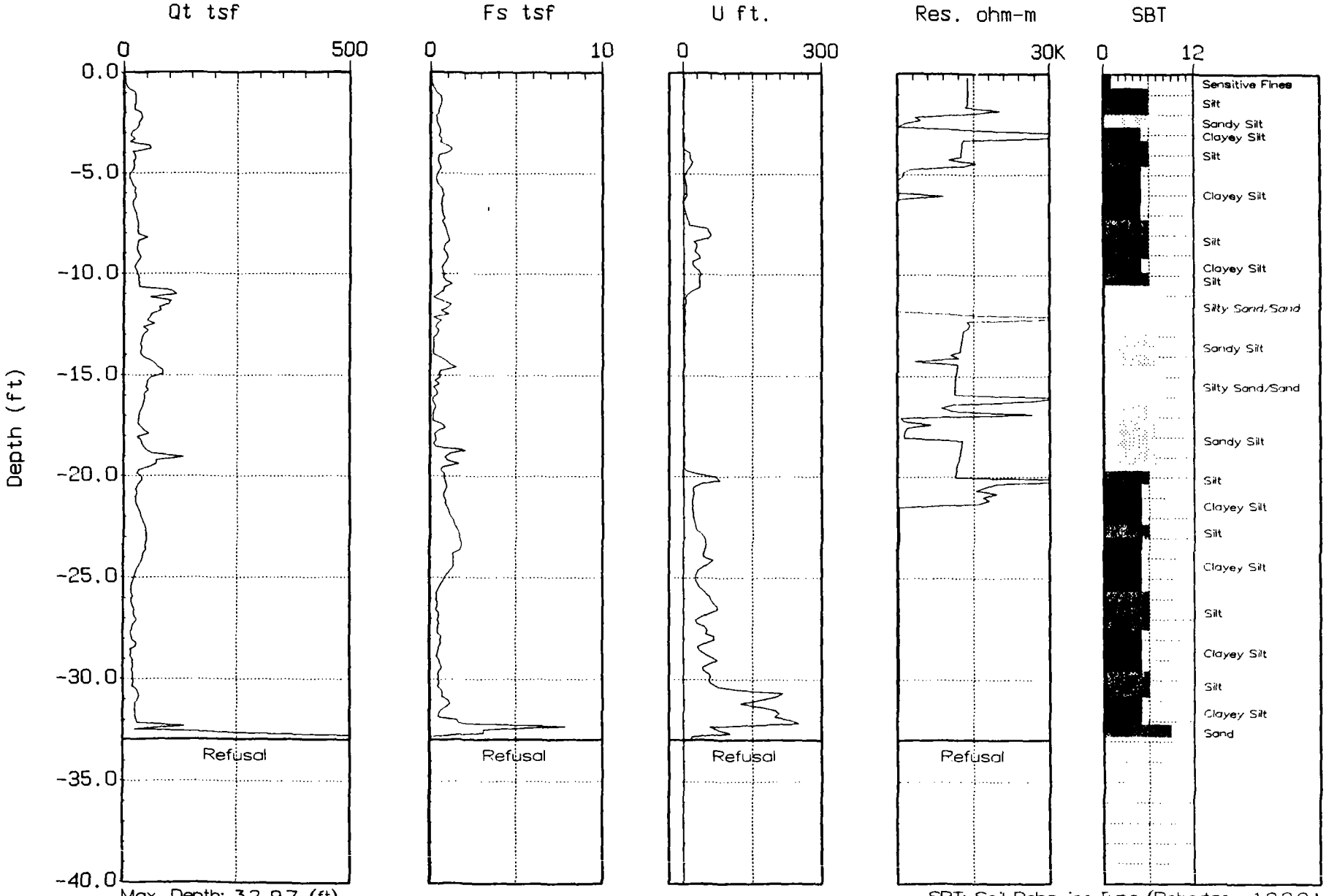
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-48A
Location: DOWNER'S GROVE

Cone: 20 TON A 098
Date: 02:14:02 06:52



Max. Depth: 32.97 (ft)
Depth Inc.: 0.164 (ft)

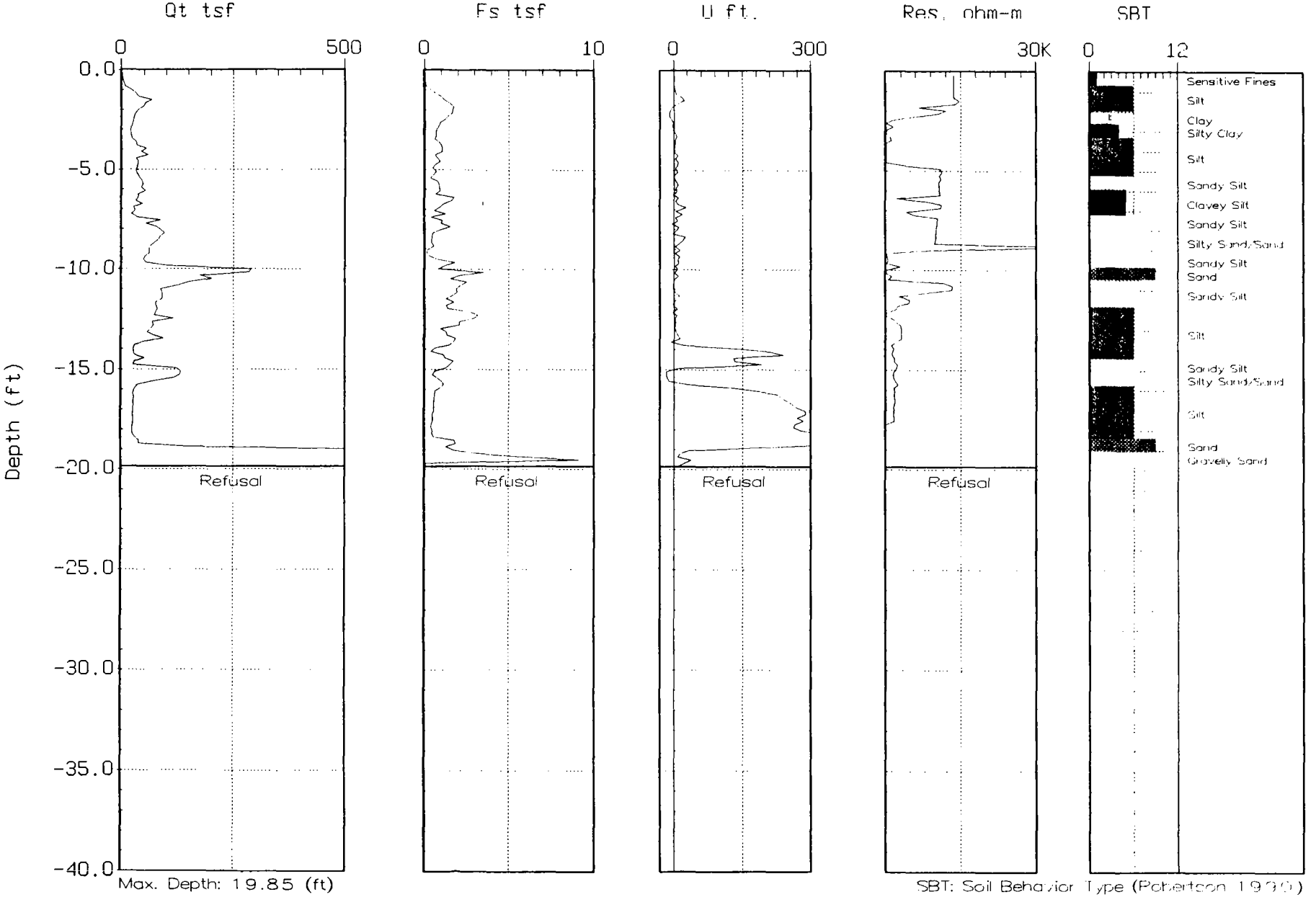
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-49
Location: DOWNER'S GROVE

Cone: 20 TON A 098
Date: 02:15:02 07:57



Max. Depth: 19.85 (ft)
Depth Inc.: 0.164 (ft)

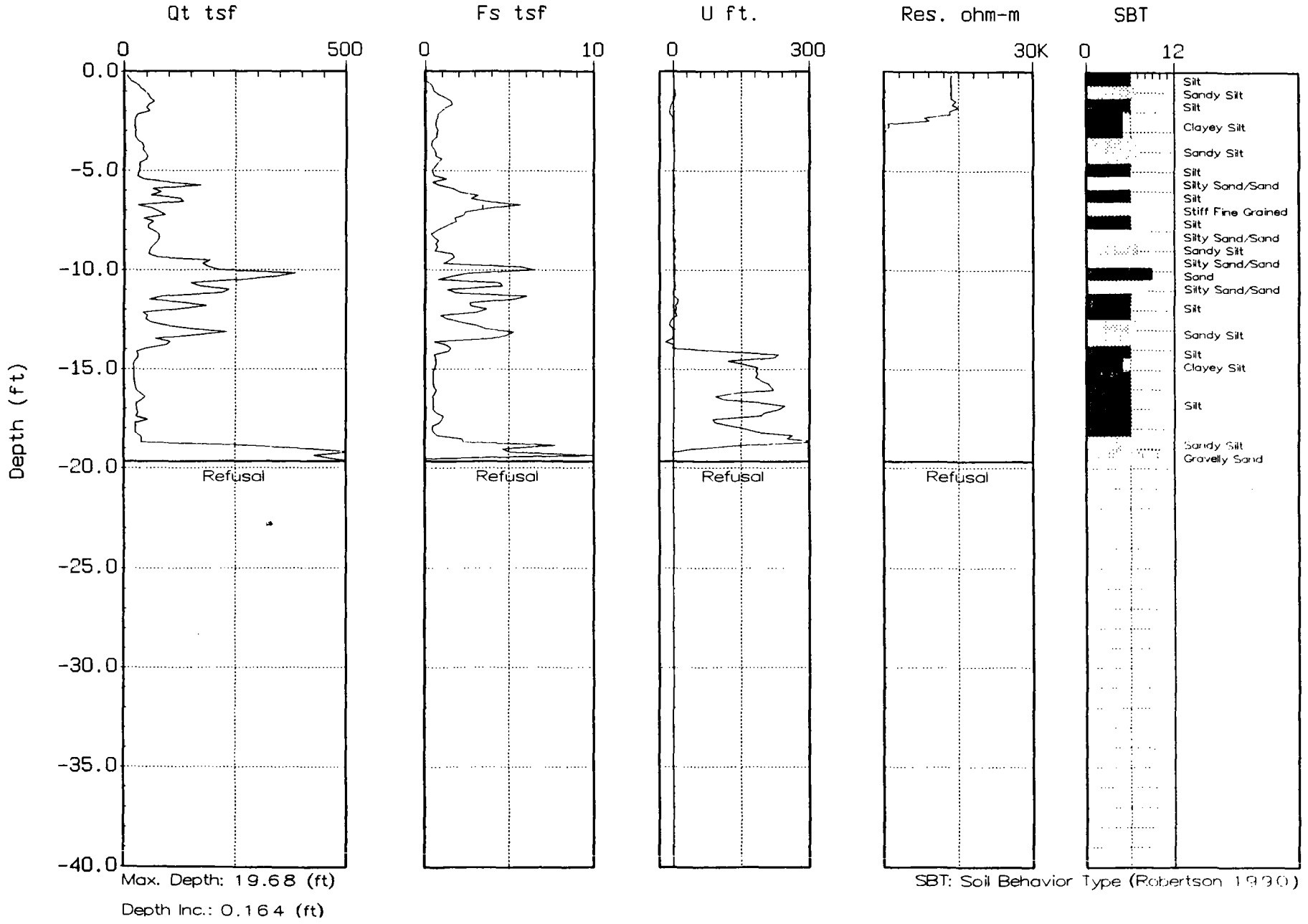
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-49A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:15:02 11:13



Max. Depth: 19.68 (ft)
Depth Inc.: 0.164 (ft)

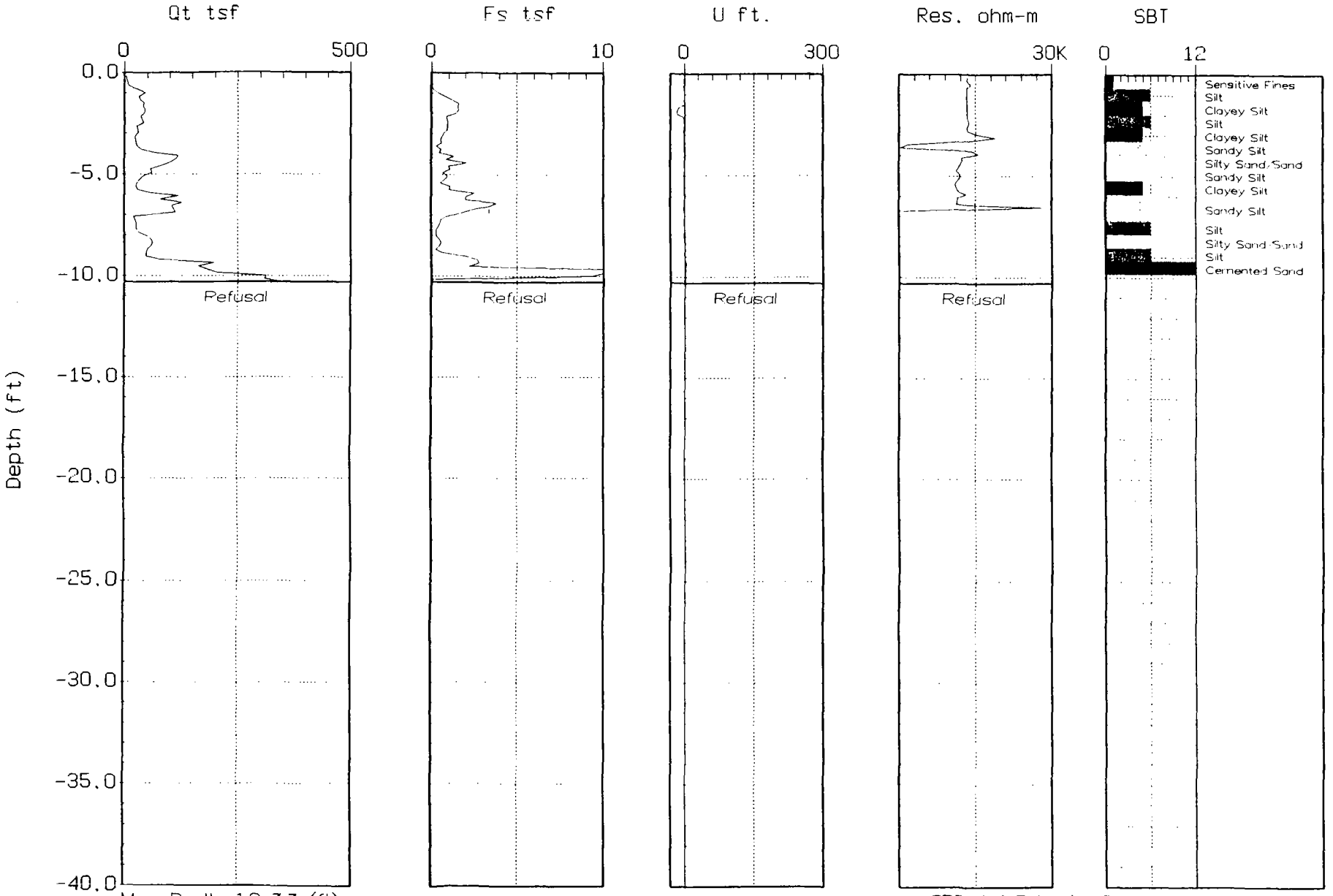
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-49B
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:15:02 12:02



Max. Depth: 10.33 (ft)
Depth Inc.: 0.164 (ft)

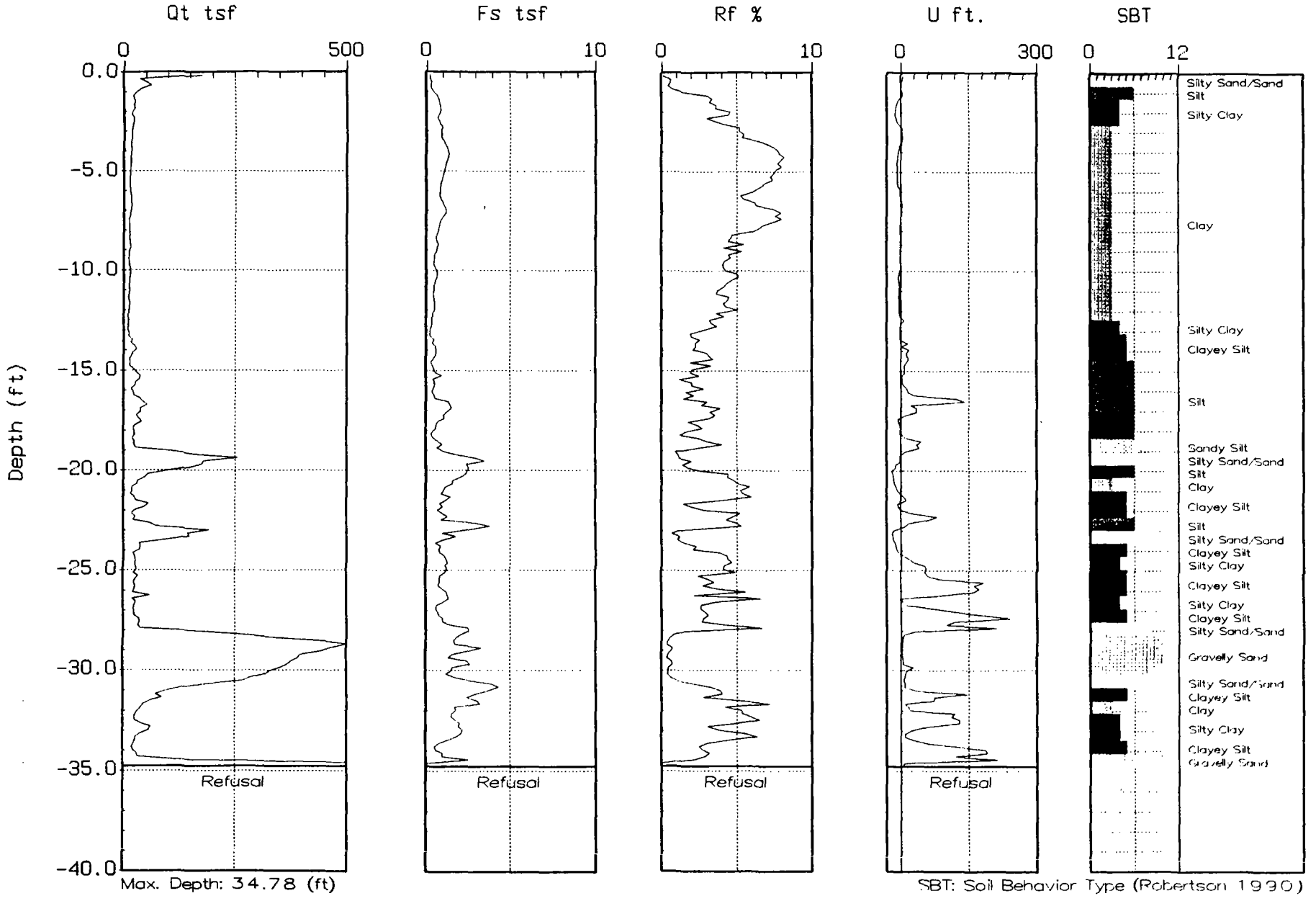
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-50
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 13:48



Max. Depth: 34.78 (ft)
Depth Inc.: 0.164 (ft)

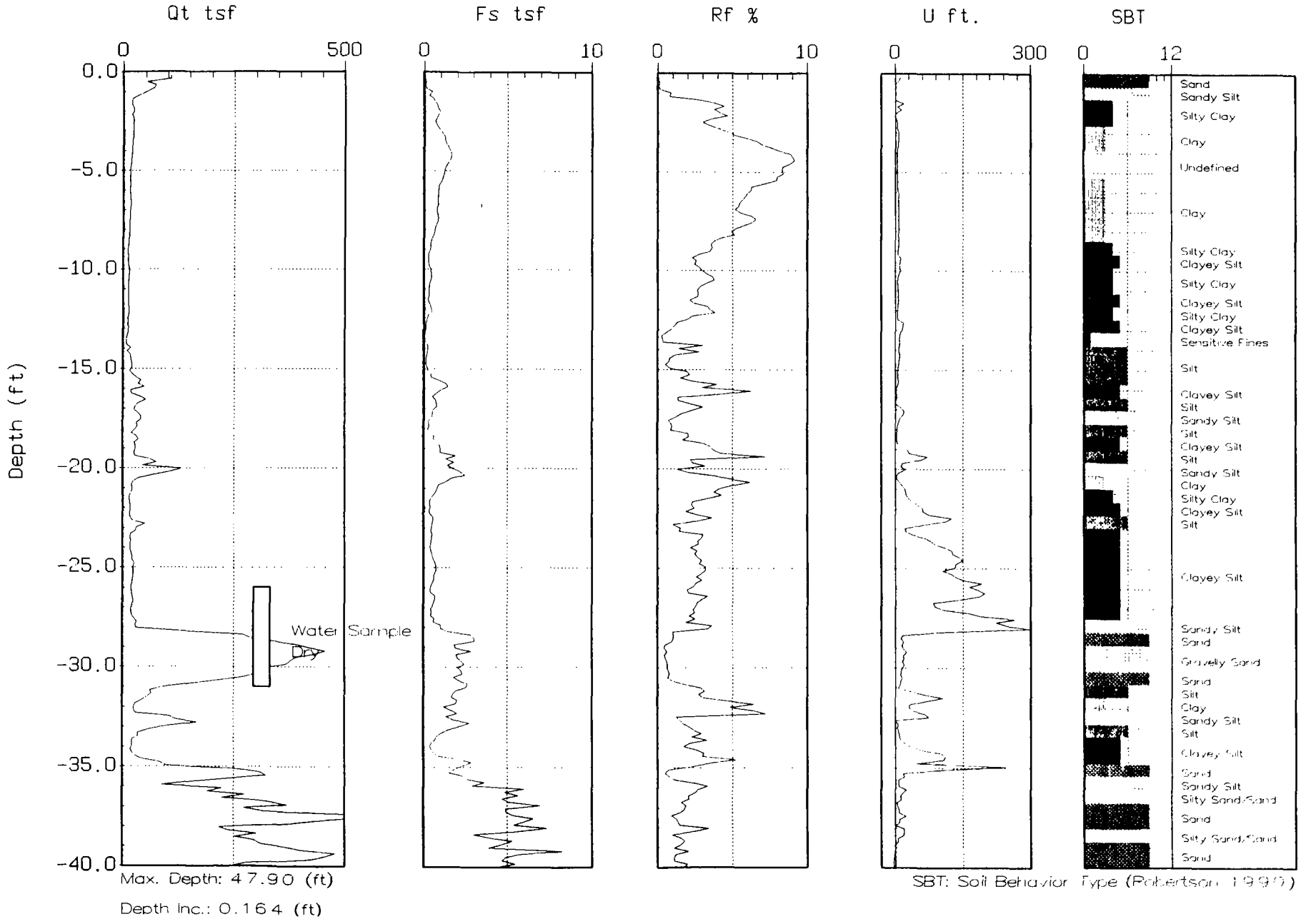
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-50A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 14:19



Max. Depth: 47.90 (ft)
Depth Inc.: 0.164 (ft)

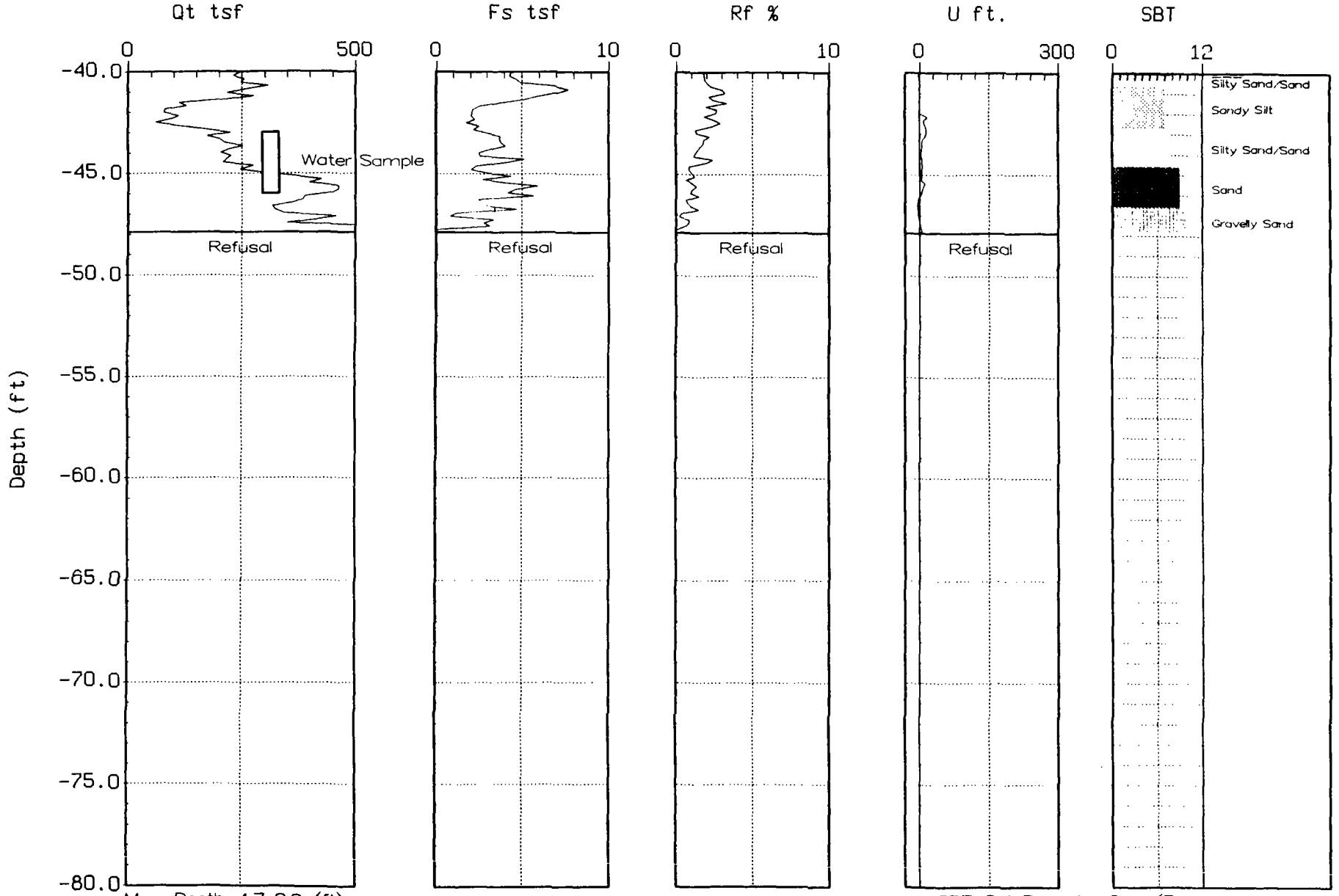
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-50A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 14:19



Max. Depth: 47.90 (ft)
Depth Inc.: 0.164 (ft)

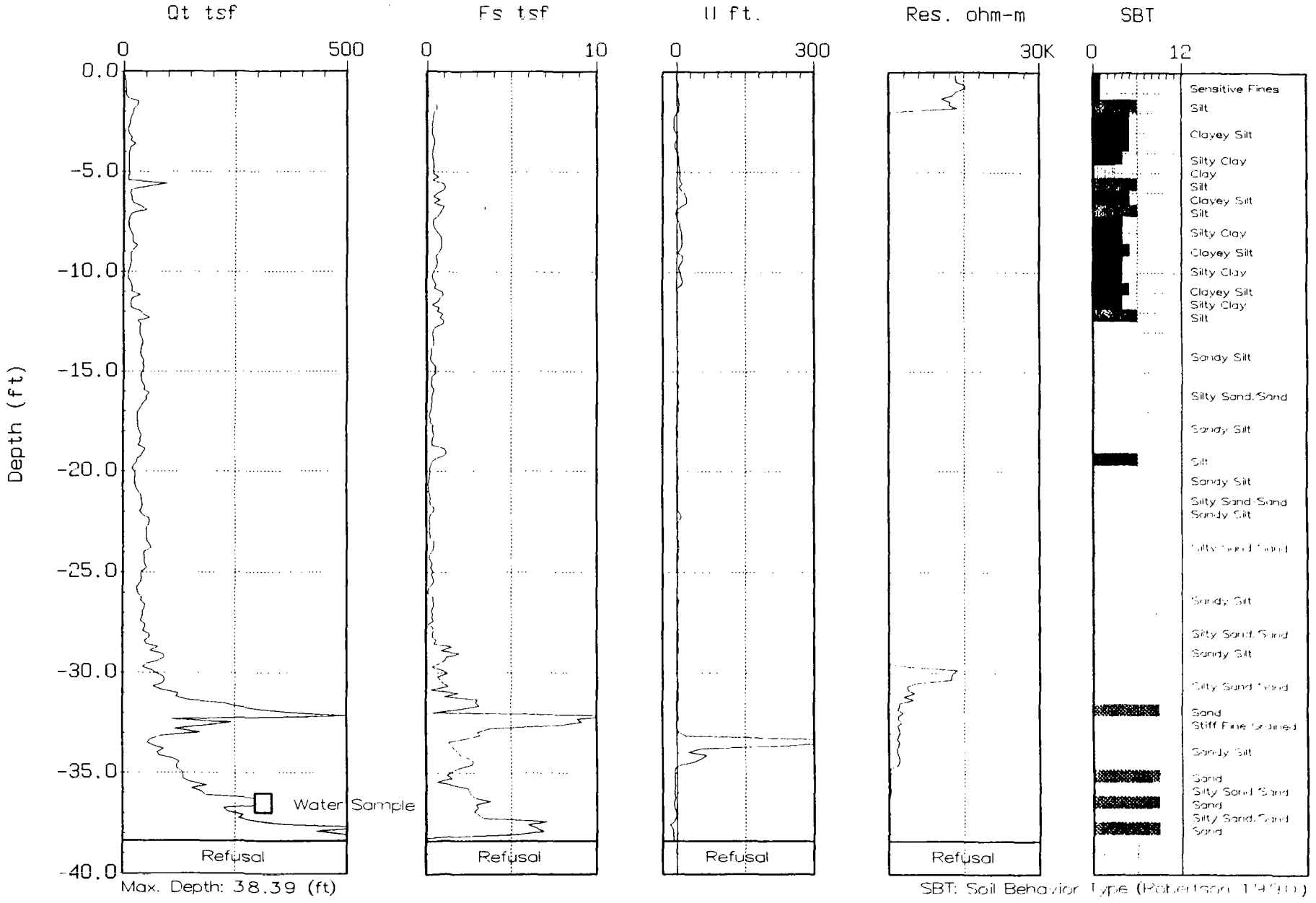
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-51
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:15:02 12:56



Max. Depth: 38.39 (ft)
Depth Inc.: 0.164 (ft)

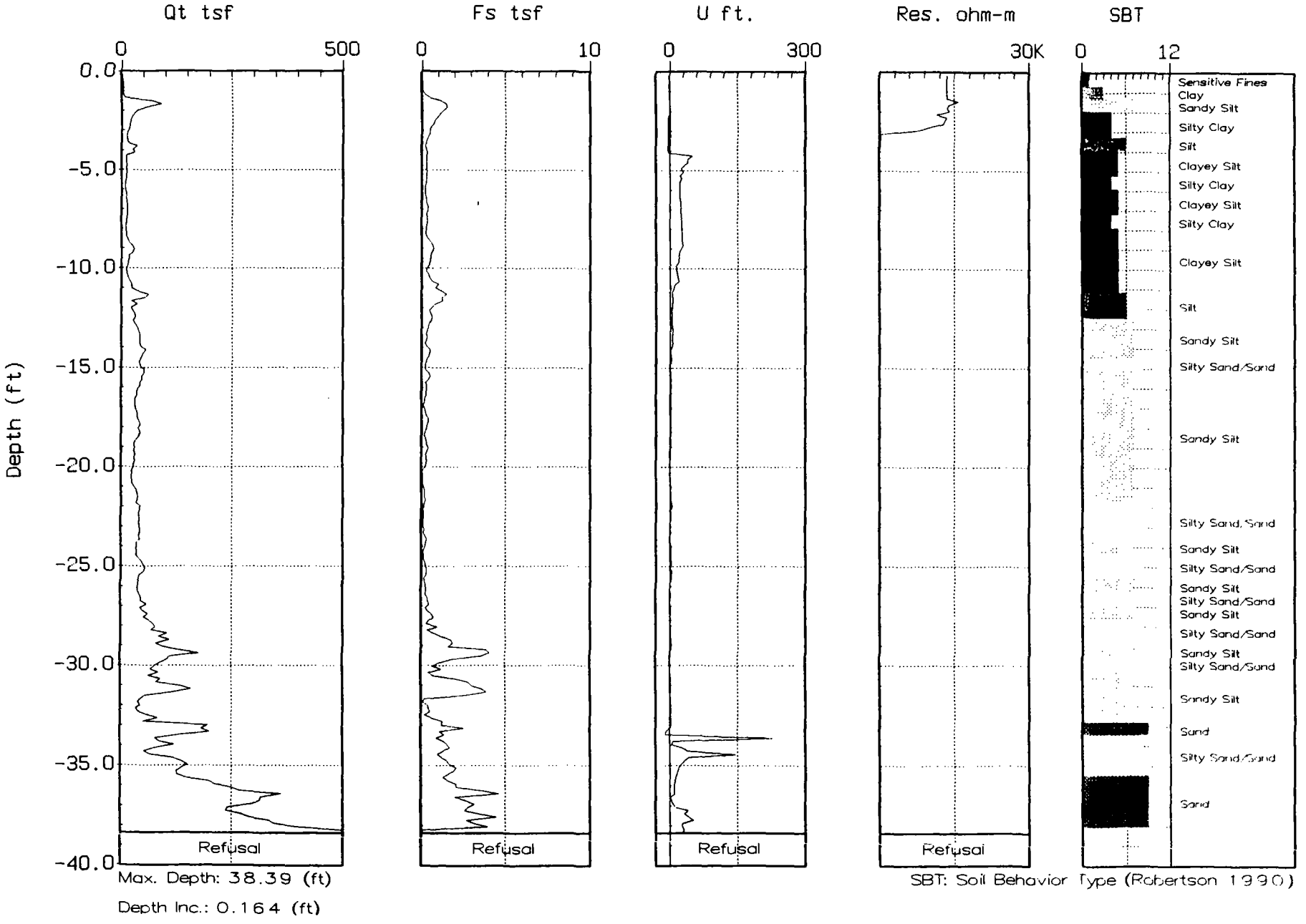
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-51A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:15:02 13:40



Max. Depth: 38.39 (ft)
Depth Inc.: 0.164 (ft)

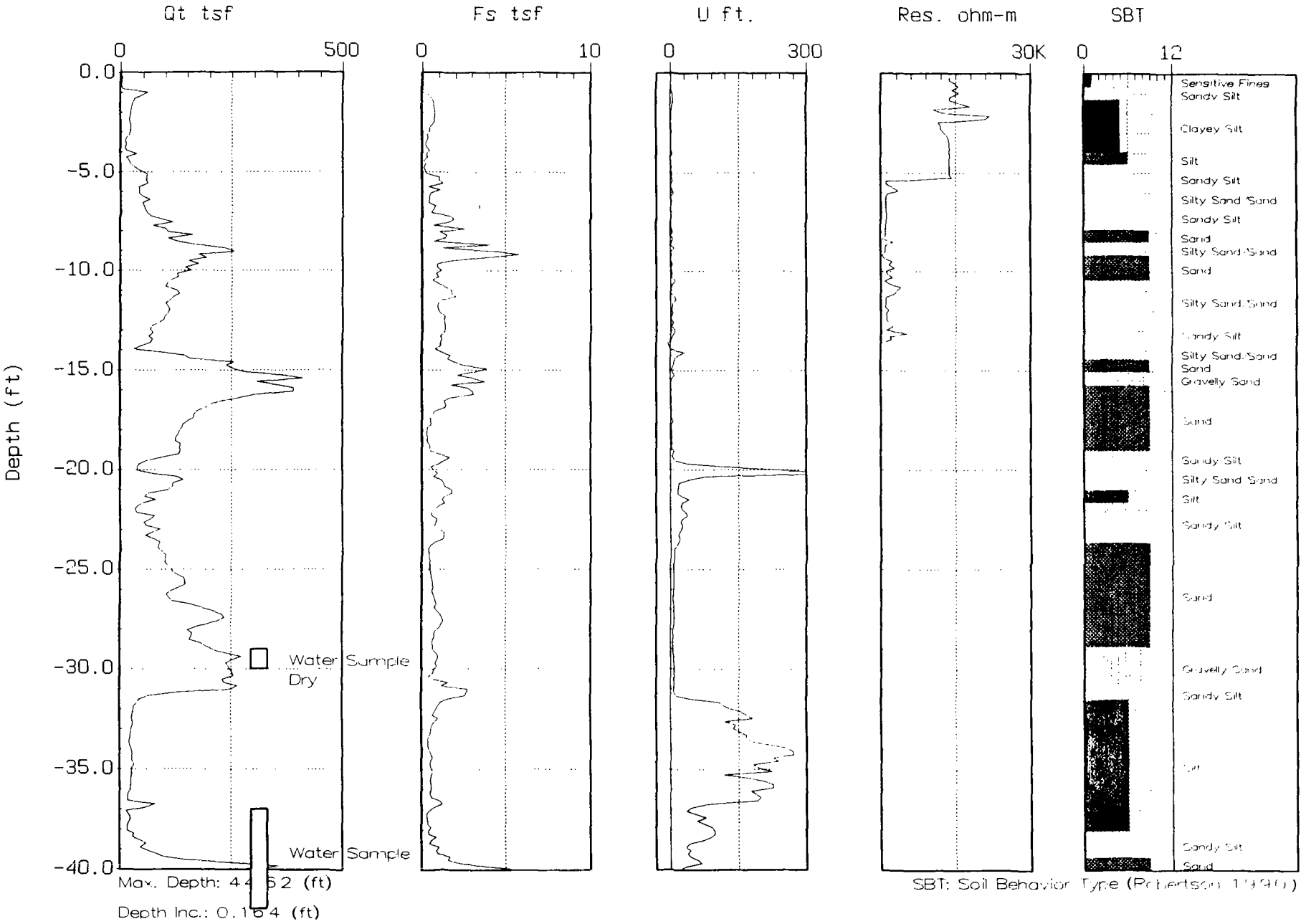
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-52
Location: DOWNIER'S GROVE

Cone: 20 TON A 112
Date: 02:18:02 09:09



Max. Depth: 44.62 (ft)
Depth Inc.: 0.164 (ft)

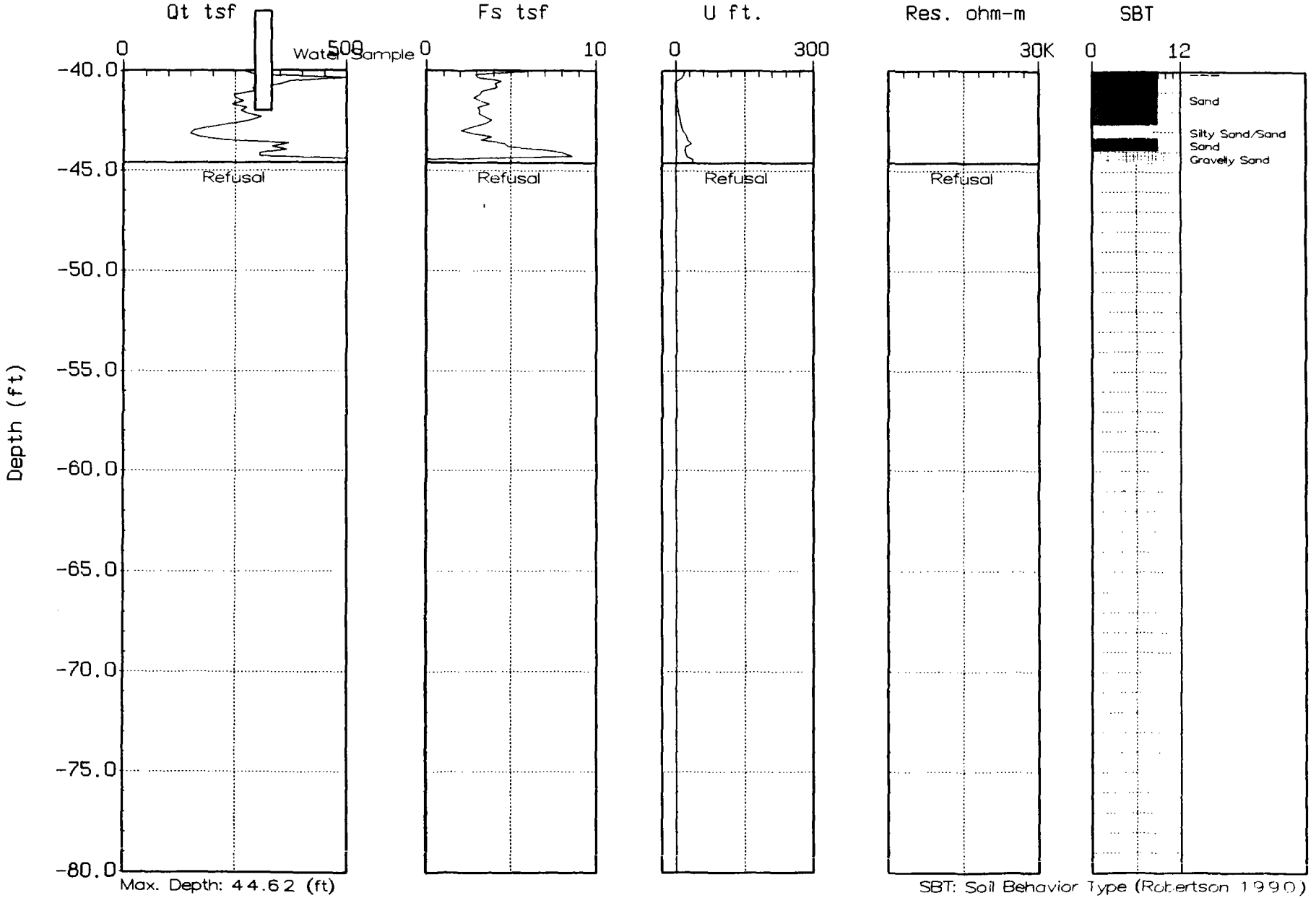
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-52
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:18:02 09:09



Max. Depth: 44.62 (ft)
Depth Inc.: 0.164 (ft)

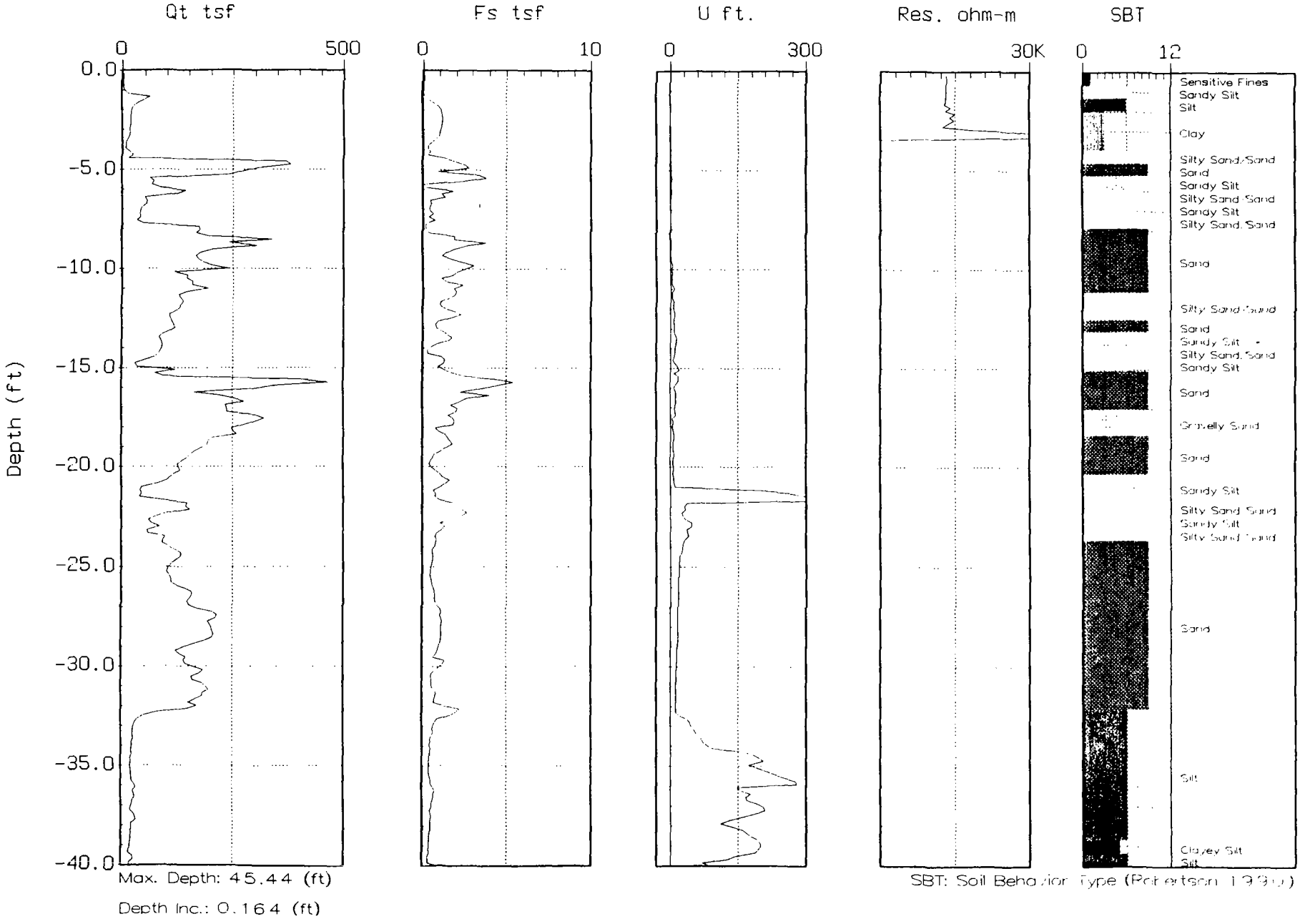
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-52A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:18:02 10:33



Max. Depth: 45.44 (ft)
Depth Inc.: 0.164 (ft)

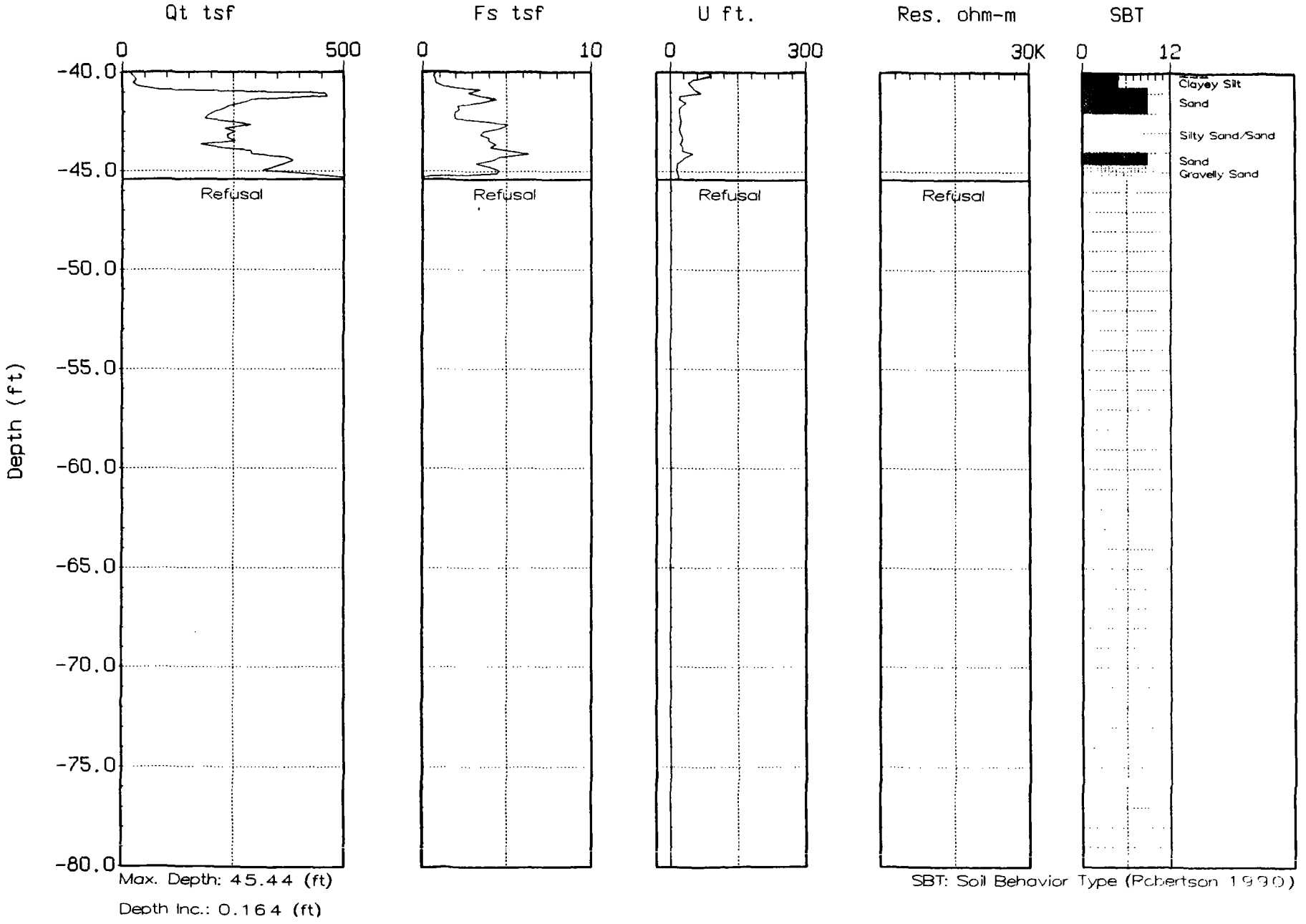
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-52A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:18:02 10:33

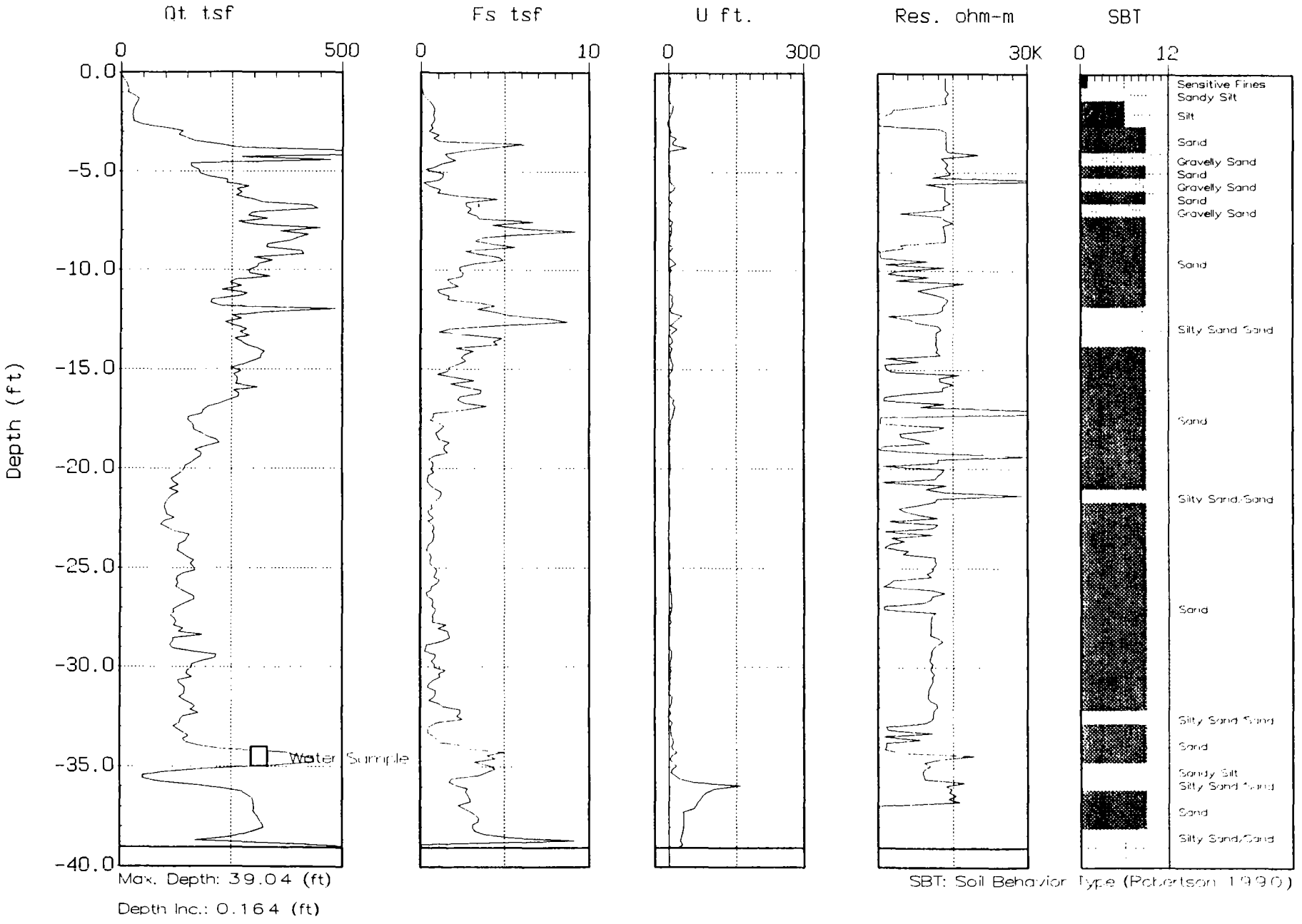


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-53
Location: DOWNER'S GROVE

Cone: 20 TON A 098
Date: 02:14:02 12:59



Max. Depth: 39.04 (ft)
Depth Inc.: 0.164 (ft)

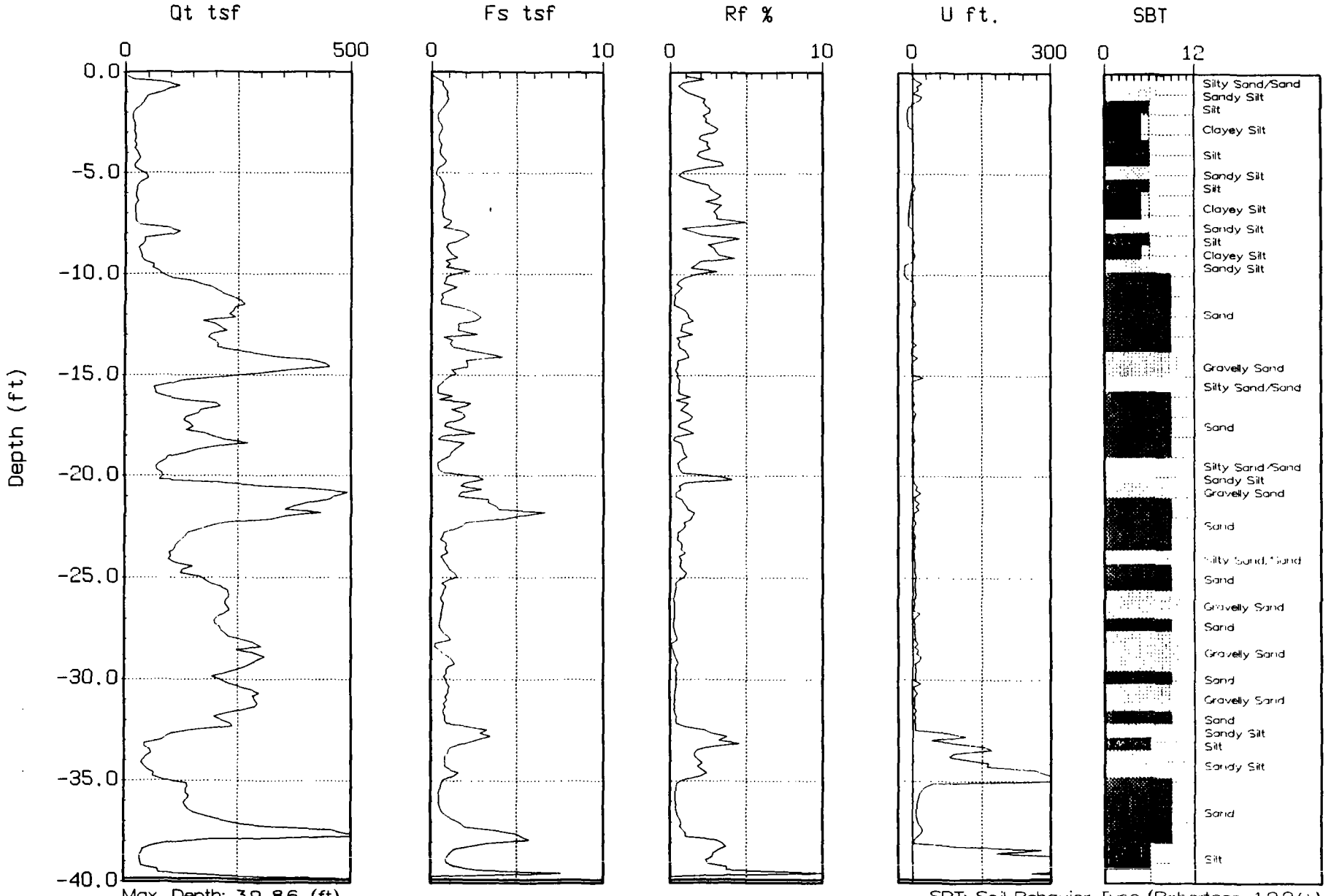
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-54
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:18:02 13:29



Max. Depth: 39.86 (ft)
Depth Inc.: 0.164 (ft)

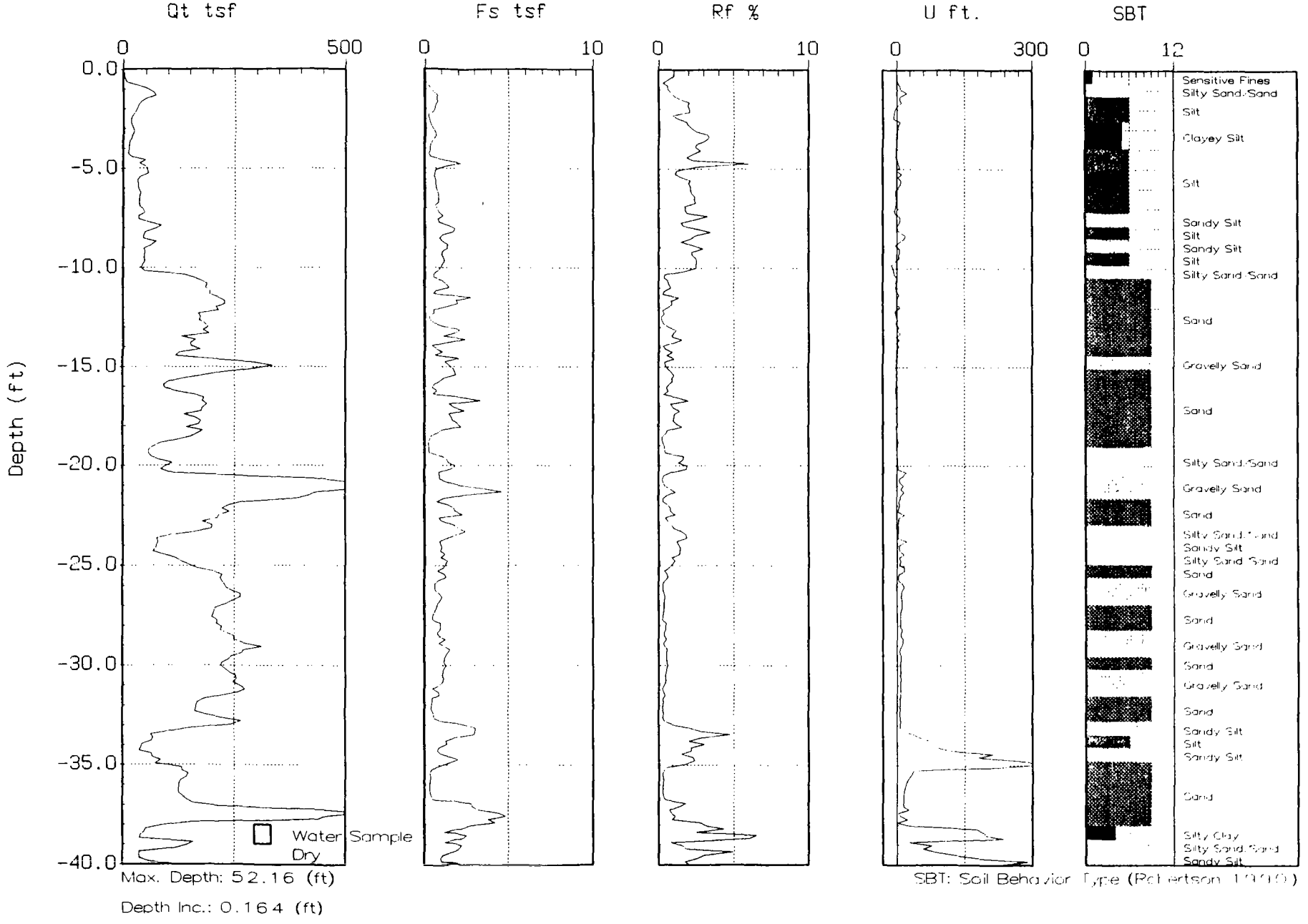
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-54A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:18:02 14:04



Max. Depth: 52.16 (ft)
Depth Inc.: 0.164 (ft)

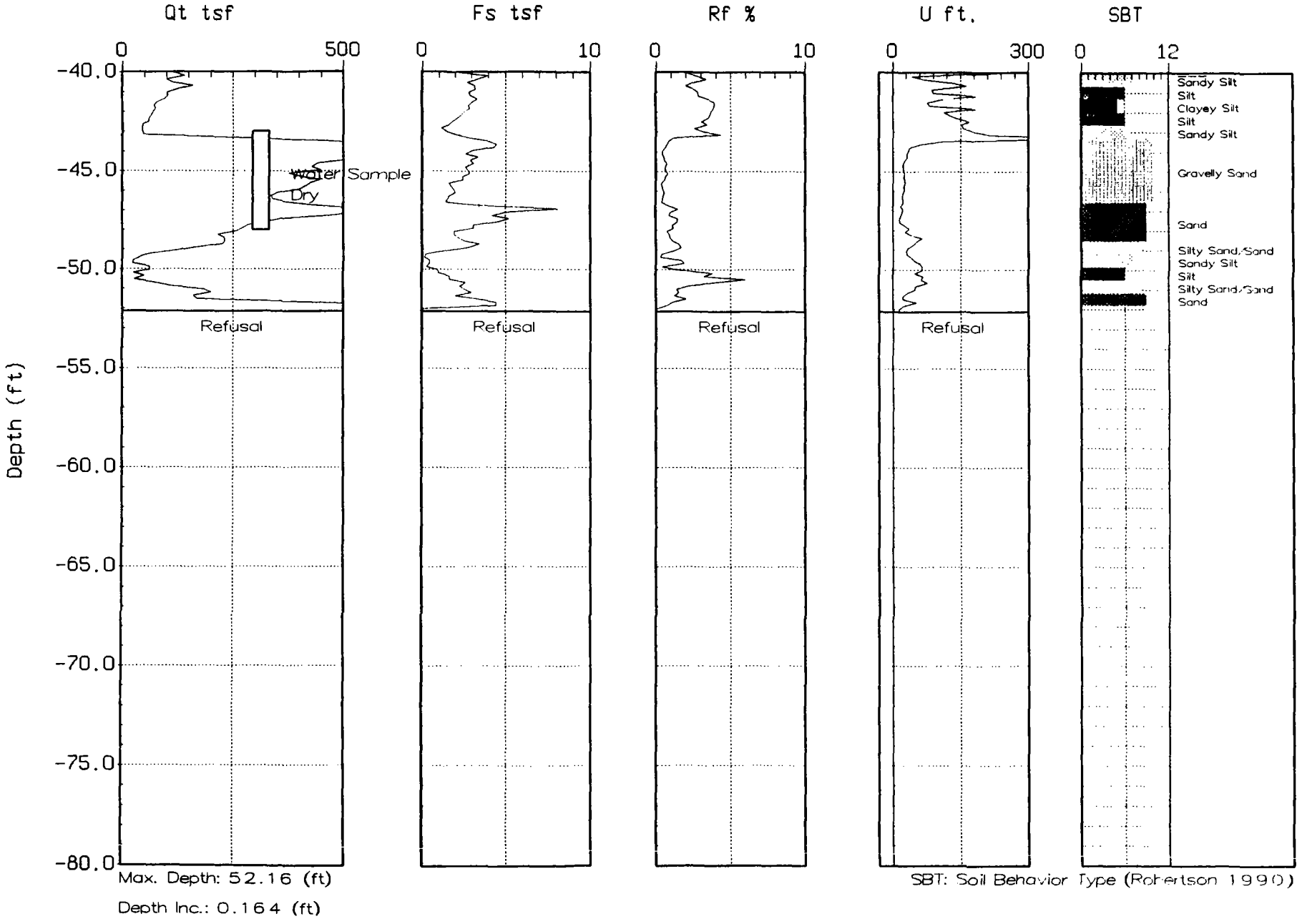
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-54A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:18:02 14:04



Max. Depth: 52.16 (ft)
Depth Inc.: 0.164 (ft)

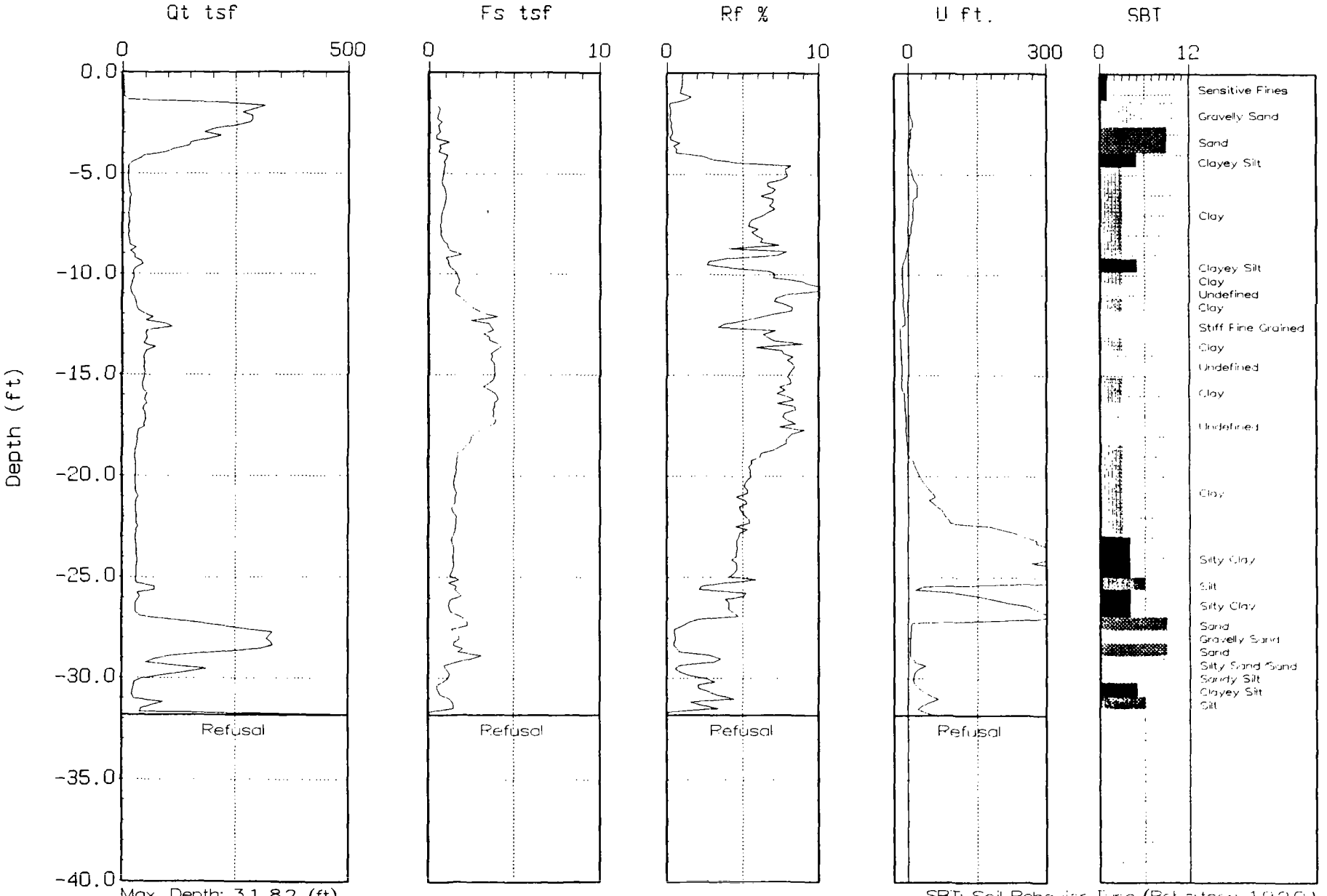
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-55
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 07:54



Max. Depth: 31.82 (ft)
Depth Inc.: 0.164 (ft)

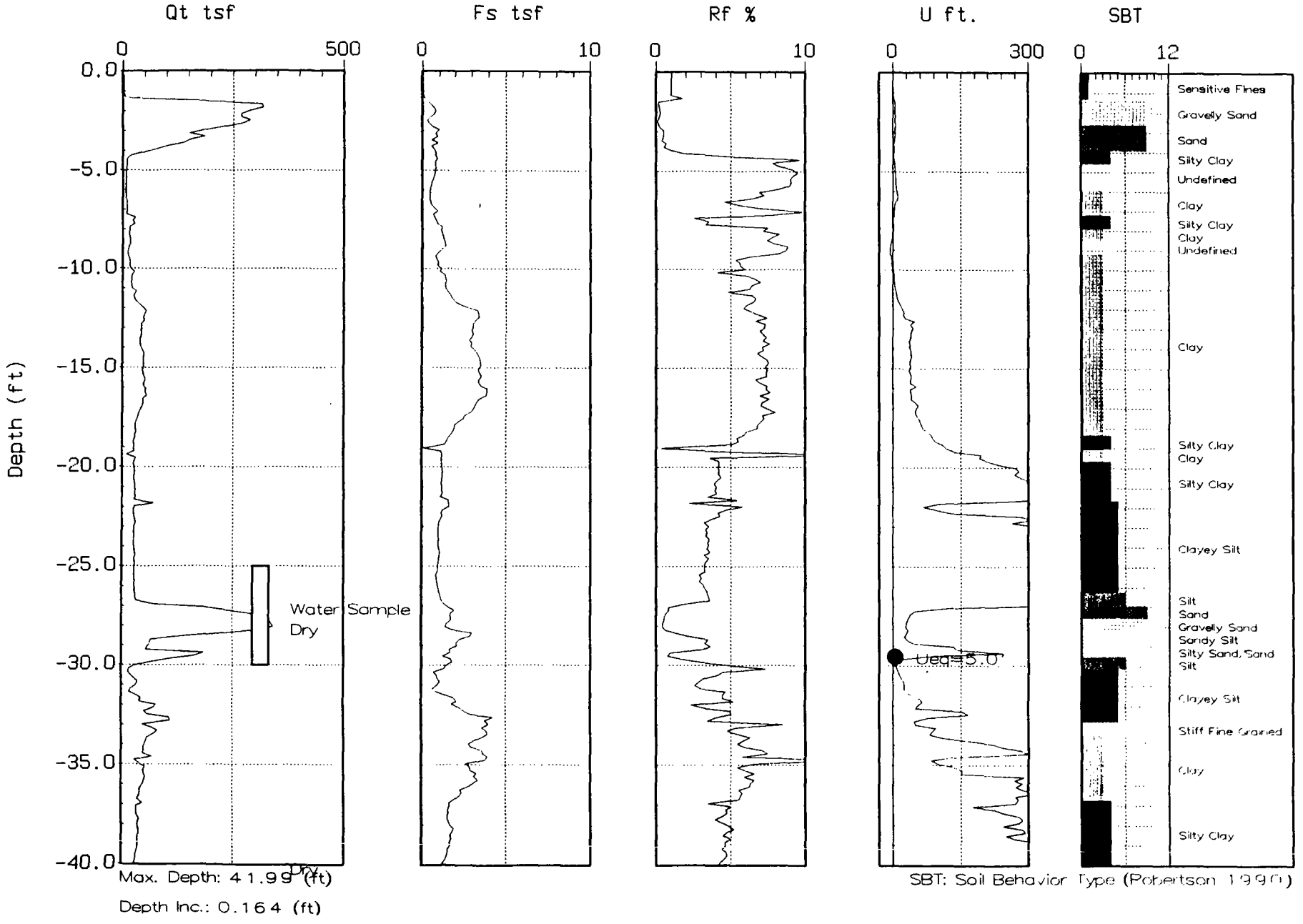
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-55A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 08:31



Max. Depth: 41.99 (ft)
Depth Inc.: 0.164 (ft)

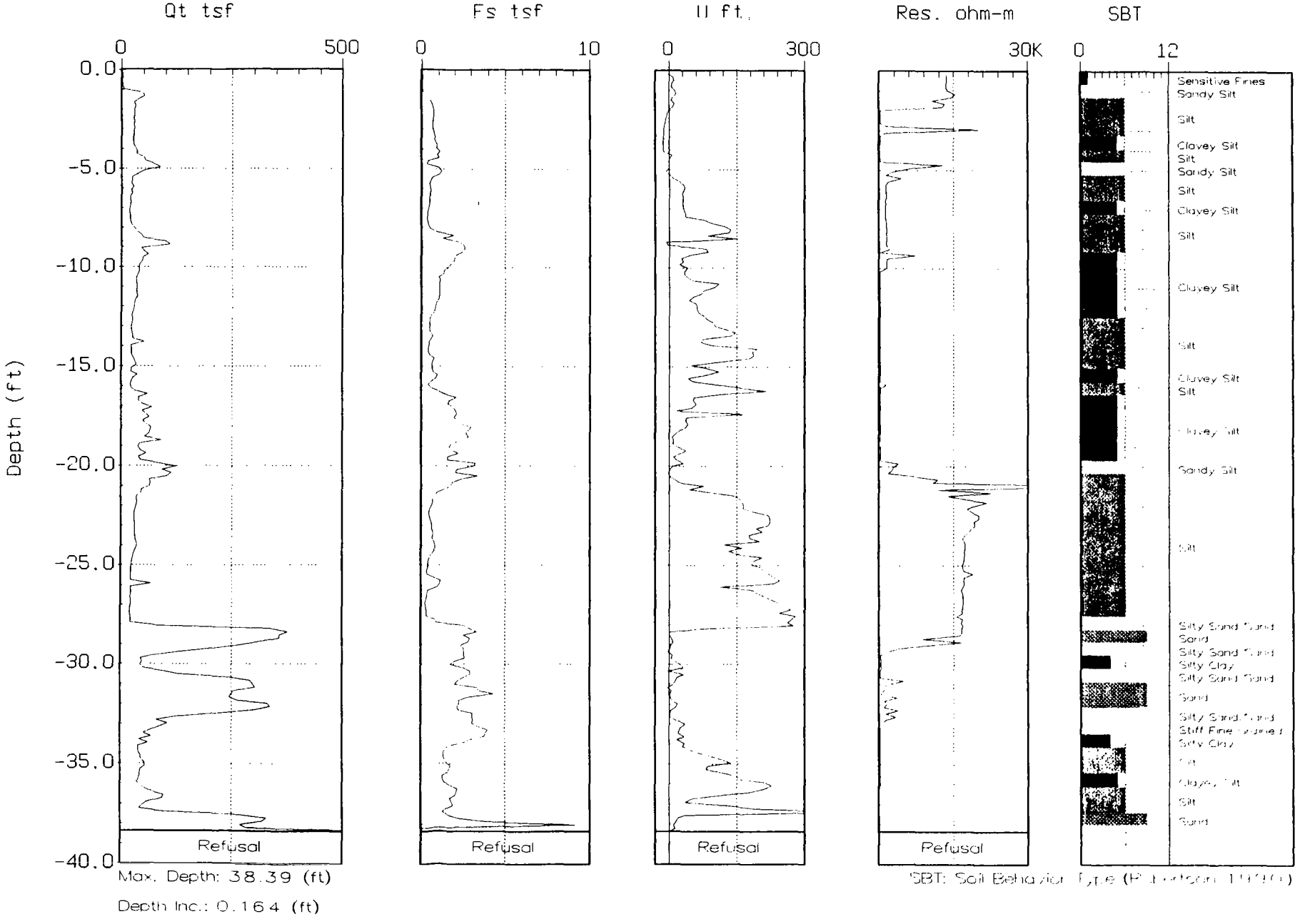
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-56
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:15:02 15:23



Max. Depth: 38.39 (ft)
Depth Inc.: 0.164 (ft)

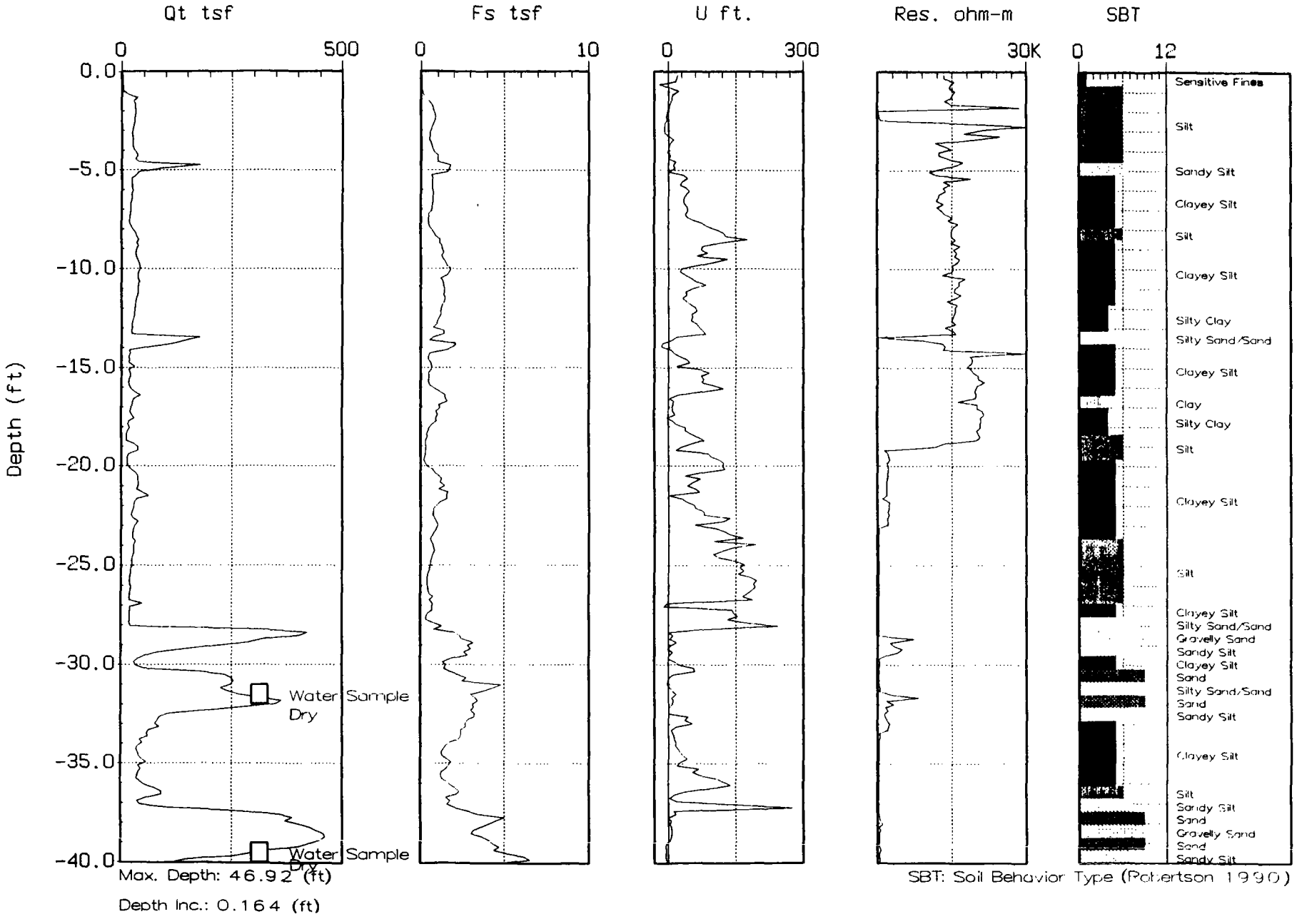
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-56A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:15:02 15:59



Max. Depth: 46.92 (ft)
Depth Inc.: 0.164 (ft)

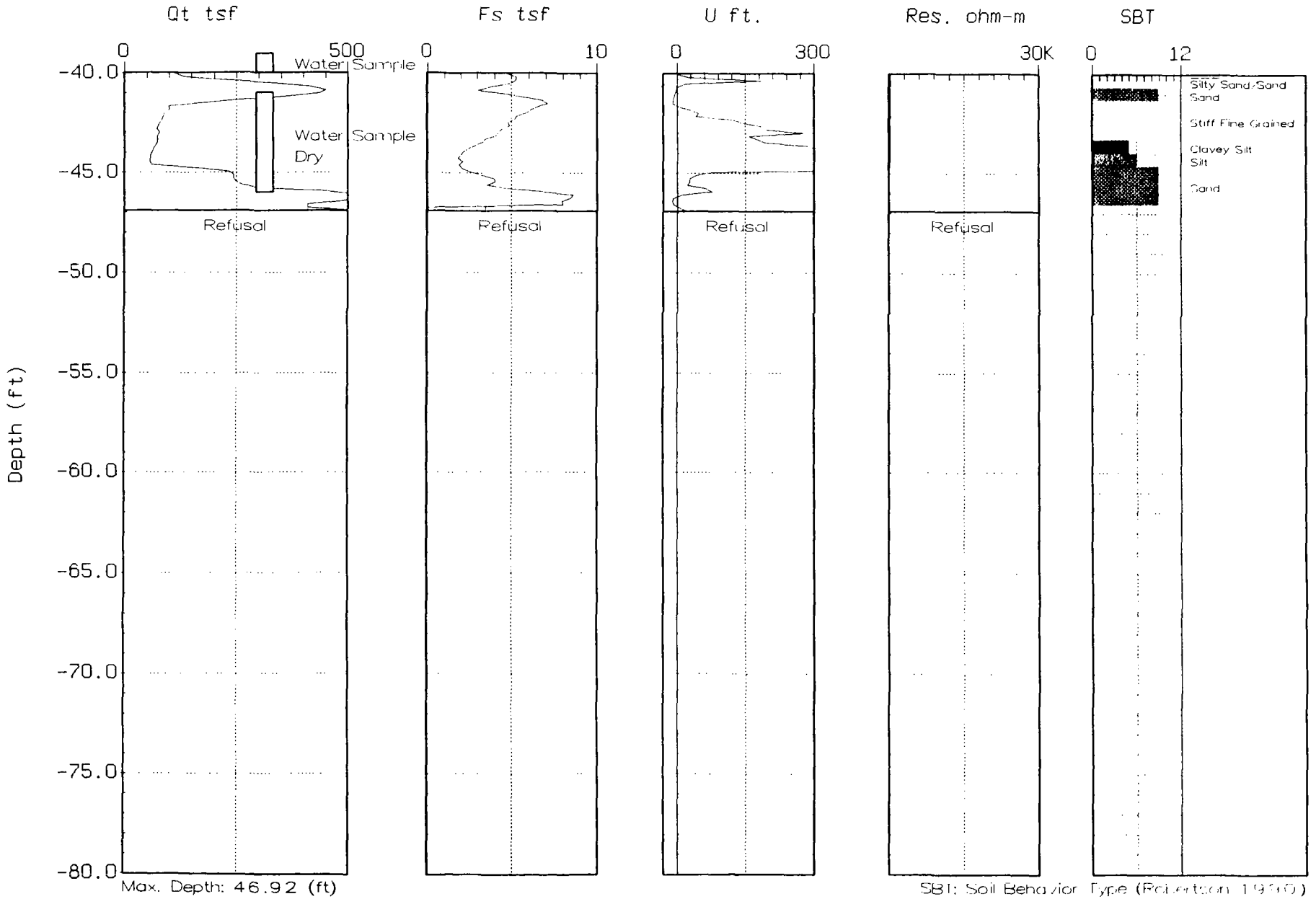
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT 56A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:15:02 15:59



Max. Depth: 46.92 (ft)
Depth Inc.: 0.164 (ft)

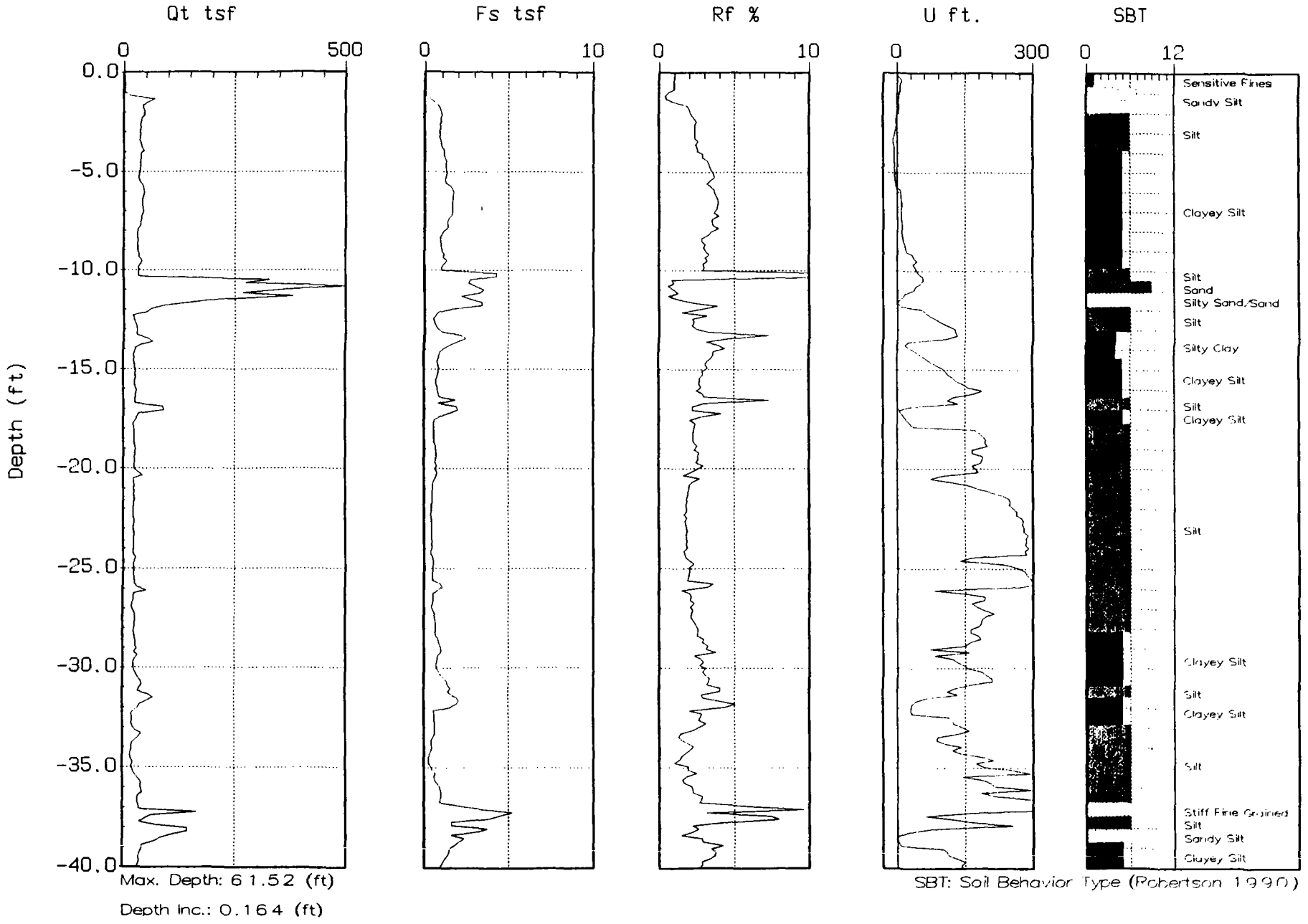
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-57
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 08:15



Max. Depth: 61.52 (ft)
Depth Inc.: 0.164 (ft)

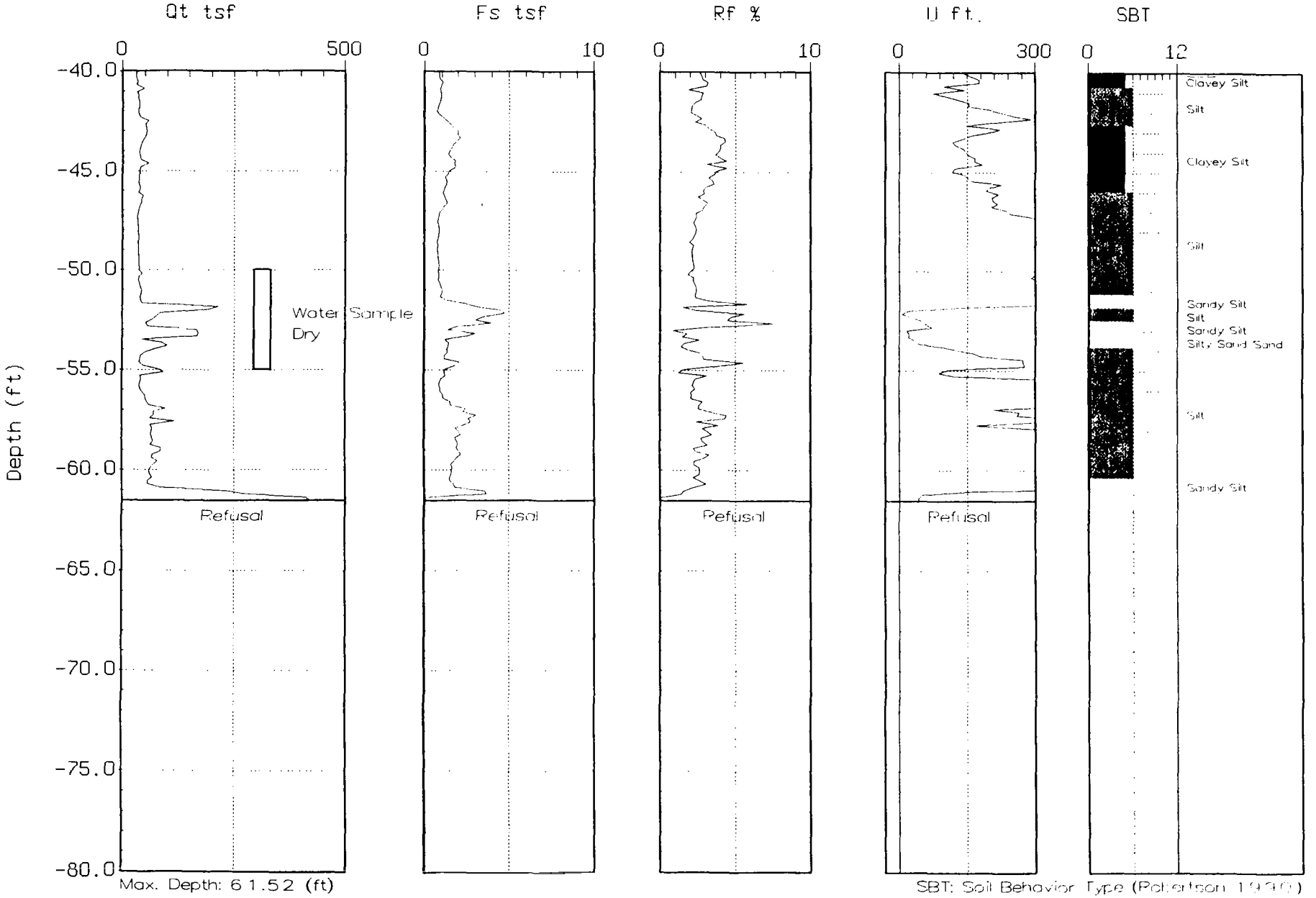
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-57
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 08:15



Max. Depth: 61.52 (ft)
Depth Inc.: 0.164 (ft)

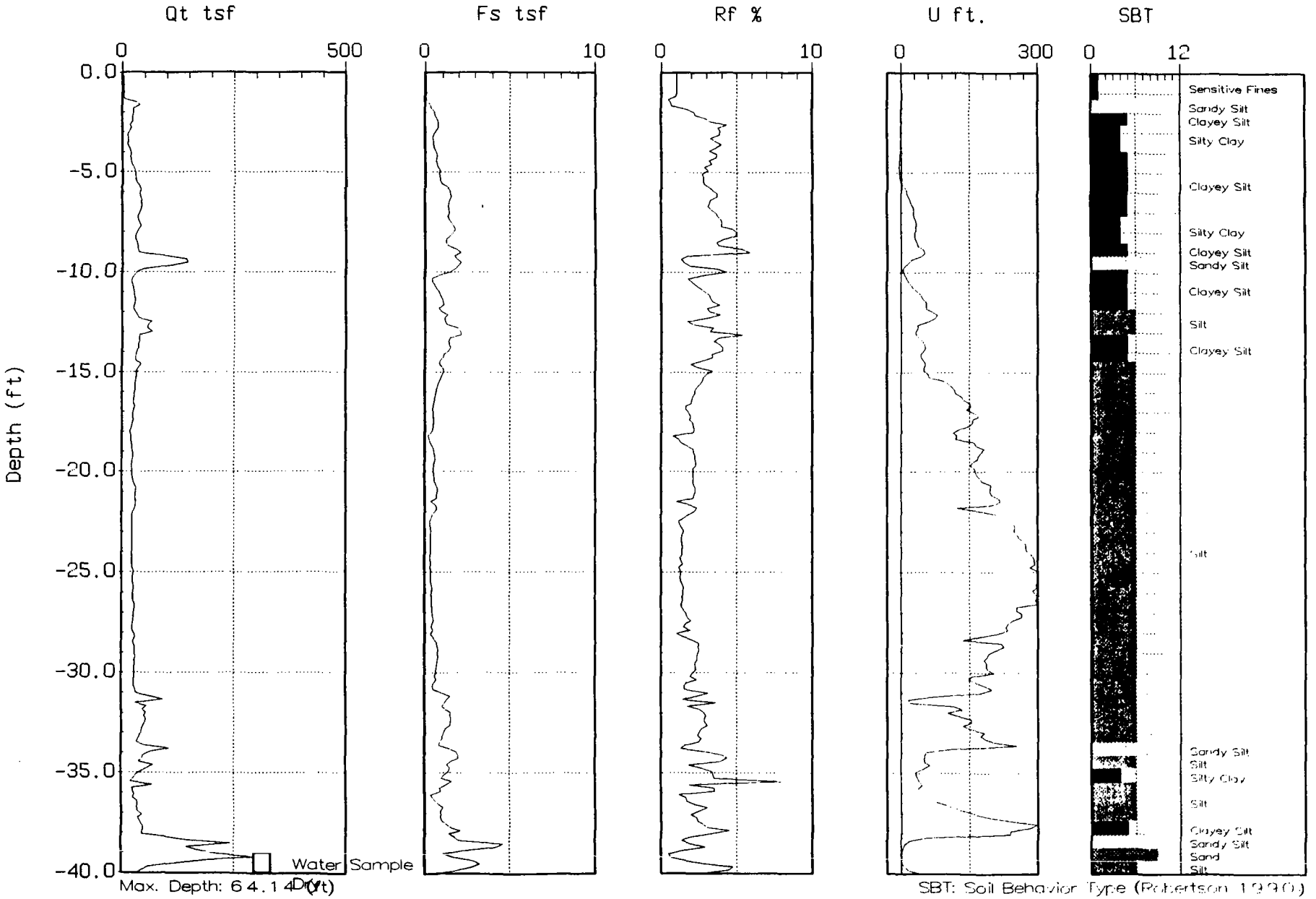
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-58
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:20:02 08:14



Max. Depth: 64.14 (ft)
Depth Inc.: 0.164 (ft)

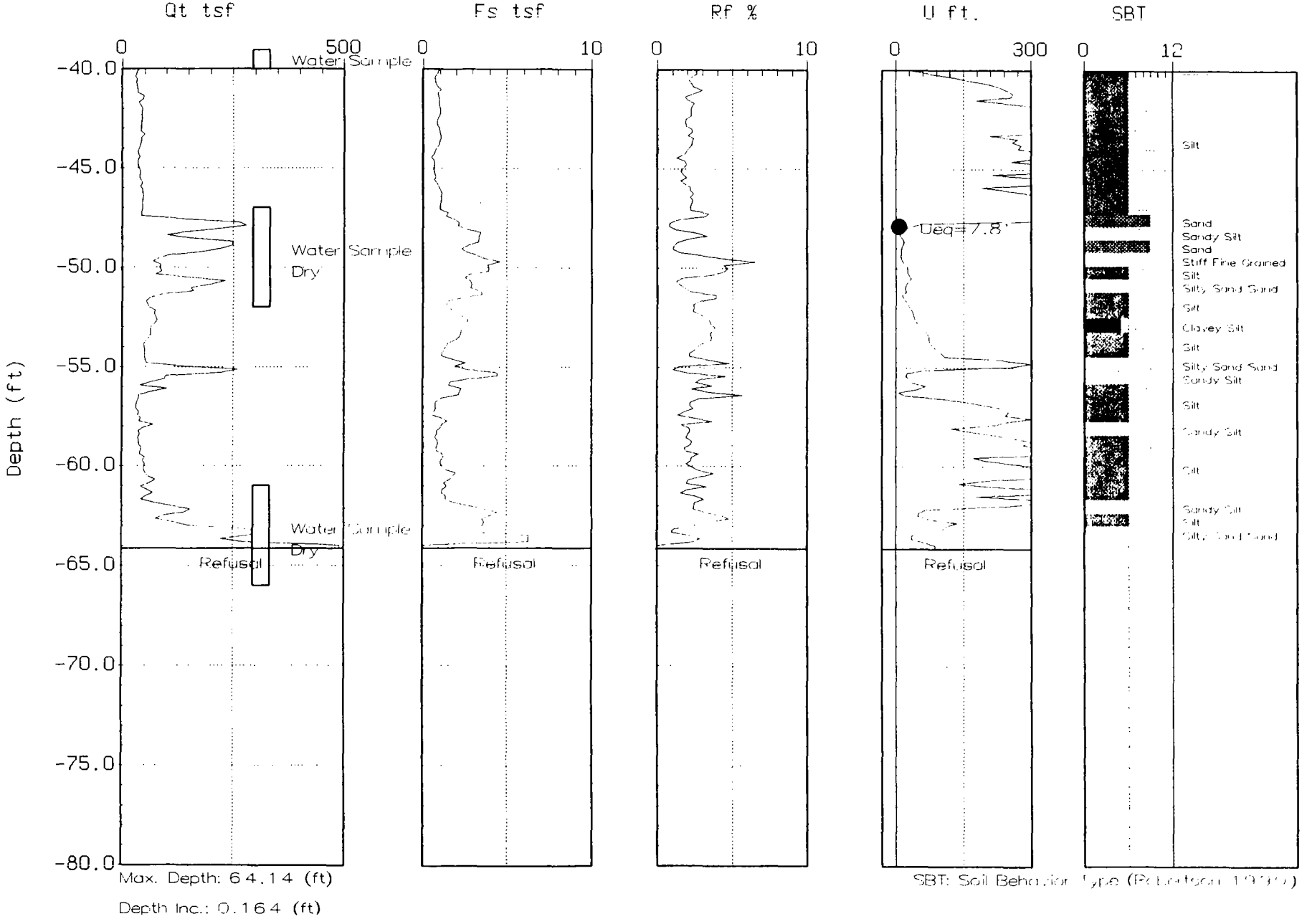
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-58
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:20:02 08:14

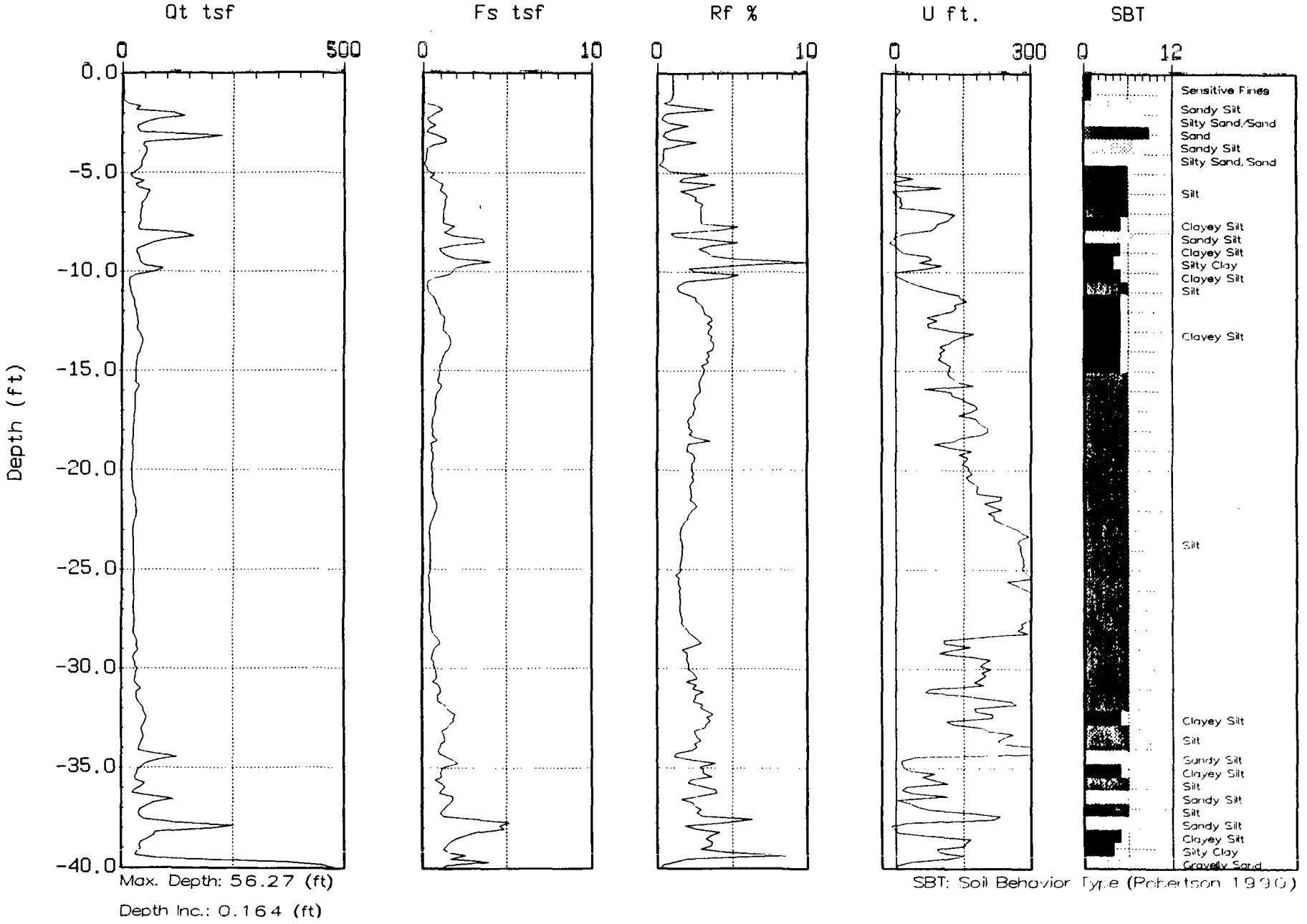


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-58A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:20:02 09:33



Max. Depth: 56.27 (ft)
Depth Inc.: 0.164 (ft)

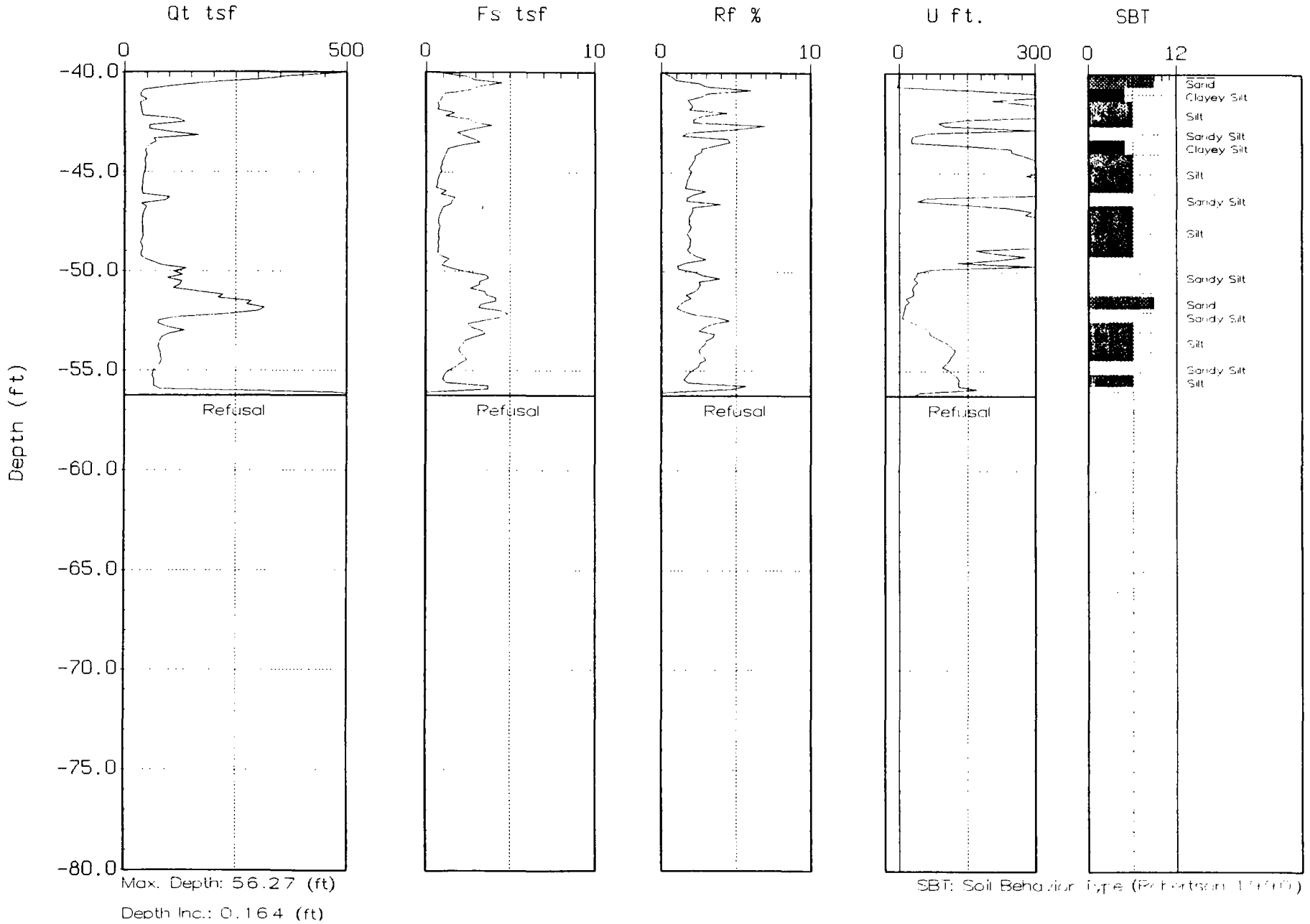
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-58A
Location: DOWNIER'S GROVE

Cone: 20 TON A 112
Date: 02:20:02 09:33

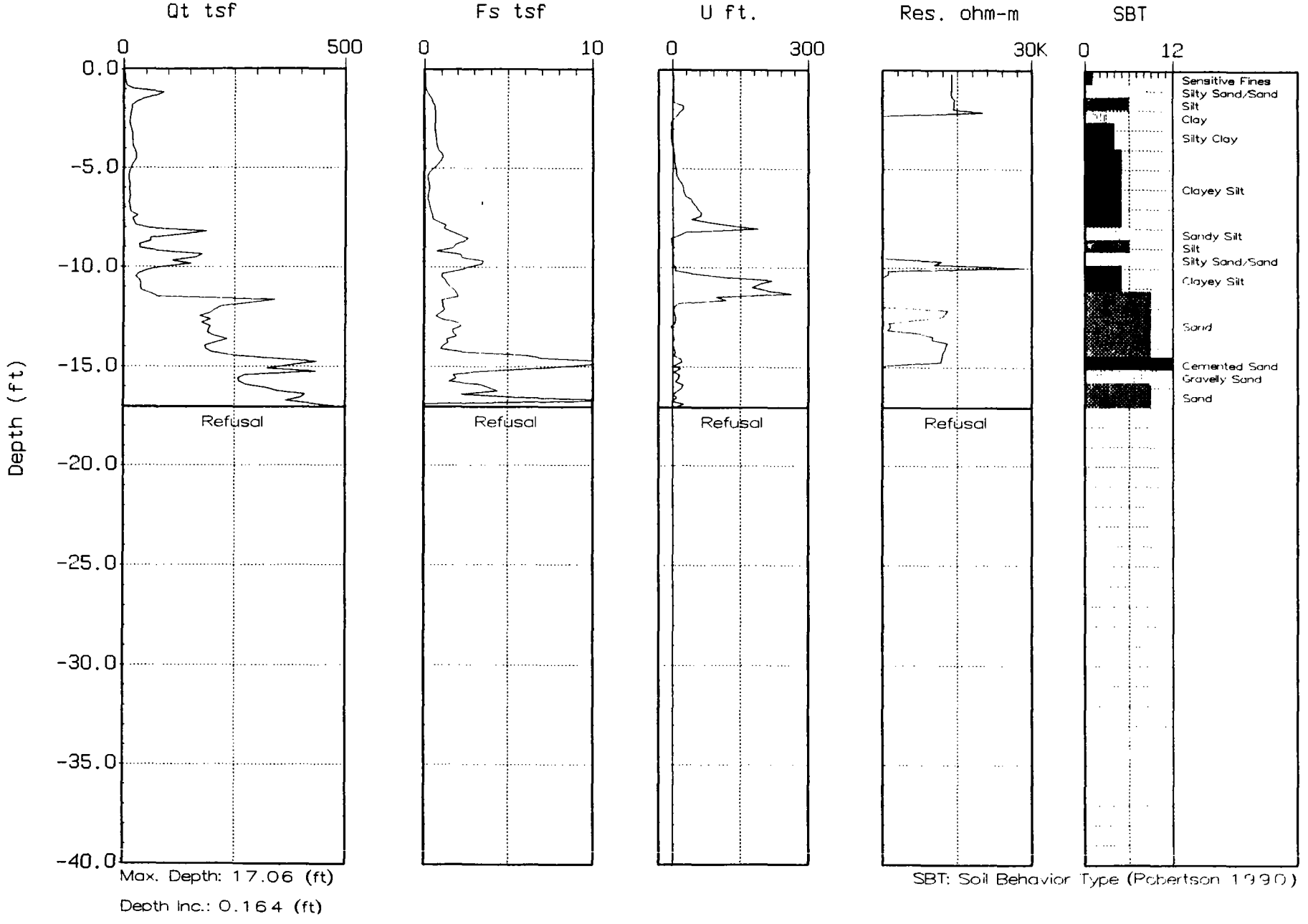


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-62
Location: DOWNER'S GROVE

Cone: 20 TON A 097
Date: 02:13:02 07:11



Max. Depth: 17.06 (ft)
Depth Inc.: 0.164 (ft)

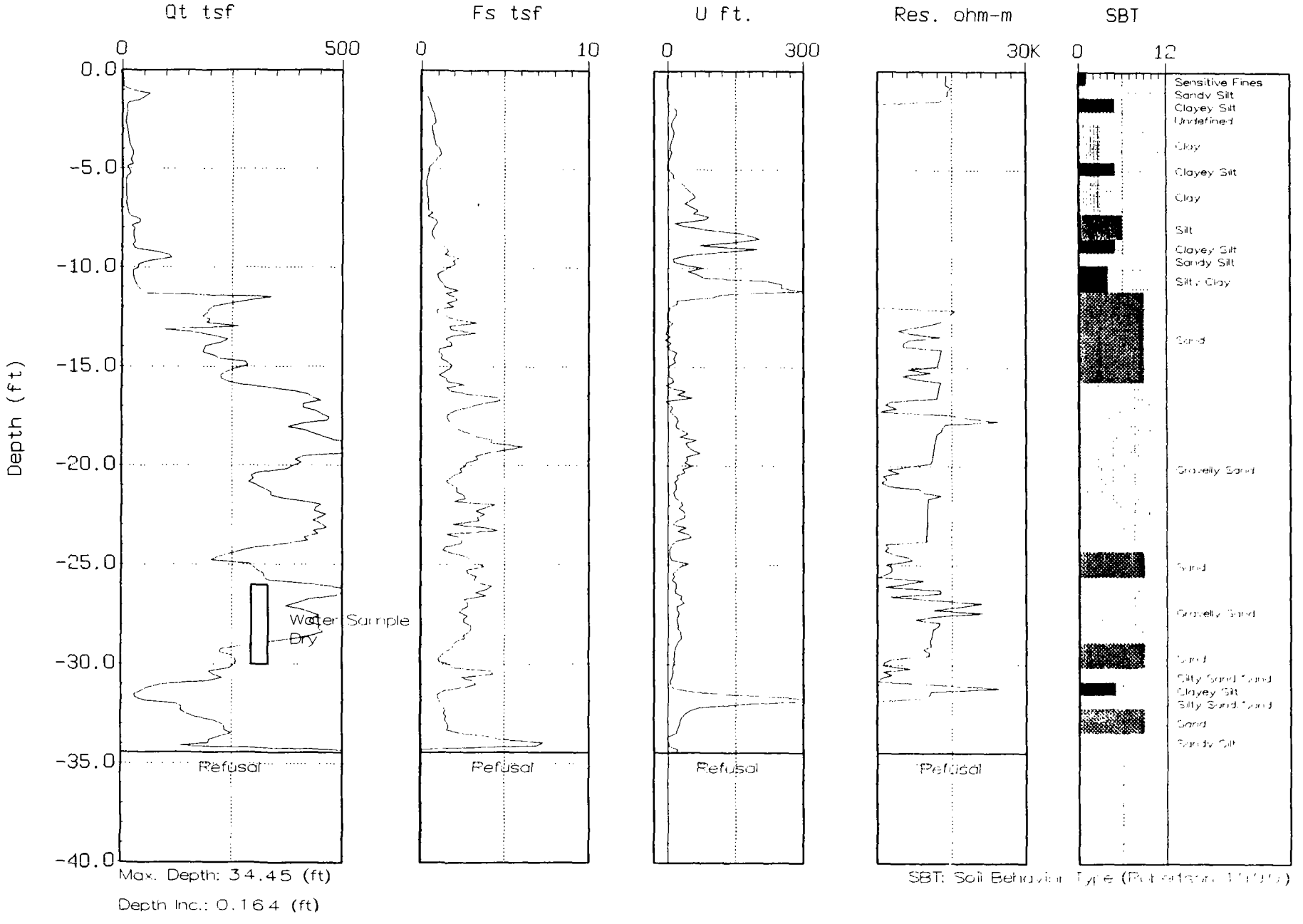
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-62A
Location: DOWNER'S GROVE

Cone: 20 TON A 097
Date: 02:13.02 07:52



Max. Depth: 34.45 (ft)
Depth Inc.: 0.164 (ft)

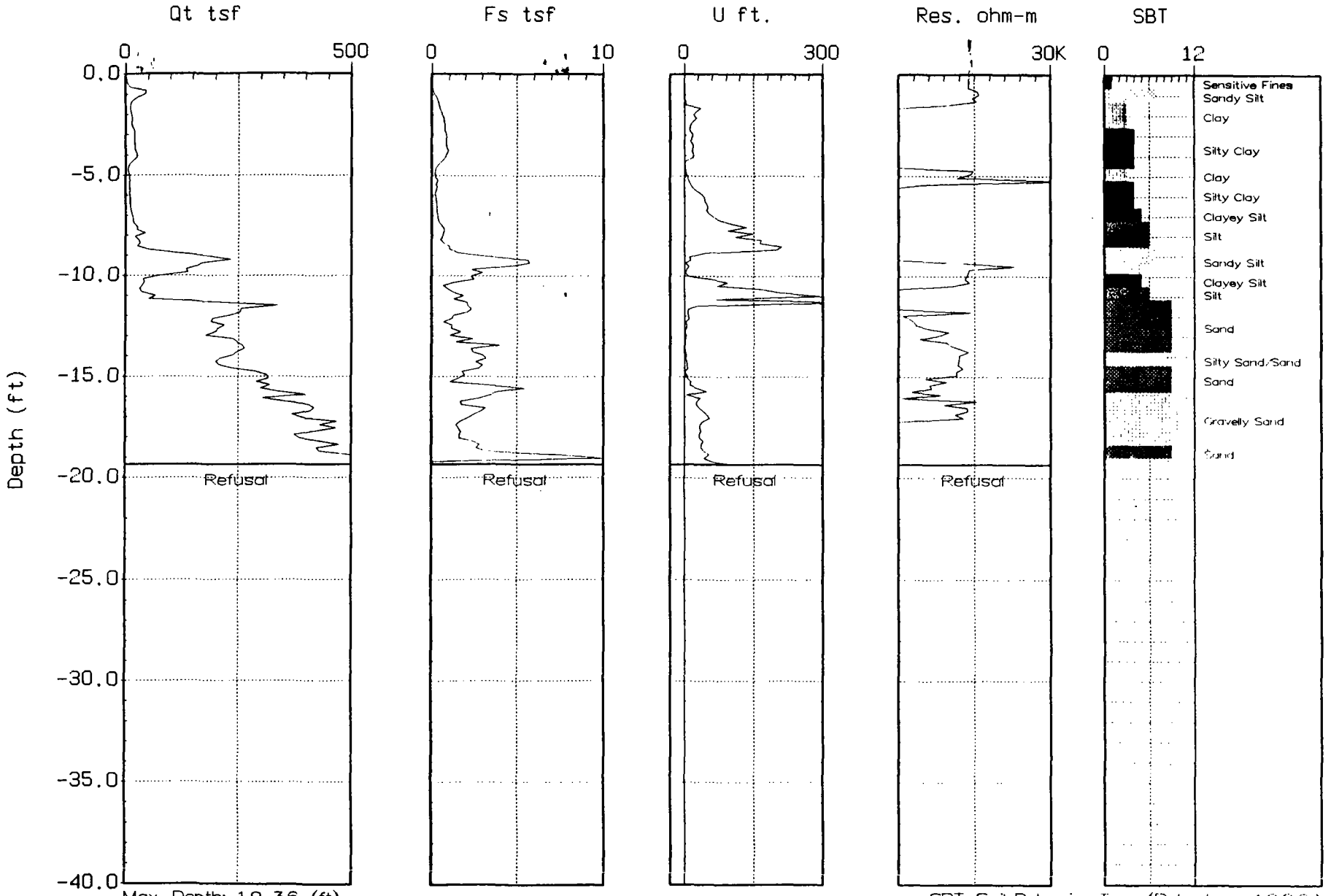
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-62B
Location: DOWNER'S GROVE

Cone: 20 TON A 097
Date: 02:13:02 08:53



Max. Depth: 19.36 (ft)
Depth Inc.: 0.164 (ft)

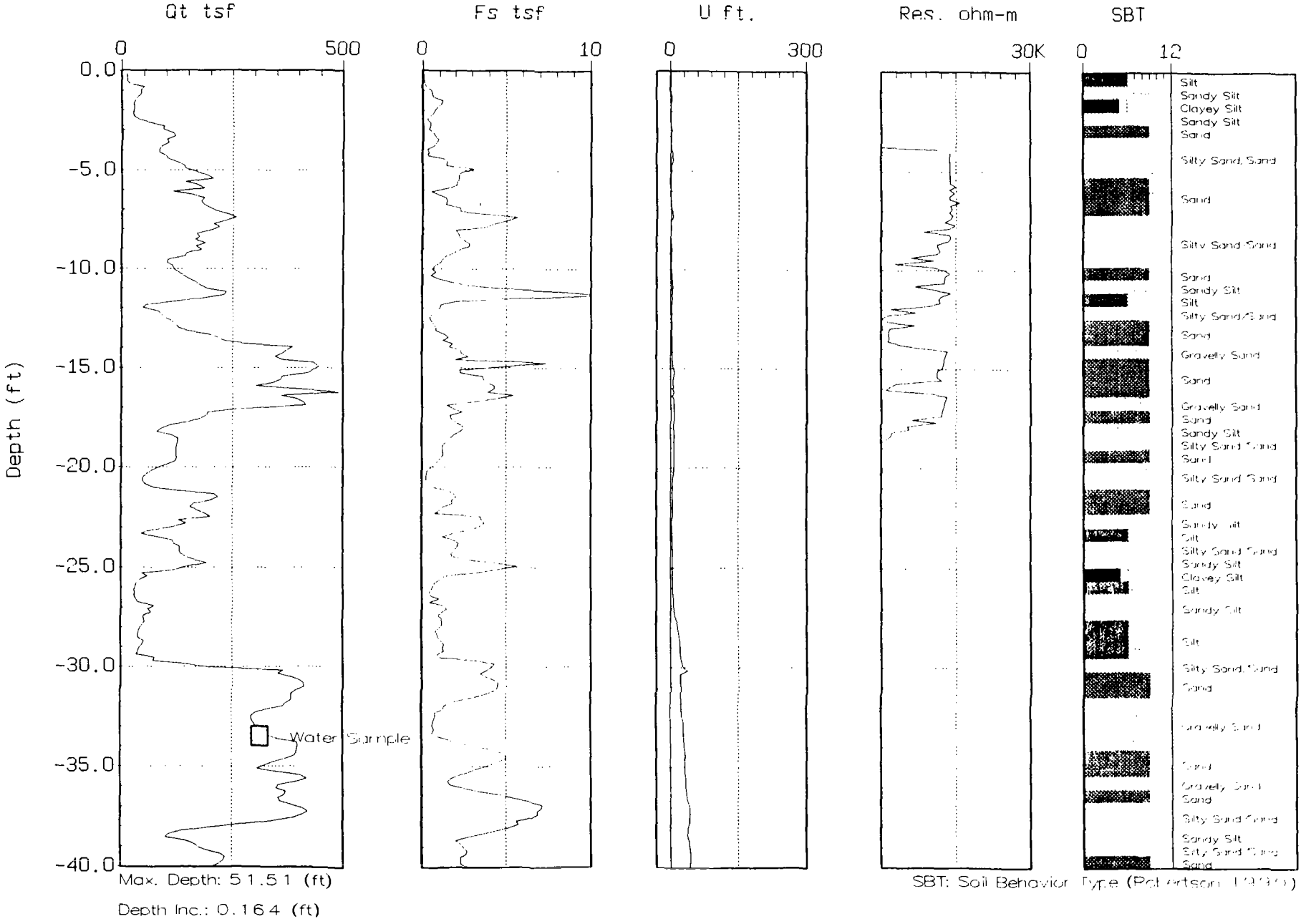
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-63
Location: DOWNER'S GROVE

Cone: 20 TON A 097
Date: 02:13:02 11:34



Max. Depth: 51.51 (ft)
Depth Inc.: 0.164 (ft)

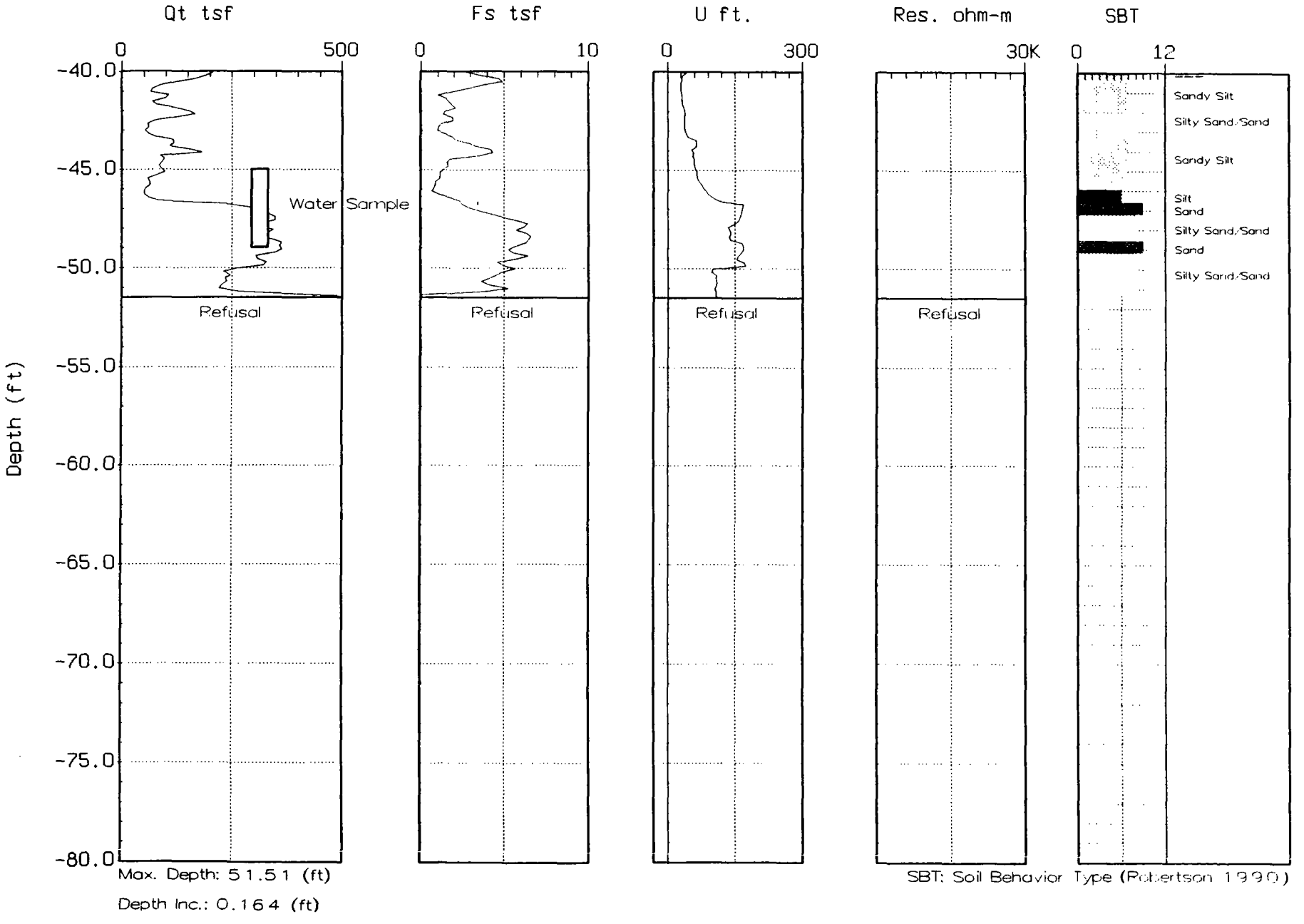
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-63
Location: DOWNER'S GROVE

Cone: 20 TON A 097
Date: 02:13:02 11:34



Max. Depth: 51.51 (ft)
Depth Inc.: 0.164 (ft)

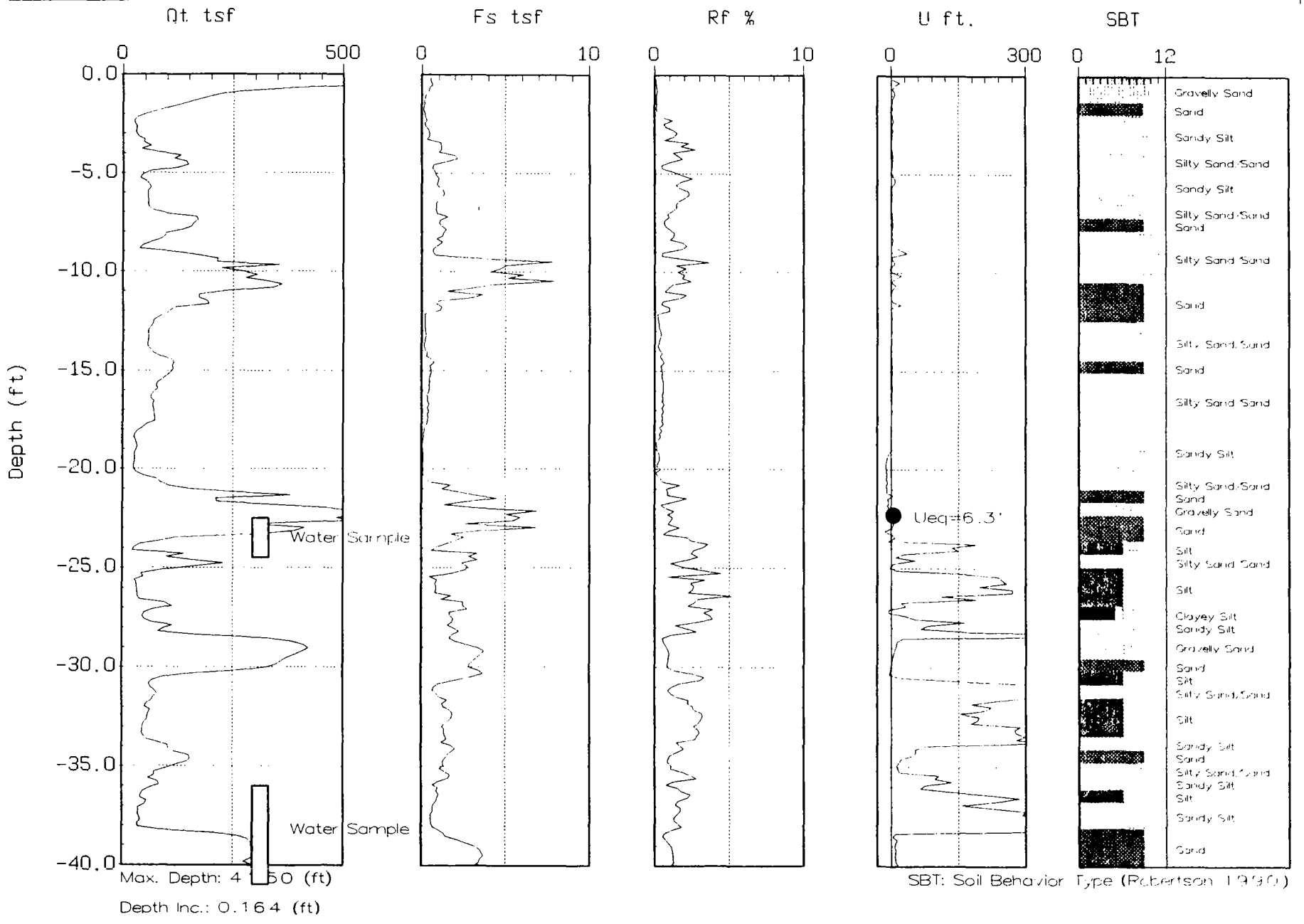
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-6 4
Location: DOWNER'S GROVE

Cone: 20 TON A 1 1 2
Date: 0 2:2 1:0 2 1 2:4 9



Max. Depth: 4 50 (ft)
Depth Inc.: 0.164 (ft)

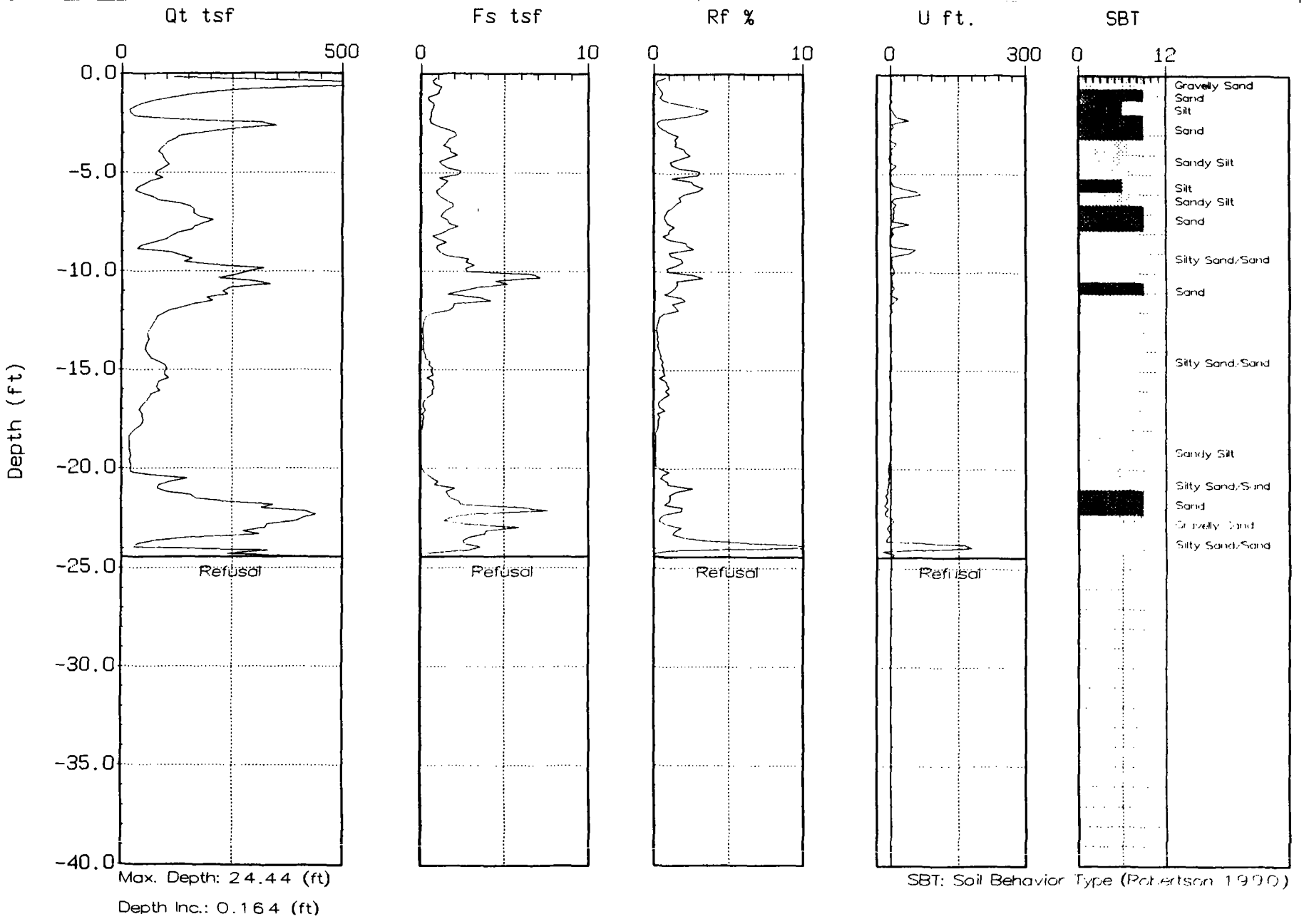
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-64A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 13:28



Max. Depth: 24.44 (ft)
Depth Inc.: 0.164 (ft)

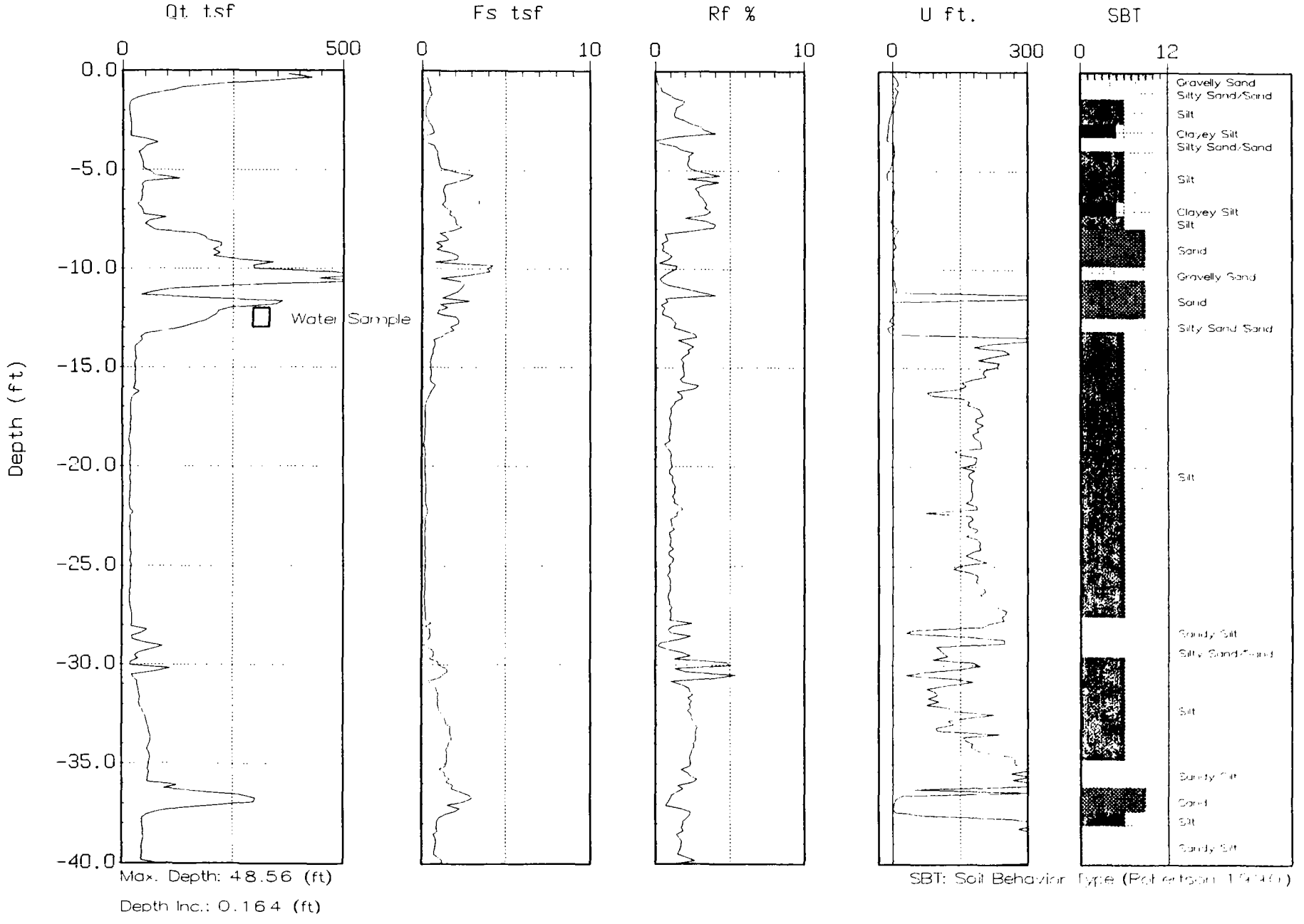
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-65
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 10:20

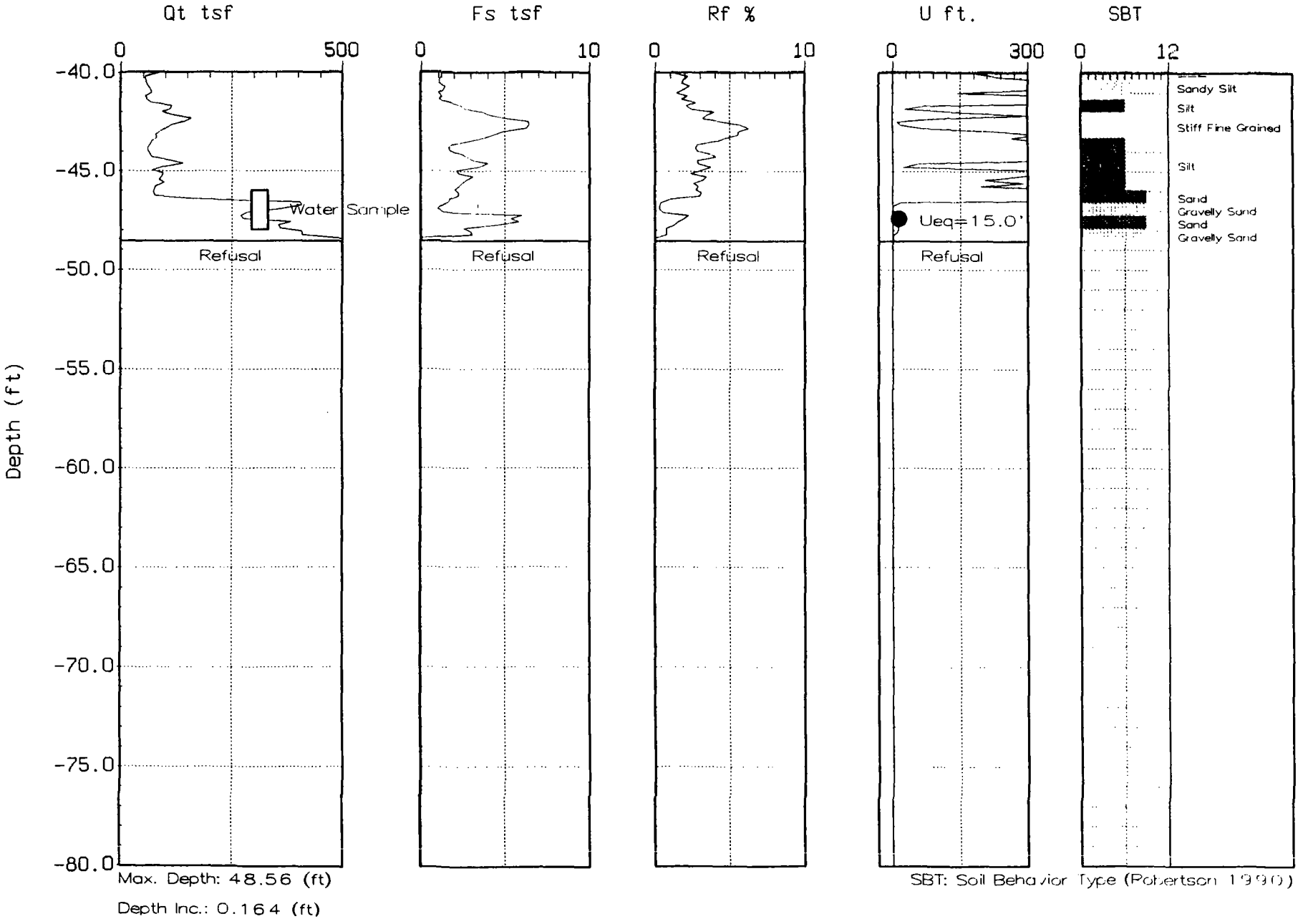


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-65
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 10:20

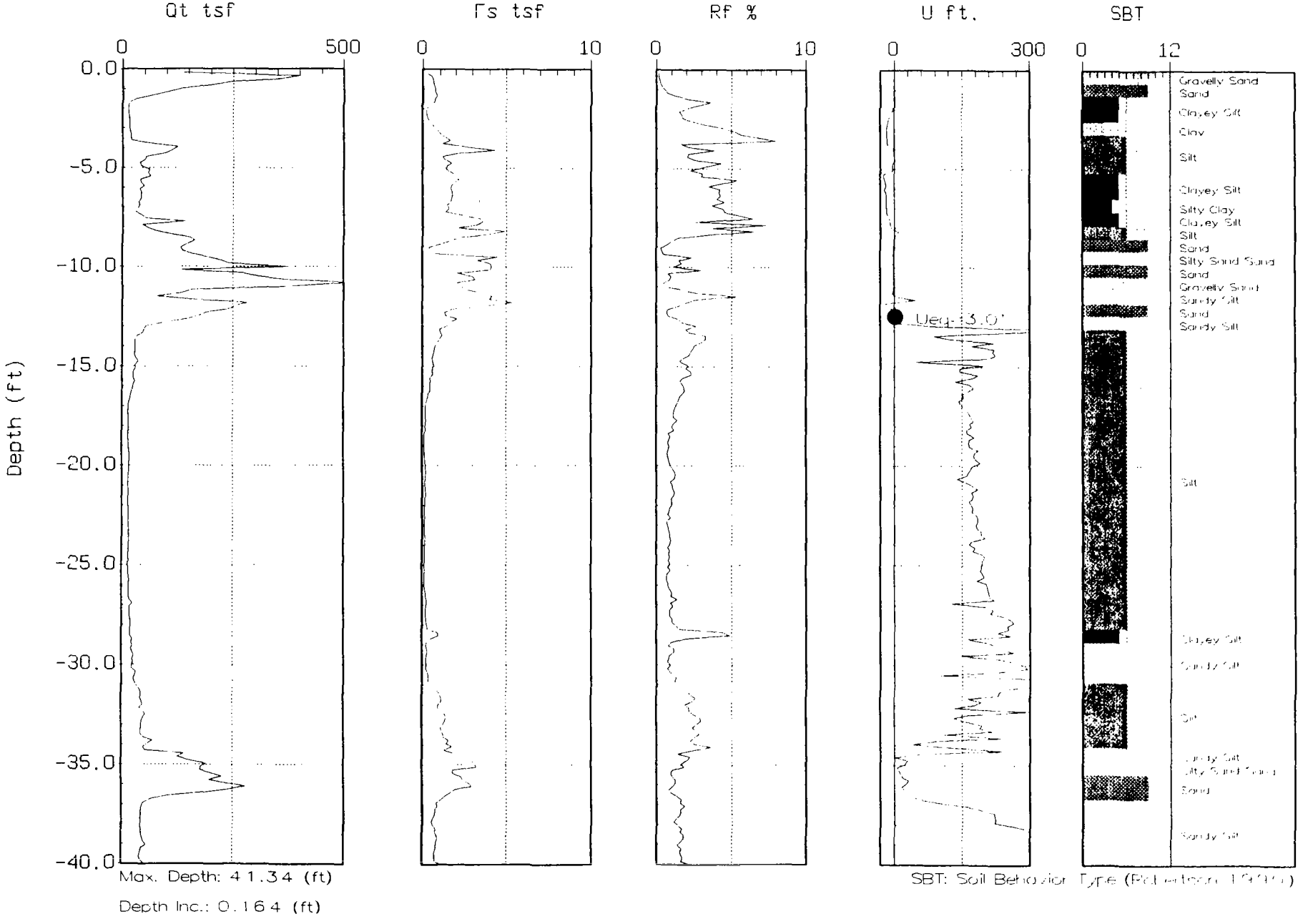


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-65A
Location: DOWNIER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 10:56

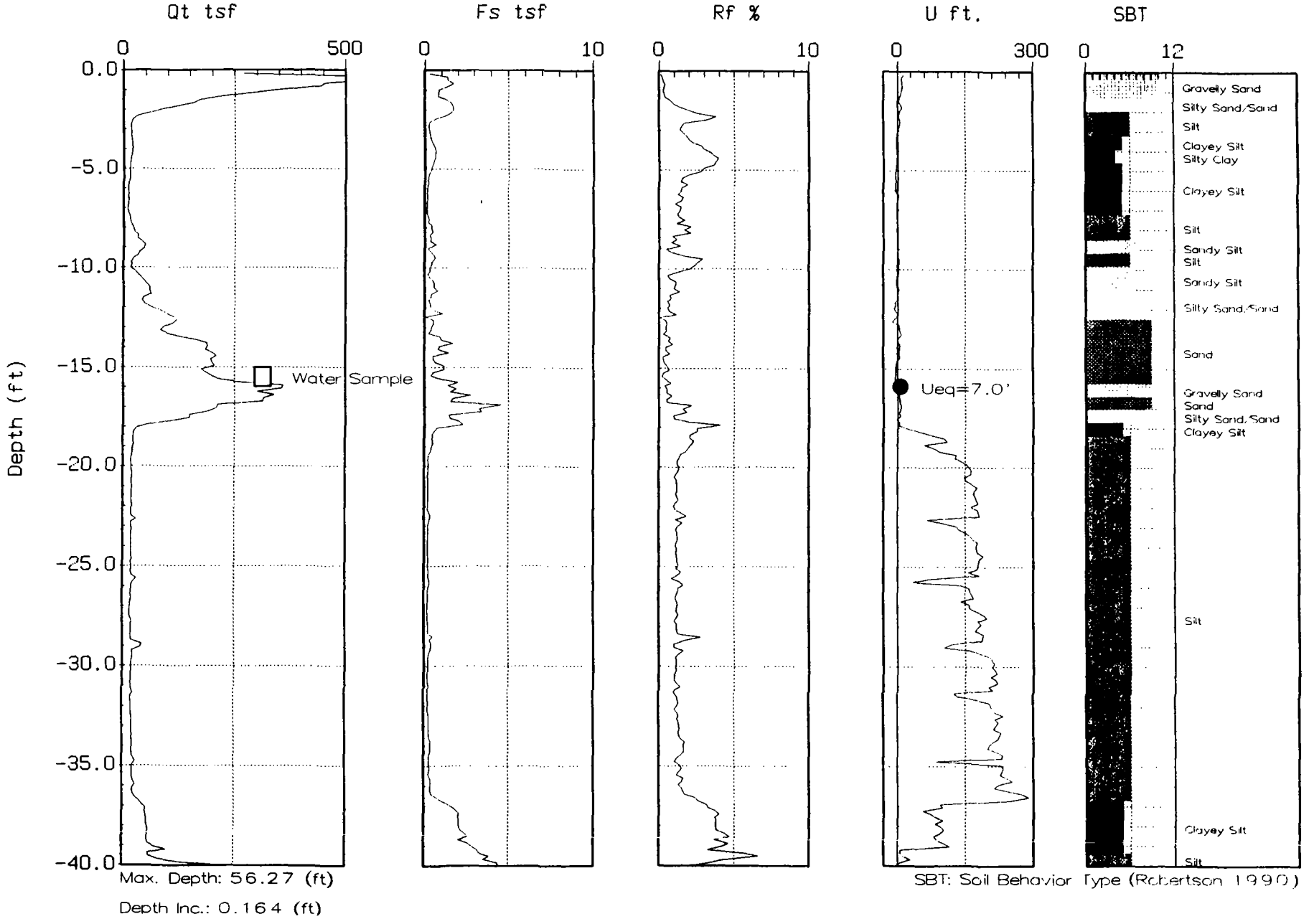


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-66
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 07:36



Max. Depth: 56.27 (ft)
Depth Inc.: 0.164 (ft)

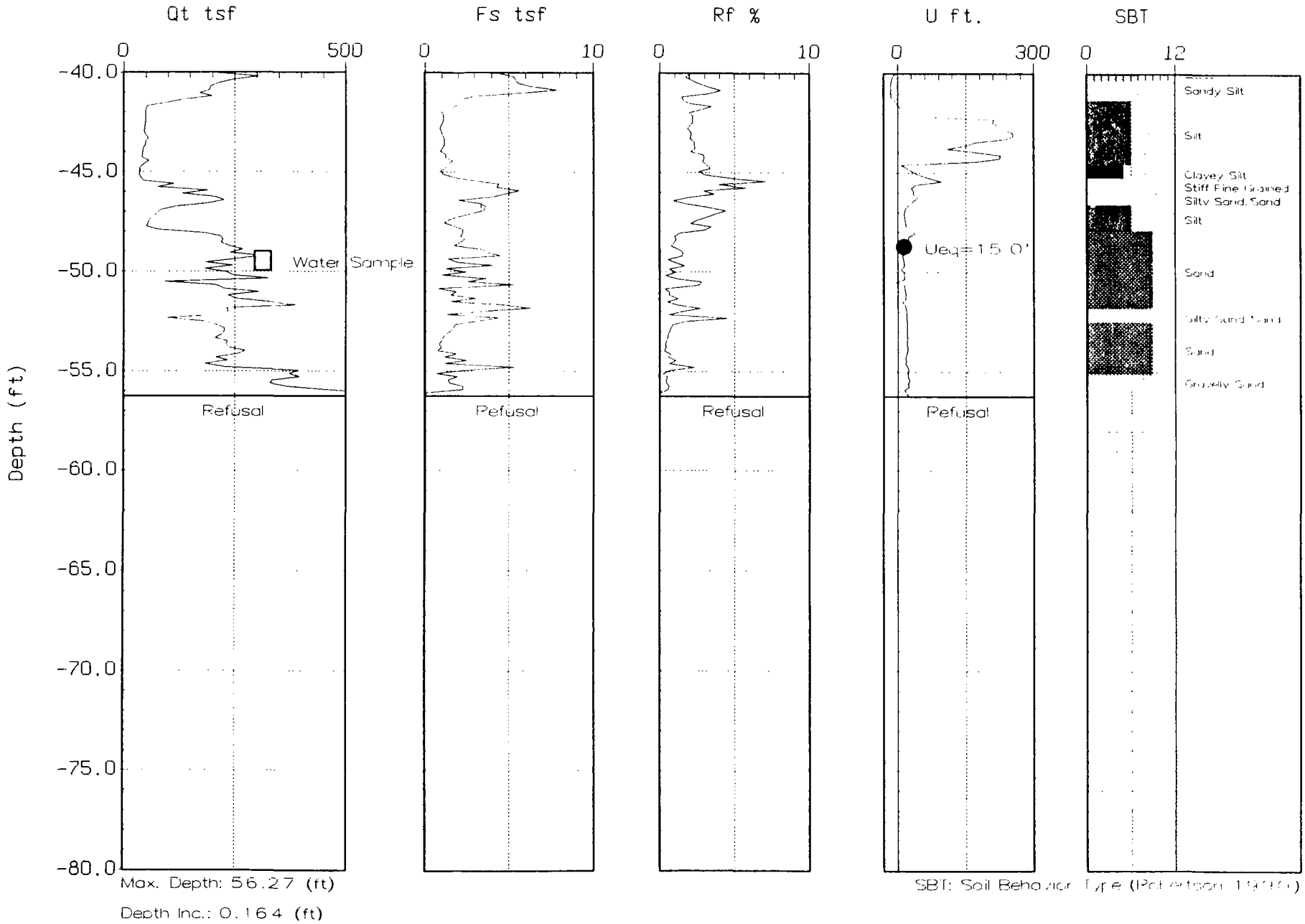
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-66
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 07:36

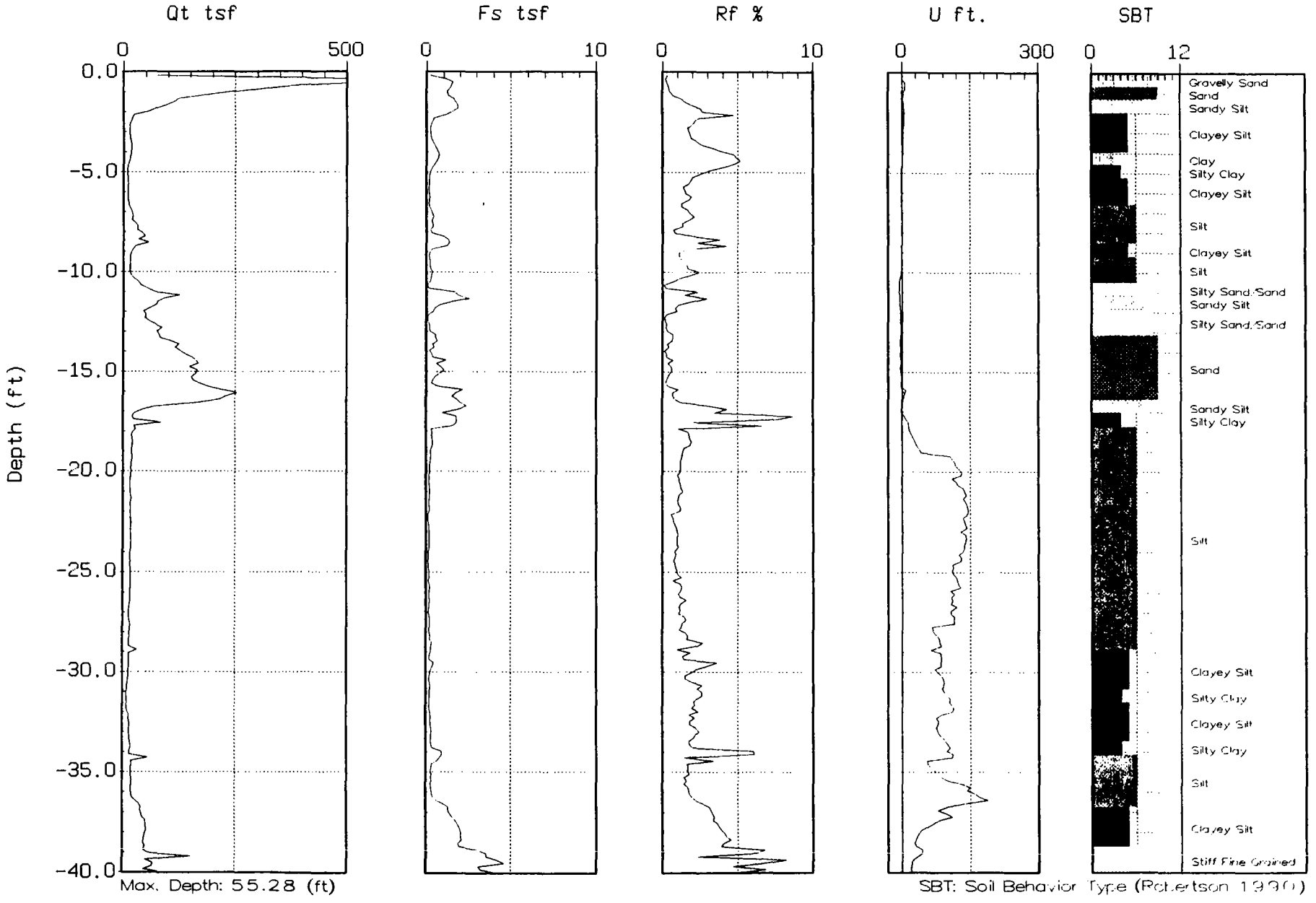


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-66A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 08:34



Max. Depth: 55.28 (ft)
Depth Inc.: 0.164 (ft)

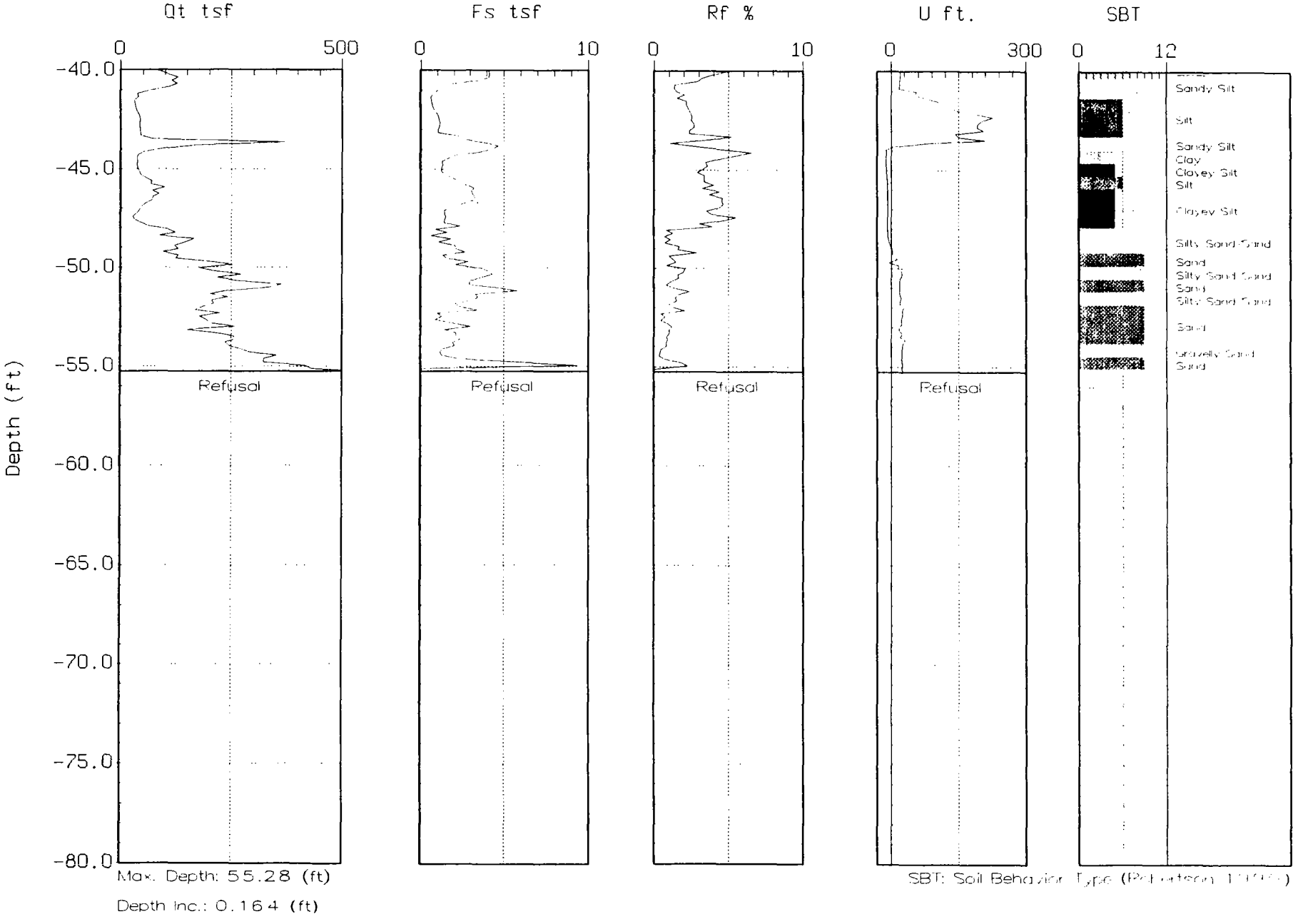
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-66A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:21:02 08:34

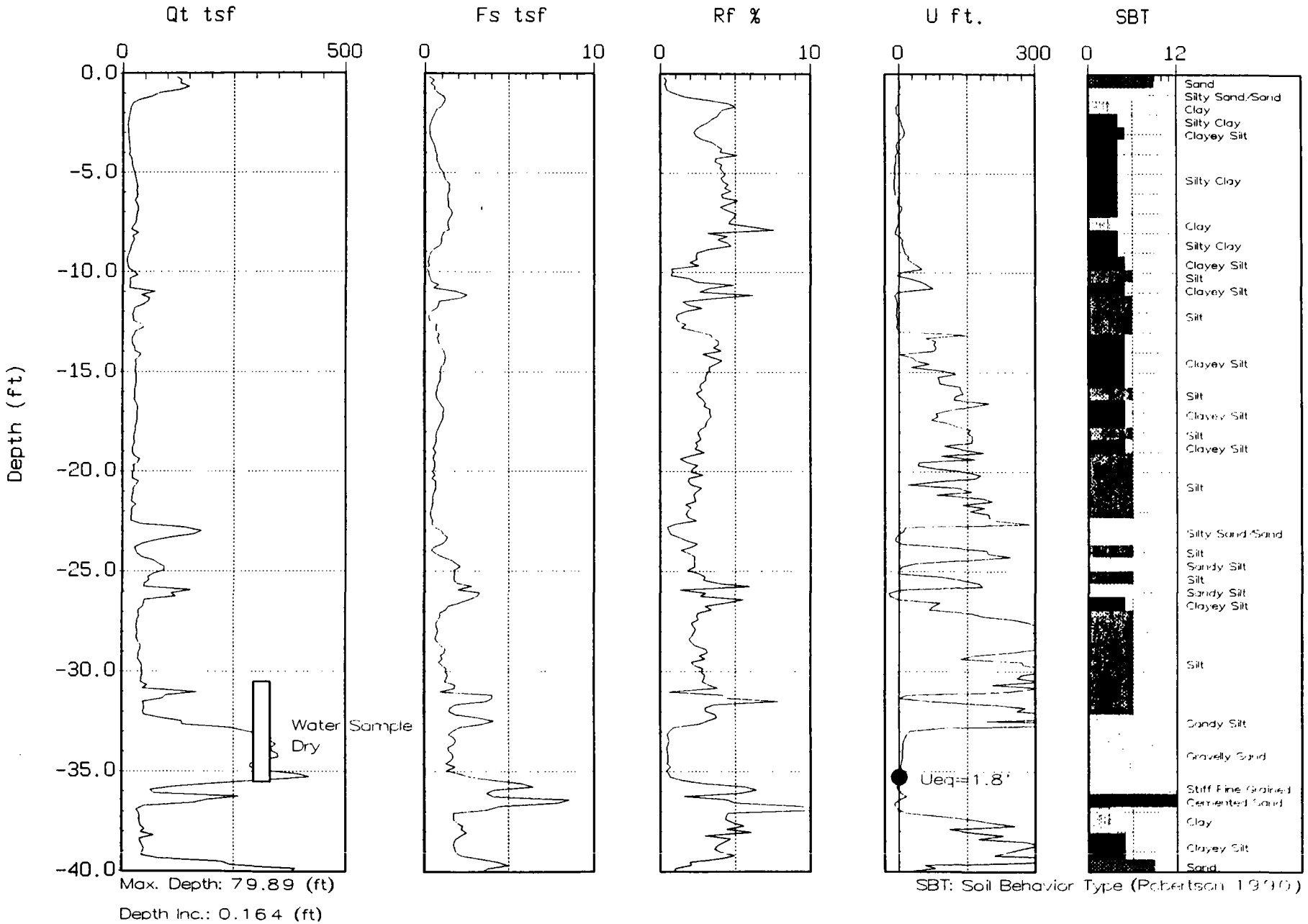


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-67
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:26:02 07:21



Max. Depth: 79.89 (ft)
Depth Inc.: 0.164 (ft)

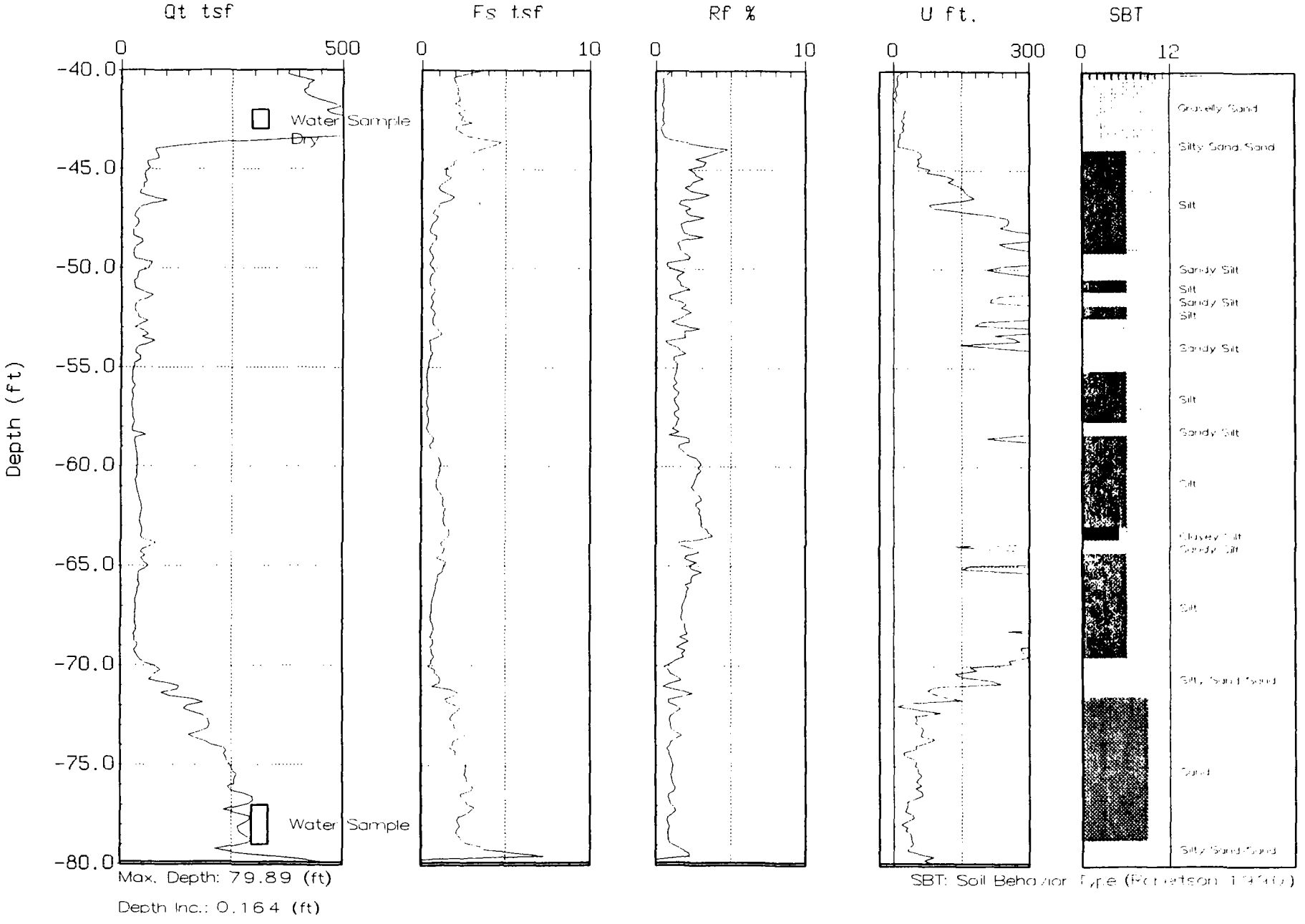
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-67
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:26:02 07:21

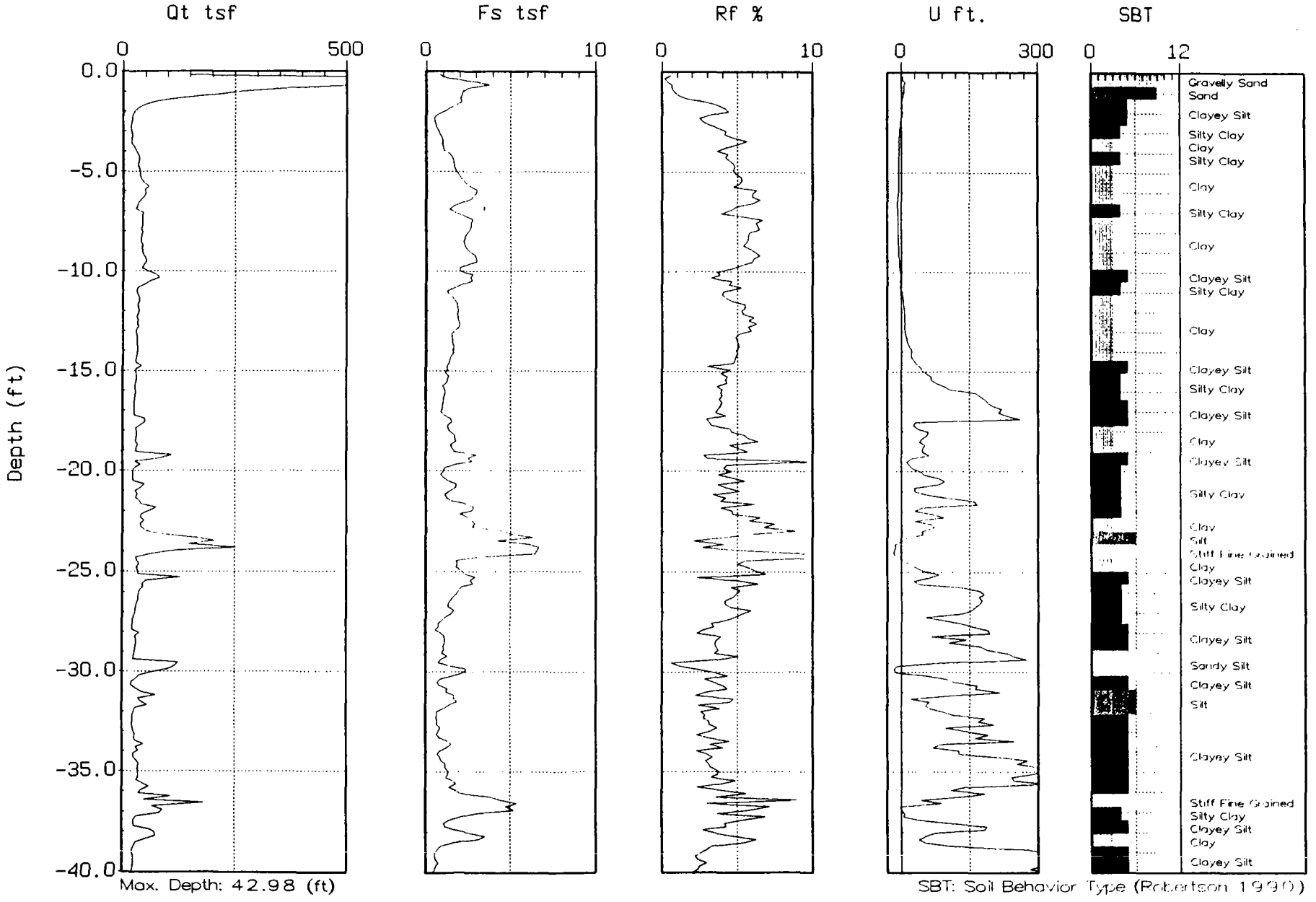


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-68
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 03:01:02 14:09



Max. Depth: 42.98 (ft)
Depth Inc.: 0.164 (ft)

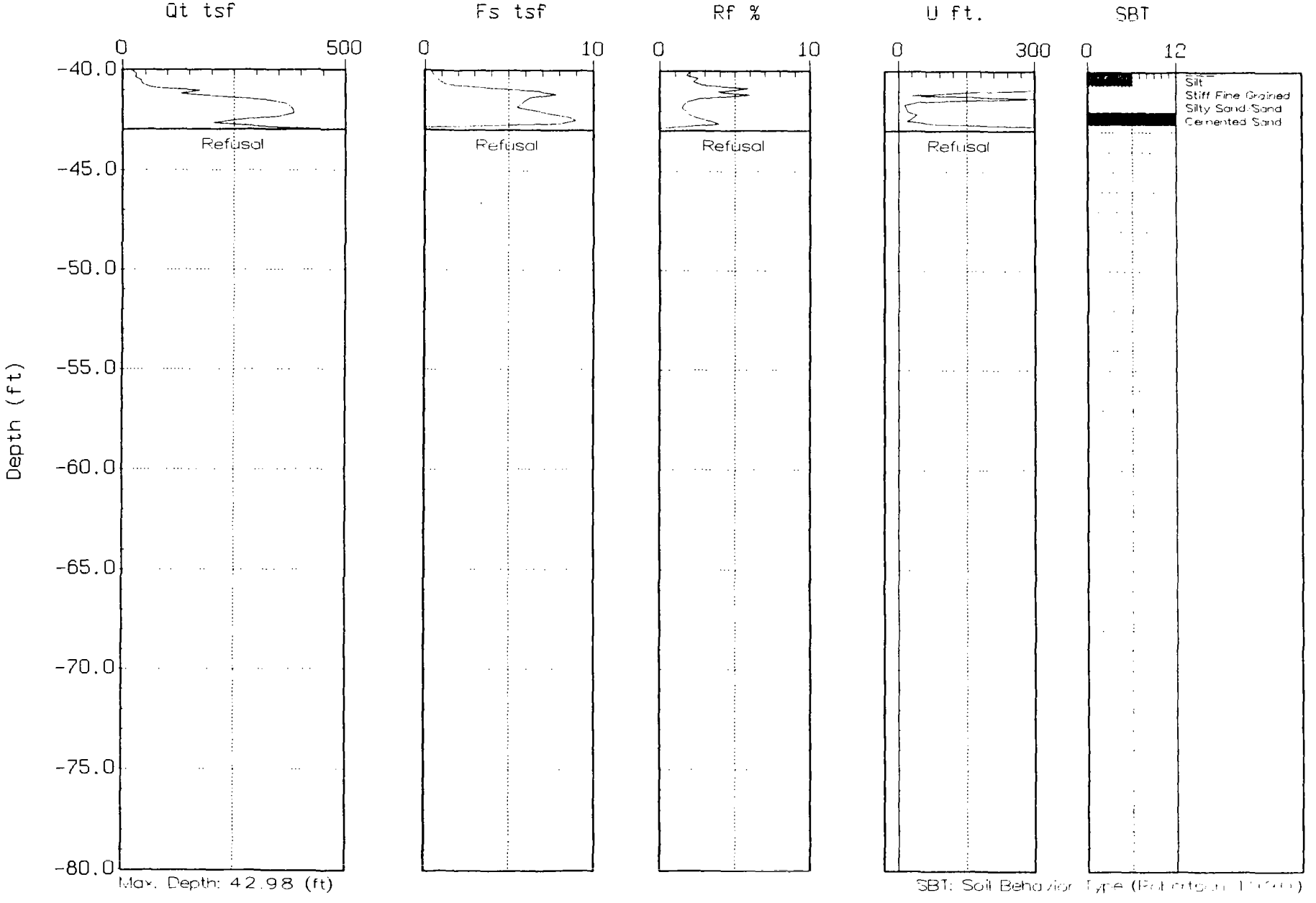
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-68
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 03:01:02 14:09



Max. Depth: 42.98 (ft)
Depth Inc.: 0.164 (ft)

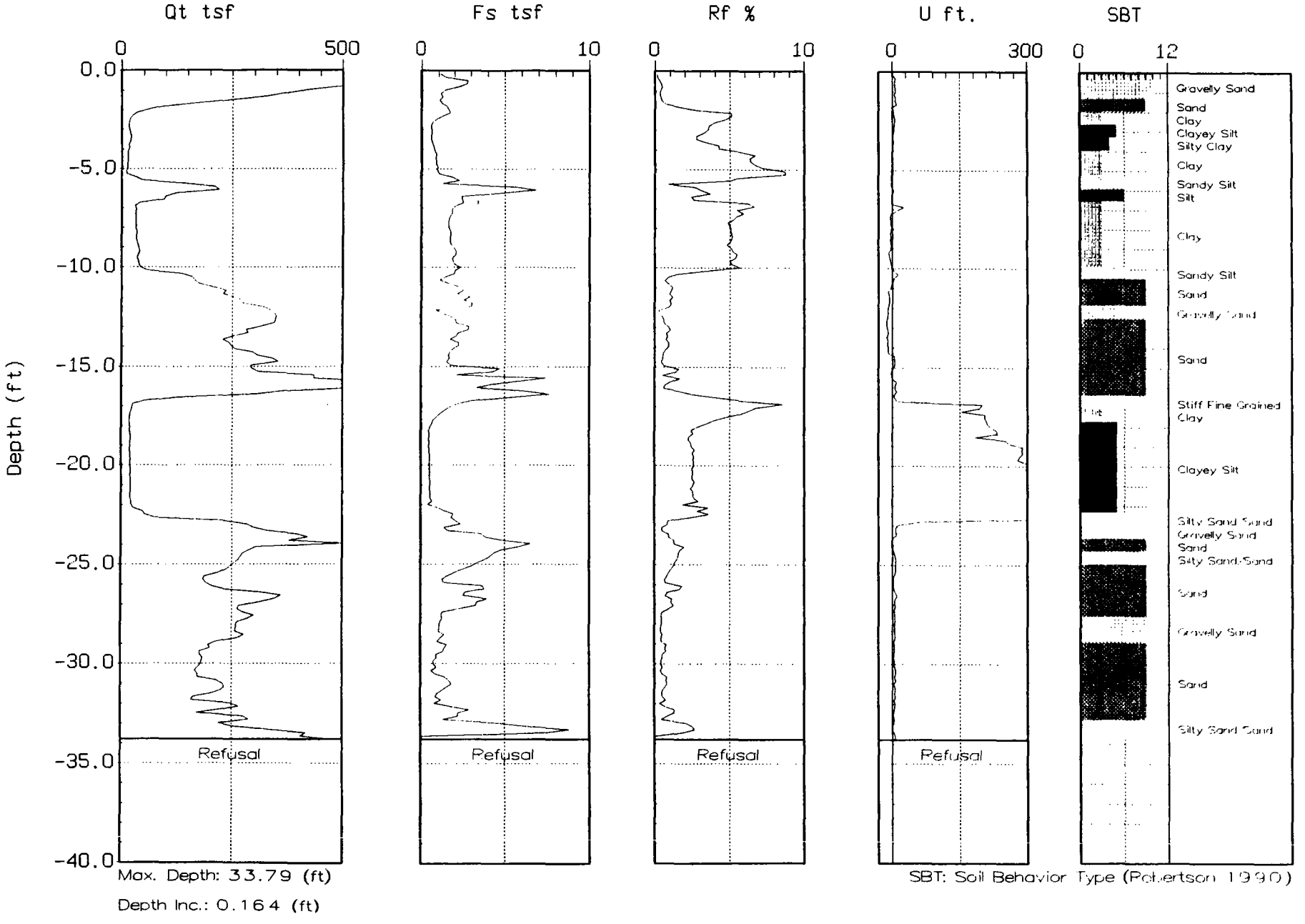
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-69
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 03:01:02 15:02



Max. Depth: 33.79 (ft)
Depth Inc.: 0.164 (ft)

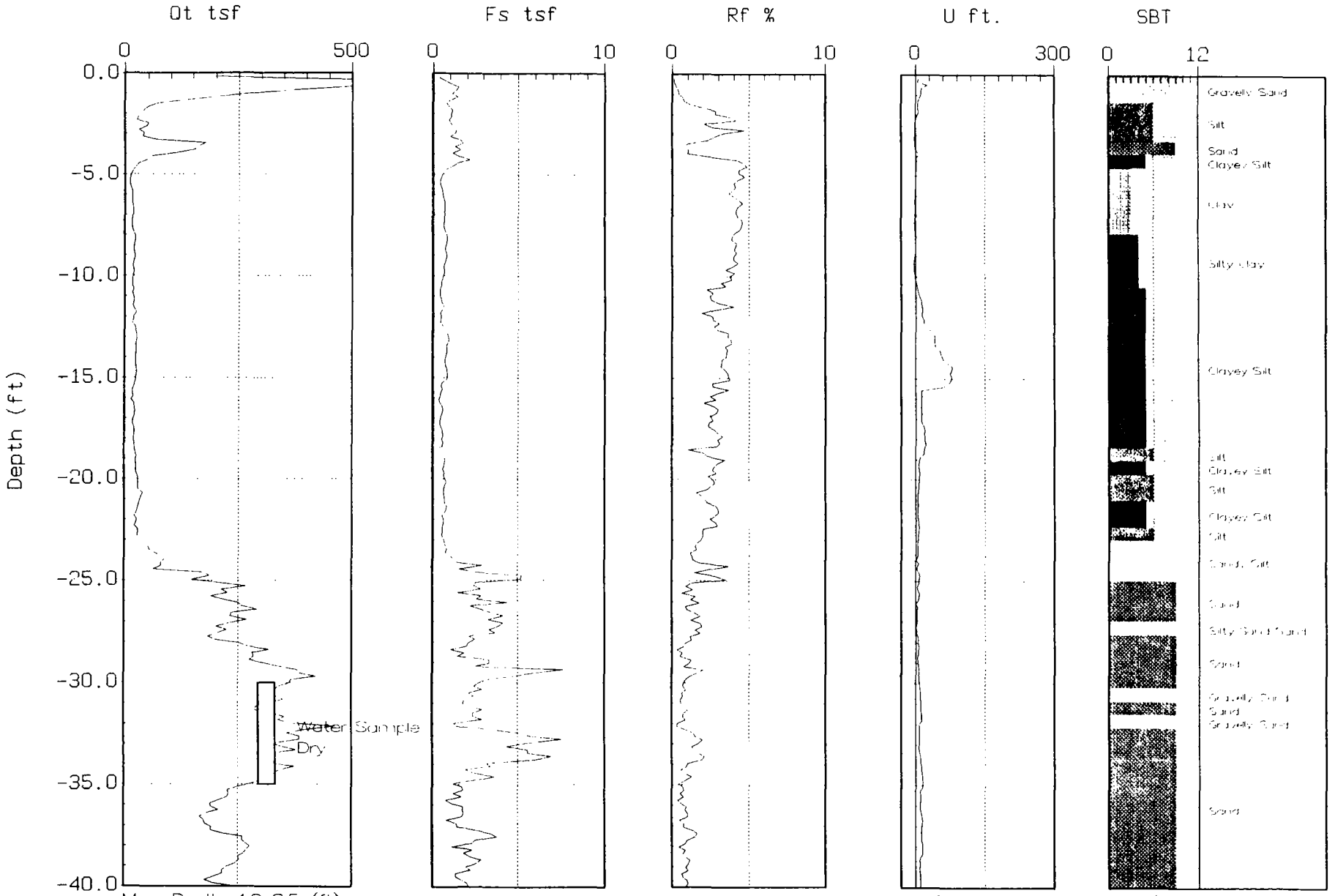
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-70
Location: DOWNER'S GROVE

Cone: 20 TON A 1 1 2
Date: 03:01:02 10:01



Max. Depth: 40.85 (ft)
Depth Inc.: 0.164 (ft)

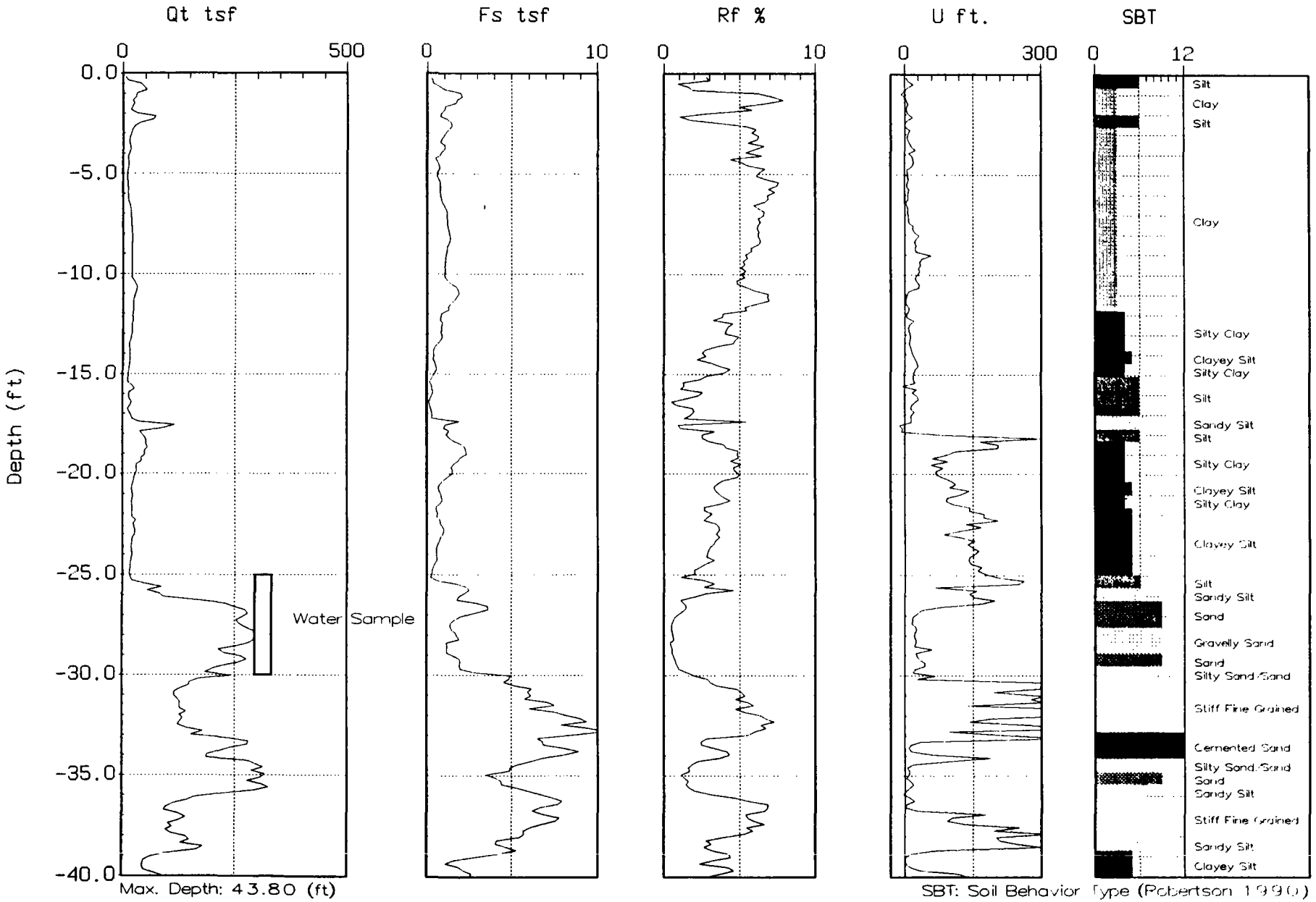
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-7 1
Location: DOWNER'S GROVE

Cone: 20 TON A 1 1 2
Date: 03:01:02 11:55



Max. Depth: 43.80 (ft)
Depth Inc.: 0.164 (ft)

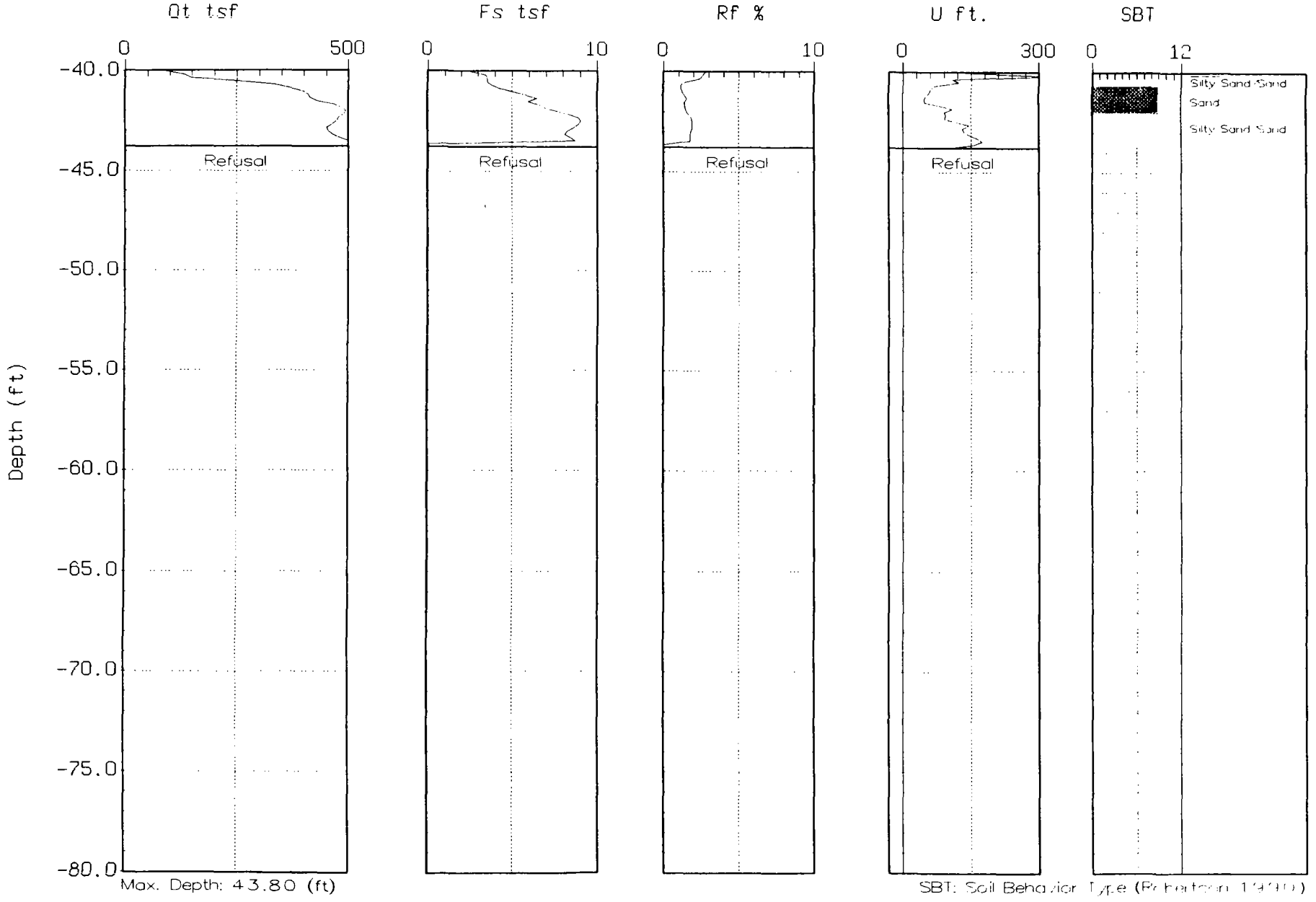
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-7 1
Location: DOWNER'S GROVE

Cone: 20 TON A 1 1 2
Date: 03:01:02 11:55



Max. Depth: 43.80 (ft)
Depth Inc.: 0.164 (ft)

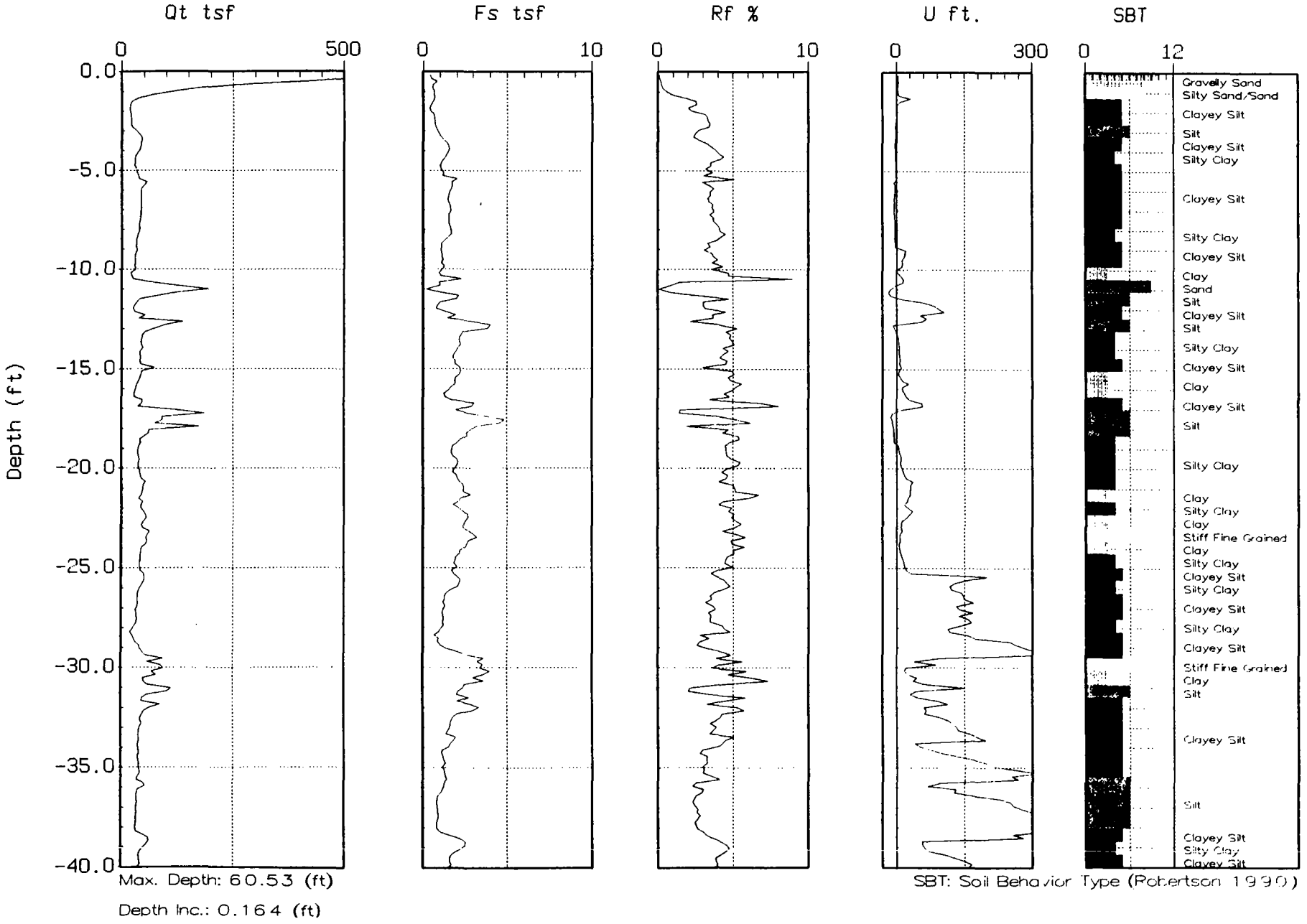
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-72
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:27:02 07:17



Max. Depth: 60.53 (ft)
Depth Inc.: 0.164 (ft)

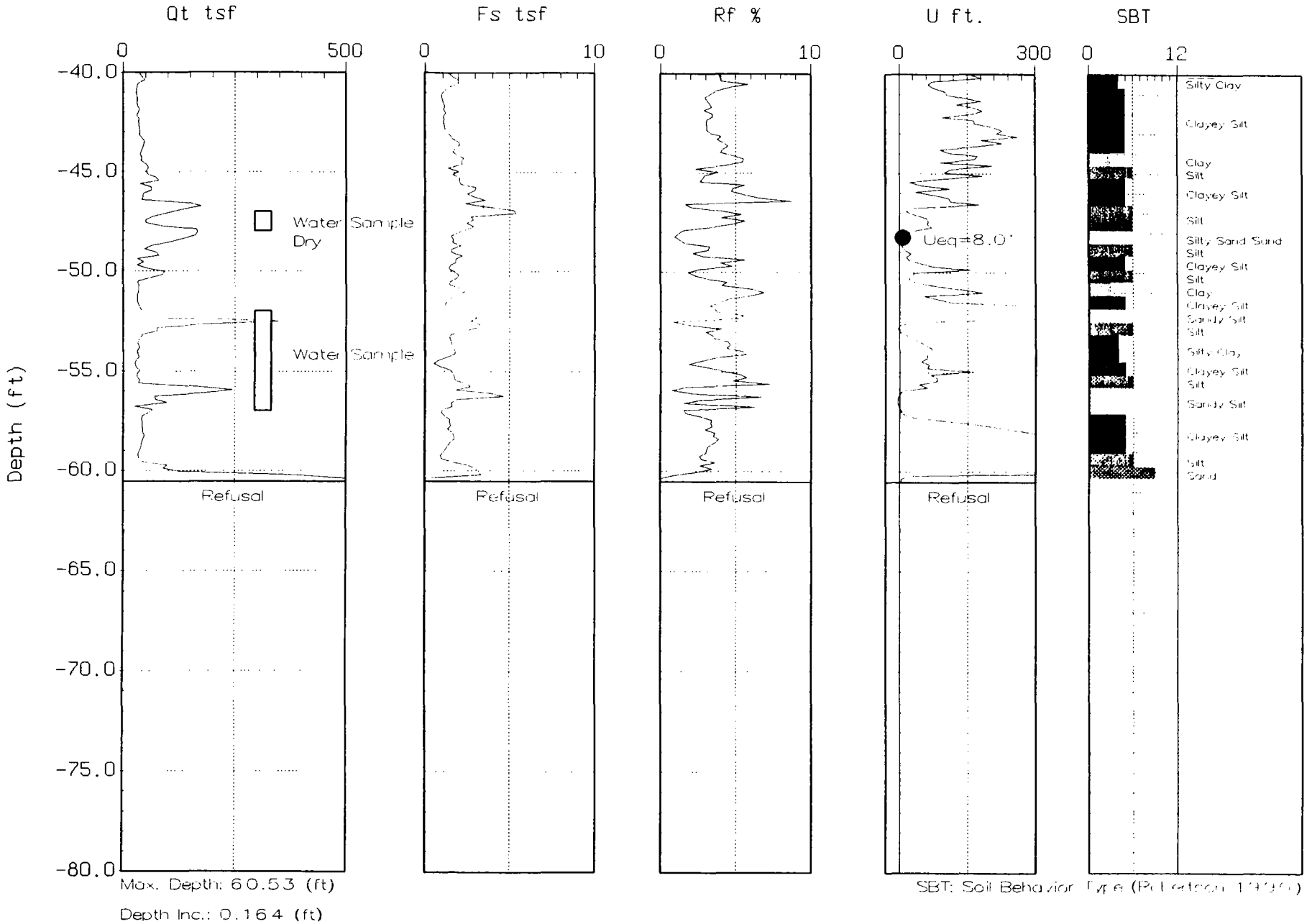
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-72
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:27:02 07:17



Max. Depth: 60.53 (ft)
Depth Inc.: 0.164 (ft)

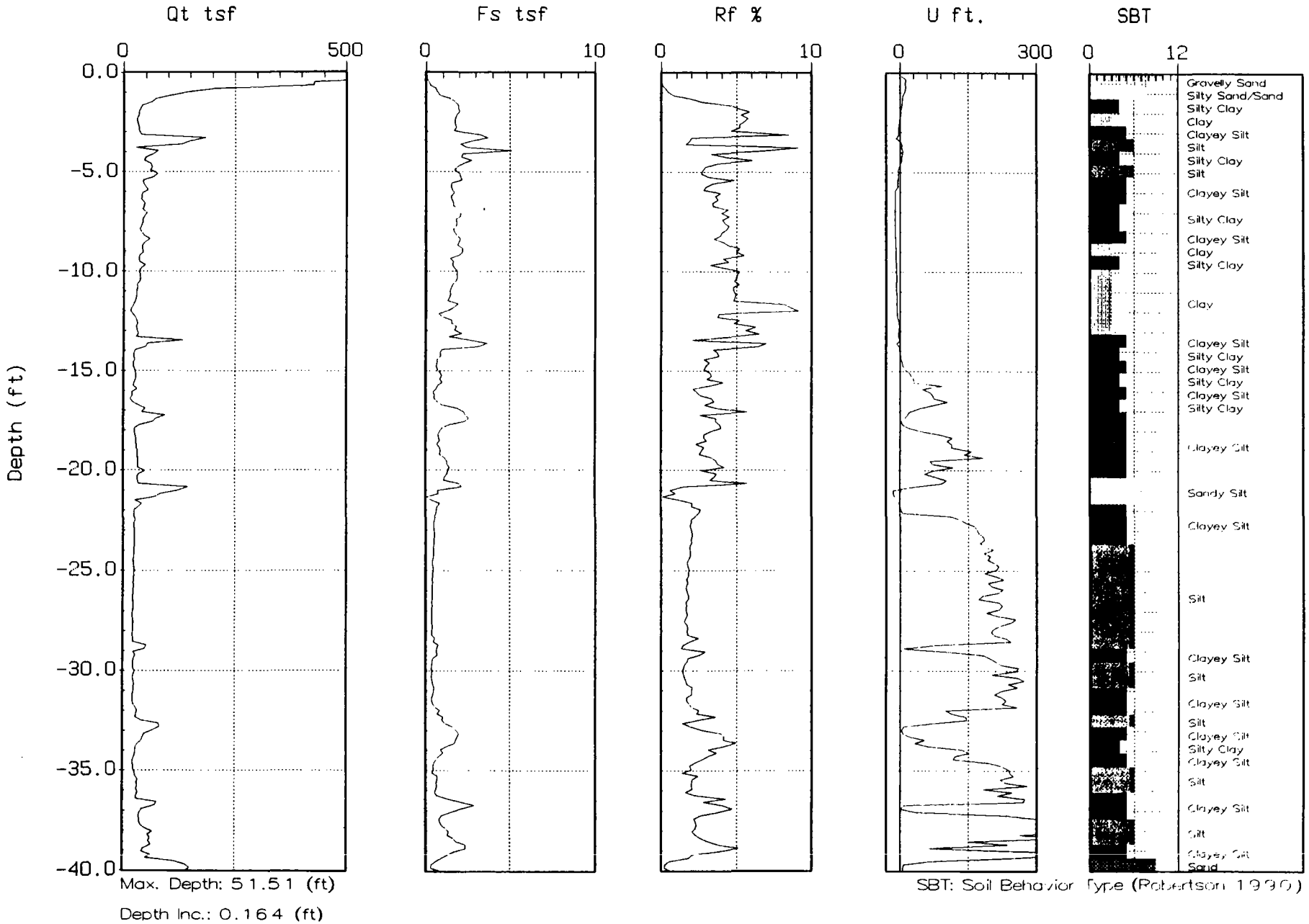
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-73
Location: DOWNER'S GROVE

Cone: 10 TON A 112
Date: 03:01:02 13:20



Max. Depth: 51.51 (ft)
Depth Inc.: 0.164 (ft)

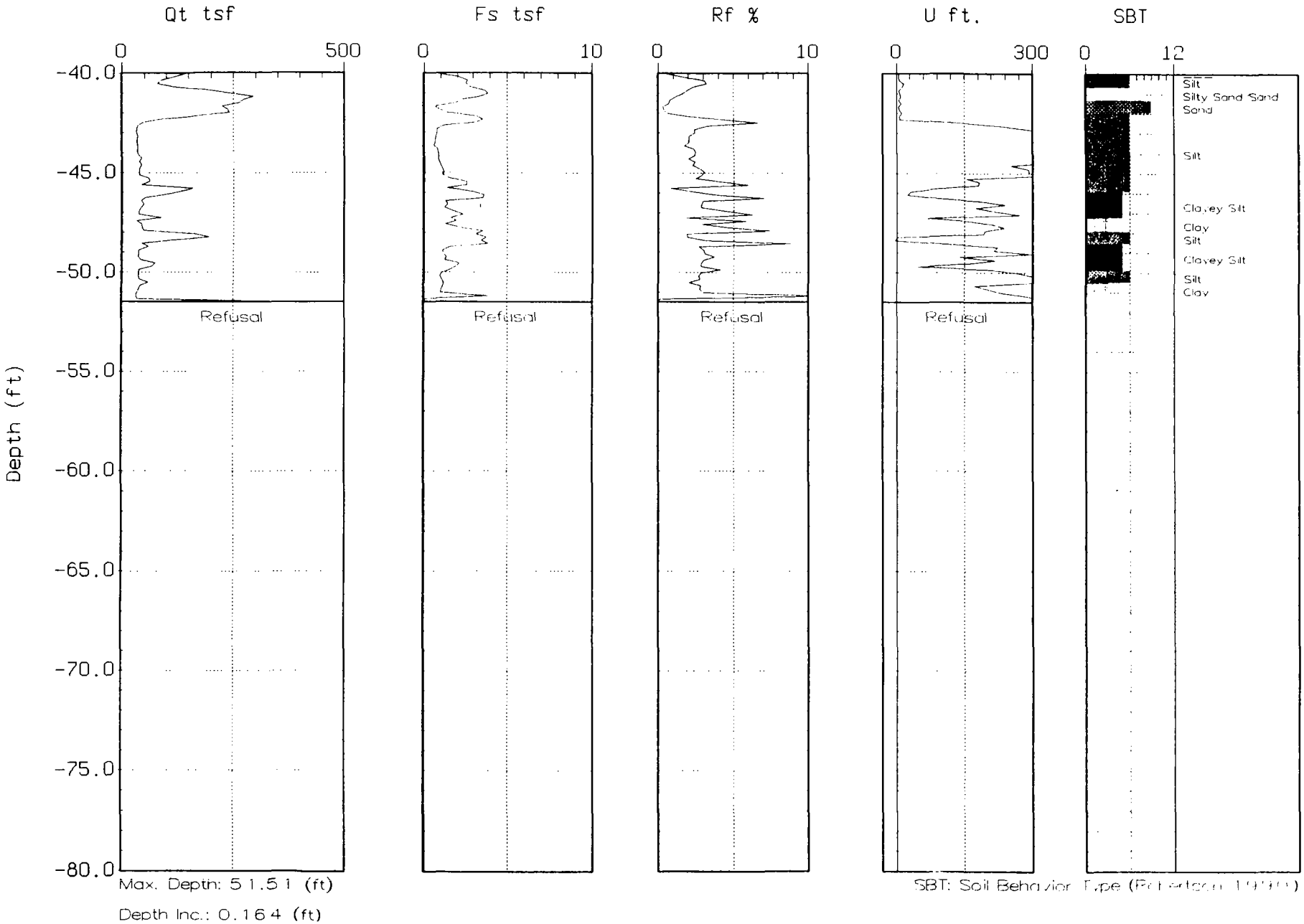
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-73
Location: DOWNER'S GROVE

Cone: 10 TON A 112
Date: 03:01:02 13:20

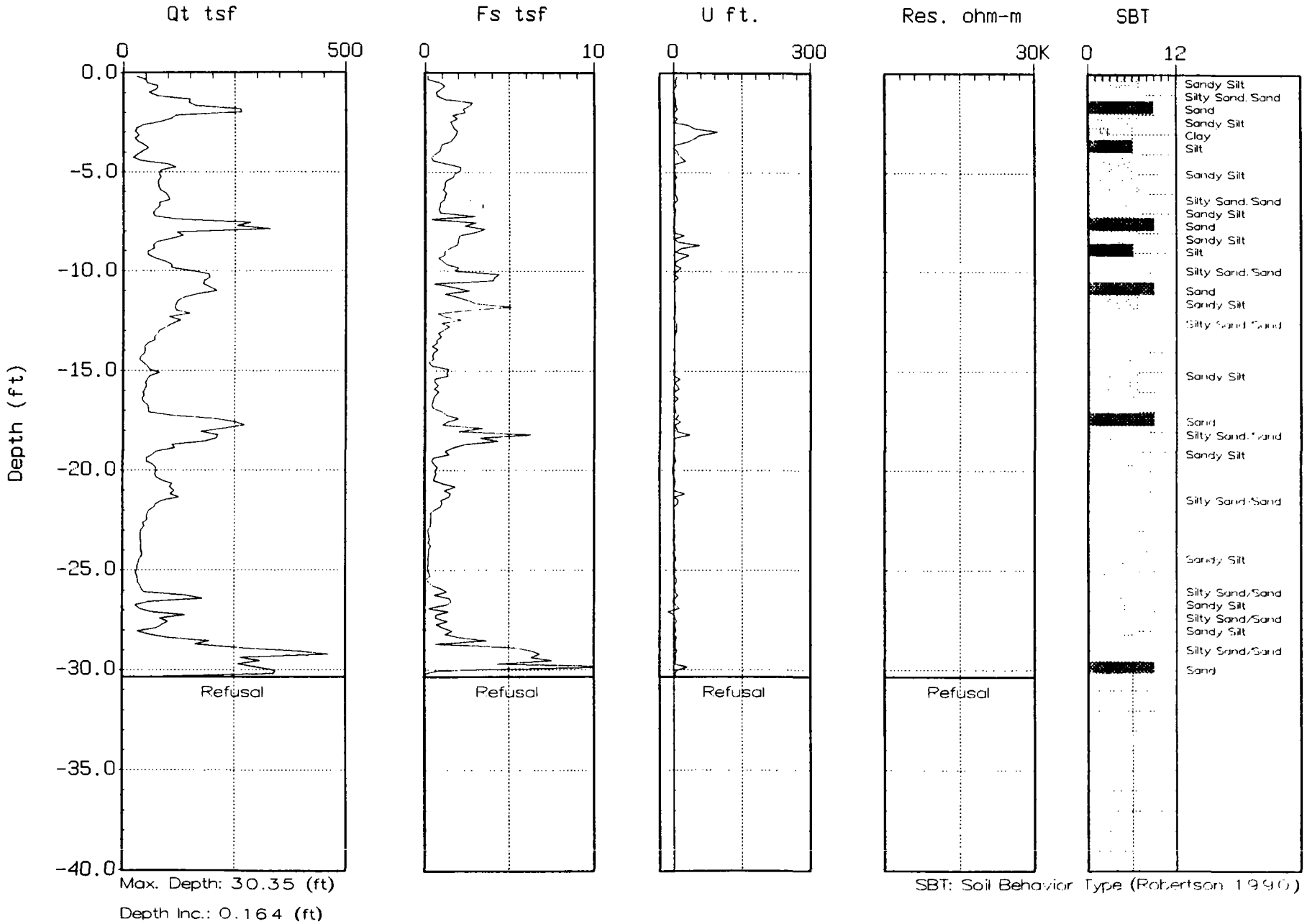


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-75
Location: DOWNER'S GROVE

Cone: 20 TON A 098
Date: 02:14:02 08:48



Max. Depth: 30.35 (ft)
Depth Inc.: 0.164 (ft)

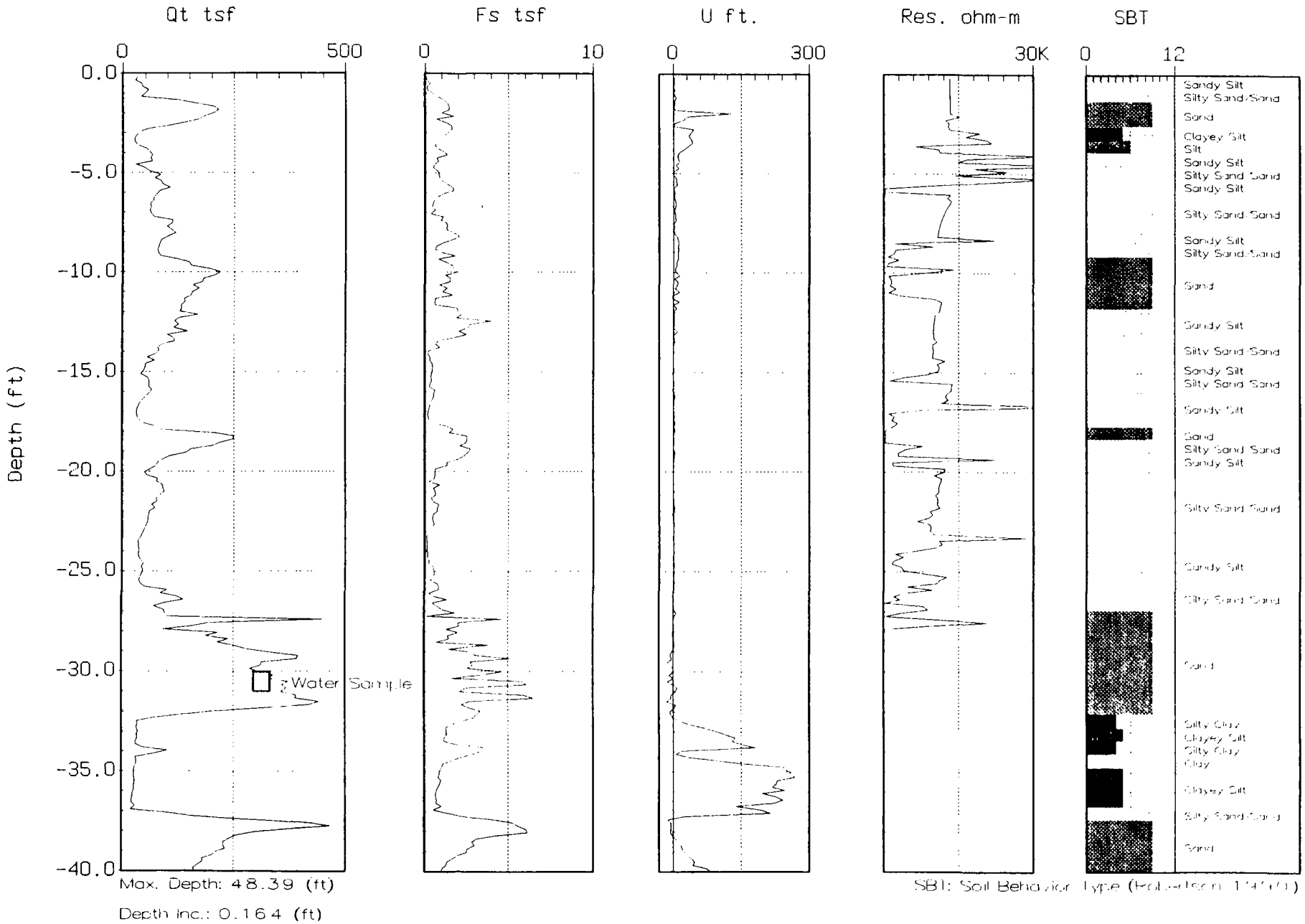
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-75
Location: DOWNER'S GROVE

Cone: 20 TON A 098
Date: 02:14:02 09:35



Max. Depth: 48.39 (ft)
Depth Inc.: 0.164 (ft)

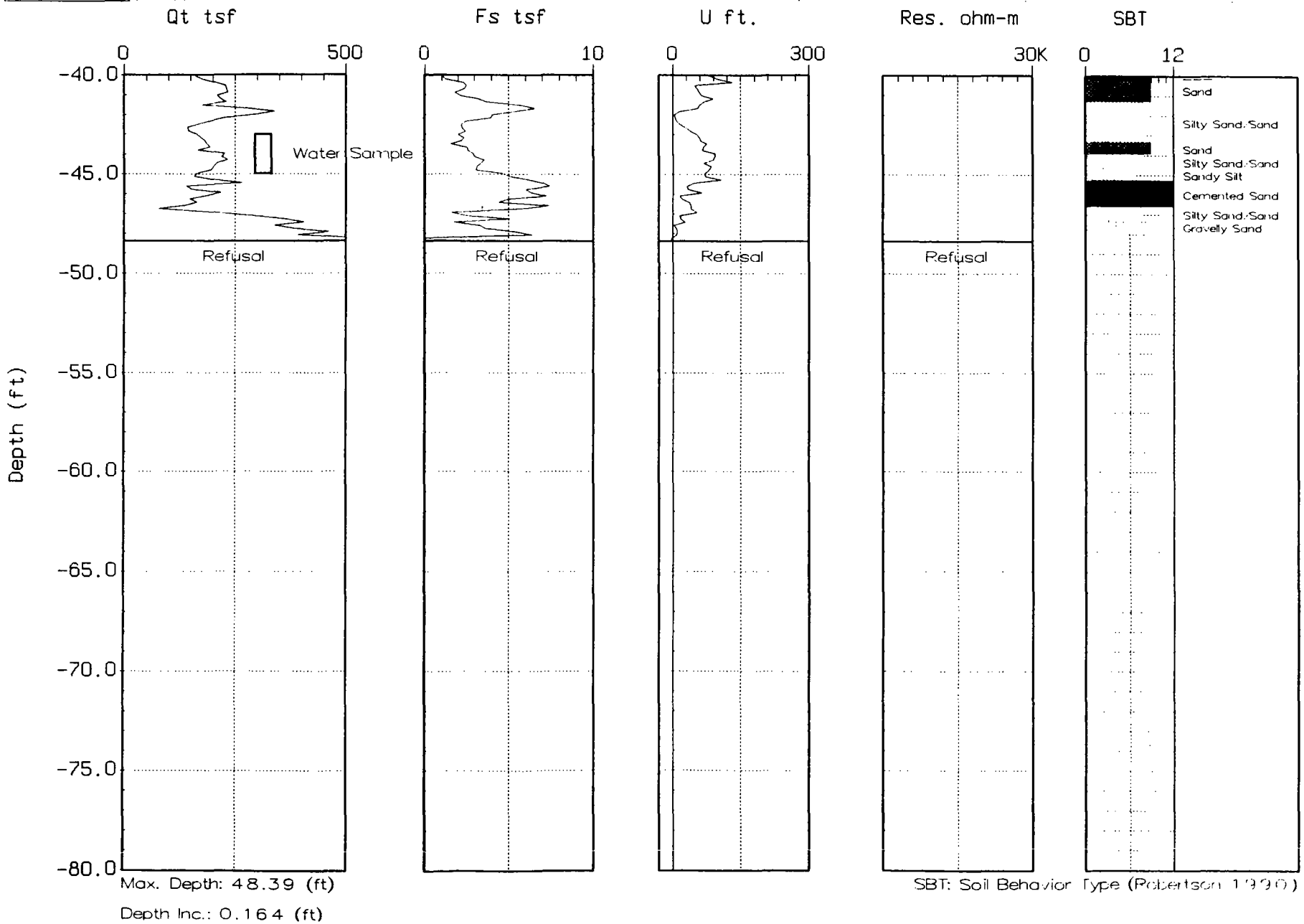
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-75
Location: DOWNER'S GROVE

Cone: 20 TON A 098
Date: 02:14:02 09:35



Max. Depth: 48.39 (ft)
Depth Inc.: 0.164 (ft)

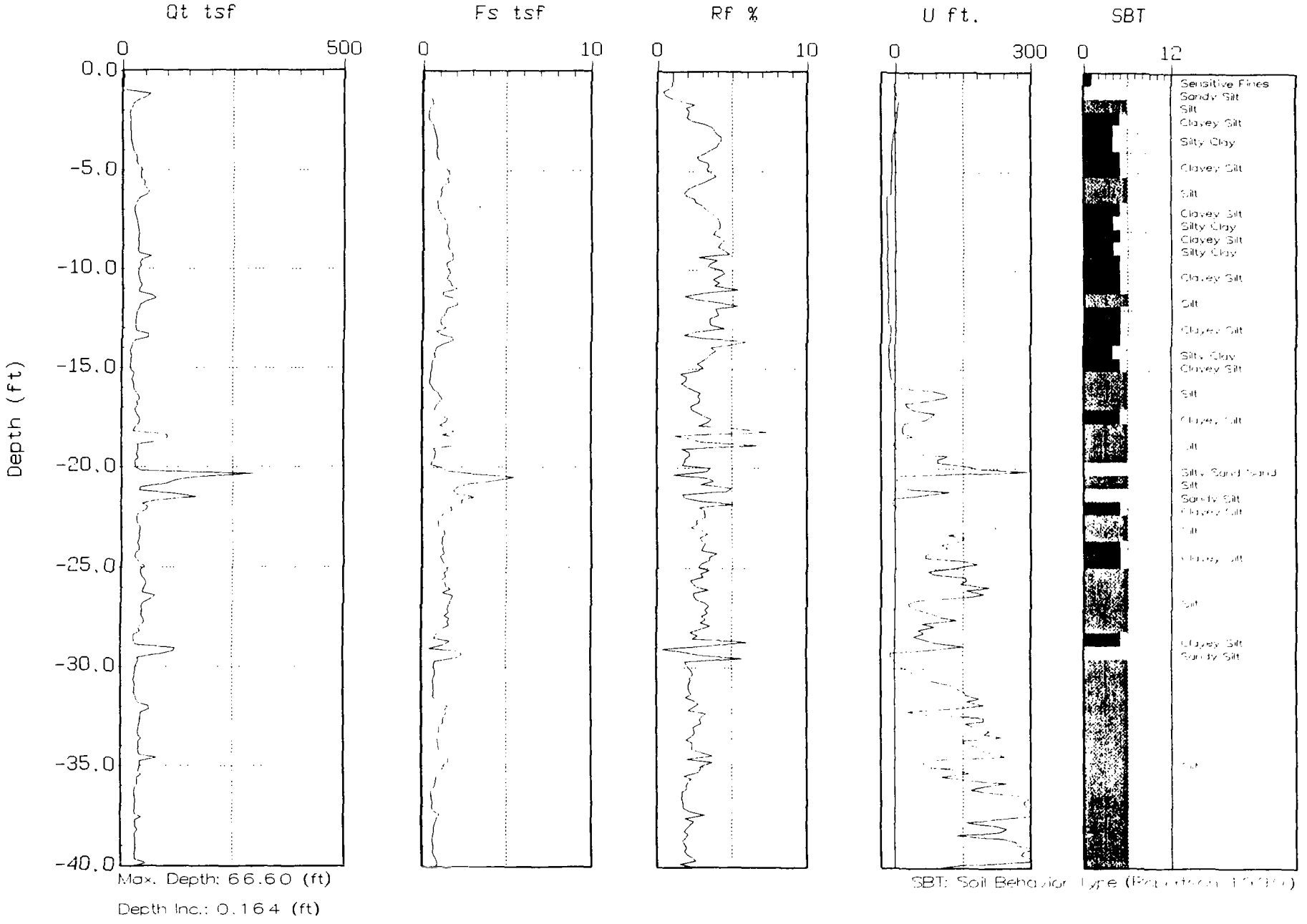
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT--78
Location: DOWNER'S GROVE

Cone: 20 TON A 1 1 2
Date: 02:19:02 10:11

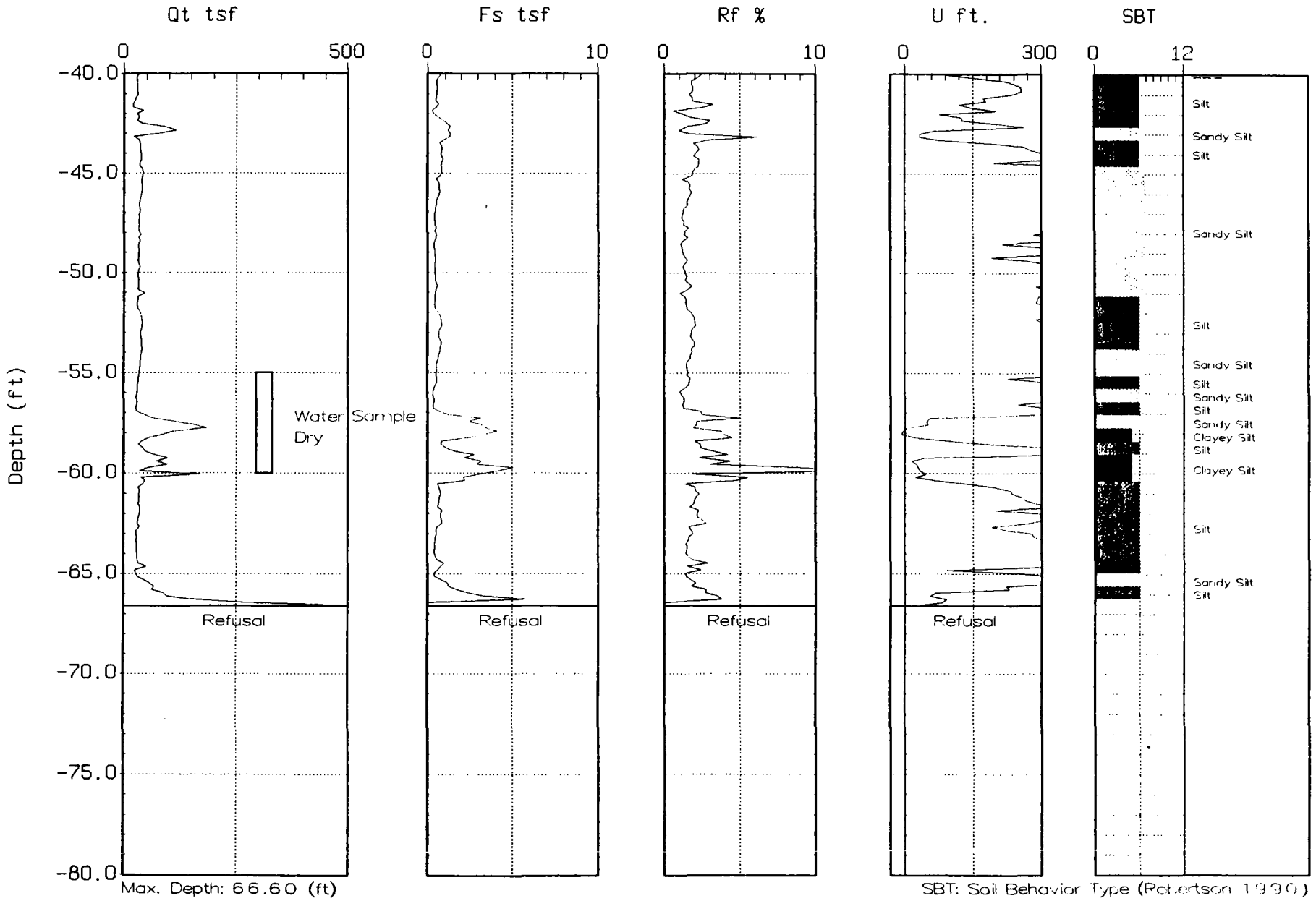


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-78
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 10:11



Max. Depth: 66.60 (ft)
Depth Inc.: 0.164 (ft)

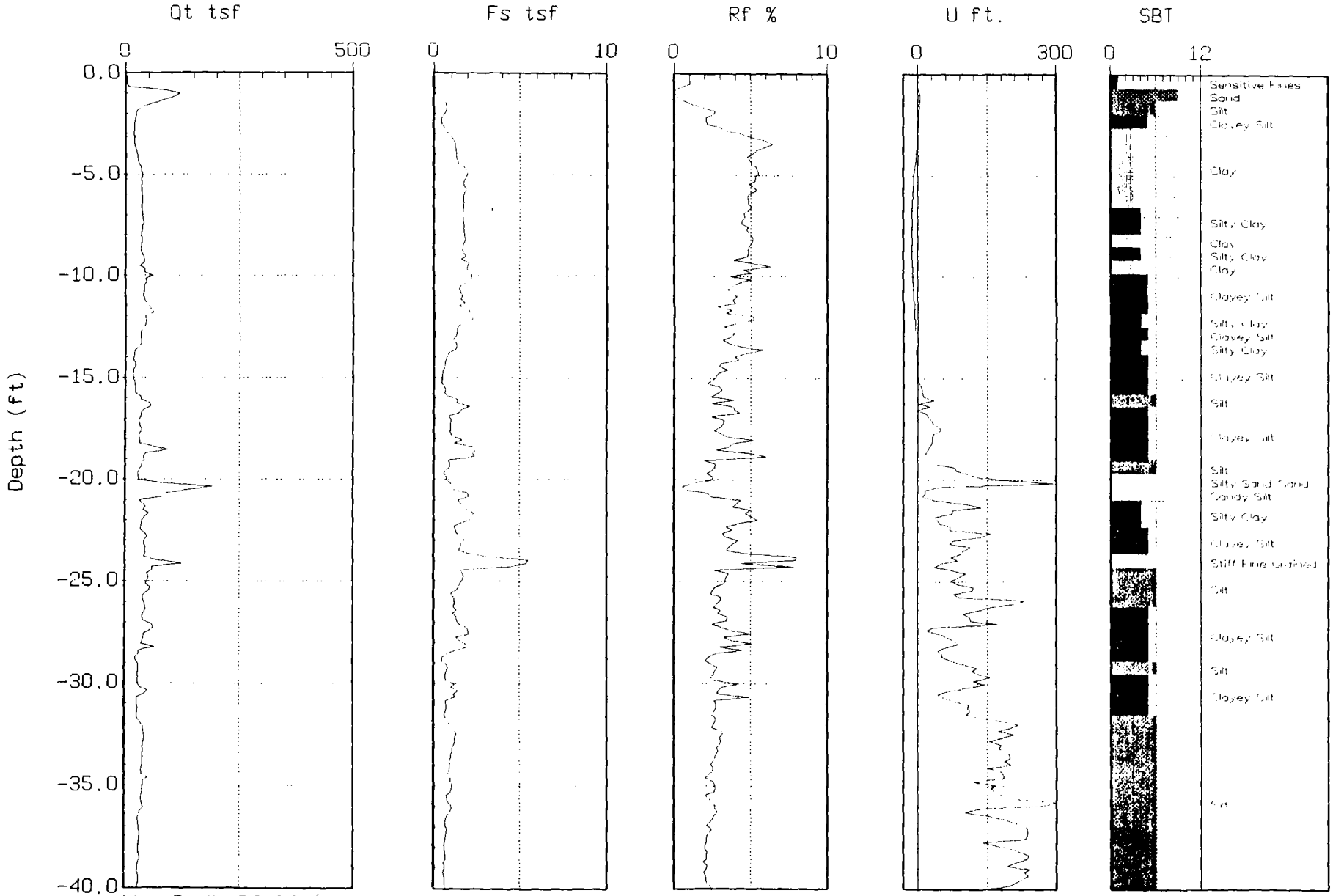
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-78A
Location: DOWNEY'S GROVE

Cone: 20 TOTA 112
Date: 02:19:02 11:09



Max. Depth: 60.20 (ft)
Depth Inc.: 0.164 (ft)

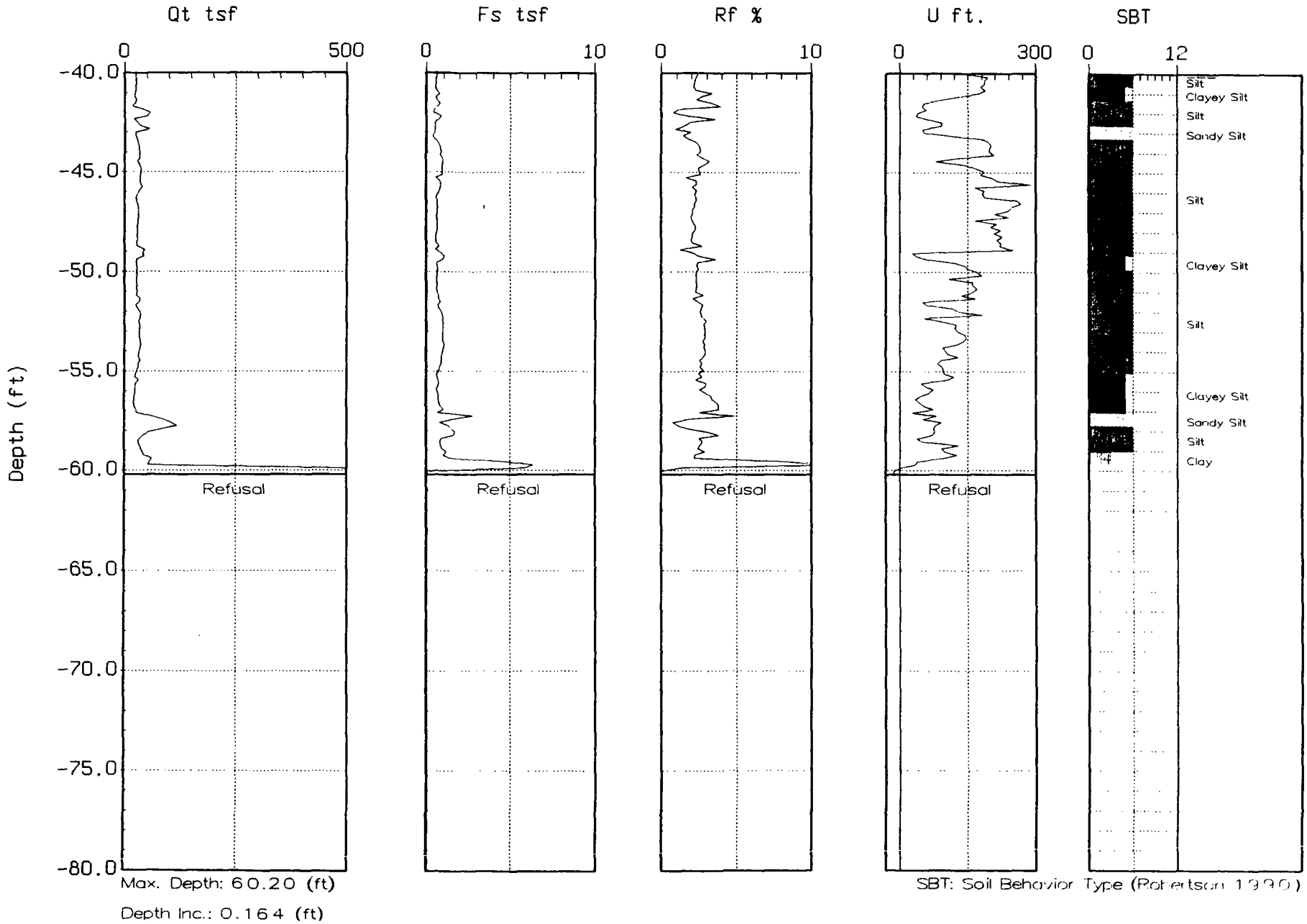
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-78A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:19:02 11:09

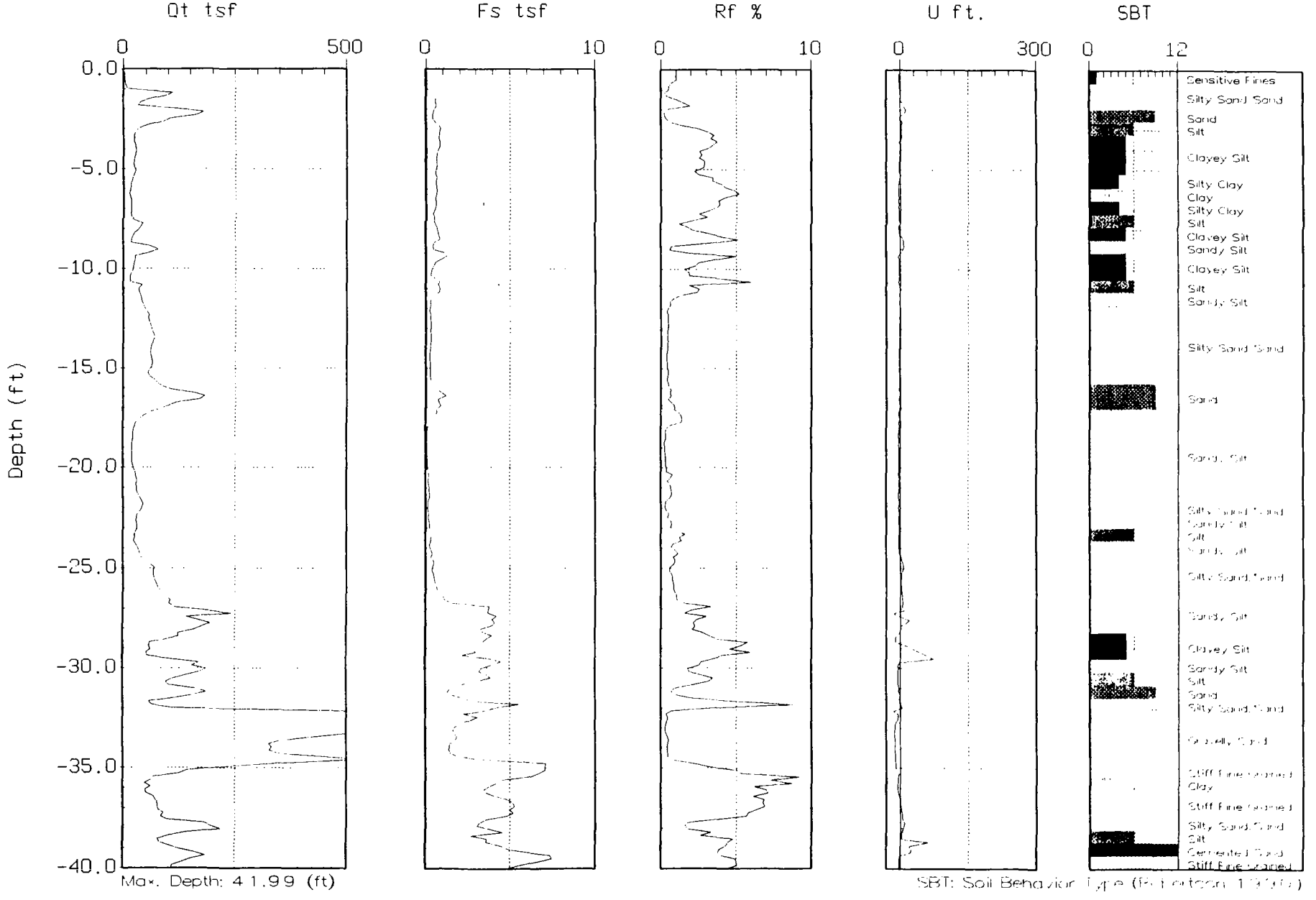


CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-79
Location: DOWNIEP'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 10:48



Max. Depth: 41.99 (ft)
Depth Inc.: 0.164 (ft)

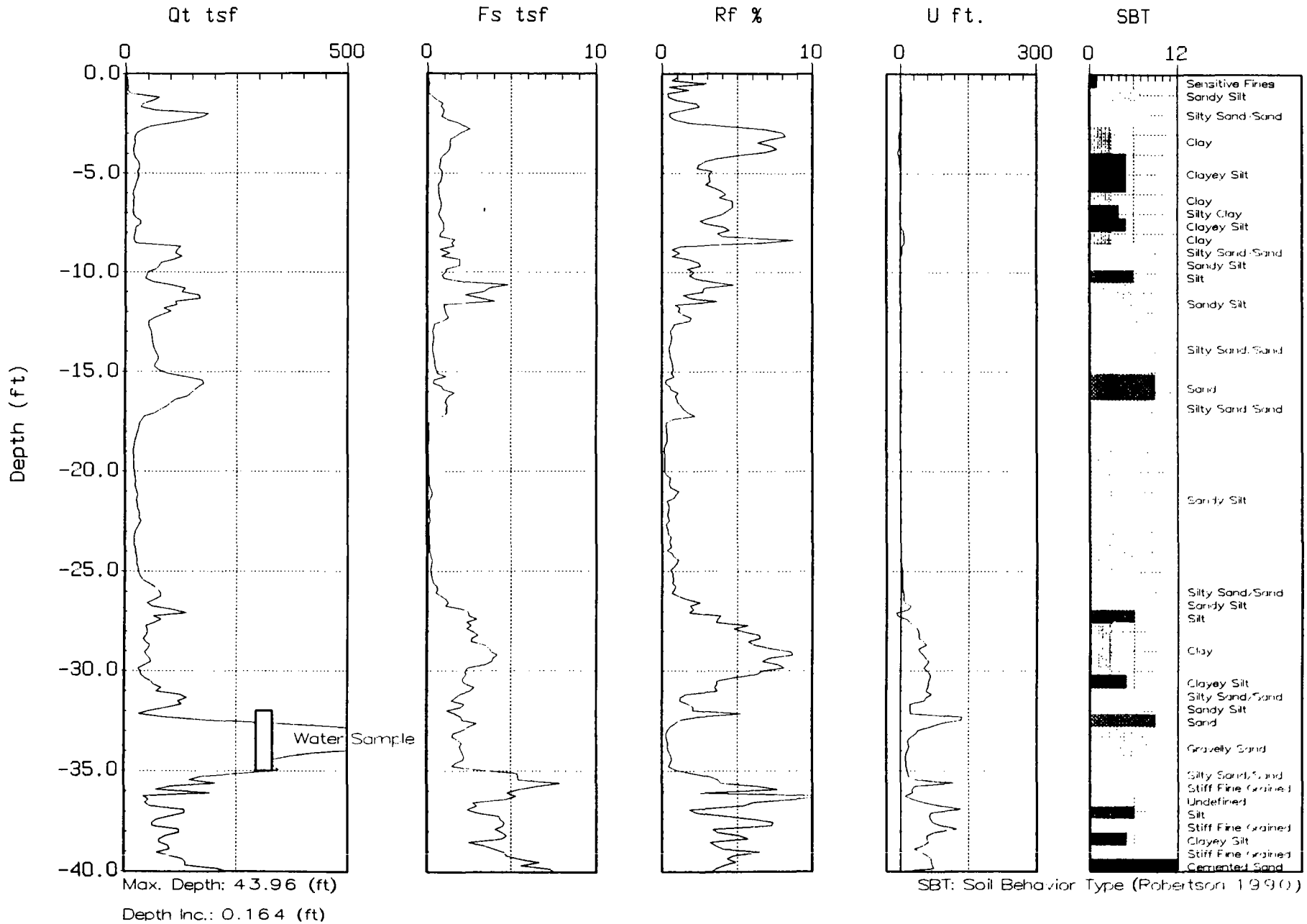
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-79A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 11:32



Max. Depth: 43.96 (ft)
Depth Inc.: 0.164 (ft)

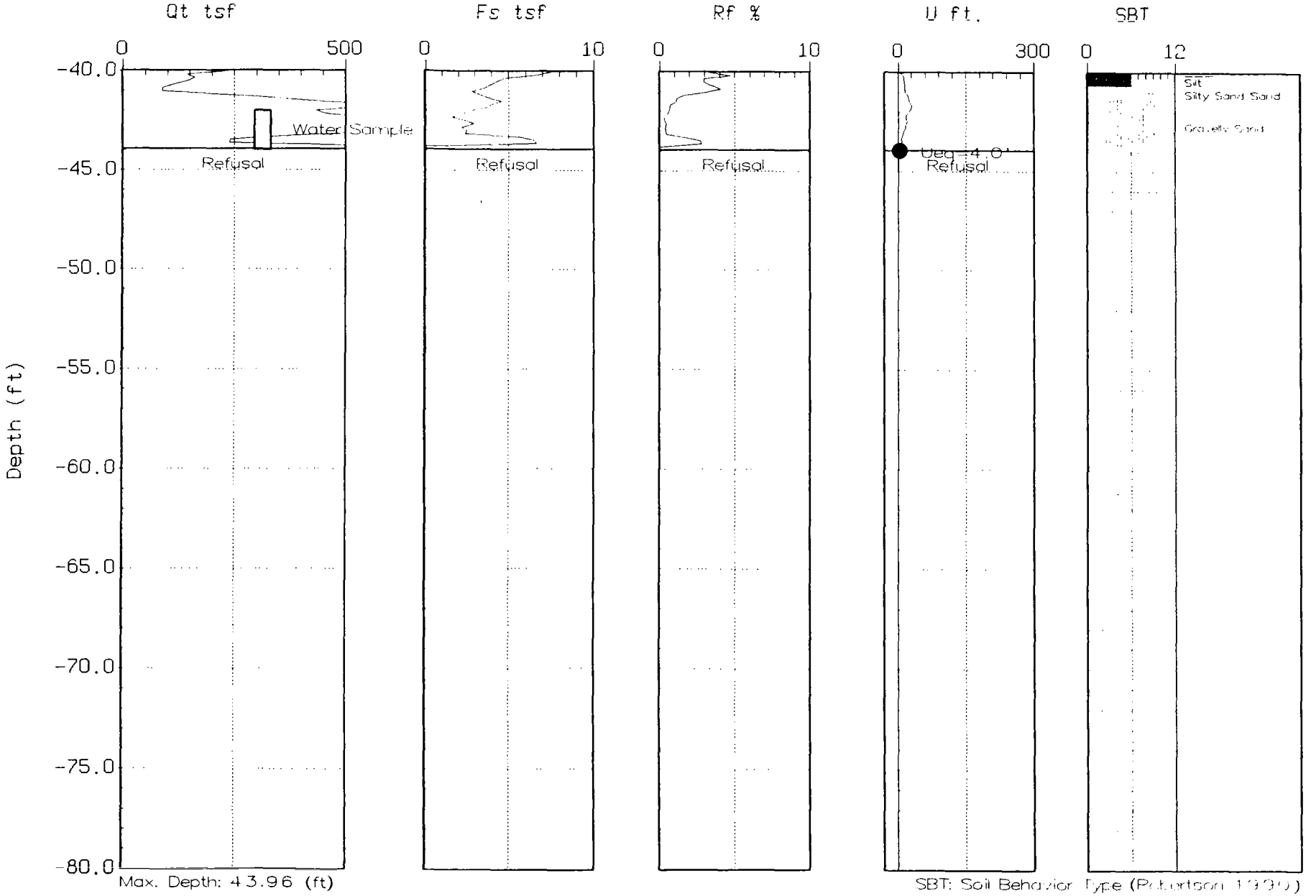
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-79A
Location: DOWNIER'S GROVE

Cone: 20 TON A 112
Date: 02:22:02 11:32



Max. Depth: 43.96 (ft)
Depth Inc.: 0.164 (ft)

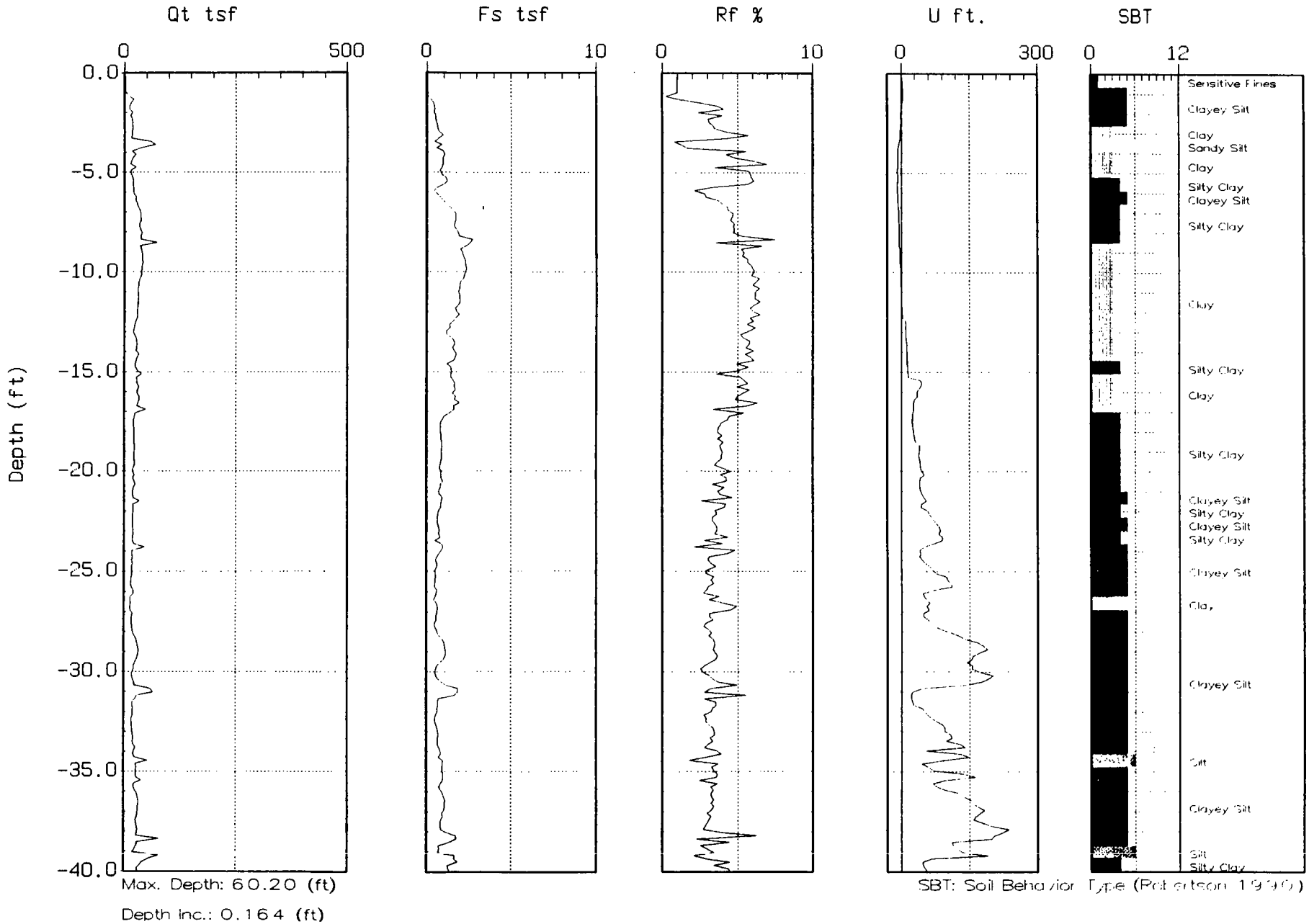
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-80
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 03:01:02 07:22



Max. Depth: 60.20 (ft)
Depth Inc.: 0.164 (ft)

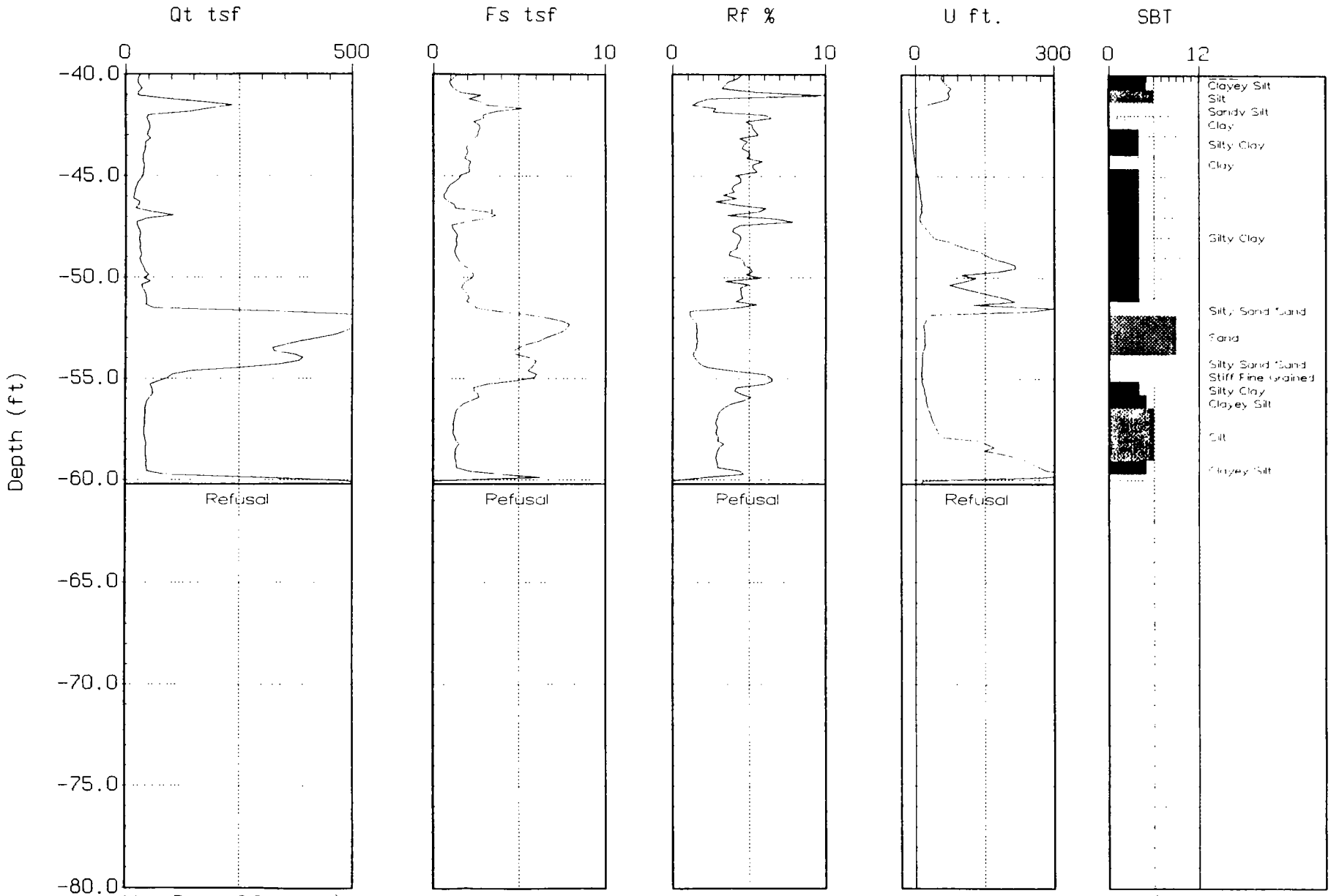
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-80
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 03:01:02 07:22



Max. Depth: 60.20 (ft)
Depth Inc.: 0.164 (ft)

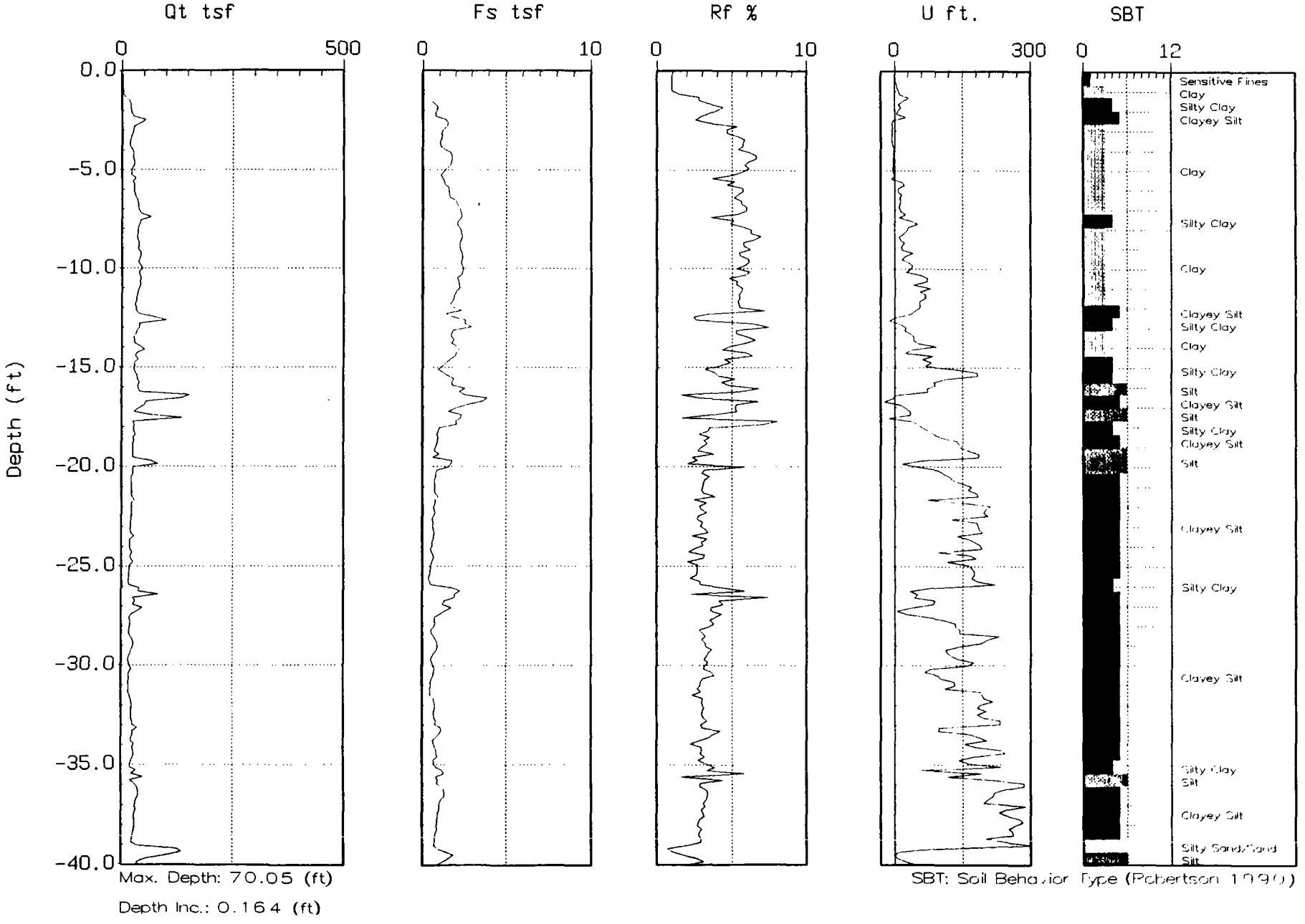
SBT: Soil Behavior Type (Robertson et al. 1986)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-80A
Location: DOWNER'S GROVE

Cone: 20 TON A 112
Date: 03:01:02 08:07



Max. Depth: 70.05 (ft)
Depth Inc.: 0.164 (ft)

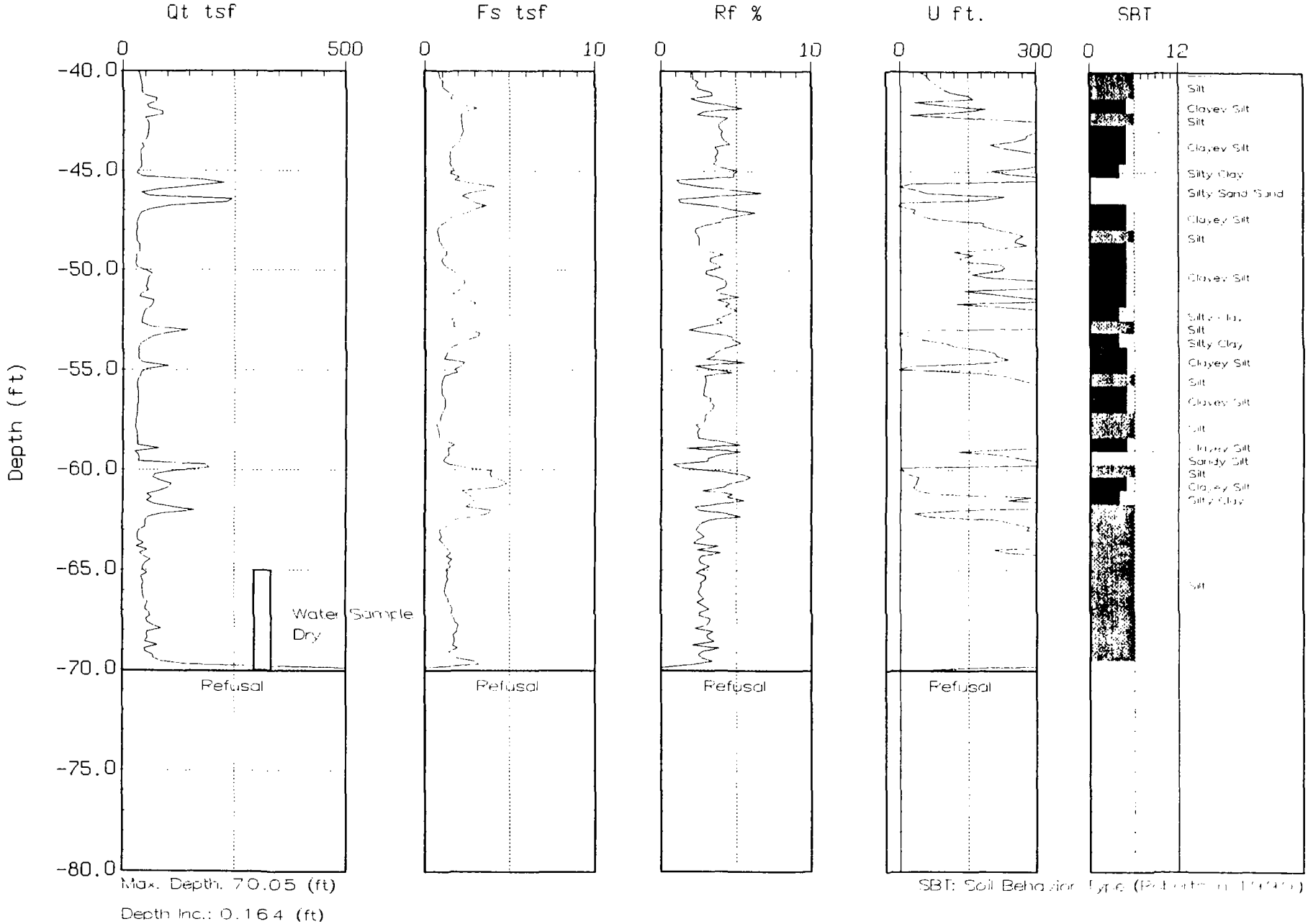
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-80A
Location: DOWNEY'S GROVE

Cone: 20 TON A 112
Date: 03:01:02 08:07



Max. Depth: 70.05 (ft)
Depth Inc.: 0.164 (ft)

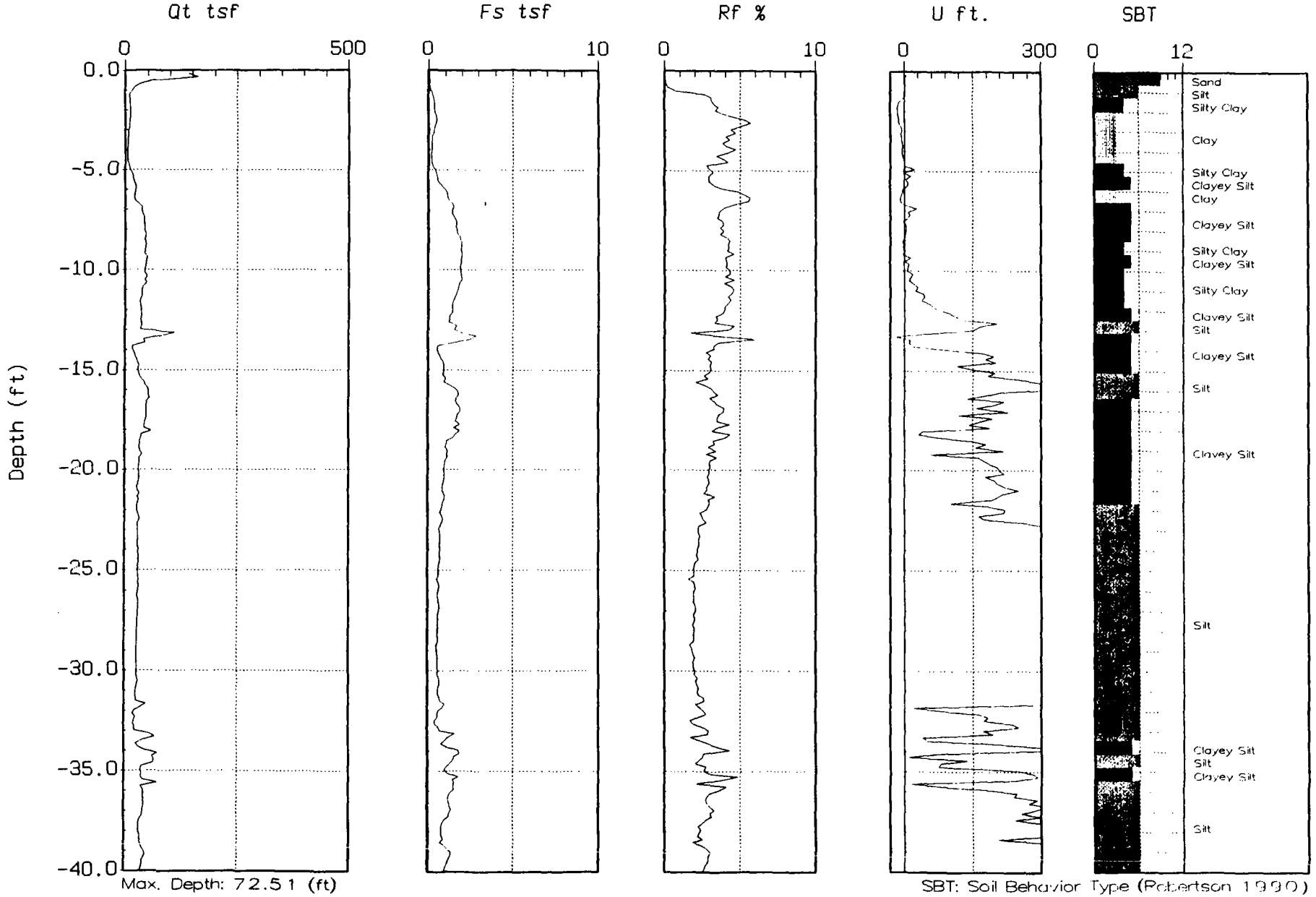
SBT: Soil Behavior Type

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-8 1
Location: DOWNER'S GROVE

Cone: 20 TON A 1 1 2
Date: 02:28:02 12:53



Max. Depth: 72.51 (ft)
Depth Inc.: 0.164 (ft)

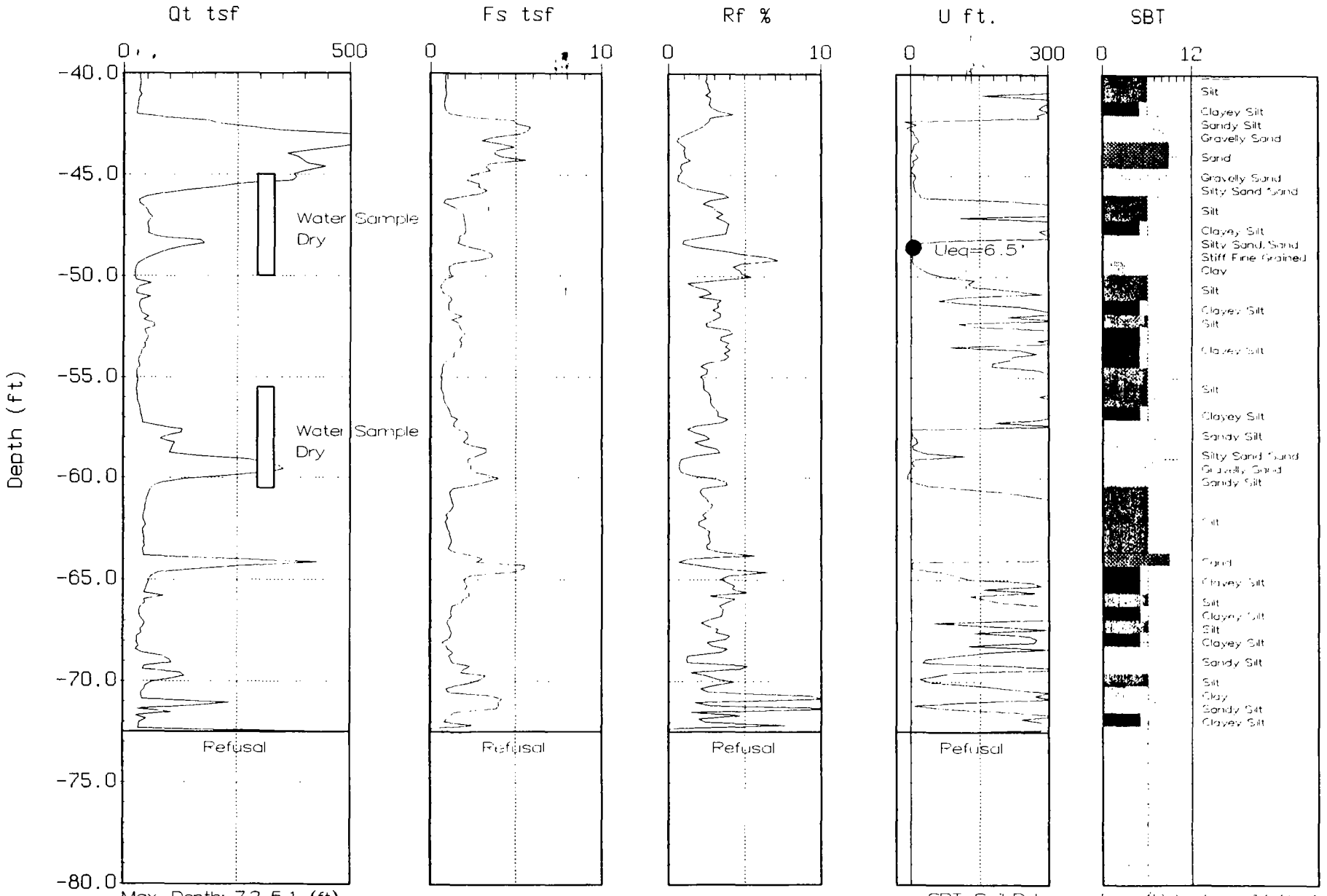
SBT: Soil Behavior Type (Robertson 1990)

CONETEC

Roy F. Weston, Inc.

Hole No.: CPT-8 1
Location: DOWNER'S GROVE

Cone: 20 TOTA 1 1 2
Date: 02:28:02 12:5 5



Max. Depth: 72.51 (ft)
Depth inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

APPENDIX C

GROUNDWATER SAMPLING FORMS

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-40

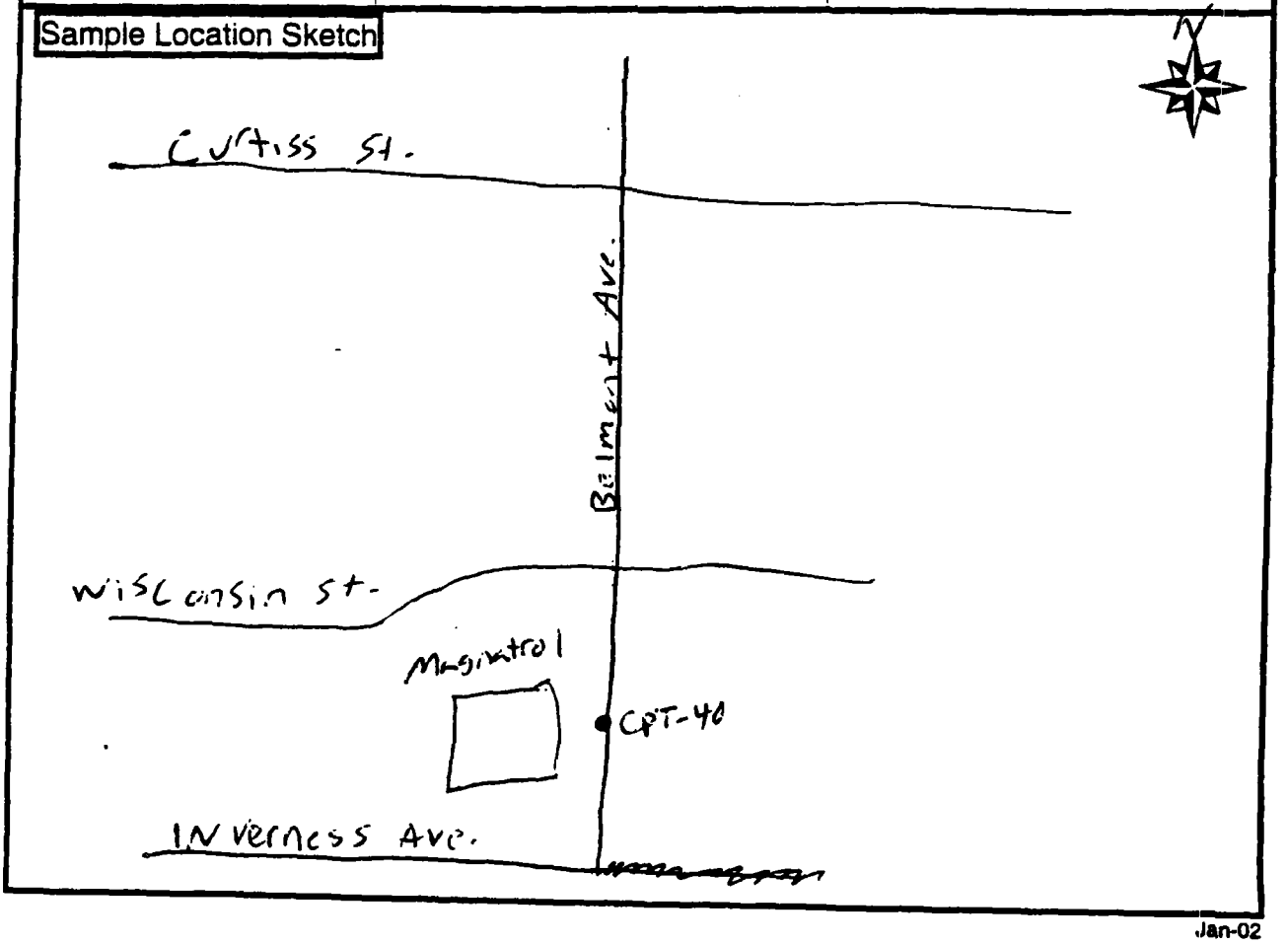
Date: 3/1/02

Samplers: B Schoeffer, B Marabkei

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-40(40-45)	1115	Right-Away (grass)	Very Silty

Sample Location Sketch



Date: 3/1/02
Time: 1115

Water Level and Water Quality / Well Purging Data Sheet

Site Name: Downers Grove **Location Well Number:** CPT-40 (40-45) **Sampler:** B. Schaefer, B. Mai-

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	unit
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	unit
During				mOhms	H M L N	% O.	unit
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	unit
During				mOhms	H M L N	% O.	unit
During				mOhms	H M L N	% O.	units
Final				mOhms	(H) M L N	% O.	units

* Not enough water for water quality
only received 2 vials

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-41

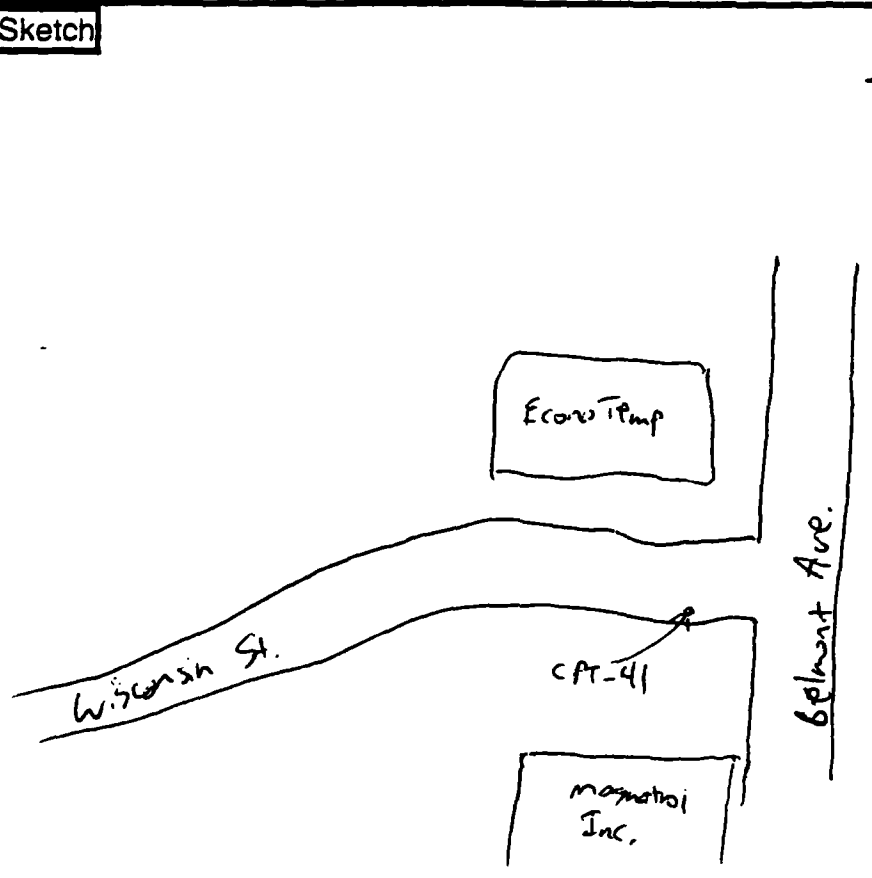
Date: 2/19/02

Samplers: B Schaefer and B Muradkel

Comments (weather, temp, etc.): N of Magnatrol on Wisconsin St.

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-41(34-35)	1450		silty
CPT-41(53-55)	1510		very silty

Sample Location Sketch



Jan-02

Date: 2/19/02
Time: 1510

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-4 (53-55) **Well Number:** _____ **Sampler:** B Schaefer and B Mar...

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1510	18.1°C	7.58	1382 ~~mOhms~~	(H) M L N	% O.	units

45

Date: 2/19/02
Time: 1450

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-41(34-35) **Well Number:** _____ **Sampler:** B Schaefer and B Marad

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): _____ft_____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: _____(H) x _____(GPF) = _____Gals **Volume to Purge:** _____Gallons x 3 = _____Gals

Actual Volume Purged: _____Gals (estimated) **Purge Rate:** _____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1450	17.1°C	7.03	931 ~~mOhms~~ µS	H M L N	% O_2	units

Groundwater Sampling Form

Downer s Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-42

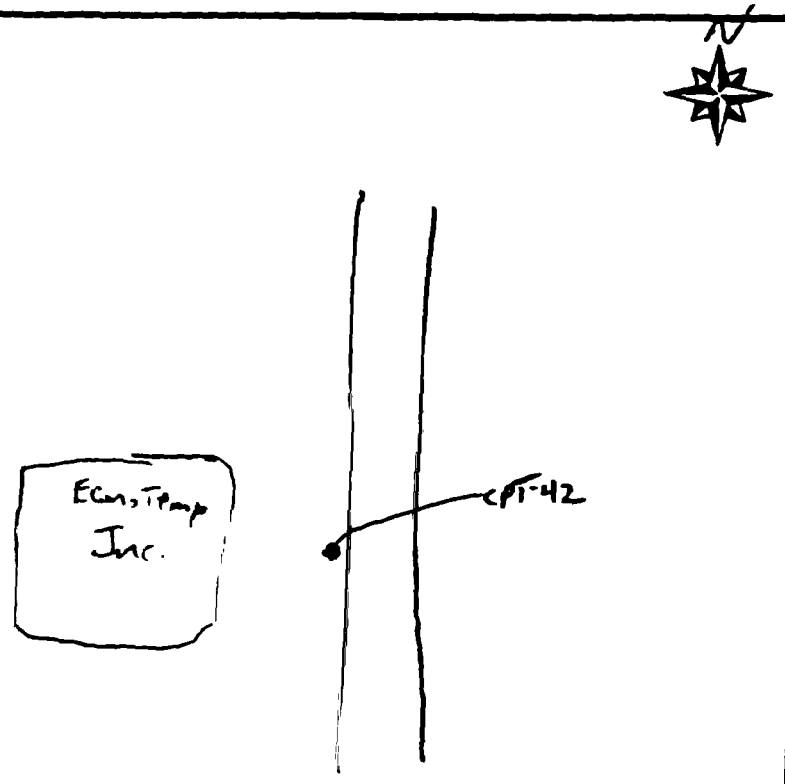
Date: 2/28/02

Samplers: B Schaefer and B Maradkel

Comments (weather, temp. etc.): In front of Econo Temp

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-42 (30.6-32.8)	1013		silty
CPT-42 (45-47)	1035		slightly silty

Sample Location Sketch



Date: 2/28/02

Time: 1035

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-42 (45-47) **Well Number:** _____ **Sampler:** B Schaefer and B Maradk

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5" (.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1035	14.0°C	7.12	1719 ~~mOhms~~ µS	~~H~~ M L N	% O_2	units

Date: 2/28/02
Time: 1013

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-42 (30.8-32.8) **Well Number:** _____ **Sampler:** B Shaeffer and [illegible]

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	unit
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	uni
During				mOhms	H M L N	% O_2	uni
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	uni
During				mOhms	H M L N	% O_2	uni
During				mOhms	H M L N	% O_2	units
Final	1013	13.5°C	7.12	901 ~~mOhms~~	(H) M L N	% O_2	uni

NS

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-43

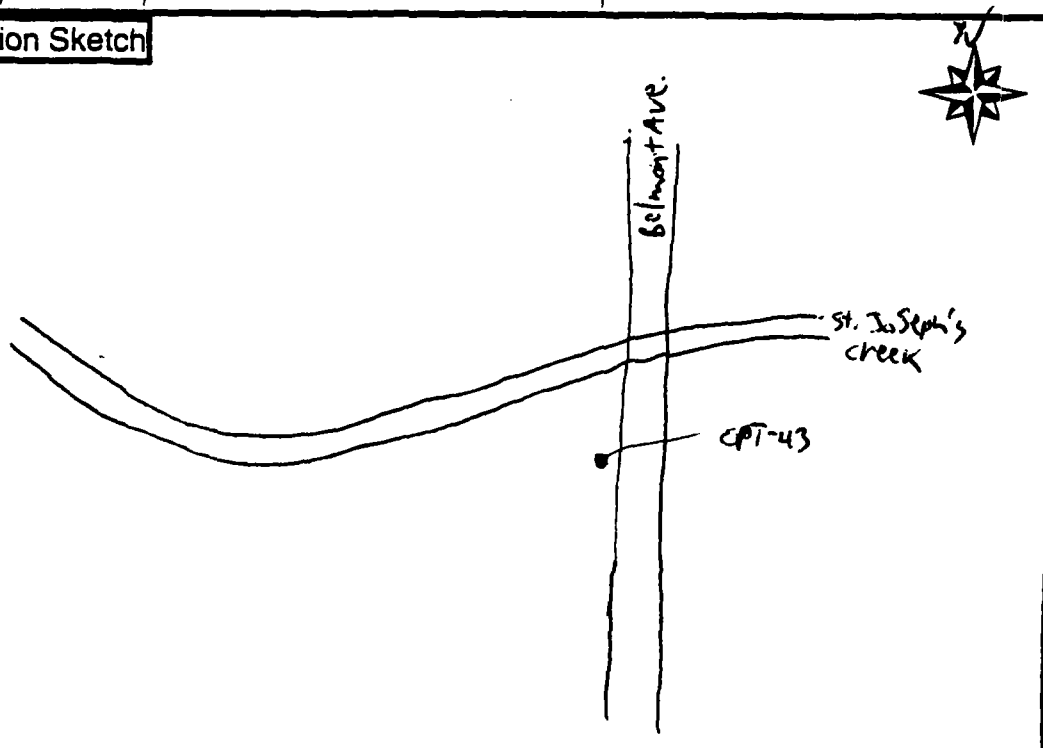
Date: 2/27/02

Samplers: B Schaefe and B Marchkel

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-43(23-26)	1615		silty
CPT-43(40.5-43)	1635		silty
CPT-43(58.5-61)	1730		very silty

Sample Location Sketch



Date: 2/27/02
Time: 1615

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-43 (23-26) **Well Number:** _____ **Sampler:** B Schaefer and B Morse

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1615	12.9°C	7.04	1477 ~~mOhms~~ uS	H M L N	% O.	units

Date: 2/27/02
Time: 1635

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-43 (40.5-43) **Well Number:** _____ **Sampler:** B Schaefer and B Marado

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1635	13.5°C	7.63	1066 ~~mOhms~~ µS	(H) M L N	% O_2	units

SOP201 Collected a dup

Date: 2/27/02

Time: 1730

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-43 (58.5-61) **Well Number:** _____ **Sampler:** B Schaefer and B Marsh

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5" (.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	unit
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	unit
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	unit
During				mOhms	H M L N	% O_2	units
Final	1730	11.4°C	7.79	1106 ~~mOhms~~ mS	H M L N	% O_2	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-44

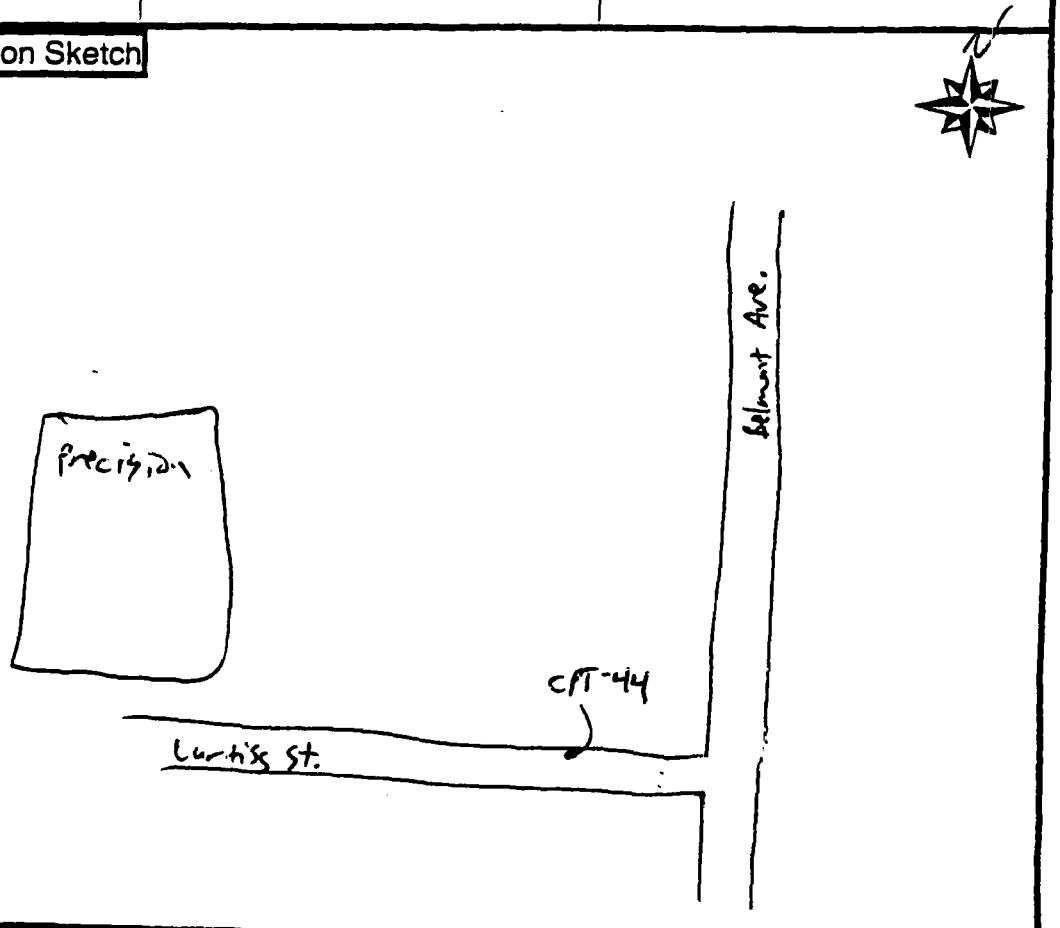
Date: 2/26/02

Samplers: B Schaefer and B Marandkel

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-44(36-37)	1630		Silty

Sample Location Sketch



Jan-02

Date: 2/26/02
Time: 1630

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-44 (36-37) **Well Number:** _____ **Sampler:** B Schaefer and B M...

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5" (.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1630	14.7°C	7.34	967 ~~mOhms~~	H M L N	% O_2	units

µS

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

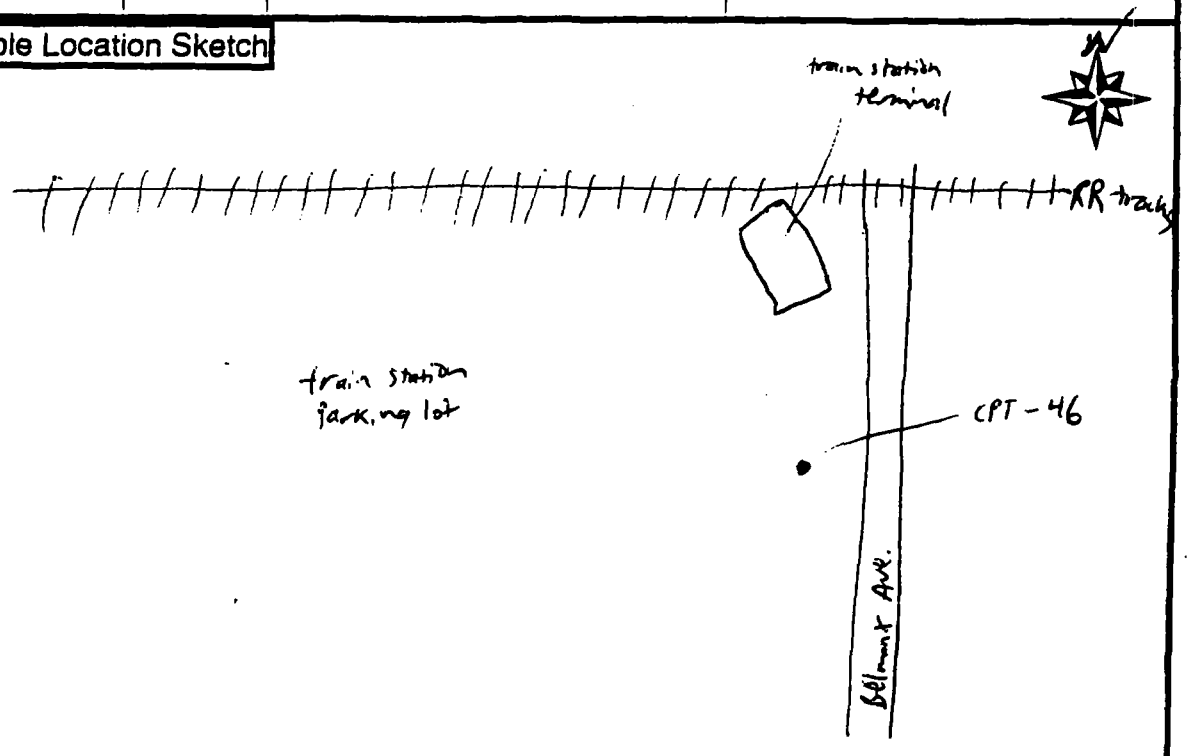
Location: CPT-46 Date: 2/26/02

Samplers: B Schaefer and B Maradkel

Comments (weather, temp, etc.): In train station parking lot.

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-46(44-45)	1410		silty

Sample Location Sketch



Date: 2/26/02
Time: 1410

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-46(44-45) **Well Number:** _____ **Sampler:** B Schuete and B Marco

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ___ft___in **Depth to Product:** ___ft___in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1410	14.5°C	7.00	1302 ~~mOhms~~ µS	(H) M L N	% O.	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-48

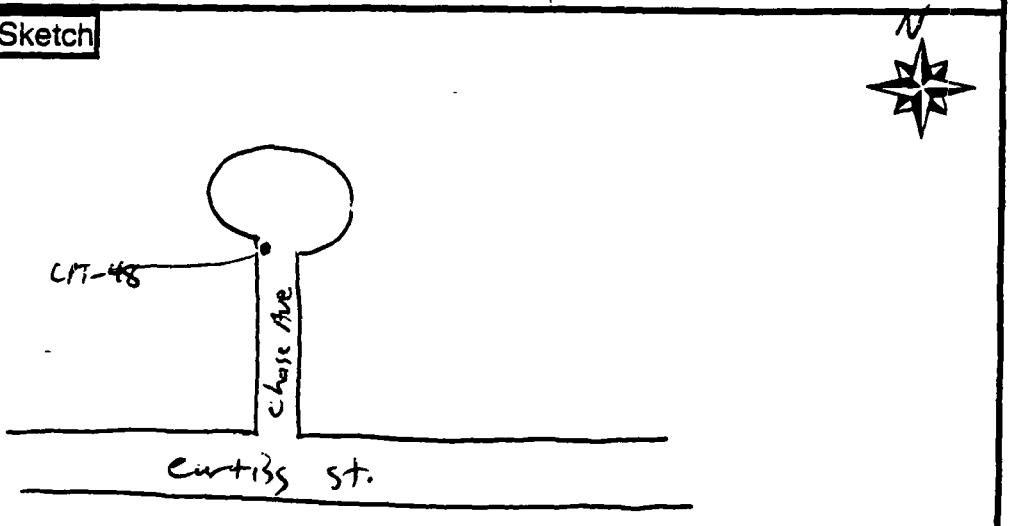
Date: 2/15/02

Samplers: B Schaefer, B Marquardt

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-48(31.5-32.5)	1240		very silty, trace sand

Sample Location Sketch



Jan-02

Date: 2/15/02
Time: 1240

Water Level and Water Quality / Well Purgine Data Sheet

Site Name: CPT-48 (31.5-32.5) **Well Number:** _____ **Sampler:** B Schaefer and B Mar

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer (Steel Bailer) Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

None Taken

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final				mOhms	(H) M L N	% O.	units

1 VOC vial recovered

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-50

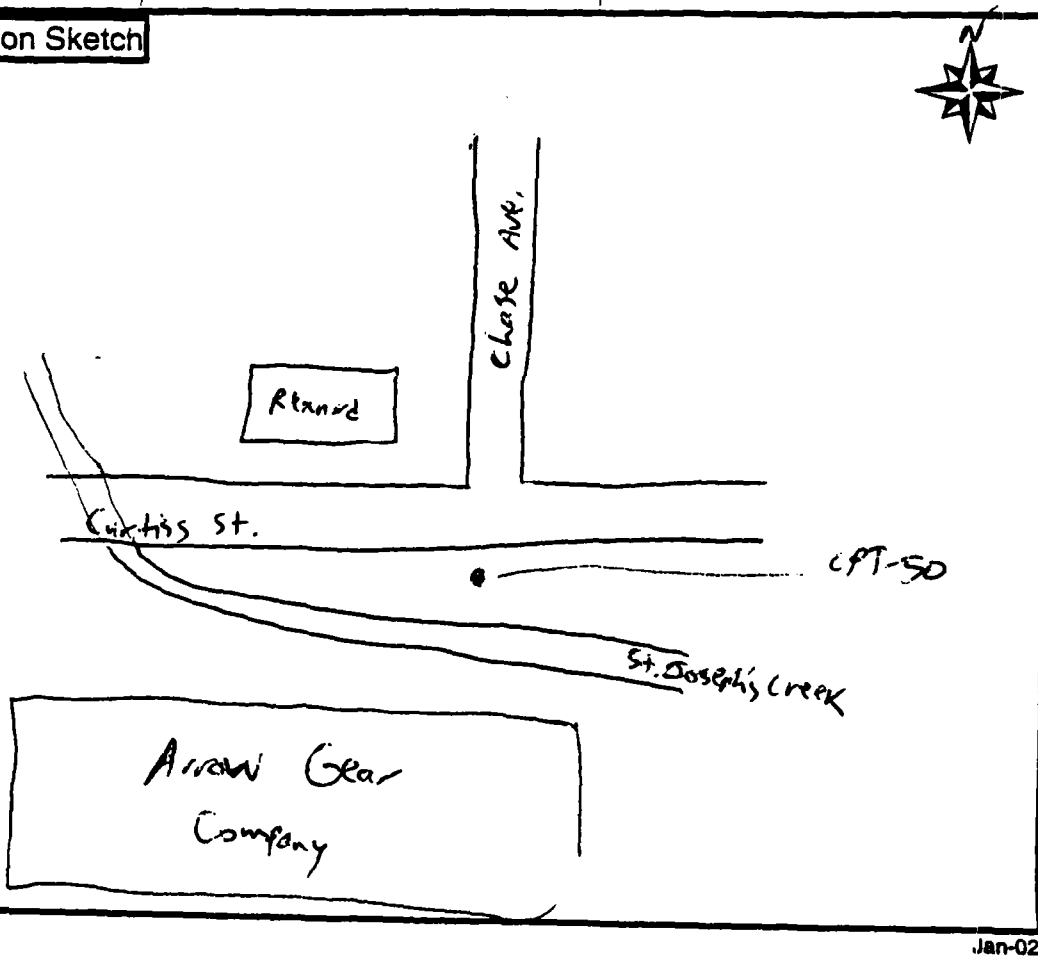
Date: 2/22/02

Samplers: B Schaefer

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-50(43-46)	1640		Silty

Sample Location Sketch



Jan-02

Date: 2/22/02
Time: 1640

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-50(43-46) **Well Number:** _____ **Sampler:** B Schaefer

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1640	13.0°C	7.69	1072 ~~mOhms~~ µS	(H) M L N	% O_2	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-51

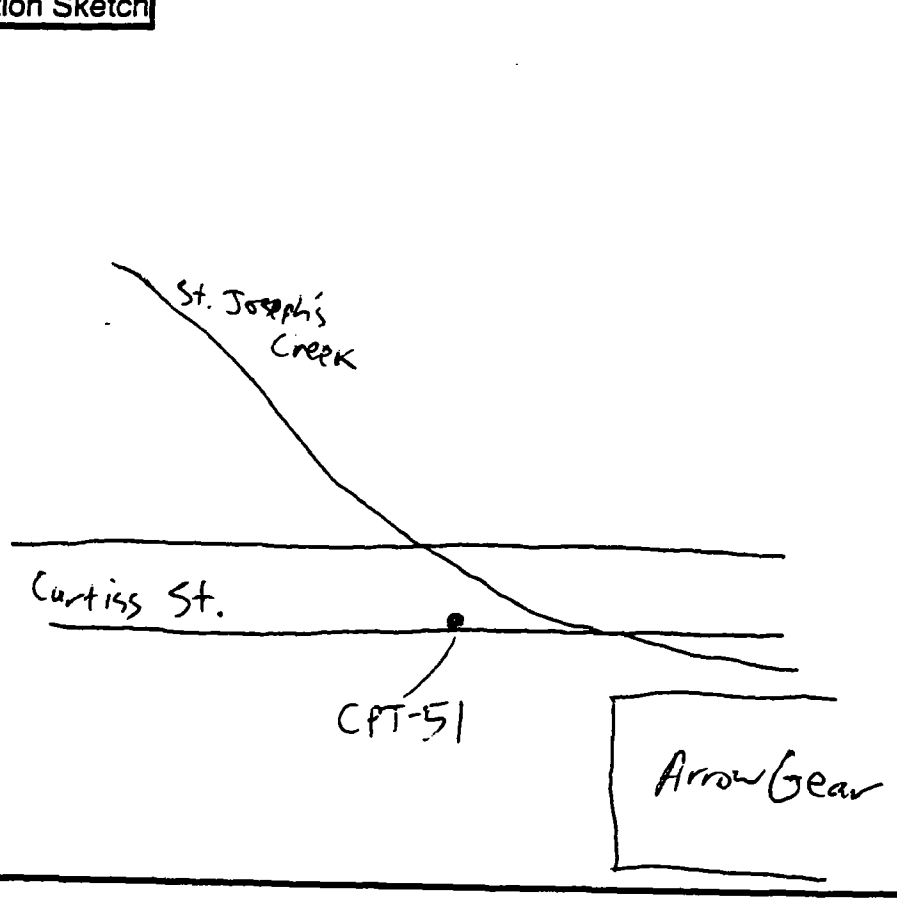
Date: 2/15/02

Samplers: B Schaefer, B Maradnel

Comments (weather, temp, etc.): By Arrow Gear Corp.

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-51 (36-37)	1530		Silty

Sample Location Sketch



Jan-02

Date: 2/15/02
Time: 1530

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-51(36-37) **Well Number:** _____ **Sampler:** B Schaefer, B Marzadue

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer (Steel Bailer) Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1530	14.3°C	7.05	1291 ~~mOhms~~ µS	(H) M L N	% O_2	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-52

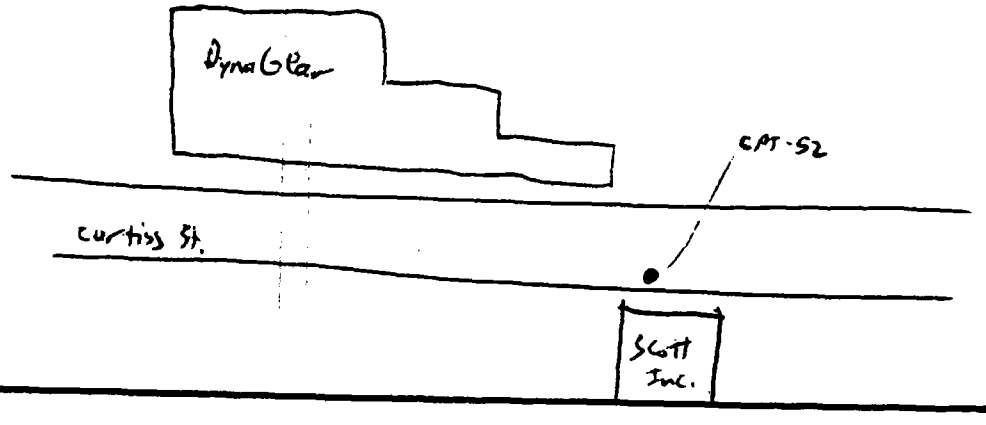
Date: 2/18/02

Samplers: G Schaefer and G Marakel

Comments (weather, temp, etc.): Next to Scott, Inc.

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-52 (37-42)	1720		Silty

Sample Location Sketch



Jan-02

Date: 2/18/02

Time: 1720

Water Level and Water Quality / Well Purging Data Sheet

Site Name: ~~[illegible]~~ CPT-52 (37-42) **Well Number:** _____ **Sampler:** G Schaefer and G Madrid

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer (Steel Bailer) Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

None taken

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final				mOhms	(H) M L N	% O.	units

Yes 2 VOC vials recovered

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Date: 2/15/02

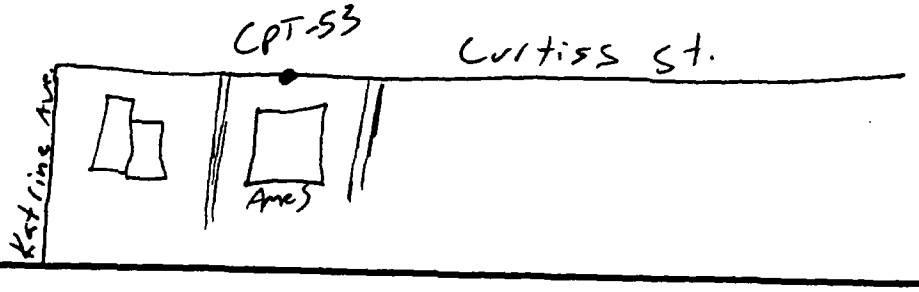
Location: Downer Grove

Samplers: Schaefer and Marcelke

Comments (weather, temp, etc.): In front of Ames Supply

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-53(34-35)	1310		silty

Sample Location Sketch



Date: ~~2/14/02~~ 2/15/02

Time: _____

Water Level and Water Quality / Well Purging Data Sheet

Site Name: Downers Grove **Well Number:** CPT-53(34-35) **Sampler:** B Schaefer and B Marcu

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer ~~Steel Bailer~~ Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

None Taken

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final				mOhms	(H) M L N	% O_2	units

~~Vtank target enough H_2O~~

1 VOC vial recovered

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-58

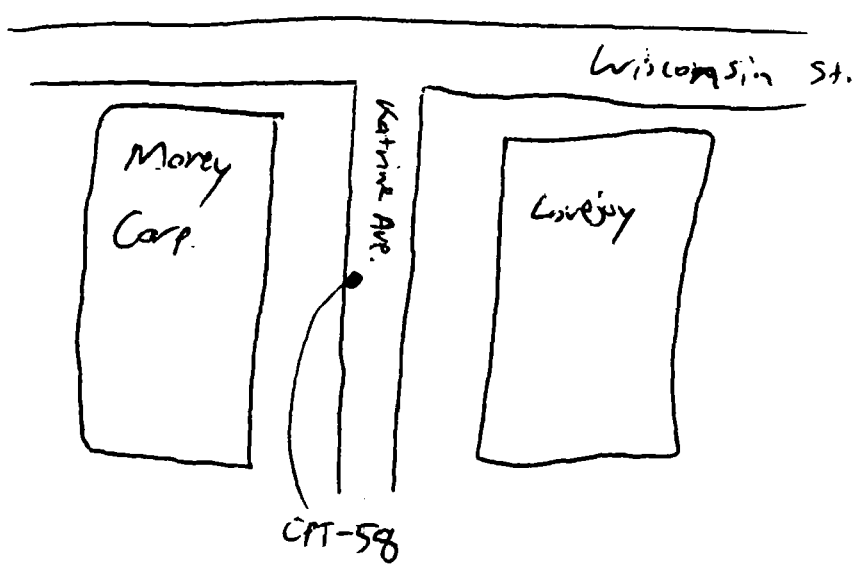
Date: ~~2/20/02~~ 2/21/02 BS

Samplers: B Schaefer and B Maradkel

Comments (weather, temp, etc.): E of Morey Corp.

Sample ID	Time	Description of area sampled	Sample Appearance
~~CPT-58 (47-52) BS~~			
CPT-58 (61-66)	0930/1600		very silty

Sample Location Sketch



Date: ~~2/20/02~~ 2/21/02 BS

Time: 0930 / 1600

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-58 (61-66) **Well Number:** _____ **Sampler:** B Schaefer and B Marad

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ___ft___in **Depth to Product:** ___ft___in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5" (.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

None Taken

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final				mOhms	H M L N	% O_2	units

Approx. 3/4 of 1 VOC vial recovered, composite.

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-63 ~~(33-34)~~ 45

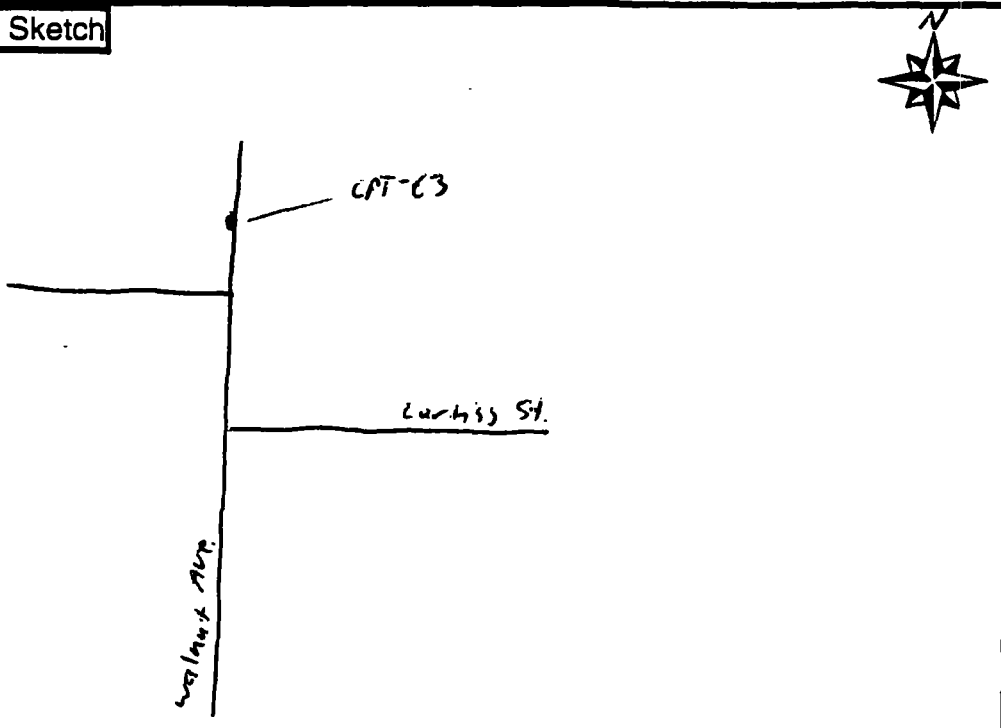
Date: 2/13/02

Samplers: B Schaefer, B Muradkel

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-63(33-34)	1350		silty
CPT-63(45-49)	1430		silty

Sample Location Sketch



Date: 2/13/92

Time: 1350

Water Level and Water Quality / Well Purging Data Sheet

Site Name: Denny Grove **Well Number:** CPT-63(33-34) **Sampler:** BS [illegible], B [illegible]

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1350	15.3	7.47	1174	~~mOhms~~ uS	H M L N	% O.	units

Date: 2/13/02
Time: 1430

Water Level and Water Quality / Well Purging Data Sheet

Site Name: Dunes Grove **Well Number:** CPT-63(45-49) **Sampler:** B Schotte, B Alexander

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in __N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Collected a duplicate (CPT-63(45-49) Dup)

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1430	~~9.65~~ 12.4	~~12~~ 7.68	6.63 mOhms	H M L N	% O.	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-64

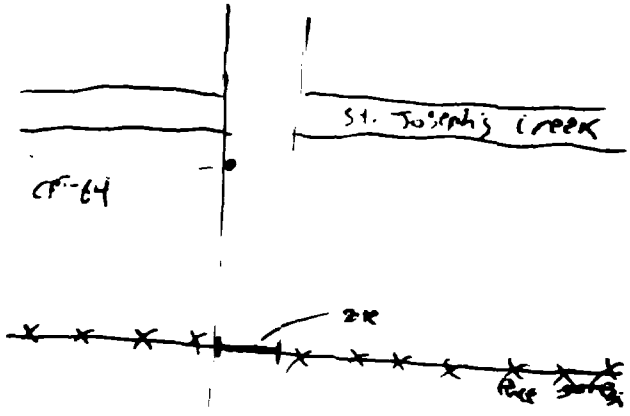
Date: 2/21/02 / 2/22/02

Samplers: B Schaefer and A Mandkel

Comments (weather, temp. etc.): Inside sanitary waste water treatment plant

	Sample ID	Time	Description of area sampled	Sample Appearance
2/21/02	CPT-64(22.5-25.5)	1520		Silty
2/22/02	CPT-64(36-41)	0915		very silty/sandy

Sample Location Sketch



Jan-02

Date: 2/21/02
Time: 1520

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-64 (22.5-24.5) **Well Number:** _____ **Sampler:** B Schaefer and B Marsdael

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1520	13.0°C	7.86	840 ~~mOhms~~ µS	(H) M L N	% O_2	units

Date: 2/22/02
Time: 0915

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-64 (36-41) **Well Number:** _____ **Sampler:** B Schoette

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	0915	10.2°C	7.63	1105	~~mOhms~~ H M L N	% O.	units

NS

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-65

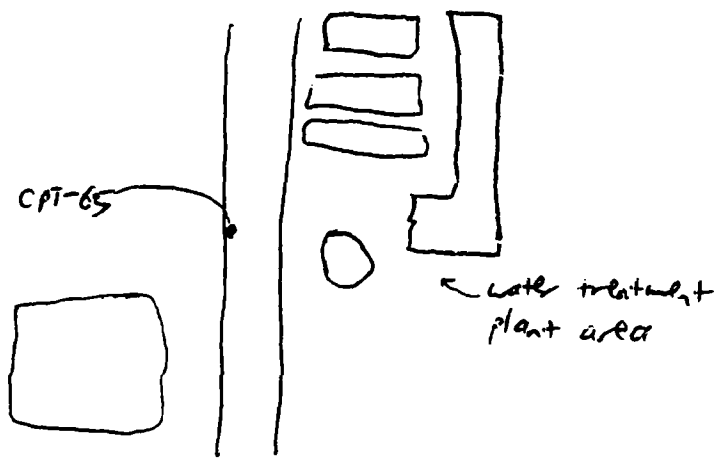
Date: 2/21/02

Samplers: D Schalter and L Maradkel

Comments (weather, temp, etc.): In sanitary water treatment plant

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-65(12-13)	1255		Silty
CPT-65(46-48)	1315		Silty

Sample Location Sketch



Jan-02

Date: 2/21/02
Time: 1255

Water Level and Water Quality - Well Purging Data Sheet

Site Name: CPT-65 (12-13) **Well Number:** _____ **Sampler:** B Schaefer and B Marsden

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1255	15.4°C	7.57	1224	~~mOhms~~ uS	(H) M L N	% O.	units

SOP201

Date: 2/21/02
Time: 1315

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-65 (46-48) **Well Number:** _____ **Sampler:** B. Schäfer and [illegible]

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in __N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data collected a dup (CPT-65 (46-48))

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1315	16.1°C	7.75	996 ~~mOhms~~ µS	(H) M L N	% O_2	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-66

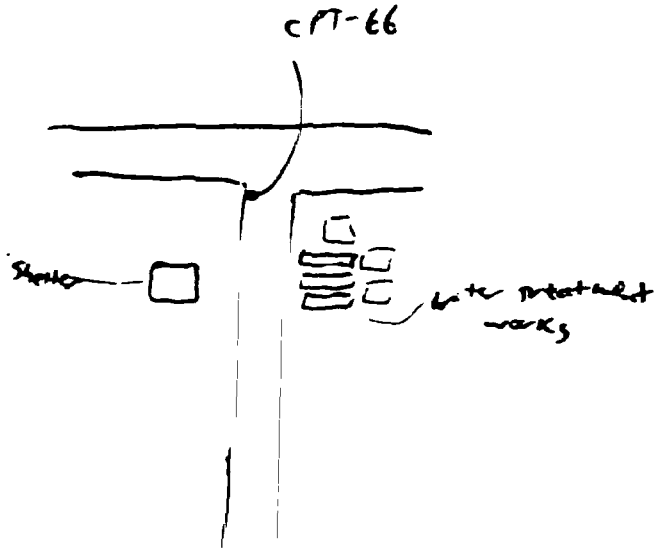
Date: 2/21/02

Samplers: B Schaefer and B Maradkei

Comments (weather, temp, etc.): in water treatment plant

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-66(15-16)	1025		silty
CPT-66(49-50)	1045		silty

Sample Location Sketch



Jan-02

Date: 2/21/02
Time: 1025

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-66 (15-16) **Well Number:** _____ **Sampler:** B Schaefer and B Muradkey

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer (Steel Bailer) Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ___ft___in **Depth to Product:** ___ft___in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1025	14.1°C	7.29	1148 ~~mOhms~~ µS	H M L N	% O_2	units

Date: 2/21/02

Time: 1025

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-66 (49-50) **Well Number:** _____ **Sampler:** B Schaefer and B Meadt

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump *Piston Pump* *Bottle Submersion*

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1045	14.72	7.31	1039 ~~mOhms~~ µS	H M L N	% O.	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-67

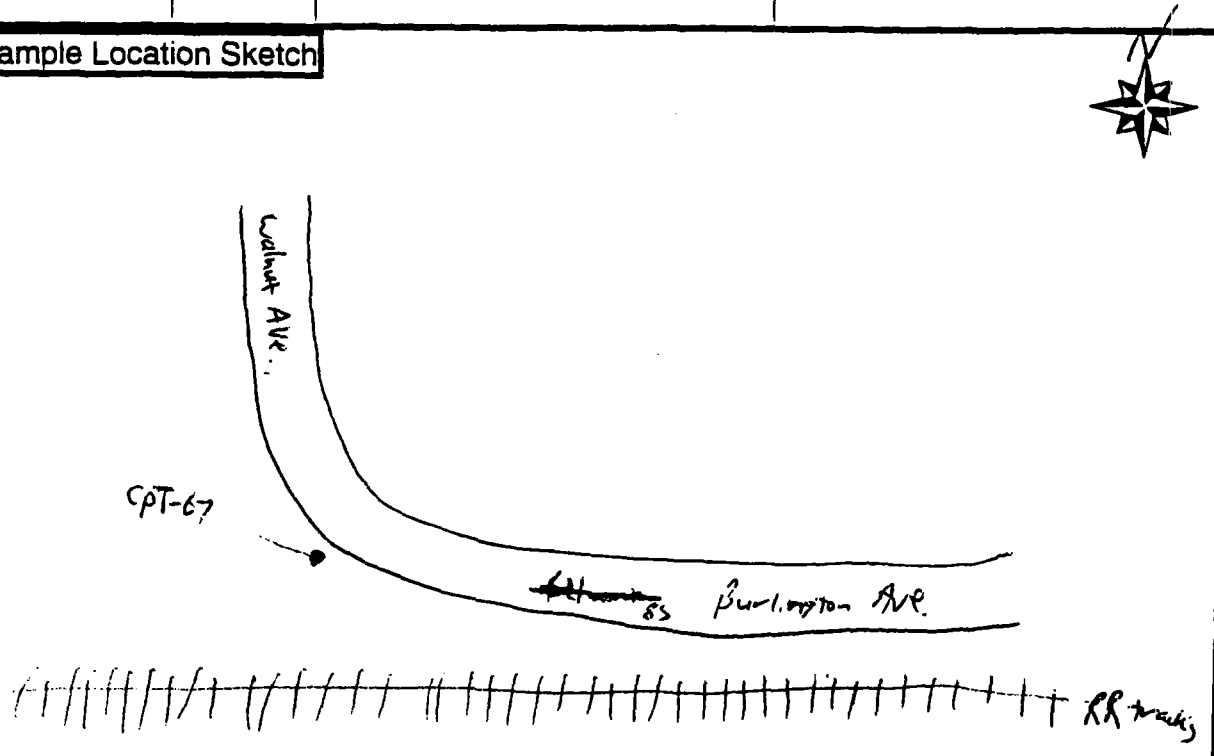
Date: 2/26/02

Samplers: B Schaefer and B Marodke

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-67(77-79)	1045		silty

Sample Location Sketch



Date: 2/26/02
Time: 1045

Water Level and Water Quality Well Purging Data Sheet

Site Name: CPT-67(77-79) **Well Number:** _____ **Sampler:** B Schaefer + B Mirabel

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5" (.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1045	12.6°C	7.57	1873 ~~mOhms~~ µS	(H) M L N	% O_2	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-71

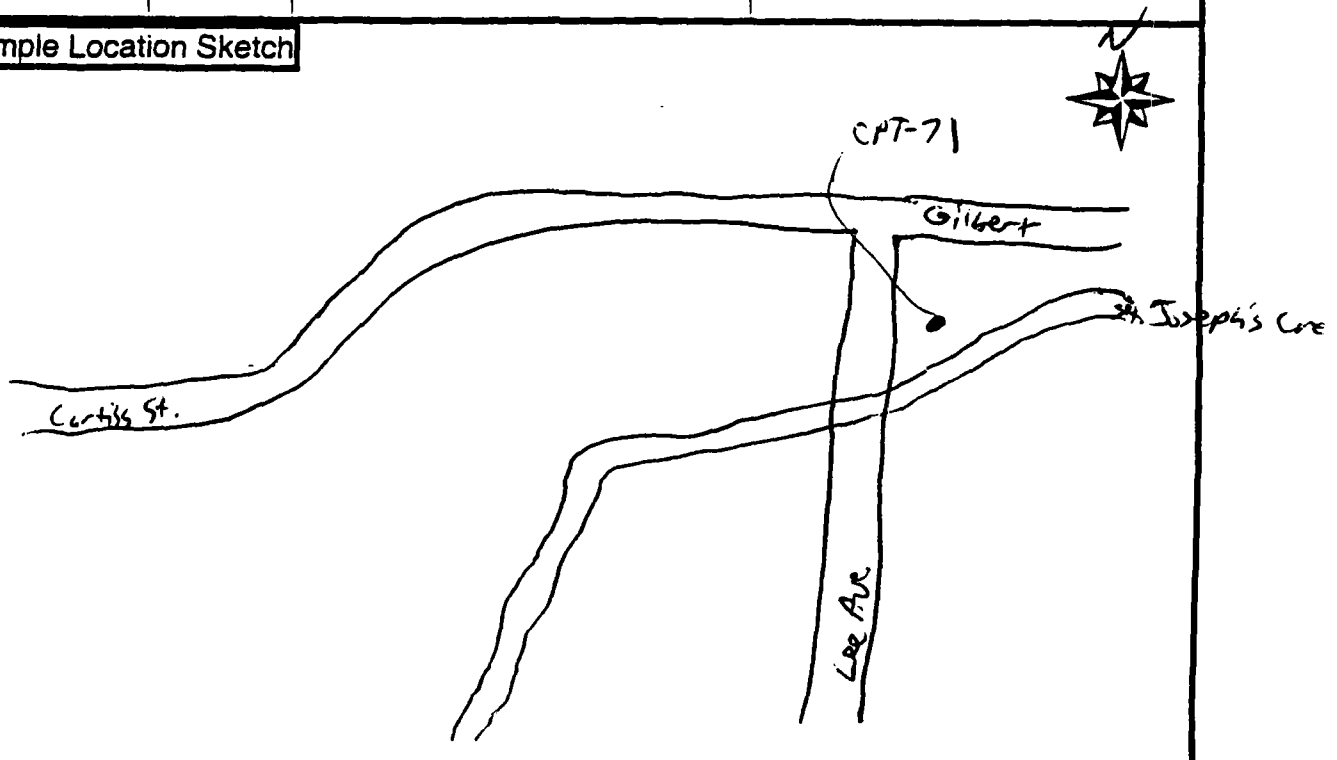
Date: 3/1/02

Samplers: B Schaefer, B Marazkel

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-71(25-30)	1655		Silty

Sample Location Sketch



Jan-02

Date: 3/1/02

Time: 1655

Water Level and Water Quality / Well Purgine Data Sheet

Site Name: CPI-71(25-30) **Well Number:** _____ **Sampler:** [illegible] Schaefer and B Marsh

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____m **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O.	PID/FID
Start				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
During				mOhms	H M L N	% O.	units
Final	1655	8.1°C	7.16	1358 ~~mOhms~~ uS	H M L N	% O.	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-72

Date: 2/28/02

Samplers: B Schaefer

Comments (weather, temp, etc.):

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-72 (52-57)	1505		silty

Sample Location Sketch

Jan-02

Date: 2/28/02
Time: 1505

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-72 (52-57) **Well Number:** _____ **Sampler:** J Schaefer

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1505	8.3°C	7.42	751	~~mOhms~~ µS	H M L N	% O_2	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-75

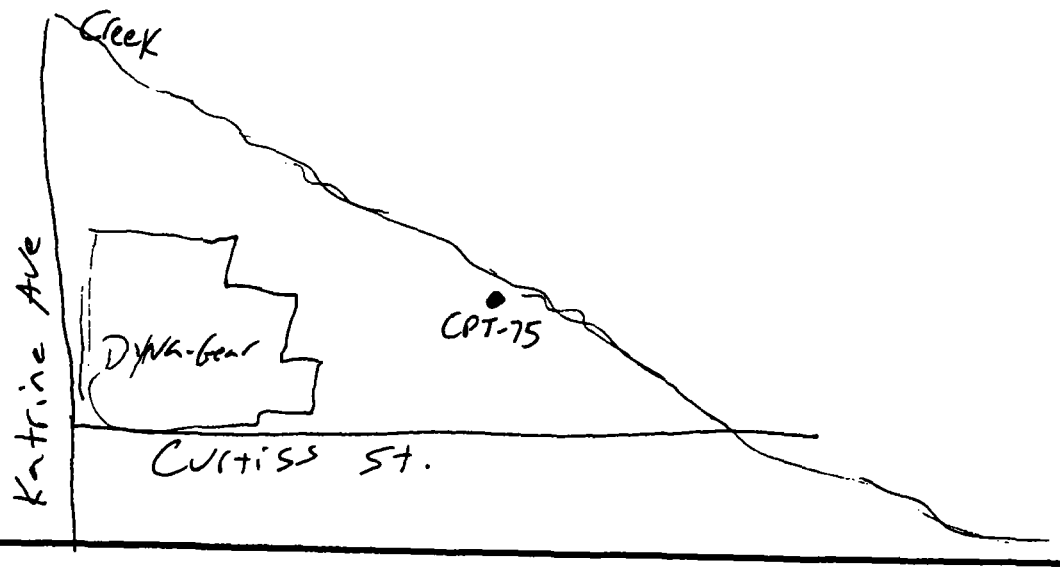
Date: 2/14/02

Samplers: Schaefer, Moradkel

Comments (weather, temp, etc.): Same location as IEPA (GP-8) Dynagear Property

Sample ID	Time	Description of area sampled	Sample Appearance
~~CPT-75( )~~ 35			
CPT-75(30-31)	1230	Dynagear Parking lot	silty
CPT-75(43-45)	1305	"	Silty

Sample Location Sketch



Date: 2/14/02

Time: 1230

Water Level and Water Quality / Well Purging Data Sheet

Site Name: Downers Grove **Sample Well Number:** CPT-75 (30-31') **Sampler:** Schaefer, Maradke

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer (Steel Bailer) Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5" (.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1230	12.5°C	7.33	1758 ~~mOhms~~ µS	(H) M L N	% O_2	units

Date: 2/14/02
Time: 1305

Water Level and Water Quality / Well Purging Data Sheet

Site Name: Downers Grove **~~Well~~ Sample Number:** CPT-75(43-45)' **Sampler:** Schaefer, Moradke

Purging Method (Circle One): Poly Bailer Teflon® Bailer ~~Steel Bailer~~ Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer (Steel Bailer) Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1305	12.3°C	7.82	1002 ~~mOhms~~ uS	(H) M L N	% O_2	units

Groundwater Sampling Form

Downer's Grove Groundwater Investigation

WO#: 12634-001-001-0195-00

Location: CPT-79

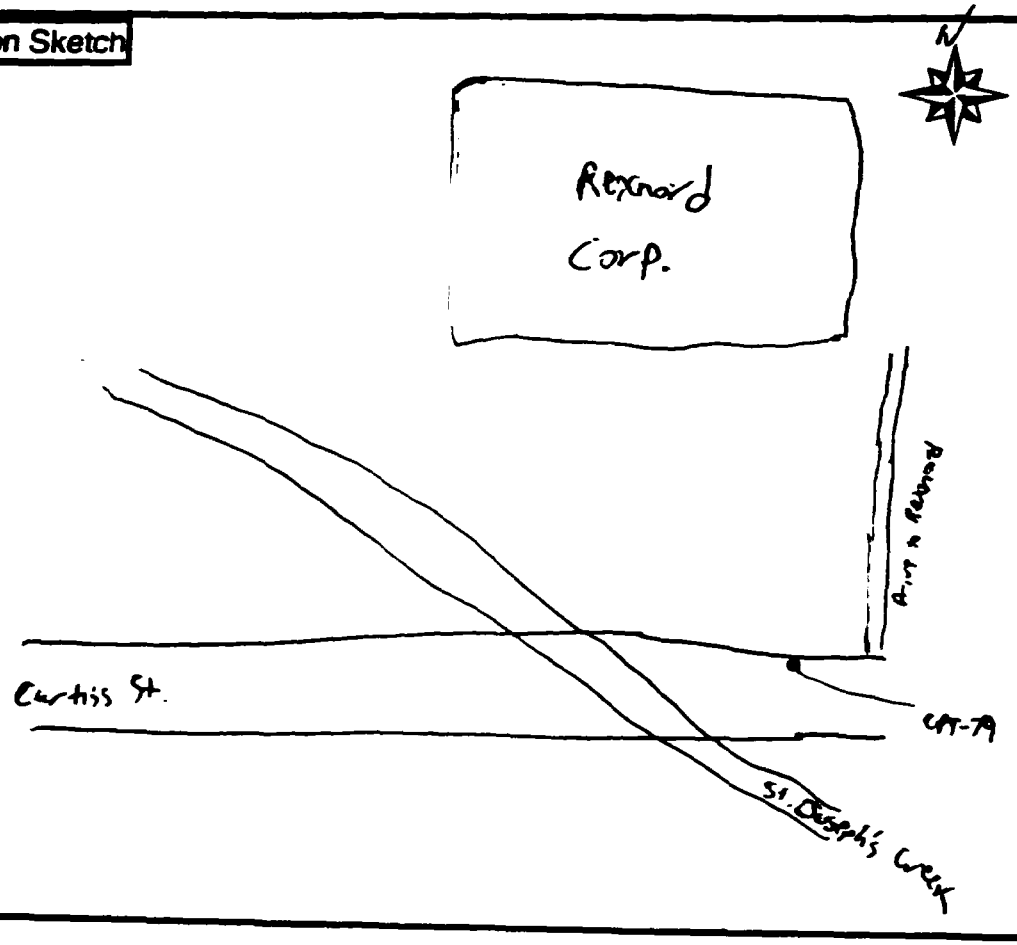
Date: 2/22/02

Samplers: L Schaefer

Comments (weather, temp. etc.): In front of Rexnord

Sample ID	Time	Description of area sampled	Sample Appearance
CPT-79(32-35)	1350		silty
CPT-79(42-44)	1410		Silty

Sample Location Sketch



Jan-02

Date: 2/22/02
Time: 1350

Water Level and Water Quality / Well Purging Data Sheet

Site Name: CPT-79 (32-35) **Well Number:** _____ **Sampler:** B Schaefer

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1350	8.82	7.70	1197 ~~mOhms~~ MS	(H) M L N	% O_2	units

Date: 2/22/02

Time: 1410

Water Level and Water Quality / Well Purgine Data Sheet

Site Name: CPT-79 (42-44) **Well Number:** _____ **Sampler:** B Schaefer

Purging Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Keck Pump WaTerra® Pump Piston Pump Bladder Pump

Sampling Method (Circle One): Poly Bailer Teflon® Bailer Steel Bailer Bacon Bomb WaTerra® Pump Piston Pump Bottle Submersion

Water Level and Volume Measurements

Measure Point (Circle One): Top of Casing Top of Protective Steel Casing Land Surface (mark measure point)

Depth to Water: ____ft____in **Depth to Bottom:** ____ft____in **Depth to Product:** ____ft____in ___N/A

Height of Water Column (H): ____ft____in (round up for volume calculation)

Gallons per Foot of Depth/Diameter (GPF): 1" (.041) 1.5" (.092) 2" (.163) 2.5" (.255) 3" (.367) 3.5"(.500) 4" (.653) 4.5" (.826) 5" (1.020) 5.5" (1.234) 6" (1.469) 7" (2.000) 8" (2.611) 9" (3.305) 10" (4.080)

One Well Volume: ____(H) x _____(GPF) = ____Gals **Volume to Purge:** ____Gallons x 3 = ____Gals

Actual Volume Purged: ____Gals (estimated) **Purge Rate:** ____Gals/min (estimated) (volume/time)

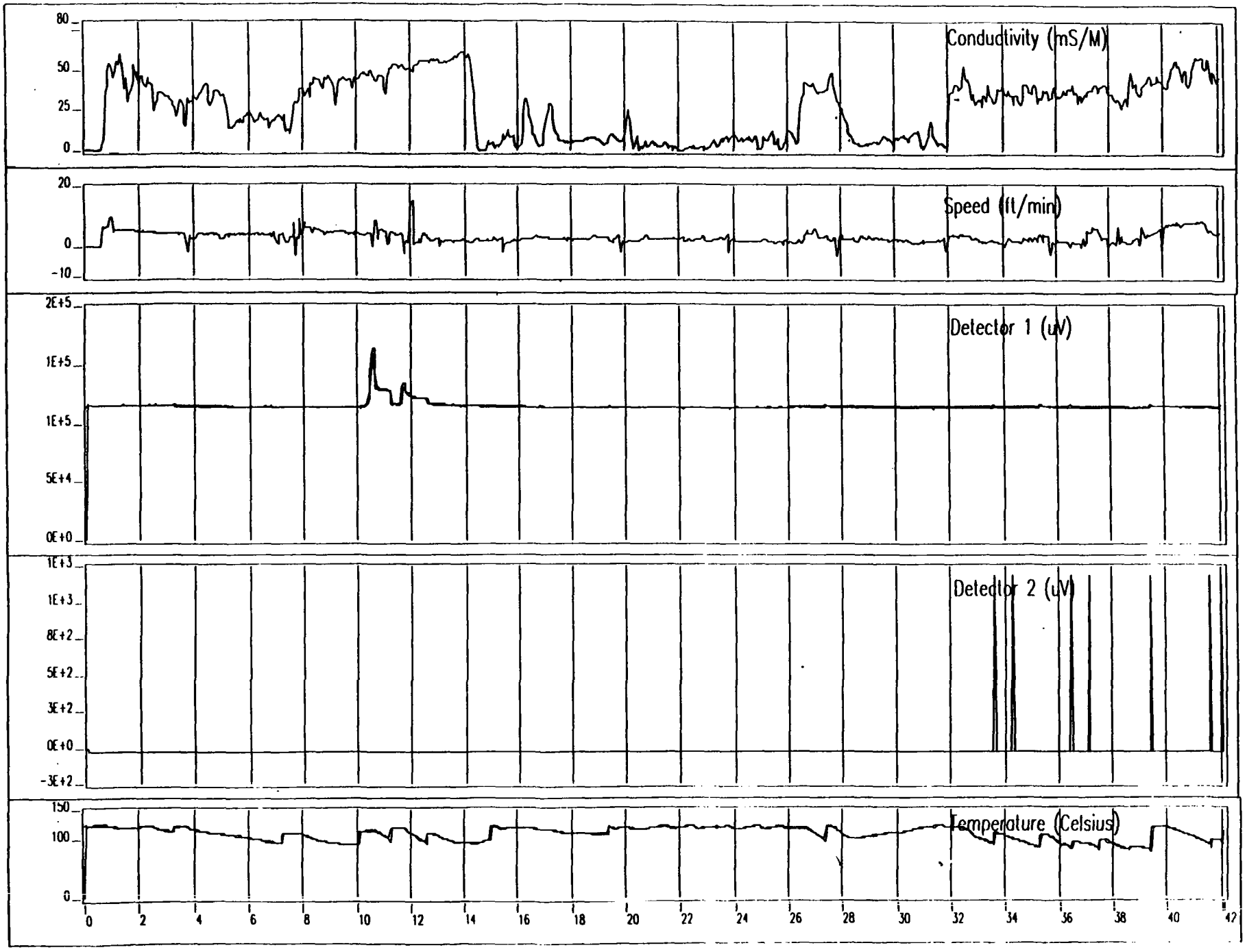
Water Quality / Purge Data

Interval	Time	Temp	pH	Conductivity	Turbidity	% Dissolved O_2	PID/FID
Start				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
During				mOhms	H M L N	% O_2	units
Final	1410	16.5°C	7.55	1022 ~~mOhms~~ uS	(H) M L N	% O_2	units

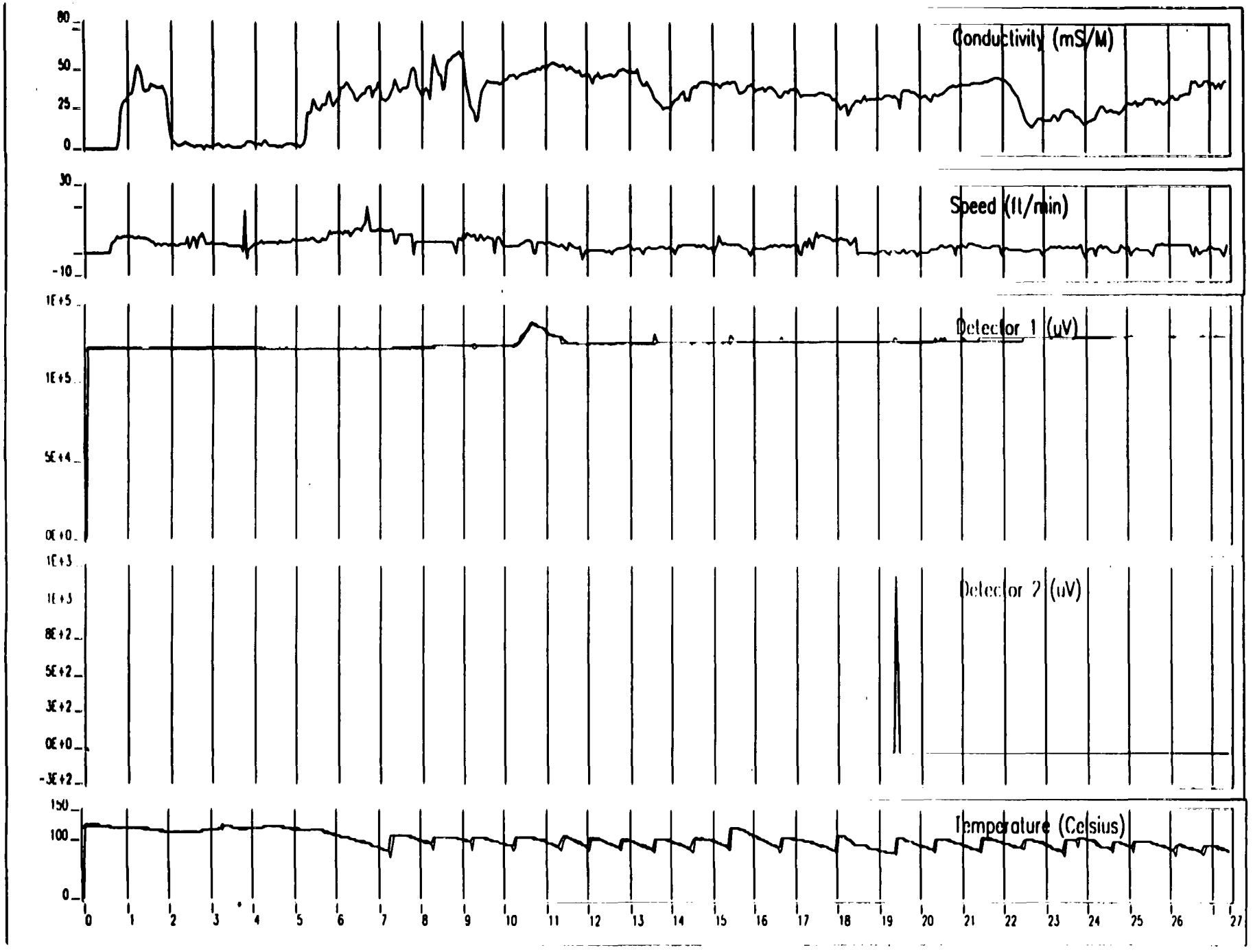
APPENDIX D

GEOPROBE MIP LOGS (IEPA)

Log: A:\Eip1.dat



Log: A:\Eip2.dat



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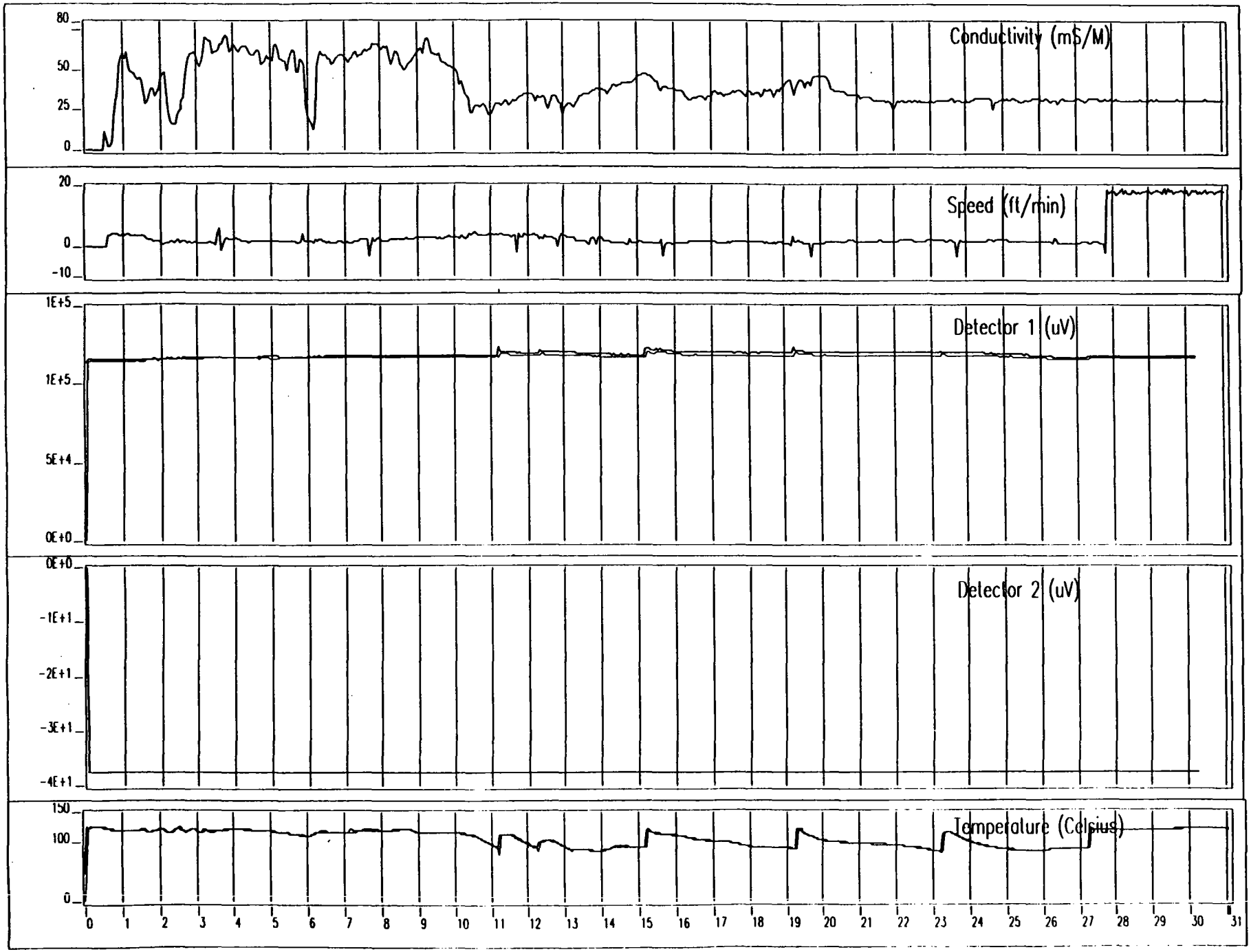

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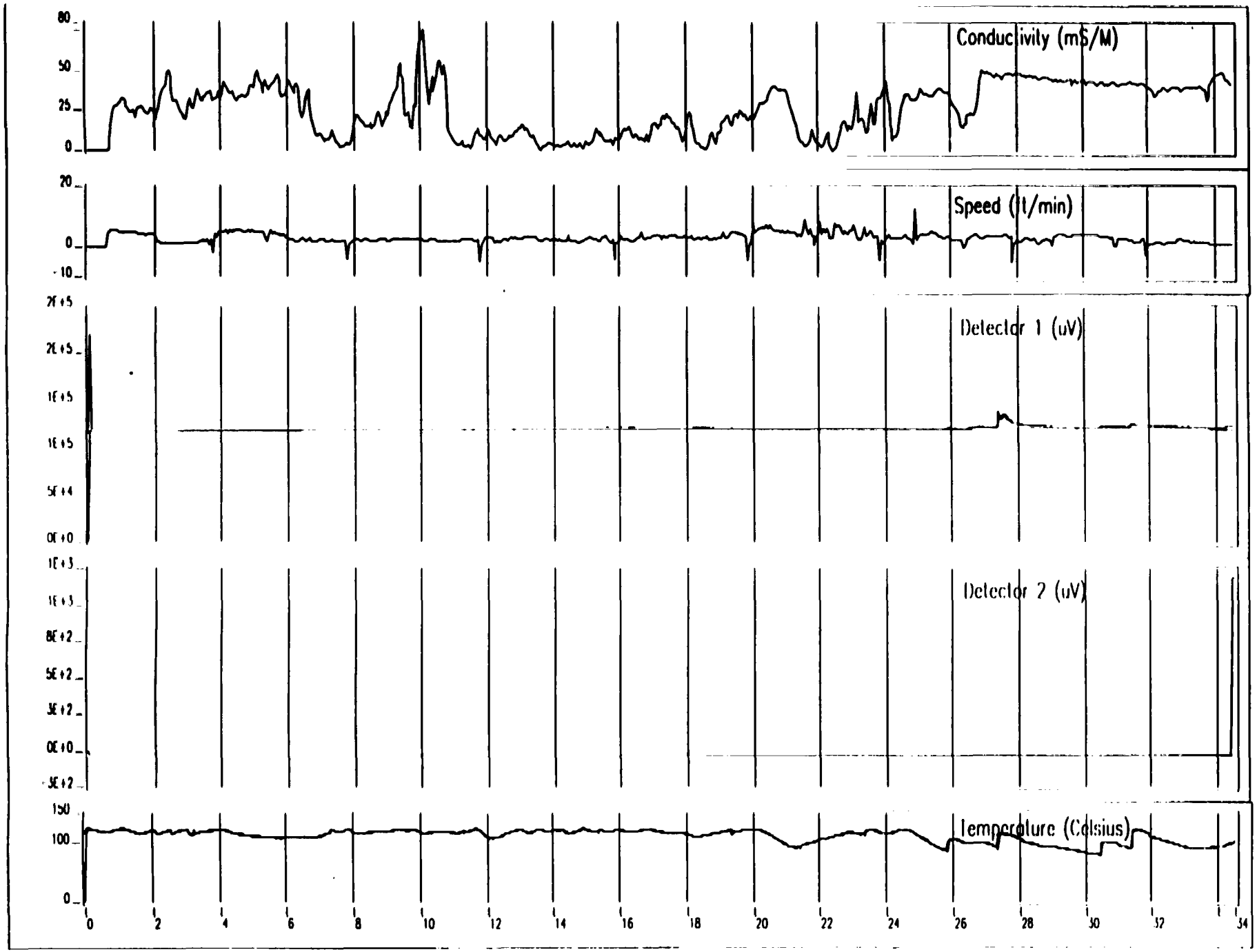

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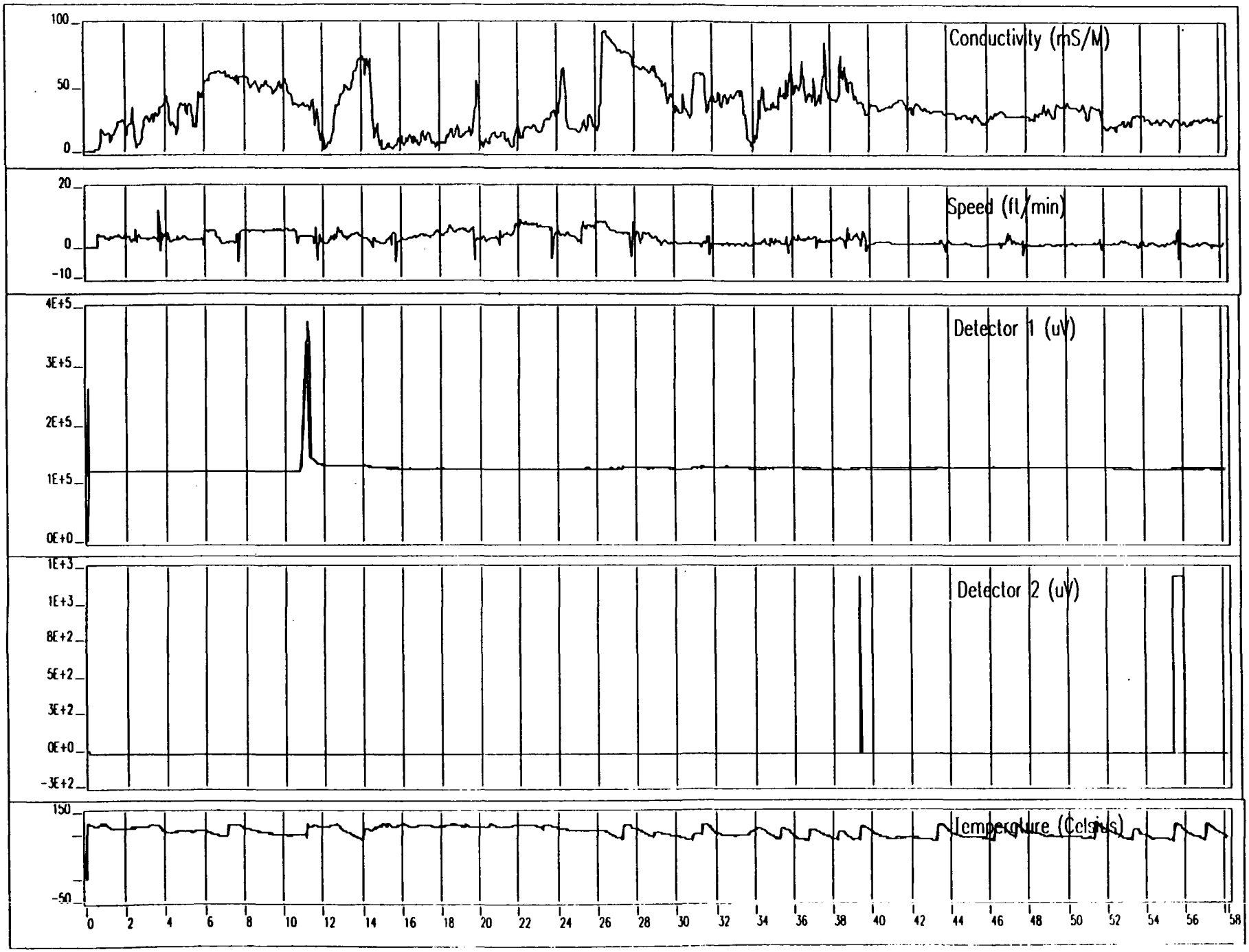
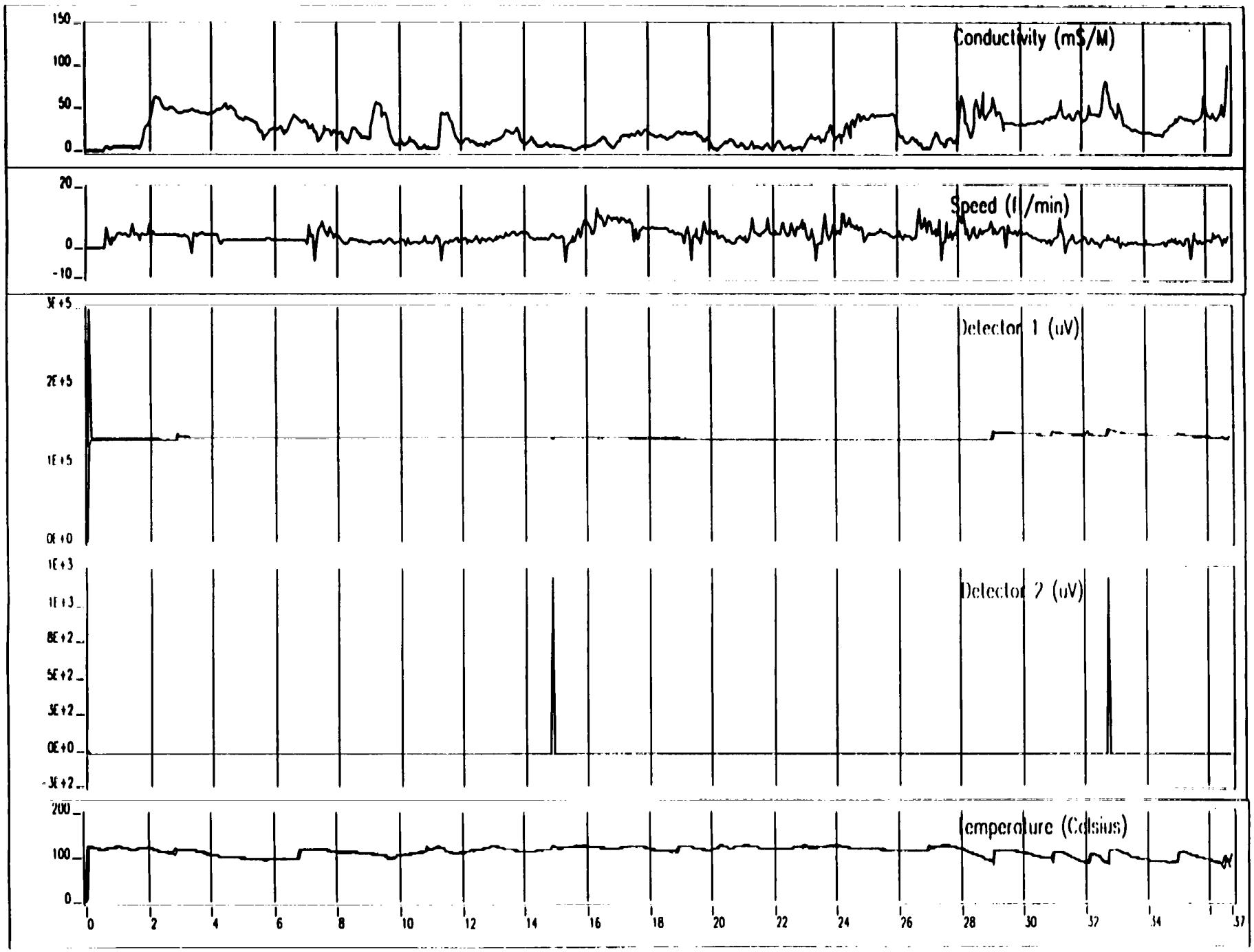
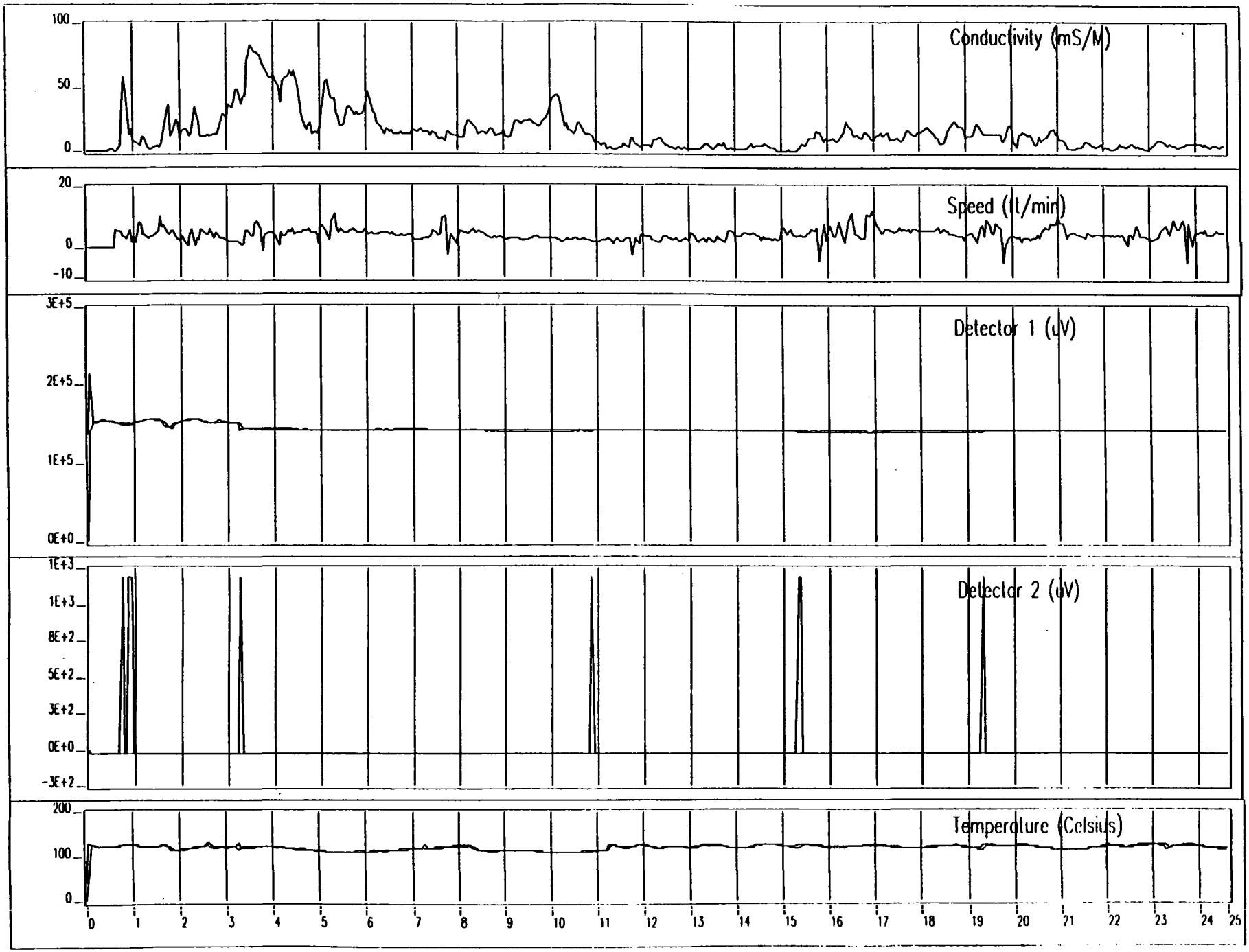


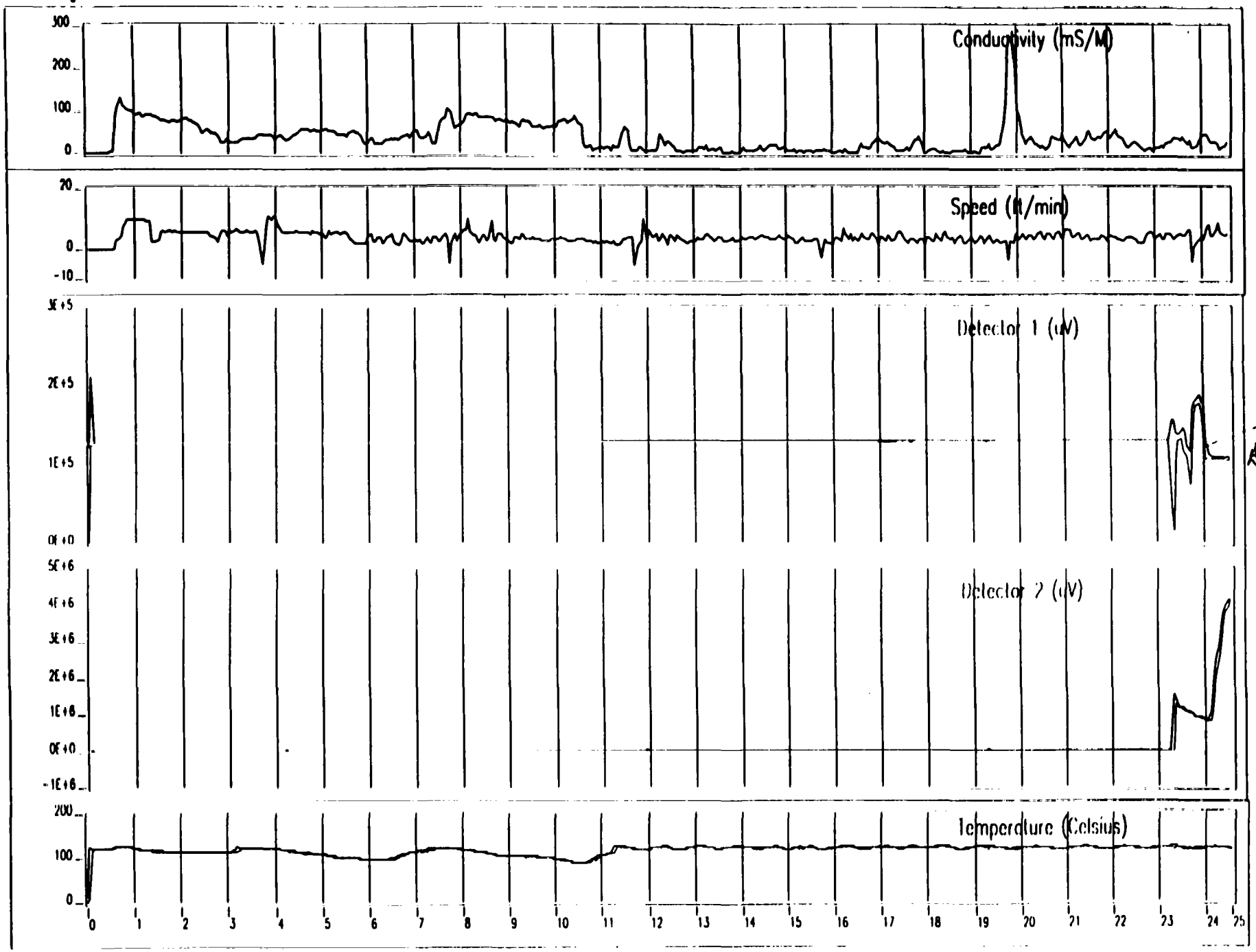
Log: A:\Eip6c.dat



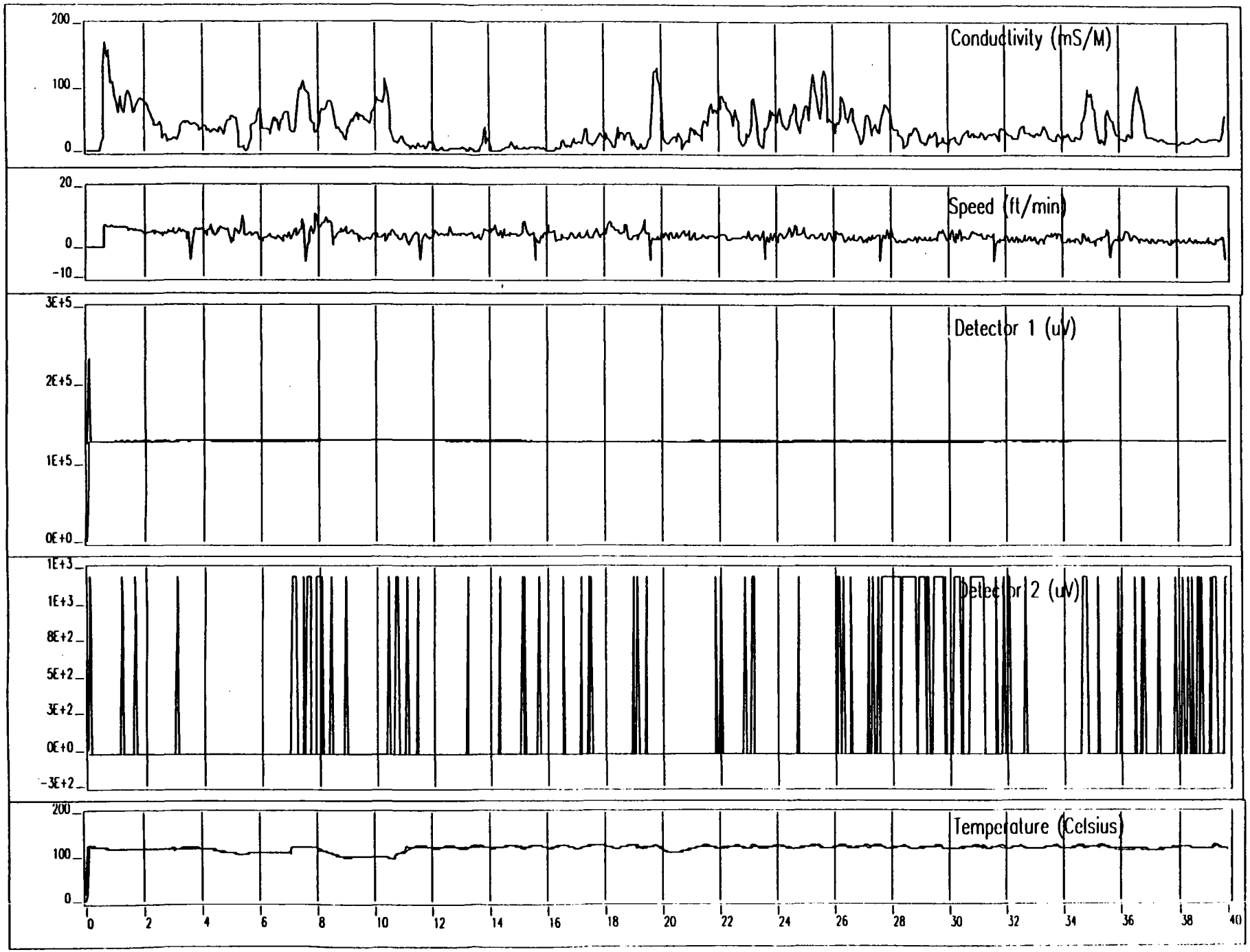
Log: A:\Eip7c.dat



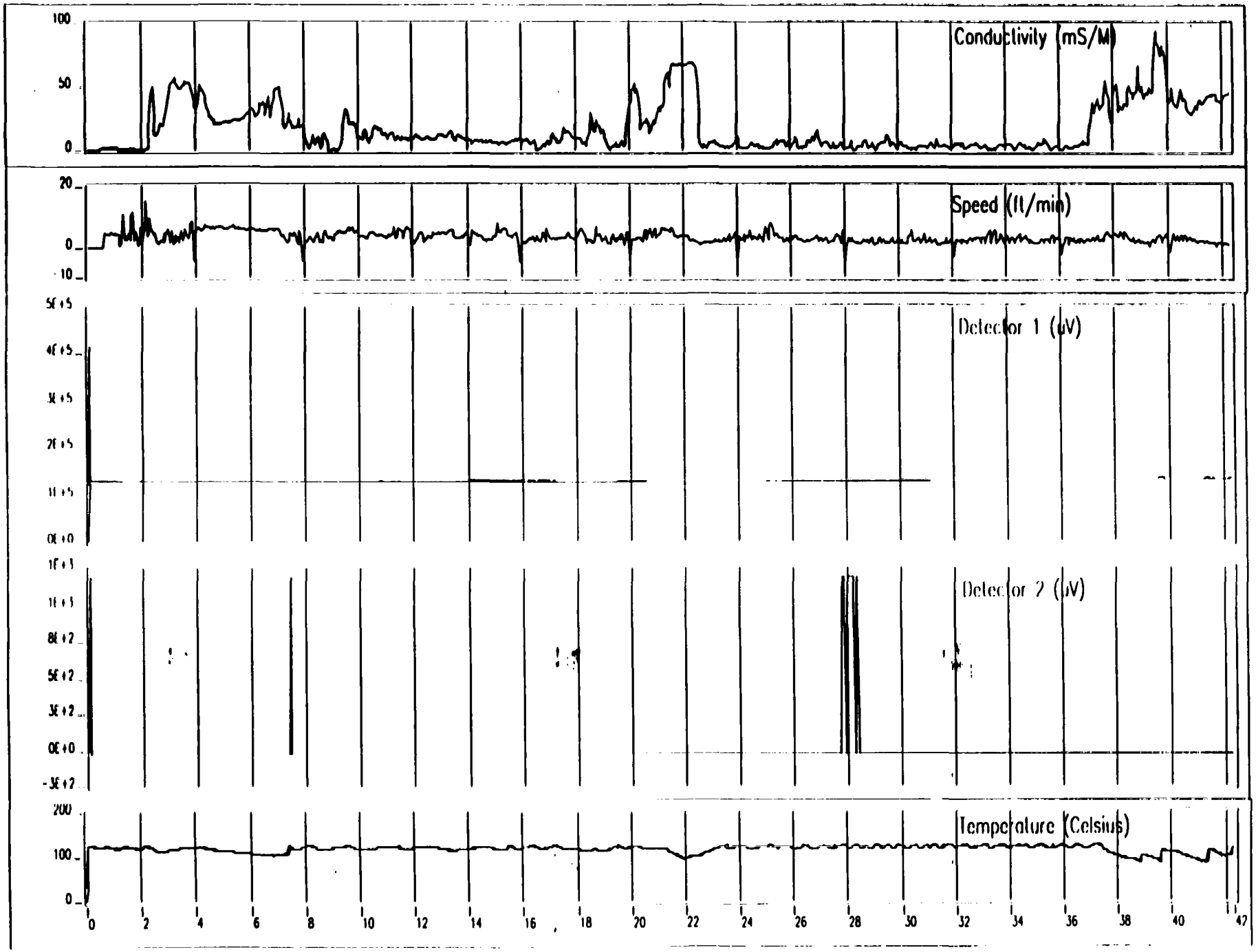
Log: A:\Eip8.dat



Log: A:\Eip8b.dat



Log: A:\Eip9b.dat



APPENDIX E

ANALYTICAL DATA PACKAGES
(USEPA AND IEPA)

WESTON RESULTS

VALIDATION REPORTS

Downers Grove Site
Downers Grove, Illinois
Project No. 0111-010/M23562

4 water samples – Volatile Organics (SW846 8260)

Lab ID M23562-	Sample ID	Date Collected	Date Analyzed
1	CPT-51 (36-37)	2/15/02	2/20/02
2	CPT-48 (31.5-32.5)	2/15/02	2/20/02
3	CPT-53 (34-35)	2/15/02	2/20/02
4	TB-2	2/13/02	2/20/02

1. Holding Times
All samples were analyzed within the required holding times.

2. Method Blank
All method blank results were non-detect.

3. Surrogate Recoveries
All surrogate recoveries were within the required control limits.

4. Matrix Spike
Sample 3 was used as the MS/MSD sample. All MS/MSD and RPD recoveries were within the laboratory required control limits.

5. Laboratory Control Sample (Blank Spike)
All LCS recoveries were within the laboratory required control limits.

6. Field Duplicates
No field duplicates were identified in this sample set.

7. Field Blanks
No field blanks were identified in this sample set.

8. Trip Blank
Sample 4 was designated as the trip blank. Chloroform was detected in the blank at 0.51 ug/L. Chloroform was not detected in any of the associated samples. No qualifications are required.

Data reviewed by: T. Balla Date: 3/6/02

Downers Grove Site
Downers Grove, Illinois
Project No. 0111-010/M23552

7 water samples – Volatile Organics (SW846 8260)

Lab ID M23552-	Sample ID	Date Collected	Date Analyzed
1	CPT-63 (33-34)	2/13/02	2/19/02
2	CPT-63 (45-49)	2/13/02	2/19/02
3	CPT75 (30-31)	2/14/02	2/19/02
4	CPT-75 (43-45)	2/14/02	2/19/02
5	CPT-63 (45-49) Dup	2/13/02	2/19/02
6	EB-01	2/13/02	2/19/02
7	TB-01	2/13/02	2/19/02

1. Holding Times
All samples were analyzed within the required holding times.

2. Method Blank
All method blank results were non-detect.

3. Surrogate Recoveries
All surrogate recoveries were within the required control limits.

4. Matrix Spike
Sample 6 was used as the MS/MSD sample. All MS/MSD and RPD recoveries were within the laboratory required control limits.

5. Laboratory Control Sample (Blank Spike)
All LCS recoveries were within the laboratory required control limits.

6. Field Duplicates
Samples 2 and 5 are field duplicate samples. Results for all compounds in both samples was non-detect.

7. Field Blanks
Sample 6 was designated as the field/equipment blank. All blank results were non-detect.

8. Trip Blank
Sample 7 was designated as the trip blank. Chloroform was detected in the blank at 0.55 ug/L. Chloroform was not detected in any of the associated samples. No qualifications are required.

Data reviewed by: T. Balla Date: 3/6/02

Downers Grove Site
Downers Grove, Illinois
Project No. 0111-010/M23612

6 water samples – Volatile Organics (SW846 8260)

Lab ID M23612-	Sample ID	Date Collected	Date Analyzed
1	CPT-41 (34-35)	2/19/02	2/26/02
2	CPT-41 (53-55)	2/19/02	2/27/02
3	CPT-52 (37-42)	2/18/02	2/27/02
4	TB-03	2/13/02	2/21/02

1. Holding Times
All samples were analyzed within the required holding times.

2. Method Blank
Two method blanks were associated with these samples. All method blank results were non-detect.

3. Surrogate Recoveries
All surrogate recoveries were within the required control limits.

4. Matrix Spike
All samples, excluding the trip blank were associated with an MS/MSD from a different sample set. The trip blank was associated with a MS/MSD that wasn't associated with samples from this site. No qualifications are required.

5. Laboratory Control Sample (Blank Spike)
Two LCS samples were associated with this sample set. Both LCS recoveries were within the required control limits.

6. Field Duplicates
There were no field duplicates designated with this sample set.

7. Field Blanks
There was no field/equipment blanks designated with this sample set.

8. Trip Blank
The trip blank was free of contamination.

Data reviewed by: T. Balla Date: 3/6/02

Downers Grove Site
Downers Grove, Illinois
Project No. 0111-010/M23633

8 water samples – Volatile Organics (SW846 8260)

Lab ID M23633-	Sample ID	Date Collected	Date Analyzed
1	CPT-65 (12-13)	2/21/02	2/26/02
2	CPT-65 (46-48)	2/21/02	2/26/02
3	CPT-65 (46-48)Dup	2/21/02	2/26/02
4	CPT-66 (15-16)	2/21/02	2/26/02
5	CPT-66 (49-50)	2/21/02	2/26/02
6	EB-02	2/13/02	2/26/02
7	TB-04	2/21/02	2/26/02
8	CPT-64 (22.5-24.5)	2/21/02	2/26/02

1. Holding Times
All samples were analyzed within the required holding times.

2. Method Blank
All method blank results were non-detect.

3. Surrogate Recoveries
All surrogate recoveries were within the required control limits.

4. Matrix Spike
Sample 6 was used as the MS/MSD sample. All MS/MSD and RPD recoveries were within the laboratory required control limits.

5. Laboratory Control Sample (Blank Spike)
All LCS recoveries were within the laboratory required control limits.

6. Field Duplicates
Samples 2 and 3 were designated as field duplicates. All compounds were non-detect in both samples.

7. Field Blanks
Sample 6 was designated as the field/equipment blank All compounds were non-detect.

8. Trip Blank
Sample 7 was designated as the trip blank. Chloroform was detected in the blank at 0.55 ug/L. Chloroform was not detected in any of the associated samples. No qualifications are required.

Data reviewed by: T. Balla Date: 3/6/02

Downers Grove Site
Downers Grove, Illinois
Project No. 0111-010/M23659

6 water samples – Volatile Organics (SW846 8260)

Lab ID M23659-	Sample ID	Date Collected	Date Analyzed
1	CPT-64 (36-41)	2/22/02	2/27/02
2	CPT-58 (61-66)	2/21/02	2/27/02
3	TB-05	2/13/02	2/27/02
4	CPT-79 (32-35)	2/22/02	2/27/02
5	CPT-79 (42-44)	2/22/02	2/27/02
6	CPT-50 (43-46)	2/22/02	2/27/02

1. Holding Times
All samples were analyzed within the required holding times.

2. Method Blank
All method blank results were non-detect.

3. Surrogate Recoveries
All surrogate recoveries were within the required control limits.

4. Matrix Spike
Sample 1 was used as the MS/MSD sample. The following recovery was outside control limits: carbon disulfide (142, 128). Carbon disulfide results in sample 1 are flagged UJ. All other MS/MSD recoveries and RPDs were acceptable.

5. Laboratory Control Sample (Blank Spike)
The LCS recovery for carbon disulfide (130) was high outside control limits. All carbon disulfide results are flagged J for positive recoveries and UJ for non-detects.

6. Field Duplicates
There were no field duplicates designated with this sample set.

7. Field Blanks
There was no field/equipment blanks designated with this sample set.

8. Trip Blank
Sample 3 was designated as the trip blank. Chloroform was detected in the blank at 0.61 ug/L. Chloroform was not detected in any of the associated samples. No qualifications are required.

Data reviewed by: T. Balla Date: 3/6/02

Downers Grove Site
Downers Grove, Illinois
Project No. 0111-010/M23702

6 water samples – Volatile Organics (SW846 8260)

Lab ID M23702-	Sample ID	Date Collected	Date Analyzed
1	CPT-44 (36-37)	2/26/02	2/28/02
2	CPT-46 (44-45)	2/26/02	2/28/02
3	CPT-67 (77-79)	2/26/02	2/28/02
4	TB-06	2/13/02	2/27//02

1. Holding Times
All samples were analyzed within the required holding times.

2. Method Blank
Two method blanks were associated with these samples. All method blank results were non-detect.

3. Surrogate Recoveries
All surrogate recoveries were within the required control limits.

4. Matrix Spike
Sample 1 was designated as the MS/MSD and was associated with samples 1 through 3. The MS recovery for carbon disulfide was high outside control limits. Carbon disulfide in sample 1 is flagged J/UJ. All other recoveries were acceptable. A separate MS/MSD was associated with the trip blank (sample 4). Carbon disulfide results were also outside QC limits associated with that MS/MSD sample. However, no qualifications are applied to the trip blank.

5. Laboratory Control Sample (Blank Spike)
Two LCS samples were associated with this sample set. Both LCS had recoveries of carbon disulfide (130) high outside control limits. All carbon disulfide recoveries are flagged J for positive results and UJ for non-detects. All other LCS recoveries were acceptable.

6. Field Duplicates
There were no field duplicates designated with this sample set.

7. Field Blanks
There was no field/equipment blanks designated with this sample set.

8. Trip Blank
Sample 4 was designated as the trip blank. Chloroform was detected in the blank at 0.55 ug/L. *Chloroform was not detected in any of the associated samples.* No qualifications are required.

Data reviewed by: T. Balla Date: 3/6/02

DOWNERS GROVE SITE
DOWNERS GROVE, ILLINOIS
ANALYTICAL TDD # 0111-010

Accutest Laboratories, Marlborough, MA

Volatile Organic Compounds by SW 846 Method 8260B

1.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
TB-08	M23767-1	Water	2/13/02	-	3/7/02
CPT-40 (40-45)	M23767-2	Water	3/1/02	-	3/7/02
CPT-71 (25-36)	M23767-3	Water	3/1/02	-	3/7/02

2. Holding Times

The Trip Blank sample (TB-08) was analyzed eight days past the required holding time of 14 days. Qualify all volatile organic compound results in the Trip Blank sample (TB-08) as estimated (J/UJ).

All other samples were analyzed within the required holding time.

3. Blanks

The method blank (MSG452-MB) associated with these samples was free of contamination.

The Trip Blank sample (TB-08) associated with these samples was free of contamination.

4. Surrogates

All surrogate spike recoveries for all samples were acceptable.

5. Matrix Spike/Matrix Spike Duplicate

Sample CPT-71 (25-30) was used for the matrix spike/matrix spike duplicate audit. All matrix spike recoveries, matrix spike duplicate recoveries and relative percent difference values were acceptable.

6. Laboratory Control Sample

All laboratory control sample recoveries were acceptable.

L Moseble
3/18/02

CHAIN OF CUSTODY

TT 23552

ACCUTEST

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Roy F. Weston
ADDRESS: 70 W Madison
CITY, STATE, ZIP: Chicago IL 60602
SEND REPORT TO: BEN MARADEL
PHONE #: 312/424-3214

FACILITY INFORMATION

PROJECT NAME: Downers Grove
LOCATION: Downers Grove, IL
PROJECT NO.: 011-010
FAX #: 312/424-3330

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE			LAB USE ONLY
	CPT-51 (36-37)	2/13/07	1330	RS	GW	2	X						X	
	CPT-48 (31.5-37.5)	2/13/07	1[illegible]	RS	GW	1	X						X	
	CPT-53 (34-35)	2/13/07	1310	RS	GW	1	X						X	
	TB-2	2/13/07	1605	RS	GW	2	X						X	

DATA TURNAROUND INFORMATION

- ☒ 14 DAYS STANDARD
- ☐ 7 DAYS RUSH
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY: Scott

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [illegible]	[illegible] 1000	1.	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

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MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23562
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Roy F. Weston
ADDRESS: 70 W Madison
CITY, STATE, ZIP: Chicago IL 60602
SEND REPORT TO: BEN MARADKEL
PHONE #: 312/424-3314

FACILITY INFORMATION

PROJECT NAME: Downers Grove
LOCATION: Downers Grove, IL
PROJECT NO.: 0111-010
FAX #: 312/424-3330

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC	LAB USE ONLY
M23562-1	CPT-51 (36-37)	2/15/02	1530	BS BM	GW	2	X					X	
-2	CPT-48 (31.5-32.5)	2/15/02	1240	BS BM	GW	1	X					X	
-3	CPT-53 (34-35)	2/15/02	1310	BS BM	GW	1	X					X	
-4	TRIP BLANK*	2/13/02	16:05	RS	TB W	2	X					✓	

DATA TURNAROUND INFORMATION

- ☒ 10 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY: Scott

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY) Loc: 3B5

*TB Recd w/JOB TO BE ANAL. AP. AP. B.M. 2/18/02

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/16 1000	1.	2. FEDX	2-18-02 1530	2. B [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ B.C TEMPERATURE 5° C

M 2 3 5 5 2

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MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: WESTON
ADDRESS: 70 W Madison
CITY, STATE, ZIP: Chicago IL 60602
SEND REPORT TO: Bob Marquette
PHONE #: [illegible]

FACILITY INFORMATION

PROJECT NAME: Downers Grove S, IL
LOCATION: ~~[illegible]~~
PROJECT NO.: ~~[illegible]~~ 01-06
FAX #: 312/424-3550

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC	LAB USE ONLY
	CPT-63 (33-34)	2/13/02	1350	[illegible]	SO	2	X					X	
	CPT-63 (45-46)	2/13/02	1430	[illegible]	SO	2	X					X	
	CPT-75 (30-31)	2/14/02	1330	[illegible]	SO	2	X					X	
	CPT-75 (43-45)	2/14/02	1305	[illegible]	SO	2	X					X	
	CPT-63 (45-46) DUP	2/13/02	1430	[illegible]	SO	2	X					X	
	EB-01	2/13/02	1225	[illegible]	WW	2	X					X	
	TB-01						X						

DATA TURNAROUND INFORMATION

- ☒ 14 DAYS STANDARD — APPROVED BY:
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☒ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.		1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST

CHAIN OF CUSTODY

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MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23552
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: WESTON
ADDRESS: 70 W. Madison
CITY: Chicago STATE: IL ZIP: 60602
Suite 1900
SEND REPORT TO: Ben Maradkel
PHONE #: 312/424-3314

FACILITY INFORMATION

PROJECT NAME: Downers Grove Site
LOCATION: Downers Grove, IL
PROJECT NO.: ~~12634.001~~ 0111-010
FAX #: 312/424-3330

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC	LAB USE ONLY
M23552-1	CPT-63 (33-34)	2/13/02	1350	Schaefer Marcadkel	GW	2	X					X	
-2	CPT-63 (45-49)	2/13/02	1430	Schaefer Marcadkel	GW	2	X					X	
-3	CPT-75 (30-31)	2/14/02	1230	Schaefer Marcadkel	GW	2	X					X	
-4	CPT-75 (43-45)	2/14/02	1305	Schaefer Marcadkel	GW	2	X					X	
-5	CPT-63 (45-49)*	2/13/02	1430	Schaefer Marcadkel	GW	2	X					X	
-6	EB-01	2/13/02	1425	Schaefer Marcadkel	GW	2	X					X	
-7	TB	2/13/02	1605	RS	GW	2	X					X	

loc: 3B6

DATA TURNAROUND INFORMATION

☒ 10 DAYS STANDARD
☐ 7 DAYS *RUSH*
☐ 48 HOUR EMERGENCY
☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☒ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)

* VIAL LABELS FOR "CPT-63(45-49)DUP" BM.

COMMENTS/REMARKS

*Please send me back cooler and if you can a few smaller ones.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/13/02 0700	1. FED. EX	2. FED EX	2/16/02 10:00 AM	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 4.0 C

ACCUTEST

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23612
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: BEN MARADKEL (WESTON, INC.)
ADDRESS: 70 W Madison
CITY, STATE, ZIP: Chicago IL 60604
SEND REPORT TO: Ben Maradkel
PHONE #: ~~723~~ 312/424-3314

FACILITY INFORMATION

PROJECT NAME: Downers Grove
LOCATION: Downers Grove, IL
PROJECT NO.: 0111-010
FAX #: 312/424-3330

ANALYTICAL INFORMATION

SW-846-8260 (VOC)

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	SW-846-8260 (VOC)	LAB USE ONLY
M23612-1	CPT-41 (34-35)	2/19/02	1450	B.S B.M	GW	2	X					X	
-2	CPT-41 (53-55)	2/19/02	1510	B.S B.M	GW	2	X					X	
-3	CPT-52 (37-42)	2/18/02	1720	B.S B.M	GW	2	X					X	
-4	TB-03	2/13/02	1605	RS	LIQ	2	X					X	
													Loc. 3D2

DATA TURNAROUND INFORMATION

- ☒ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER _____

APPROVED BY: _____

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/20/02 1730	1. Fed EX	2. Fed EX	2-21-02 1030	2. Ryan M. Sweeney
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 2.0 C

CHAIN OF CUSTODY

ACCUTEST

485 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Roy F. Weston (WFS200)

ADDRESS: 70 W Madison

CITY: Chicago STATE: IL ZIP: 60604

SEND REPORT TO:

PHONE #:

FACILITY INFORMATION

PROJECT NAME:

LOCATION:

PROJECT NO.:

FAX #:

ANALYTICAL INFORMATION

VOC - 8260

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE		VOC - 8260	LAB USE ONLY
	CPT-65 (12-13)	2/21/02	1155	BS	GW	2	X						X	
	CPT-65 (19-21)	2/21/02	1315	BS	GW	2	X						X	
	CPT-65 (19-21) DUP	2/21/02	1315	BS	GW	2	X						X	
	CPT-66 (9-10)	2/21/02	1125	BS	GW	2	X						X	
	CPT-66 (49-50)	2/21/02	1095	BS	GW	2	X						X	
	TB-02	2/21/02	1300	BS	GW	2	X						X	
	TB-04	2/21/02	1001	BS	GW	2	X						X	
	CPT-64 (22.5-24.5)	2/21/02	1520	BS	GW	2	X						X	

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ USR DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	2/21/02 @ 1630	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE ____ C

ACCUTEST

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23633
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Roy F. Weston (WESTON)
ADDRESS: 70 W Madison
CITY, STATE, ZIP: Chicago IL 60604
SEND REPORT TO: BEN MARADKEL
PHONE #: 312/424-3314

FACILITY INFORMATION

PROJECT NAME: Downers Grove
LOCATION: Downers Grove, IL
PROJECT NO.: 0111-010
FAX #: 312/424-3330

ANALYTICAL INFORMATION

VOC-846-8260

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC-846-8260	LAB USE ONLY
M23633-1	CPT-65(12-13)	2/21/02	1255	BS BM	GW	2	X					X	
-2	CPT-65(46-48)	2/21/02	1315	BS BM	GW	2	X					X	
-3	CPT-65(46-48) DUP	2/21/02	1315	BS BM	GW	2	X					X	
-4	CPT-66(15-16)	2/21/02	1025	BS BM	GW	2	X					X	
-5	CPT-66(49-50)	2/21/02	1045	BS BM	GW	2	X					X	
-6	EB-02	2/21/02	1540	BS BM	GW	2	X					X	
-7	TB-04	2/13/02	1605	RS	LIQ	2	X					X	
-8	CPT64(22.5-24.5)*	2/21/02	15:20		GW	2	X					X	

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD — APPROVED BY:
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

*Need w/job to be avail. (see fax) M 2/22/02

COMMENTS/REMARKS

Lab 354

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/21/02 [illegible]	1. Fed Ex	2. Fed Ex	2-22-02 1030	2. Ryan M Sweeney
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 2.0 C

CHAIN OF CUSTODY

ACCUTEST

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23659
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Roy F. Weston
ADDRESS: 750 E. Bunker Court, Suite 500
CITY: Vernon Hills STATE: IL ZIP: 60061
SEND REPORT TO: Kurt Fischer
PHONE #: 847-918-4016

FACILITY INFORMATION

PROJECT NAME: Downers Grove / US EPA
LOCATION: Downers Grove, IL
PROJECT NO.:
FAX #: 847-918-4055

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC	LAB USE ONLY
M23659-1	CPT-64 (36-41)	2/22/02	0915	BJS	GW	2	X					X	
-2	CPT-58 (61-66) *(see note)	2/21/02	0930/1600	BJS	GW	1	X					X	
-3	TB-05	2/13/02	1605	RS	W	2	X					X	
-4	~~CPT-7~~ CPT-7A (32-35)	2/22/02	1350	BJS	GW	2	X					X	
-5	CPT-79 (42-44)	2/22/02	1410	BJS	GW	2	X					X	
-6	CPT-50 (43-46)	2/22/02	1640	BJS	GW	2	X					X	
*M	~~TB-NT~~	~~2/13/02~~	~~1605~~	~~RS~~		~~2~~	~~X~~						
													~~*Rec TB~~ NT.
													loc: 3E7

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER PER QUOTE

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY) PER QUOTE

COMMENTS/REMARKS

*CPT-58 (61-66) was a composite for 0930 and 1600 collection times on 2/21/02. VERY silty. Not enough sample was recovered to fill vial all the way, so small amount of headspace is present. Vial a little more than 3/4 full.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/22/02 1745	1. FED EX	2. FED EX	10:30 2/23/02	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 2.0 C

ACCUTEST®

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23702
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Roy F Weston
ADDRESS: 70 W Madison
CITY, STATE ZIP: Chicago, IL 60604
SEND REPORT TO: BEN MARADKEL
PHONE #: 312/424-3314

FACILITY INFORMATION

PROJECT NAME: Downers Grove
LOCATION: Downers Grove, IL
PROJECT NO.: 0111-010
FAX #: 312/424-3330

ANALYTICAL INFORMATION

VOC-846-8260

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC-846-8260		LAB USE ONLY
M23702-1	CPT-44(36-37)	2/26/02	1630	BS BM	GW	2	X					X		
-2	CPT-46(44-45)	2/26/02	1410	BS BM	GW	2	X					X		
-3	CPT-67(77-79)	2/26/02	1045	BS BM	GW	2	X					X		
-4	T.B.-06	2/13/02	1605	RS	LIQ	2	X					X	TRIP BLANK	

LOC. 362

DATA TURNAROUND INFORMATION

- [x] 10 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/26/01 1430	1. FEDEX	2. FEDEX	2/27/02 10:30	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL # Rec'd Intact	PRESERVE WHERE APPLICABLE ☐	ON ICE ☒ TEMPERATURE 2.5 C

ACCUTEST®

CHAIN OF CUSTODY

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MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23740
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Roy F. Weston, inc
ADDRESS: 70 W Madison
CITY, STATE, ZIP: Chicago IL 60604
BEN MARADKEL
SEND REPORT TO:
PHONE #: 312/42-3314

FACILITY INFORMATION

PROJECT NAME: Downers Grove
LOCATION: Downers Grove, IL
PROJECT NO.: 011-010
FAX #: 312/424-3330 / 847/918-4055 Fax Results Both

ANALYTICAL INFORMATION

(VOC) SW-846-8260

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	(VOC) SW-846-8260	LAB USE ONLY
M23740-1	CPT-43 (58.5-61)	2/27	1730	B.S B.M	GW	2	X					X	
-2	CPT-43 (40.5-43)	2/27	1635	B.S B.M	GW	2	X					X	
-3	CPT-43 (40.5-43) DUP	2/27	1635	B.S B.M	GW	2	X					X	
-4	CPT-43 (23-26)	2/27	1615	B.S B.M	GW	2	X					X	
-5	T.B-07	2/13/02	1605	RS	LIQ	2	X					X	TRIP BLANK
-6	EB-03	2/28	1055	B.S B.M	LIQ	2	X					X	
-7	CPT-42 (45-47)	2/28	1035	B.S. B.M	GW	2	X					X	
-8	CPT-42 (30.8-32.8)	2/28	1013	B.S B.M	GW	2	X					X	
-9	CPT-72 (52-57)	2/28	1505	B.S B.M	GW	2	X					X	

DATA TURNAROUND INFORMATION

- [x] 10 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [x] OTHER 10 Days

APPROVED BY: Scott P.

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) Loc. 3H3

COMMENTS/REMARKS

*Please Ship Cooler back, Also the Small Cooler Sent Yesterday.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/29	1. Fed EX	2. Fed EX	3-1-02 1020	2. Ryan M Sweeney
3.		3.	4.		4.
5.		5.	SEAL # rec- intact	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 2.0 C

ACCUTEST®

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M23767
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: US EPA / Weston
ADDRESS: 750 E. Bunker Court, Suite 500
CITY, STATE, ZIP: Vernon Hills IL 60061
SEND REPORT TO: Kurt Fischer
PHONE #: 847-918-4016

FACILITY INFORMATION

PROJECT NAME: US EPA START / Downers Grove
LOCATION: Downers Grove, IL
PROJECT NO.: 12634-001-001-0195-00
FAX #: 847-918-4055

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC	LAB USE ONLY
M23767-1	TB-08	2/13/02	1605	RS	W	2	X					X	
-2	CPT-40 (40-45)	3/1/02	1145	BJS	GW	2	X					X	
-3	CPT-71 (25-30)	3/1/02	1655	BJS	GW	2	X					X	

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER PER QUOTE

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY) PER QUOTE

COMMENTS/REMARKS

Loc. 3H4

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	3/2/02 / 1000	1. FEDEX	2. FEDEX	3/4/02 10:15	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL # Recd Intact Ln 3/	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 2° C

New England ACCUTEST.

03/04/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23562

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

Total number of pages in report: 20

ACCREDITED IN ACCORDANCE WITH nelac

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.

Reza Tand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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

Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23562

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M23562-1	02/15/02	15:30 BS	02/18/02	AQ	Ground Water	CPT-51 (36-37)
M23562-2	02/15/02	12:40 BS	02/18/02	AQ	Ground Water	CPT-48 (31.5-32.5)
M23562-3	02/15/02	13:10 BS	02/18/02	AQ	Ground Water	CPT-53 (34-35)
M23562-4	02/13/02	16:05 RS	02/18/02	AQ	Trip Blank Water	TB-2

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-51 (36-37)		
Lab Sample ID:	M23562-1	**Date Sampled:**	02/15/02
Matrix:	AQ - Ground Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15681.D	1	02/20/02	PB	n/a	n/a	MSG439
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	22.4	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.6	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	12.6	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-51 (36-37)		
Lab Sample ID:	M23562-1	**Date Sampled:**	02/15/02
Matrix:	AQ - Ground Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-122%
2037-26-5	Toluene-D8	98%		88-111%
460-00-4	4-Bromofluorobenzene	93%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-48 (31.5-32.5)		
Lab Sample ID:	M23562-2	**Date Sampled:**	02/15/02
Matrix:	AQ - Ground Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15680.D	1	02/20/02	PB	n/a	n/a	MSG439
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-48 (31.5-32.5)		
Lab Sample ID:	M23562-2	**Date Sampled:**	02/15/02
Matrix:	AQ - Ground Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-122%
2037-26-5	Toluene-D8	96%		88-111%
460-00-4	4-Bromofluorobenzene	91%		82-115%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-53 (34-35)		
Lab Sample ID:	M23562-3	**Date Sampled:**	02/15/02
Matrix:	AQ - Ground Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15679.D	1	02/20/02	PB	n/a	n/a	MSG439
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	1.4	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	3.3	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	2.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	9.4	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	0.81	1.0	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-53 (34-35)		
Lab Sample ID:	M23562-3	**Date Sampled:**	02/15/02
Matrix:	AQ - Ground Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-122%
2037-26-5	Toluene-D8	98%		88-111%
460-00-4	4-Bromofluorobenzene	94%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-2		
Lab Sample ID:	M23562-4	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15678.D	1	02/20/02	PB	n/a	n/a	MSG439
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	0.51	1.0	ug/l	J
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-2		
Lab Sample ID:	M23562-4	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-122%
2037-26-5	Toluene-D8	96%		88-111%
460-00-4	4-Bromofluorobenzene	94%		82-115%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23562
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23562-1	G15681.D	104.0	98.0	93.0
M23562-2	G15680.D	104.0	96.0	91.0
M23562-3	G15679.D	103.0	98.0	94.0
M23562-4	G15678.D	105.0	96.0	94.0
M23562-3MS	G15687.D	98.0	97.0	96.0
M23562-3MSD	G15686.D	101.0	95.0	95.0
MSG439-BS	G15671.D	98.0	98.0	93.0
MSG439-MB	G15677.D	104.0	95.0	94.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-122%
S2 = Toluene-D8	88-111%
S3 = 4-Bromofluorobenzene	82-115%

Method Blank Summary

Job Number: M23562
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG439-MB	G15677.D	1	02/20/02	PB	n/a	n/a	MSG439

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23562-1, M23562-2, M23562-3, M23562-4

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23562
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG439-MB	G15677.D	1	02/20/02	PB	n/a	n/a	MSG439

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23562-1, M23562-2, M23562-3, M23562-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-122%
2037-26-5	Toluene-D8	95%	88-111%
460-00-4	4-Bromofluorobenzene	94%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23562
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23562-3MS	G15687.D	5	02/20/02	PB	n/a	n/a	MSG439
M23562-3MSD	G15686.D	5	02/20/02	PB	n/a	n/a	MSG439
M23562-3	G15679.D	1	02/20/02	PB	n/a	n/a	MSG439

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23562-1, M23562-2, M23562-3, M23562-4

CAS No.	Compound	M23562-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	197	79	200	80	2	67-165/32
71-43-2	Benzene	ND		250	216	86	224	90	4	69-132/30
75-27-4	Bromodichloromethane	ND		250	208	83	209	83	0	67-142/30
75-25-2	Bromoform	ND		250	214	86	216	86	1	54-154/30
74-83-9	Bromomethane	ND		250	195	78	208	83	6	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	218	87	223	89	2	52-155/30
75-15-0	Carbon disulfide	ND		250	193	77	207	83	7	55-124/30
56-23-5	Carbon tetrachloride	ND		250	212	85	222	89	5	54-162/30
108-90-7	Chlorobenzene	ND		250	238	95	247	99	4	72-124/30
75-00-3	Chloroethane	ND		250	191	76	196	78	3	56-139/30
67-66-3	Chloroform	1.4		250	221	88	225	89	2	62-138/30
74-87-3	Chloromethane	ND		250	163	65	178	71	9	44-153/30
124-48-1	Dibromochloromethane	ND		250	227	91	229	92	1	67-142/30
75-34-3	1,1-Dichloroethane	3.3		250	228	90	232	91	2	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	220	88	222	89	1	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	205	82	217	87	6	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	209	84	216	86	3	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	214	86	222	89	4	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	208	83	216	86	4	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	204	82	212	85	4	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	213	85	218	87	2	64-136/30
100-41-4	Ethylbenzene	ND		250	228	91	238	95	4	69-130/30
591-78-6	2-Hexanone	ND		250	209	84	214	86	2	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	207	83	212	85	2	61-152/30
75-09-2	Methylene chloride	ND		250	227	91	233	93	3	52-150/30
100-42-5	Styrene	ND		250	233	93	238	95	2	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	215	86	218	87	1	56-147/30
127-18-4	Tetrachloroethene	2.7		250	244	97	257	102	5	66-137/30
108-88-3	Toluene	ND		250	221	88	233	93	5	66-134/30
71-55-6	1,1,1-Trichloroethane	9.4		250	216	83	224	86	4	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	208	83	213	85	2	73-134/30
79-01-6	Trichloroethene	0.81	J	250	206	82	215	86	4	68-128/30
75-01-4	Vinyl chloride	ND		250	186	74	195	78	5	52-133/30
1330-20-7	Xylene (total)	ND		750	718	96	742	99	3	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23562
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23562-3MS	G15687.D	5	02/20/02	PB	n/a	n/a	MSG439
M23562-3MSD	G15686.D	5	02/20/02	PB	n/a	n/a	MSG439
M23562-3	G15679.D	1	02/20/02	PB	n/a	n/a	MSG439

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23562-1, M23562-2, M23562-3, M23562-4

CAS No.	Surrogate Recoveries	MS	MSD	M23562-3	Limits
1868-53-7	Dibromofluoromethane	98%	101%	103%	83-122%
2037-26-5	Toluene-D8	97%	95%	98%	88-111%
460-00-4	4-Bromofluorobenzene	96%	95%	94%	82-115%

Blank Spike Summary

Job Number: M23562
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG439-BS	G15671.D	1	02/20/02	PB	n/a	n/a	MSG439

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23562-1, M23562-2, M23562-3, M23562-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits	
67-64-1	Acetone	50	40.8	82	53-152	
71-43-2	Benzene	50	44.5	89	72-130	
75-27-4	Bromodichloromethane	50	41.8	84	76-134	
75-25-2	Bromoform	50	42.4	85	53-160	
74-83-9	Bromomethane	50	41.1	82	42-135	
78-93-3	2-Butanone (MEK)	50	42.8	86	58-146	
75-15-0	Carbon disulfide	50	40.7	81	71-126	
56-23-5	Carbon tetrachloride	50	44.7	89	73-138	
108-90-7	Chlorobenzene	50	48.1	96	73-124	OCT 8-1-02
75-00-3	Chloroethane	50	39.5	79*	~~80-124~~	55-151
67-66-3	Chloroform	50	43.9	88	79-125	
74-87-3	Chloromethane	50	35.8	72	52-152	
124-48-1	Dibromochloromethane	50	45.1	90	70-144	OCT 3-1-02
75-34-3	1,1-Dichloroethane	50	36.8	74*	~~80-125~~	61-154
107-06-2	1,2-Dichloroethane	50	44.3	89	72-137	
75-35-4	1,1-Dichloroethene	50	40.6	81	62-129	
156-59-2	cis-1,2-Dichloroethene	50	41.7	83	70-132	
156-60-5	trans-1,2-Dichloroethene	50	42.4	85	61-139	
78-87-5	1,2-Dichloropropane	50	43.0	86	77-127	
10061-01-5	cis-1,3-Dichloropropene	50	41.7	83	74-136	
10061-02-6	trans-1,3-Dichloropropene	50	42.8	86	76-134	
100-41-4	Ethylbenzene	50	46.6	93	76-131	
591-78-6	2-Hexanone	50	40.6	81	65-140	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	40.0	80	74-136	
75-09-2	Methylene chloride	50	44.7	89	67-140	
100-42-5	Styrene	50	46.5	93	75-144	
79-34-5	1,1,2,2-Tetrachloroethane	50	40.2	80	45-143	
127-18-4	Tetrachloroethene	50	49.6	99	70-136	
108-88-3	Toluene	50	44.7	89	70-132	
71-55-6	1,1,1-Trichloroethane	50	42.6	85	82-124	
79-00-5	1,1,2-Trichloroethane	50	41.6	83	80-131	
79-01-6	Trichloroethene	50	42.3	85	69-138	
75-01-4	Vinyl chloride	50	40.4	81	76-128	
1330-20-7	Xylene (total)	150	145	97	72-133	

Blank Spike Summary

Job Number: M23562
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG439-BS	G15671.D	1	02/20/02	PB	n/a	n/a	MSG439

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23562-1, M23562-2, M23562-3, M23562-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-122%
2037-26-5	Toluene-D8	98%	88-111%
460-00-4	4-Bromofluorobenzene	93%	82-115%

ACCUTEST
LABORATORIES OF NEW ENGLAND, INC.

PHONE LOG

DATE: 2/18/02 TIME: Am.

CALLER: BEN PHONE:

RECEIVER: SCOTT PARSIVE Re: M23562

QUESTION: CAN THE T.B. TO BE RECD. 2/18/02 (SENT W/JOB) BE ADDED TO COC AFTER RECG. AND ANAL. FOR VOC'S (SAME AS SAMPLES)

ANSWER: YES WE WILL add + RUN IT

COMMENTS:

New England
ACCUTEST.

03/04/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23552

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

Total number of pages in report: 26

ACCREDITED IN ACCORDANCE WITH nelac

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.

Reza Pand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23552

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M23552-1	02/13/02	13:50 SM	02/16/02	AQ	Ground Water	CPT-63 (33-34)
M23552-2	02/13/02	14:30 SM	02/16/02	AQ	Ground Water	CPT-63 (45-49)
M23552-3	02/14/02	12:30 SM	02/16/02	AQ	Ground Water	CPT-75 (30-31)
M23552-4	02/14/02	13:05 SM	02/16/02	AQ	Ground Water	CPT-75 (43-45)
M23552-5	02/13/02	14:30 SM	02/16/02	AQ	Ground Water	CPT-63 (45-49)DUP
M23552-6	02/13/02	14:25 SM	02/16/02	AQ	Ground Water	EB-01
M23552-7	02/13/02	16:05 SM	02/16/02	AQ	Trip Blank Water	TB-01

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-63 (33-34)		
Lab Sample ID:	M23552-1	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15639.D	1	02/19/02	PB	n/a	n/a	MSG437
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	0.99	1.0	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-63 (33-34)		
Lab Sample ID:	M23552-1	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-122%
2037-26-5	Toluene-D8	98%		88-111%
460-00-4	4-Bromofluorobenzene	95%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-63 (45-49)		
Lab Sample ID:	M23552-2	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15638.D	1	02/19/02	PB	n/a	n/a	MSG437
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-63 (45-49)		
Lab Sample ID:	M23552-2	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-122%
2037-26-5	Toluene-D8	96%		88-111%
460-00-4	4-Bromofluorobenzene	94%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-75 (30-31)		
Lab Sample ID:	M23552-3	**Date Sampled:**	02/14/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15637.D	1	02/19/02	PB	n/a	n/a	MSG437
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-75 (30-31)		
Lab Sample ID:	M23552-3	**Date Sampled:**	02/14/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-122%
2037-26-5	Toluene-D8	97%		88-111%
460-00-4	4-Bromofluorobenzene	95%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-75 (43-45)		
Lab Sample ID:	M23552-4	**Date Sampled:**	02/14/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15636.D	1	02/19/02	PB	n/a	n/a	MSG437
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	3.6	5.0	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-75 (43-45)		
Lab Sample ID:	M23552-4	**Date Sampled:**	02/14/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-122%
2037-26-5	Toluene-D8	98%		88-111%
460-00-4	4-Bromofluorobenzene	95%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-63 (45-49)DUP		
Lab Sample ID:	M23552-5	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15635.D	1	02/19/02	PB	n/a	n/a	MSG437
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-63 (45-49)DUP		
Lab Sample ID:	M23552-5	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-122%
2037-26-5	Toluene-D8	97%		88-111%
460-00-4	4-Bromofluorobenzene	94%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EB-01		
Lab Sample ID:	M23552-6	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15634.D	1	02/19/02	PB	n/a	n/a	MSG437
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EB-01		
Lab Sample ID:	M23552-6	**Date Sampled:**	02/13/02
Matrix:	AQ - Ground Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-122%
2037-26-5	Toluene-D8	96%		88-111%
460-00-4	4-Bromofluorobenzene	92%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-01		
Lab Sample ID:	M23552-7	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15633.D	1	02/19/02	PB	n/a	n/a	MSG437
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	0.55	1.0	ug/l	J
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-01		
Lab Sample ID:	M23552-7	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/16/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-122%
2037-26-5	Toluene-D8	95%		88-111%
460-00-4	4-Bromofluorobenzene	94%		82-115%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23552
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23552-1	G15639.D	103.0	98.0	95.0
M23552-2	G15638.D	103.0	96.0	94.0
M23552-3	G15637.D	105.0	97.0	95.0
M23552-4	G15636.D	102.0	98.0	95.0
M23552-5	G15635.D	103.0	97.0	94.0
M23552-6	G15634.D	100.0	96.0	92.0
M23552-7	G15633.D	100.0	95.0	94.0
M23552-6MS	G15641.D	100.0	99.0	95.0
M23552-6MSD	G15642.D	100.0	98.0	96.0
MSG437-BS	G15627.D	102.0	97.0	96.0
MSG437-MB	G15630.D	100.0	97.0	96.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-122%
S2 = Toluene-D8	88-111%
S3 = 4-Bromofluorobenzene	82-115%

Method Blank Summary

Job Number: M23552
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG437-MB	G15630.D	1	02/19/02	PB	n/a	n/a	MSG437

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23552-1, M23552-2, M23552-3, M23552-4, M23552-5, M23552-6, M23552-7

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23552
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG437-MB	G15630.D	1	02/19/02	PB	n/a	n/a	MSG437

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23552-1, M23552-2, M23552-3, M23552-4, M23552-5, M23552-6, M23552-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-122%
2037-26-5	Toluene-D8	97%	88-111%
460-00-4	4-Bromofluorobenzene	96%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23552
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23552-6MS	G15641.D	5	02/19/02	PB	n/a	n/a	MSG437
M23552-6MSD	G15642.D	5	02/19/02	PB	n/a	n/a	MSG437
M23552-6	G15634.D	1	02/19/02	PB	n/a	n/a	MSG437

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23552-1, M23552-2, M23552-3, M23552-4, M23552-5, M23552-6, M23552-7

CAS No.	Compound	M23552-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	236	94	243	97	3	67-165/32
71-43-2	Benzene	ND		250	230	92	228	91	1	69-132/30
75-27-4	Bromodichloromethane	ND		250	226	90	222	89	2	67-142/30
75-25-2	Bromoform	ND		250	226	90	222	89	2	54-154/30
74-83-9	Bromomethane	ND		250	191	76	190	76	1	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	247	99	244	98	1	52-155/30
75-15-0	Carbon disulfide	ND		250	185	74	164	66	12	55-124/30
56-23-5	Carbon tetrachloride	ND		250	217	87	219	88	1	54-162/30
108-90-7	Chlorobenzene	ND		250	253	101	251	100	1	72-124/30
75-00-3	Chloroethane	ND		250	190	76	190	76	0	56-139/30
67-66-3	Chloroform	ND		250	238	95	238	95	0	62-138/30
74-87-3	Chloromethane	ND		250	156	62	159	64	2	44-153/30
124-48-1	Dibromochloromethane	ND		250	235	94	239	96	2	67-142/30
75-34-3	1,1-Dichloroethane	ND		250	241	96	193	77	22	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	242	97	239	96	1	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	191	76	198	79	4	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	216	86	214	86	1	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	212	85	214	86	1	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	221	88	216	86	2	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	218	87	218	87	0	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	239	96	237	95	1	64-136/30
100-41-4	Ethylbenzene	ND		250	239	96	239	96	0	69-130/30
591-78-6	2-Hexanone	ND		250	241	96	231	92	4	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	240	96	234	94	3	61-152/30
75-09-2	Methylene chloride	ND		250	238	95	227	91	5	52-150/30
100-42-5	Styrene	ND		250	240	96	241	96	0	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	229	92	230	92	0	56-147/30
127-18-4	Tetrachloroethene	ND		250	244	98	241	96	1	66-137/30
108-88-3	Toluene	ND		250	234	94	235	94	0	66-134/30
71-55-6	1,1,1-Trichloroethane	ND		250	218	87	221	88	1	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	223	89	220	88	1	73-134/30
79-01-6	Trichloroethene	ND		250	213	85	213	85	0	68-128/30
75-01-4	Vinyl chloride	ND		250	167	67	170	68	2	52-133/30
1330-20-7	Xylene (total)	ND		750	749	100	752	100	0	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23552
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23552-6MS	G15641.D	5	02/19/02	PB	n/a	n/a	MSG437
M23552-6MSD	G15642.D	5	02/19/02	PB	n/a	n/a	MSG437
M23552-6	G15634.D	1	02/19/02	PB	n/a	n/a	MSG437

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23552-1, M23552-2, M23552-3, M23552-4, M23552-5, M23552-6, M23552-7

CAS No.	Surrogate Recoveries	MS	MSD	M23552-6	Limits
1868-53-7	Dibromofluoromethane	100%	100%	100%	83-122%
2037-26-5	Toluene-D8	99%	98%	96%	88-111%
460-00-4	4-Bromofluorobenzene	95%	96%	92%	82-115%

Blank Spike Summary

Job Number: M23552
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG437-BS	G15627.D	1	02/19/02	PB	n/a	n/a	MSG437

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23552-1, M23552-2, M23552-3, M23552-4, M23552-5, M23552-6, M23552-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits	
67-64-1	Acetone	50	43.4	87	53-152	
71-43-2	Benzene	50	43.5	87	72-130	
75-27-4	Bromodichloromethane	50	43.4	87	76-134	
75-25-2	Bromoform	50	44.2	88	53-160	
74-83-9	Bromomethane	50	36.4	73	42-135	
78-93-3	2-Butanone (MEK)	50	43.2	86	58-146	
75-15-0	Carbon disulfide	50	37.3	75	71-126	
56-23-5	Carbon tetrachloride	50	37.4	75	73-138	
108-90-7	Chlorobenzene	50	48.4	97	73-124	DRT 3-1-02
75-00-3	Chloroethane	50	37.8	76*	~~80-124~~	55-151
67-66-3	Chloroform	50	46.4	93	79-125	
74-87-3	Chloromethane	50	33.2	66	52-152	
124-48-1	Dibromochloromethane	50	45.5	91	70-144	
75-34-3	1,1-Dichloroethane	50	47.5	95	80-125	
107-06-2	1,2-Dichloroethane	50	43.4	87	72-137	
75-35-4	1,1-Dichloroethene	50	35.3	71	62-129	
156-59-2	cis-1,2-Dichloroethene	50	42.5	85	70-132	
156-60-5	trans-1,2-Dichloroethene	50	43.6	87	61-139	
78-87-5	1,2-Dichloropropane	50	41.7	83	77-127	
10061-01-5	cis-1,3-Dichloropropene	50	40.8	82	74-136	
10061-02-6	trans-1,3-Dichloropropene	50	44.1	88	76-134	
100-41-4	Ethylbenzene	50	46.1	92	76-131	
591-78-6	2-Hexanone	50	43.9	88	65-140	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.3	85	74-136	
75-09-2	Methylene chloride	50	43.3	87	67-140	
100-42-5	Styrene	50	47.2	94	75-144	
79-34-5	1,1,2,2-Tetrachloroethane	50	42.6	85	45-143	
127-18-4	Tetrachloroethene	50	44.5	89	70-136	
108-88-3	Toluene	50	44.6	89	70-132	
71-55-6	1,1,1-Trichloroethane	50	41.7	83	82-124	
79-00-5	1,1,2-Trichloroethane	50	40.7	81	80-131	
79-01-6	Trichloroethene	50	41.4	83	69-138	DRT 3-1-02
75-01-4	Vinyl chloride	50	31.5	63*	~~76-128~~	47-153
1330-20-7	Xylene (total)	150	143	95	72-133	

Blank Spike Summary

Job Number: M23552
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG437-BS	G15627.D	1	02/19/02	PB	n/a	n/a	MSG437

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23552-1, M23552-2, M23552-3, M23552-4, M23552-5, M23552-6, M23552-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-122%
2037-26-5	Toluene-D8	97%	88-111%
460-00-4	4-Bromofluorobenzene	96%	82-115%

INTERNAL MEMO
SAMPLE MANAGEMENT

MCSS. 2/18/02 AM.

Client: WESTON Point of contact: BEN MARADEL Time of contact:

Tel #: Fax #: Job #: M23552

****

Sample status: Cancel: ☐ Add: ☐ Change: ☐

Turn Around: ☐

****

Supply status: Bottles: ☐ COC: ☐ Preservative: ☐

Sample #	Detailed comments/request
ALL	WHAT "VOC" METHOD NEEDED ?
	CALL BACK METHOD IS 8260
45	ALSO BEN REQUESTS A CHANGE OF ID. ON "CPT-63(45-49)". "DUP" SHOULD
	BE ADDED AFTER PARENTHASES. (WILL FAX)
	SEND FAX COPY (+ HARD COPY)
	TO CHICAGO OFFICE.

AM
2/18/02

New England
ACCUTEST.

03/04/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23612

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

Total number of pages in report: 24

ACCREDITED IN ACCORDANCE WITH nelac

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.

Reza Pand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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

Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23612

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M23612-1	02/19/02	14:50 BM	02/21/02	AQ	Ground Water	CPT-41 (34-35)
M23612-2	02/19/02	15:10 BM	02/21/02	AQ	Ground Water	CPT-41 (53-55)
M23612-3	02/18/02	17:20 BM	02/21/02	AQ	Ground Water	CPT-52 (37-42)
M23612-4	02/13/02	16:05 BM	02/21/02	AQ	Trip Blank Water	TB-03

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-41 (34-35)		
Lab Sample ID:	M23612-1	**Date Sampled:**	02/19/02
Matrix:	AQ - Ground Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15793.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-41 (34-35)		
Lab Sample ID:	M23612-1	**Date Sampled:**	02/19/02
Matrix:	AQ - Ground Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	97%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-41 (53-55)		
Lab Sample ID:	M23612-2	**Date Sampled:**	02/19/02
Matrix:	AQ - Ground Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15794.D	1	02/27/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	0.52	1.0	ug/l	J
71-55-6	1,1,1-Trichloroethane	0.76	1.0	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-41 (53-55)		
Lab Sample ID:	M23612-2	**Date Sampled:**	02/19/02
Matrix:	AQ - Ground Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	98%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-52 (37-42)		
Lab Sample ID:	M23612-3	**Date Sampled:**	02/18/02
Matrix:	AQ - Ground Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15795.D	1	02/27/02	PB	n/a	n/a	MSG443
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	10.6	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-52 (37-42)		
Lab Sample ID:	M23612-3	**Date Sampled:**	02/18/02
Matrix:	AQ - Ground Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-122%
2037-26-5	Toluene-D8	100%		88-111%
460-00-4	4-Bromofluorobenzene	97%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-03		
Lab Sample ID:	M23612-4	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A29276.D	1	02/21/02	SC	n/a	n/a	MSA877
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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	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:	TB-03		
Lab Sample ID:	M23612-4	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/21/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-122%
2037-26-5	Toluene-D8	97%		88-111%
460-00-4	4-Bromofluorobenzene	99%		82-115%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23612-1	G15793.D	112.0	99.0	97.0
M23612-2	G15794.D	112.0	99.0	98.0
M23612-3	G15795.D	112.0	100.0	97.0
M23612-4	A29276.D	100.0	97.0	99.0
M23556-1MS	A29287.D	98.0	101.0	100.0
M23556-1MSD	A29288.D	100.0	101.0	104.0
M23633-6MS	G15781.D	102.0	98.0	98.0
M23633-6MSD	G15782.D	100.0	100.0	99.0
MSA877-BS	A29272.D	110.0	101.0	98.0
MSA877-MB	A29274.D	98.0	98.0	99.0
MSG443-BS	G15780.D	100.0	100.0	98.0
MSG443-MB	G15784.D	104.0	100.0	100.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-122%
S2 = Toluene-D8	88-111%
S3 = 4-Bromofluorobenzene	82-115%

Method Blank Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-MB	G15784.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-1, M23612-2, M23612-3

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-MB	G15784.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-1, M23612-2, M23612-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-122%
2037-26-5	Toluene-D8	100%	88-111%
460-00-4	4-Bromofluorobenzene	100%	82-115%

Method Blank Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA877-MB	A29274.D	1	02/21/02	SC	n/a	n/a	MSA877

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-4

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA877-MB	A29274.D	1	02/21/02	SC	n/a	n/a	MSA877

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-122%
2037-26-5	Toluene-D8	98%	88-111%
460-00-4	4-Bromofluorobenzene	99%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23633-6MS	G15781.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6MSD	G15782.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6	G15786.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-1, M23612-2, M23612-3

CAS No.	Compound	M23633-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	258	103	248	99	4	67-165/32
71-43-2	Benzene	ND		250	261	104	264	106	1	69-132/30
75-27-4	Bromodichloromethane	ND		250	268	107	270	108	1	67-142/30
75-25-2	Bromoform	ND		250	283	113	282	113	0	54-154/30
74-83-9	Bromomethane	ND		250	230	92	231	92	0	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	280	112	265	106	6	52-155/30
75-15-0	Carbon disulfide	ND		250	307	123	304	122	1	55-124/30
56-23-5	Carbon tetrachloride	ND		250	288	115	292	117	1	54-162/30
108-90-7	Chlorobenzene	ND		250	266	106	269	108	1	72-124/30
75-00-3	Chloroethane	ND		250	258	103	248	99	4	56-139/30
67-66-3	Chloroform	ND		250	267	107	267	107	0	62-138/30
74-87-3	Chloromethane	ND		250	251	100	252	101	0	44-153/30
124-48-1	Dibromochloromethane	ND		250	275	110	277	111	1	67-142/30
75-34-3	1,1-Dichloroethane	ND		250	267	107	266	106	0	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	269	108	270	108	0	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	252	101	255	102	1	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	250	100	248	99	1	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	251	100	254	102	1	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	263	105	267	107	2	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	284	114	284	114	0	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	280	112	275	110	2	64-136/30
100-41-4	Ethylbenzene	ND		250	277	111	276	110	0	69-130/30
591-78-6	2-Hexanone	ND		250	274	110	269	108	2	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	267	107	264	106	1	61-152/30
75-09-2	Methylene chloride	ND		250	266	106	264	106	1	52-150/30
100-42-5	Styrene	ND		250	277	111	278	111	0	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	275	110	268	107	3	56-147/30
127-18-4	Tetrachloroethene	ND		250	268	107	274	110	2	66-137/30
108-88-3	Toluene	ND		250	268	107	267	107	0	66-134/30
71-55-6	1,1,1-Trichloroethane	ND		250	275	110	279	112	1	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	265	106	260	104	2	73-134/30
79-01-6	Trichloroethene	ND		250	270	108	267	107	1	68-128/30
75-01-4	Vinyl chloride	ND		250	270	108	272	109	1	52-133/30
1330-20-7	Xylene (total)	ND		750	830	111	833	111	0	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23633-6MS	G15781.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6MSD	G15782.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6	G15786.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-1, M23612-2, M23612-3

CAS No.	Surrogate Recoveries	MS	MSD	M23633-6	Limits
1868-53-7	Dibromofluoromethane	102%	100%	108%	83-122%
2037-26-5	Toluene-D8	98%	100%	100%	88-111%
460-00-4	4-Bromofluorobenzene	98%	99%	98%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23556-1MS	A29287.D	5	02/22/02	SC	n/a	n/a	MSA877
M23556-1MSD	A29288.D	5	02/22/02	SC	n/a	n/a	MSA877
M23556-1	A29279.D	1	02/21/02	SC	n/a	n/a	MSA877

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-4

CAS No.	Compound	M23556-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	316	126	284	114	11	67-165/32
71-43-2	Benzene	ND		250	251	100	247	99	2	69-132/30
75-27-4	Bromodichloromethane	ND		250	248	99	255	102	3	67-142/30
75-25-2	Bromoform	ND		250	273	109	289	116	6	54-154/30
74-83-9	Bromomethane	ND		250	243	97	236	94	3	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	215	86	206	82	4	52-155/30
75-15-0	Carbon disulfide	ND		250	215	86	198	79	8	55-124/30
56-23-5	Carbon tetrachloride	ND		250	264	106	243	97	8	54-162/30
108-90-7	Chlorobenzene	ND		250	239	96	245	98	2	72-124/30
75-00-3	Chloroethane	ND		250	242	97	231	92	5	56-139/30
67-66-3	Chloroform	ND		250	227	91	225	90	1	62-138/30
74-87-3	Chloromethane	ND		250	251	100	226	90	10	44-153/30
124-48-1	Dibromochloromethane	ND		250	264	106	278	111	5	67-142/30
75-34-3	1,1-Dichloroethane	ND		250	244	98	238	95	2	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	258	103	266	106	3	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	237	95	218	87	8	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	245	98	242	97	1	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	247	99	234	94	5	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	263	105	269	108	2	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	256	102	260	104	2	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	241	96	250	100	4	64-136/30
100-41-4	Ethylbenzene	ND		250	259	104	256	102	1	69-130/30
591-78-6	2-Hexanone	ND		250	267	107	267	107	0	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	207	83	205	82	1	61-152/30
75-09-2	Methylene chloride	ND		250	241	96	251	100	4	52-150/30
100-42-5	Styrene	ND		250	251	100	256	102	2	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	280	112	293	117	5	56-147/30
127-18-4	Tetrachloroethene	29.9		250	271	96	259	92	5	66-137/30
108-88-3	Toluene	ND		250	254	102	250	100	2	66-134/30
71-55-6	1,1,1-Trichloroethane	ND		250	253	101	238	95	6	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	272	109	279	112	3	73-134/30
79-01-6	Trichloroethene	2.2		250	272	108	256	102	6	68-128/30
75-01-4	Vinyl chloride	ND		250	235	94	214	86	9	52-133/30
1330-20-7	Xylene (total)	ND		750	778	104	768	102	1	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23556-1MS	A29287.D	5	02/22/02	SC	n/a	n/a	MSA877
M23556-1MSD	A29288.D	5	02/22/02	SC	n/a	n/a	MSA877
M23556-1	A29279.D	1	02/21/02	SC	n/a	n/a	MSA877

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-4

CAS No.	Surrogate Recoveries	MS	MSD	M23556-1	Limits
1868-53-7	Dibromofluoromethane	98%	100%	99%	83-122%
2037-26-5	Toluene-D8	101%	101%	99%	88-111%
460-00-4	4-Bromofluorobenzene	100%	104%	98%	82-115%

Blank Spike Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-BS	G15780.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-1, M23612-2, M23612-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.6	109	53-152
71-43-2	Benzene	50	51.8	104	72-130
75-27-4	Bromodichloromethane	50	52.4	105	76-134
75-25-2	Bromoform	50	53.8	108	53-160
74-83-9	Bromomethane	50	45.3	91	42-135
78-93-3	2-Butanone (MEK)	50	53.5	107	58-146
75-15-0	Carbon disulfide	50	59.4	119	71-126
56-23-5	Carbon tetrachloride	50	55.7	111	73-138
108-90-7	Chlorobenzene	50	51.3	103	73-124
75-00-3	Chloroethane	50	49.6	99	80-124
67-66-3	Chloroform	50	51.7	103	79-125
74-87-3	Chloromethane	50	49.1	98	52-152
124-48-1	Dibromochloromethane	50	53.4	107	70-144
75-34-3	1,1-Dichloroethane	50	52.4	105	80-125
107-06-2	1,2-Dichloroethane	50	52.7	105	72-137
75-35-4	1,1-Dichloroethene	50	47.8	96	62-129
156-59-2	cis-1,2-Dichloroethene	50	47.7	95	70-132
156-60-5	trans-1,2-Dichloroethene	50	49.3	99	61-139
78-87-5	1,2-Dichloropropane	50	52.7	105	77-127
10061-01-5	cis-1,3-Dichloropropene	50	55.7	111	74-136
10061-02-6	trans-1,3-Dichloropropene	50	54.7	109	76-134
100-41-4	Ethylbenzene	50	53.0	106	76-131
591-78-6	2-Hexanone	50	51.1	102	65-140
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.8	102	74-136
75-09-2	Methylene chloride	50	50.0	100	67-140
100-42-5	Styrene	50	53.5	107	75-144
79-34-5	1,1,2,2-Tetrachloroethane	50	51.6	103	45-143
127-18-4	Tetrachloroethene	50	51.3	103	70-136
108-88-3	Toluene	50	52.0	104	70-132
71-55-6	1,1,1-Trichloroethane	50	52.9	106	82-124
79-00-5	1,1,2-Trichloroethane	50	50.8	102	80-131
79-01-6	Trichloroethene	50	51.7	103	69-138
75-01-4	Vinyl chloride	50	53.5	107	76-128
1330-20-7	Xylene (total)	150	160	107	72-133

Blank Spike Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-BS	G15780.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-1, M23612-2, M23612-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-122%
2037-26-5	Toluene-D8	100%	88-111%
460-00-4	4-Bromofluorobenzene	98%	82-115%

Blank Spike Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA877-BS	A29272.D	1	02/21/02	SC	n/a	n/a	MSA877

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	63.9	128	53-152
71-43-2	Benzene	50	55.5	111	72-130
75-27-4	Bromodichloromethane	50	56.2	112	76-134
75-25-2	Bromoform	50	54.6	109	53-160
74-83-9	Bromomethane	50	61.8	124	42-135
78-93-3	2-Butanone (MEK)	50	49.7	99	58-146
75-15-0	Carbon disulfide	50	53.9	108	71-126
56-23-5	Carbon tetrachloride	50	54.0	108	73-138
108-90-7	Chlorobenzene	50	51.7	103	73-124
75-00-3	Chloroethane	50	60.2	120	80-124
67-66-3	Chloroform	50	57.6	115	79-125
74-87-3	Chloromethane	50	59.5	119	52-152
124-48-1	Dibromochloromethane	50	54.2	108	70-144
75-34-3	1,1-Dichloroethane	50	61.2	122	80-125
107-06-2	1,2-Dichloroethane	50	57.9	116	72-137
75-35-4	1,1-Dichloroethene	50	56.9	114	62-129
156-59-2	cis-1,2-Dichloroethene	50	61.1	122	70-132
156-60-5	trans-1,2-Dichloroethene	50	61.2	122	61-139
78-87-5	1,2-Dichloropropane	50	60.0	120	77-127
10061-01-5	cis-1,3-Dichloropropene	50	60.2	120	74-136
10061-02-6	trans-1,3-Dichloropropene	50	56.0	112	76-134
100-41-4	Ethylbenzene	50	54.8	110	76-131
591-78-6	2-Hexanone	50	56.2	112	65-140
108-10-1	4-Methyl-2-pentanone (MIBK)	50	58.1	116	74-136
75-09-2	Methylene chloride	50	60.9	122	67-140
100-42-5	Styrene	50	53.6	107	75-144
79-34-5	1,1,2,2-Tetrachloroethane	50	53.1	106	45-143
127-18-4	Tetrachloroethene	50	51.6	103	70-136
108-88-3	Toluene	50	56.5	113	70-132
71-55-6	1,1,1-Trichloroethane	50	58.0	116	82-124
79-00-5	1,1,2-Trichloroethane	50	58.3	117	80-131
79-01-6	Trichloroethene	50	58.0	116	69-138
75-01-4	Vinyl chloride	50	55.0	110	76-128
1330-20-7	Xylene (total)	150	159	106	72-133

Blank Spike Summary

Job Number: M23612
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSA877-BS	A29272.D	1	02/21/02	SC	n/a	n/a	MSA877

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23612-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	110%	83-122%
2037-26-5	Toluene-D8	101%	88-111%
460-00-4	4-Bromofluorobenzene	98%	82-115%

New England ACCUTEST

03/04/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23633

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

Total number of pages in report: 28

Accredited in accordance with nelac

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.

Reza Tand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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Accutest Laboratories

Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23633

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M23633-1	02/21/02	12:55 BS	02/22/02	AQ	Ground Water	CPT-65 (12-13)
M23633-2	02/21/02	13:15 BS	02/22/02	AQ	Ground Water	CPT-65 (46-48)
M23633-3	02/21/02	13:15 BS	02/22/02	AQ	Ground Water	CPT-65 (46-48)DUP
M23633-4	02/21/02	10:25 BS	02/22/02	AQ	Ground Water	CPT-66 (15-16)
M23633-5	02/21/02	10:45 BS	02/22/02	AQ	Ground Water	CPT-66 (49-50)
M23633-6	02/21/02	15:40 BS	02/22/02	AQ	Ground Water	EB-02
M23633-7	02/13/02	16:05 BS	02/22/02	AQ	Trip Blank Water	TB-04
M23633-8	02/21/02	15:20 BS	02/22/02	AQ	Ground Water	CPT-64 (22.5-24.5)

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-65 (12-13)		
Lab Sample ID:	M23633-1	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15787.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-65 (12-13)		
Lab Sample ID:	M23633-1	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	98%		82-115%

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:	CPT-65 (46-48)		
Lab Sample ID:	M23633-2	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15788.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-65 (46-48)		
Lab Sample ID:	M23633-2	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	99%		82-115%

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:	CPT-65 (46-48)DUP		
Lab Sample ID:	M23633-3	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15789.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-65 (46-48)DUP		
Lab Sample ID:	M23633-3	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	98%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-66 (15-16)		
Lab Sample ID:	M23633-4	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15790.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-66 (15-16)		
Lab Sample ID:	M23633-4	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-122%
2037-26-5	Toluene-D8	101%		88-111%
460-00-4	4-Bromofluorobenzene	97%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-66 (49-50)		
Lab Sample ID:	M23633-5	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15791.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-66 (49-50)		
Lab Sample ID:	M23633-5	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-122%
2037-26-5	Toluene-D8	100%		88-111%
460-00-4	4-Bromofluorobenzene	97%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EB-02		
Lab Sample ID:	M23633-6	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15786.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	EB-02		
Lab Sample ID:	M23633-6	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-122%
2037-26-5	Toluene-D8	100%		88-111%
460-00-4	4-Bromofluorobenzene	98%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-04		
Lab Sample ID:	M23633-7	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15785.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	0.55	1.0	ug/l	J
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	TB-04		
Lab Sample ID:	M23633-7	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	97%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-64 (22.5-24.5)		
Lab Sample ID:	M23633-8	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15792.D	1	02/26/02	PB	n/a	n/a	MSG443
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	0.76	1.0	ug/l	J
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-64 (22.5-24.5)		
Lab Sample ID:	M23633-8	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/22/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-122%
2037-26-5	Toluene-D8	101%		88-111%
460-00-4	4-Bromofluorobenzene	98%		82-115%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23633
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23633-1	G15787.D	108.0	99.0	98.0
M23633-2	G15788.D	107.0	99.0	99.0
M23633-3	G15789.D	111.0	99.0	98.0
M23633-4	G15790.D	109.0	101.0	97.0
M23633-5	G15791.D	110.0	100.0	97.0
M23633-6	G15786.D	108.0	100.0	98.0
M23633-7	G15785.D	105.0	99.0	97.0
M23633-8	G15792.D	112.0	101.0	98.0
M23633-6MS	G15781.D	102.0	98.0	98.0
M23633-6MSD	G15782.D	100.0	100.0	99.0
MSG443-BS	G15780.D	100.0	100.0	98.0
MSG443-MB	G15784.D	104.0	100.0	100.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-122%
S2 = Toluene-D8	88-111%
S3 = 4-Bromofluorobenzene	82-115%

Method Blank Summary

Job Number: M23633
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-MB	G15784.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23633-1, M23633-2, M23633-3, M23633-4, M23633-5, M23633-6, M23633-7, M23633-8

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23633
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-MB	G15784.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23633-1, M23633-2, M23633-3, M23633-4, M23633-5, M23633-6, M23633-7, M23633-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-122%
2037-26-5	Toluene-D8	100%	88-111%
460-00-4	4-Bromofluorobenzene	100%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23633
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23633-6MS	G15781.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6MSD	G15782.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6	G15786.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23633-1, M23633-2, M23633-3, M23633-4, M23633-5, M23633-6, M23633-7, M23633-8

CAS No.	Compound	M23633-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	258	103	248	99	4	67-165/32
71-43-2	Benzene	ND		250	261	104	264	106	1	69-132/30
75-27-4	Bromodichloromethane	ND		250	268	107	270	108	1	67-142/30
75-25-2	Bromoform	ND		250	283	113	282	113	0	54-154/30
74-83-9	Bromomethane	ND		250	230	92	231	92	0	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	280	112	265	106	6	52-155/30
75-15-0	Carbon disulfide	ND		250	307	123	304	122	1	55-124/30
56-23-5	Carbon tetrachloride	ND		250	288	115	292	117	1	54-162/30
108-90-7	Chlorobenzene	ND		250	266	106	269	108	1	72-124/30
75-00-3	Chloroethane	ND		250	258	103	248	99	4	56-139/30
67-66-3	Chloroform	ND		250	267	107	267	107	0	62-138/30
74-87-3	Chloromethane	ND		250	251	100	252	101	0	44-153/30
124-48-1	Dibromochloromethane	ND		250	275	110	277	111	1	67-142/30
75-34-3	1,1-Dichloroethane	ND		250	267	107	266	106	0	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	269	108	270	108	0	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	252	101	255	102	1	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	250	100	248	99	1	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	251	100	254	102	1	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	263	105	267	107	2	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	284	114	284	114	0	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	280	112	275	110	2	64-136/30
100-41-4	Ethylbenzene	ND		250	277	111	276	110	0	69-130/30
591-78-6	2-Hexanone	ND		250	274	110	269	108	2	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	267	107	264	106	1	61-152/30
75-09-2	Methylene chloride	ND		250	266	106	264	106	1	52-150/30
100-42-5	Styrene	ND		250	277	111	278	111	0	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	275	110	268	107	3	56-147/30
127-18-4	Tetrachloroethene	ND		250	268	107	274	110	2	66-137/30
108-88-3	Toluene	ND		250	268	107	267	107	0	66-134/30
71-55-6	1,1,1-Trichloroethane	ND		250	275	110	279	112	1	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	265	106	260	104	2	73-134/30
79-01-6	Trichloroethene	ND		250	270	108	267	107	1	68-128/30
75-01-4	Vinyl chloride	ND		250	270	108	272	109	1	52-133/30
1330-20-7	Xylene (total)	ND		750	830	111	833	111	0	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23633
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23633-6MS	G15781.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6MSD	G15782.D	5	02/26/02	PB	n/a	n/a	MSG443
M23633-6	G15786.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23633-1, M23633-2, M23633-3, M23633-4, M23633-5, M23633-6, M23633-7, M23633-8

CAS No.	Surrogate Recoveries	MS	MSD	M23633-6	Limits
1868-53-7	Dibromofluoromethane	102%	100%	108%	83-122%
2037-26-5	Toluene-D8	98%	100%	100%	88-111%
460-00-4	4-Bromofluorobenzene	98%	99%	98%	82-115%

Blank Spike Summary

Job Number: M23633
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-BS	G15780.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23633-1, M23633-2, M23633-3, M23633-4, M23633-5, M23633-6, M23633-7, M23633-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.6	109	53-152
71-43-2	Benzene	50	51.8	104	72-130
75-27-4	Bromodichloromethane	50	52.4	105	76-134
75-25-2	Bromoform	50	53.8	108	53-160
74-83-9	Bromomethane	50	45.3	91	42-135
78-93-3	2-Butanone (MEK)	50	53.5	107	58-146
75-15-0	Carbon disulfide	50	59.4	119	71-126
56-23-5	Carbon tetrachloride	50	55.7	111	73-138
108-90-7	Chlorobenzene	50	51.3	103	73-124
75-00-3	Chloroethane	50	49.6	99	80-124
67-66-3	Chloroform	50	51.7	103	79-125
74-87-3	Chloromethane	50	49.1	98	52-152
124-48-1	Dibromochloromethane	50	53.4	107	70-144
75-34-3	1,1-Dichloroethane	50	52.4	105	80-125
107-06-2	1,2-Dichloroethane	50	52.7	105	72-137
75-35-4	1,1-Dichloroethene	50	47.8	96	62-129
156-59-2	cis-1,2-Dichloroethene	50	47.7	95	70-132
156-60-5	trans-1,2-Dichloroethene	50	49.3	99	61-139
78-87-5	1,2-Dichloropropane	50	52.7	105	77-127
10061-01-5	cis-1,3-Dichloropropene	50	55.7	111	74-136
10061-02-6	trans-1,3-Dichloropropene	50	54.7	109	76-134
100-41-4	Ethylbenzene	50	53.0	106	76-131
591-78-6	2-Hexanone	50	51.1	102	65-140
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.8	102	74-136
75-09-2	Methylene chloride	50	50.0	100	67-140
100-42-5	Styrene	50	53.5	107	75-144
79-34-5	1,1,2,2-Tetrachloroethane	50	51.6	103	45-143
127-18-4	Tetrachloroethene	50	51.3	103	70-136
108-88-3	Toluene	50	52.0	104	70-132
71-55-6	1,1,1-Trichloroethane	50	52.9	106	82-124
79-00-5	1,1,2-Trichloroethane	50	50.8	102	80-131
79-01-6	Trichloroethene	50	51.7	103	69-138
75-01-4	Vinyl chloride	50	53.5	107	76-128
1330-20-7	Xylene (total)	150	160	107	72-133

Blank Spike Summary

Job Number: M23633
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG443-BS	G15780.D	1	02/26/02	PB	n/a	n/a	MSG443

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23633-1, M23633-2, M23633-3, M23633-4, M23633-5, M23633-6, M23633-7, M23633-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-122%
2037-26-5	Toluene-D8	100%	88-111%
460-00-4	4-Bromofluorobenzene	98%	82-115%

INTERNAL MEMO
SAMPLE MANAGEMENT

Client: Roy F. WESTON Point of contact: BEN MARADKEL Time of contact: 11:45

Tel #_____ Fax #_____ Job #: M23633

****

Sample status: Cancel: ☐ Add: ☐ Change: ☐

Turn Around: ☐

****

Supply status: Bottles: ☐ COC: ☐ Preservative: ☐

Sample #	Detailed comments/request
M23633-8	2-40ml VIALS LABELED CPT-64 (22.5-24.5)" RECD. W/JOB. NOT ON C.O.C.
	YES DO ANAL. FOR 8260 AS
	OTHERS, WILL FAX COC. AMEND

2/22/02

New England ACCUTEST

03/04/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23659

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

Total number of pages in report: 22

ACCREDITED IN ACCORDANCE WITH nelac

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.

Reza Tand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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Accutest Laboratories

Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23659

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M23659-1	02/22/02	09:15 BJS	02/23/02	AQ	Ground Water	CPT-64 (36-41)
M23659-2	02/21/02	09:30 BJS	02/23/02	AQ	Ground Water	CPT-58 (61-66)
M23659-3	02/13/02	16:05 BJS	02/23/02	AQ	Trip Blank Water	TB-05
M23659-4	02/22/02	13:50 BJS	02/23/02	AQ	Ground Water	CPT-79 (32-35)
M23659-5	02/22/02	14:10 BJS	02/23/02	AQ	Ground Water	CPT-79 (42-44)
M23659-6	02/22/02	16:40 BJS	02/23/02	AQ	Ground Water	CPT-50 (43-46)

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-64 (36-41)		
Lab Sample ID:	M23659-1	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15824.D	1	02/27/02	PB	n/a	n/a	MSG444
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	2.5	5.0	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-64 (36-41)		
Lab Sample ID:	M23659-1	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	97%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-58 (61-66)		
Lab Sample ID:	M23659-2	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15825.D	1	02/27/02	PB	n/a	n/a	MSG444
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	14.3	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-58 (61-66)		
Lab Sample ID:	M23659-2	**Date Sampled:**	02/21/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		83-122%
2037-26-5	Toluene-D8	101%		88-111%
460-00-4	4-Bromofluorobenzene	95%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-05		
Lab Sample ID:	M23659-3	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15823.D	1	02/27/02	PB	n/a	n/a	MSG444
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	0.61	1.0	ug/l	J
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	TB-05		
Lab Sample ID:	M23659-3	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		83-122%
2037-26-5	Toluene-D8	100%		88-111%
460-00-4	4-Bromofluorobenzene	96%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-79 (32-35)		
Lab Sample ID:	M23659-4	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15826.D	1	02/27/02	PB	n/a	n/a	MSG444
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	7.5	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-79 (32-35)		
Lab Sample ID:	M23659-4	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	96%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-79 (42-44)		
Lab Sample ID:	M23659-5	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15827.D	1	02/27/02	PB	n/a	n/a	MSG444
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.4	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-79 (42-44)		
Lab Sample ID:	M23659-5	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		83-122%
2037-26-5	Toluene-D8	102%		88-111%
460-00-4	4-Bromofluorobenzene	95%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-50 (43-46)		
Lab Sample ID:	M23659-6	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15828.D	1	02/27/02	PB	n/a	n/a	MSG444
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	2.0	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.62	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	59.1	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.4	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	2.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	218	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	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:	CPT-50 (43-46)		
Lab Sample ID:	M23659-6	**Date Sampled:**	02/22/02
Matrix:	AQ - Ground Water	**Date Received:**	02/23/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		83-122%
2037-26-5	Toluene-D8	102%		88-111%
460-00-4	4-Bromofluorobenzene	96%		82-115%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23659
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23659-1	G15824.D	118.0	99.0	97.0
M23659-2	G15825.D	117.0	101.0	95.0
M23659-3	G15823.D	118.0	100.0	96.0
M23659-4	G15826.D	118.0	99.0	96.0
M23659-5	G15827.D	118.0	102.0	95.0
M23659-6	G15828.D	119.0	102.0	96.0
M23659-1MS	G15817.D	109.0	99.0	99.0
M23659-1MSD	G15818.D	109.0	99.0	99.0
MSG444-BS	G15816.D	111.0	99.0	97.0
MSG444-MB	G15822.D	115.0	100.0	96.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-122%
S2 = Toluene-D8	88-111%
S3 = 4-Bromofluorobenzene	82-115%

Method Blank Summary

Job Number: M23659
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-MB	G15822.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23659-1, M23659-2, M23659-3, M23659-4, M23659-5, M23659-6

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23659
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-MB	G15822.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23659-1, M23659-2, M23659-3, M23659-4, M23659-5, M23659-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	83-122%
2037-26-5	Toluene-D8	100%	88-111%
460-00-4	4-Bromofluorobenzene	96%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23659
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23659-1MS	G15817.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1MSD	G15818.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1	G15824.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23659-1, M23659-2, M23659-3, M23659-4, M23659-5, M23659-6

CAS No.	Compound	M23659-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2.5	J	250	342	136	275	109	22	67-165/32
71-43-2	Benzene	ND		250	278	111	254	102	9	69-132/30
75-27-4	Bromodichloromethane	ND		250	302	121	272	109	10	67-142/30
75-25-2	Bromoform	ND		250	306	122	282	113	8	54-154/30
74-83-9	Bromomethane	ND		250	263	105	238	95	10	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	297	119	270	108	10	52-155/30
75-15-0	Carbon disulfide	ND		250	356	142*	319	128*	11	55-124/30
56-23-5	Carbon tetrachloride	ND		250	347	139	312	125	11	54-162/30
108-90-7	Chlorobenzene	ND		250	277	111	255	102	8	72-124/30
75-00-3	Chloroethane	ND		250	295	118	263	105	11	56-139/30
67-66-3	Chloroform	ND		250	305	122	282	113	8	62-138/30
74-87-3	Chloromethane	ND		250	286	114	261	104	9	44-153/30
124-48-1	Dibromochloromethane	ND		250	300	120	276	110	8	67-142/30
75-34-3	1,1-Dichloroethane	ND		250	312	125	279	112	11	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	303	121	273	109	10	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	291	116	263	105	10	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	267	107	239	96	11	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	285	114	258	103	10	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	284	114	258	103	10	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	304	122	277	111	9	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	303	121	270	108	12	64-136/30
100-41-4	Ethylbenzene	ND		250	285	114	262	105	8	69-130/30
591-78-6	2-Hexanone	ND		250	275	110	244	98	12	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	279	112	251	100	11	61-152/30
75-09-2	Methylene chloride	ND		250	302	121	272	109	10	52-150/30
100-42-5	Styrene	ND		250	283	113	260	104	8	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	277	111	252	101	9	56-147/30
127-18-4	Tetrachloroethene	ND		250	287	115	261	104	9	66-137/30
108-88-3	Toluene	ND		250	281	112	259	104	8	66-134/30
71-55-6	1,1,1-Trichloroethane	ND		250	326	130	298	119	9	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	275	110	251	100	9	73-134/30
79-01-6	Trichloroethene	ND		250	286	114	266	106	7	68-128/30
75-01-4	Vinyl chloride	ND		250	318	127	288	115	10	52-133/30
1330-20-7	Xylene (total)	ND		750	863	115	801	107	7	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23659
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23659-1MS	G15817.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1MSD	G15818.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1	G15824.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23659-1, M23659-2, M23659-3, M23659-4, M23659-5, M23659-6

CAS No.	Surrogate Recoveries	MS	MSD	M23659-1	Limits
1868-53-7	Dibromofluoromethane	109%	109%	118%	83-122%
2037-26-5	Toluene-D8	99%	99%	99%	88-111%
460-00-4	4-Bromofluorobenzene	99%	99%	97%	82-115%

Blank Spike Summary

Job Number: M23659
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-BS	G15816.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23659-1, M23659-2, M23659-3, M23659-4, M23659-5, M23659-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	69.4	139	53-152
71-43-2	Benzene	50	51.9	104	72-130
75-27-4	Bromodichloromethane	50	56.3	113	76-134
75-25-2	Bromoform	50	58.1	116	53-160
74-83-9	Bromomethane	50	49.4	99	42-135
78-93-3	2-Butanone (MEK)	50	60.9	122	58-146
75-15-0	Carbon disulfide	50	65.0	130*	71-126
56-23-5	Carbon tetrachloride	50	65.0	130	73-138
108-90-7	Chlorobenzene	50	51.8	104	73-124
75-00-3	Chloroethane	50	54.7	109	80-124
67-66-3	Chloroform	50	57.5	115	79-125
74-87-3	Chloromethane	50	52.7	105	52-152
124-48-1	Dibromochloromethane	50	56.9	114	70-144
75-34-3	1,1-Dichloroethane	50	56.6	113	80-125
107-06-2	1,2-Dichloroethane	50	56.7	113	72-137
75-35-4	1,1-Dichloroethene	50	53.4	107	62-129
156-59-2	cis-1,2-Dichloroethene	50	50.1	100	70-132
156-60-5	trans-1,2-Dichloroethene	50	50.1	100	61-139
78-87-5	1,2-Dichloropropane	50	52.5	105	77-127
10061-01-5	cis-1,3-Dichloropropene	50	56.8	114	74-136
10061-02-6	trans-1,3-Dichloropropene	50	56.1	112	76-134
100-41-4	Ethylbenzene	50	53.7	107	76-131
591-78-6	2-Hexanone	50	54.6	109	65-140
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.6	103	74-136
75-09-2	Methylene chloride	50	55.1	110	67-140
100-42-5	Styrene	50	53.1	106	75-144
79-34-5	1,1,2,2-Tetrachloroethane	50	51.7	103	45-143
127-18-4	Tetrachloroethene	50	52.7	105	70-136
108-88-3	Toluene	50	52.8	106	70-132
71-55-6	1,1,1-Trichloroethane	50	60.9	122	82-124
79-00-5	1,1,2-Trichloroethane	50	51.9	104	80-131
79-01-6	Trichloroethene	50	54.1	108	69-138
75-01-4	Vinyl chloride	50	59.9	120	76-128
1330-20-7	Xylene (total)	150	162	108	72-133

Blank Spike Summary

Job Number: M23659
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-BS	G15816.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23659-1, M23659-2, M23659-3, M23659-4, M23659-5, M23659-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	83-122%
2037-26-5	Toluene-D8	99%	88-111%
460-00-4	4-Bromofluorobenzene	97%	82-115%

New England
ACCUTEST

03/04/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23702

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

Total number of pages in report: 24

ACCREDITED IN ACCORDANCE WITH nelac

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.

Reza Pand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23702

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M23702-1	02/26/02	16:30 BS	02/27/02	AQ	Ground Water	CPT-44 (36-37)
M23702-2	02/26/02	14:10 BS	02/27/02	AQ	Ground Water	CPT-46 (44-45)
M23702-3	02/26/02	10:45 BS	02/27/02	AQ	Ground Water	CPT-67 (77-79)
M23702-4	02/13/02	16:05 BS	02/27/02	AQ	Trip Blank Water	T.B.-06

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-44 (36-37)		
Lab Sample ID:	M23702-1	**Date Sampled:**	02/26/02
Matrix:	AQ - Ground Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15845.D	1	02/28/02	PB	n/a	n/a	MSG445
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	6.1	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	0.77	1.0	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	1.4	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	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:	CPT-44 (36-37)		
Lab Sample ID:	M23702-1	**Date Sampled:**	02/26/02
Matrix:	AQ - Ground Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	101%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-46 (44-45)		
Lab Sample ID:	M23702-2	**Date Sampled:**	02/26/02
Matrix:	AQ - Ground Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15846.D	1	02/28/02	PB	n/a	n/a	MSG445
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-46 (44-45)		
Lab Sample ID:	M23702-2	**Date Sampled:**	02/26/02
Matrix:	AQ - Ground Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-122%
2037-26-5	Toluene-D8	99%		88-111%
460-00-4	4-Bromofluorobenzene	100%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-67 (77-79)		
Lab Sample ID:	M23702-3	**Date Sampled:**	02/26/02
Matrix:	AQ - Ground Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15847.D	1	02/28/02	PB	n/a	n/a	MSG445
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.8	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-67 (77-79)		
Lab Sample ID:	M23702-3	**Date Sampled:**	02/26/02
Matrix:	AQ - Ground Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-122%
2037-26-5	Toluene-D8	101%		88-111%
460-00-4	4-Bromofluorobenzene	100%		82-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	T.B.-06		
Lab Sample ID:	M23702-4	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15834.D	1	02/27/02	PB	n/a	n/a	MSG444
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	0.65	1.0	ug/l	J
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	T.B.-06		
Lab Sample ID:	M23702-4	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/27/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-122%
2037-26-5	Toluene-D8	102%		88-111%
460-00-4	4-Bromofluorobenzene	99%		82-115%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23702-1	G15845.D	97.0	99.0	101.0
M23702-2	G15846.D	98.0	99.0	100.0
M23702-3	G15847.D	98.0	101.0	100.0
M23702-4	G15834.D	100.0	102.0	99.0
M23659-1MS	G15817.D	109.0	99.0	99.0
M23659-1MSD	G15818.D	109.0	99.0	99.0
M23702-1MS	G15843.D	95.0	101.0	101.0
M23702-1MSD	G15844.D	95.0	101.0	102.0
MSG444-BS	G15816.D	111.0	99.0	97.0
MSG444-MB	G15822.D	115.0	100.0	96.0
MSG445-BS	G15842.D	96.0	99.0	102.0
MSG445-MB	G15848.D	98.0	98.0	101.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-122%
S2 = Toluene-D8	88-111%
S3 = 4-Bromofluorobenzene	82-115%

Method Blank Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG445-MB	G15848.D	1	02/28/02	PB	n/a	n/a	MSG445

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-1, M23702-2, M23702-3

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG445-MB	G15848.D	1	02/28/02	PB	n/a	n/a	MSG445

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-1, M23702-2, M23702-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-122%
2037-26-5	Toluene-D8	98%	88-111%
460-00-4	4-Bromofluorobenzene	101%	82-115%

Method Blank Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-MB	G15822.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-4

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-MB	G15822.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	83-122%
2037-26-5	Toluene-D8	100%	88-111%
460-00-4	4-Bromofluorobenzene	96%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23702-1MS	G15843.D	5	02/28/02	PB	n/a	n/a	MSG445
M23702-1MSD	G15844.D	5	02/28/02	PB	n/a	n/a	MSG445
M23702-1	G15845.D	1	02/28/02	PB	n/a	n/a	MSG445

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-1, M23702-2, M23702-3

CAS No.	Compound	M23702-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	238	95	241	96	1	67-165/32
71-43-2	Benzene	ND		250	268	107	265	106	1	69-132/30
75-27-4	Bromodichloromethane	ND		250	269	108	268	107	0	67-142/30
75-25-2	Bromoform	ND		250	284	114	284	114	0	54-154/30
74-83-9	Bromomethane	ND		250	231	92	224	90	3	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	217	87	221	88	2	52-155/30
75-15-0	Carbon disulfide	ND		250	317	127*	311	124	2	55-124/30
56-23-5	Carbon tetrachloride	ND		250	298	119	295	118	1	54-162/30
108-90-7	Chlorobenzene	ND		250	271	108	267	107	1	72-124/30
75-00-3	Chloroethane	ND		250	258	103	255	102	1	56-139/30
67-66-3	Chloroform	6.1		250	256	100	253	99	1	62-138/30
74-87-3	Chloromethane	ND		250	246	98	238	95	3	44-153/30
124-48-1	Dibromochloromethane	ND		250	285	114	280	112	2	67-142/30
75-34-3	1,1-Dichloroethane	ND		250	265	106	261	104	2	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	252	101	253	101	0	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	263	105	253	101	4	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	208	83	242	97	15	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	259	104	259	104	0	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	265	106	266	106	0	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	295	118	297	119	1	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	289	116	290	116	0	64-136/30
100-41-4	Ethylbenzene	ND		250	283	113	278	111	2	69-130/30
591-78-6	2-Hexanone	ND		250	269	108	269	108	0	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	261	104	265	106	2	61-152/30
75-09-2	Methylene chloride	ND		250	271	108	261	104	4	52-150/30
100-42-5	Styrene	ND		250	288	115	286	114	1	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	267	107	269	108	1	56-147/30
127-18-4	Tetrachloroethene	ND		250	275	110	270	108	2	66-137/30
108-88-3	Toluene	ND		250	272	109	273	109	0	66-134/30
71-55-6	1,1,1-Trichloroethane	0.77	J	250	267	106	266	106	0	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	264	106	261	104	1	73-134/30
79-01-6	Trichloroethene	1.4		250	270	107	270	107	0	68-128/30
75-01-4	Vinyl chloride	ND		250	276	110	269	108	3	52-133/30
1330-20-7	Xylene (total)	ND		750	849	113	835	111	2	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23702-1MS	G15843.D	5	02/28/02	PB	n/a	n/a	MSG445
M23702-1MSD	G15844.D	5	02/28/02	PB	n/a	n/a	MSG445
M23702-1	G15845.D	1	02/28/02	PB	n/a	n/a	MSG445

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-1, M23702-2, M23702-3

CAS No.	Surrogate Recoveries	MS	MSD	M23702-1	Limits
1868-53-7	Dibromofluoromethane	95%	95%	97%	83-122%
2037-26-5	Toluene-D8	101%	101%	99%	88-111%
460-00-4	4-Bromofluorobenzene	101%	102%	101%	82-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23659-1MS	G15817.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1MSD	G15818.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1	G15824.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-4

CAS No.	Compound	M23659-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2.5	J	250	342	136	275	109	22	67-165/32
71-43-2	Benzene	ND		250	278	111	254	102	9	69-132/30
75-27-4	Bromodichloromethane	ND		250	302	121	272	109	10	67-142/30
75-25-2	Bromoform	ND		250	306	122	282	113	8	54-154/30
74-83-9	Bromomethane	ND		250	263	105	238	95	10	53-141/30
78-93-3	2-Butanone (MEK)	ND		250	297	119	270	108	10	52-155/30
75-15-0	Carbon disulfide	ND		250	356	142*	319	128*	11	55-124/30
56-23-5	Carbon tetrachloride	ND		250	347	139	312	125	11	54-162/30
108-90-7	Chlorobenzene	ND		250	277	111	255	102	8	72-124/30
75-00-3	Chloroethane	ND		250	295	118	263	105	11	56-139/30
67-66-3	Chloroform	ND		250	305	122	282	113	8	62-138/30
74-87-3	Chloromethane	ND		250	286	114	261	104	9	44-153/30
124-48-1	Dibromochloromethane	ND		250	300	120	276	110	8	67-142/30
75-34-3	1,1-Dichloroethane	ND		250	312	125	279	112	11	63-134/30
107-06-2	1,2-Dichloroethane	ND		250	303	121	273	109	10	67-136/30
75-35-4	1,1-Dichloroethene	ND		250	291	116	263	105	10	60-131/30
156-59-2	cis-1,2-Dichloroethene	ND		250	267	107	239	96	11	63-136/30
156-60-5	trans-1,2-Dichloroethene	ND		250	285	114	258	103	10	58-137/30
78-87-5	1,2-Dichloropropane	ND		250	284	114	258	103	10	68-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	304	122	277	111	9	63-136/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	303	121	270	108	12	64-136/30
100-41-4	Ethylbenzene	ND		250	285	114	262	105	8	69-130/30
591-78-6	2-Hexanone	ND		250	275	110	244	98	12	55-151/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	279	112	251	100	11	61-152/30
75-09-2	Methylene chloride	ND		250	302	121	272	109	10	52-150/30
100-42-5	Styrene	ND		250	283	113	260	104	8	60-140/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	277	111	252	101	9	56-147/30
127-18-4	Tetrachloroethene	ND		250	287	115	261	104	9	66-137/30
108-88-3	Toluene	ND		250	281	112	259	104	8	66-134/30
71-55-6	1,1,1-Trichloroethane	ND		250	326	130	298	119	9	60-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	275	110	251	100	9	73-134/30
79-01-6	Trichloroethene	ND		250	286	114	266	106	7	68-128/30
75-01-4	Vinyl chloride	ND		250	318	127	288	115	10	52-133/30
1330-20-7	Xylene (total)	ND		750	863	115	801	107	7	64-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23659-1MS	G15817.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1MSD	G15818.D	5	02/27/02	PB	n/a	n/a	MSG444
M23659-1	G15824.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-4

CAS No.	Surrogate Recoveries	MS	MSD	M23659-1	Limits
1868-53-7	Dibromofluoromethane	109%	109%	118%	83-122%
2037-26-5	Toluene-D8	99%	99%	99%	88-111%
460-00-4	4-Bromofluorobenzene	99%	99%	97%	82-115%

Blank Spike Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG445-BS	G15842.D	1	02/28/02	PB	n/a	n/a	MSG445

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-1, M23702-2, M23702-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	57.0	114	53-152
71-43-2	Benzene	50	57.9	116	72-130
75-27-4	Bromodichloromethane	50	58.1	116	76-134
75-25-2	Bromoform	50	62.4	125	53-160
74-83-9	Bromomethane	50	50.2	100	42-135
78-93-3	2-Butanone (MEK)	50	57.6	115	58-146
75-15-0	Carbon disulfide	50	69.0	138*	71-126
56-23-5	Carbon tetrachloride	50	64.8	130	73-138
108-90-7	Chlorobenzene	50	58.3	117	73-124
75-00-3	Chloroethane	50	55.6	111	80-124
67-66-3	Chloroform	50	55.5	111	79-125
74-87-3	Chloromethane	50	54.7	109	52-152
124-48-1	Dibromochloromethane	50	61.4	123	70-144
75-34-3	1,1-Dichloroethane	50	57.3	115	80-125
107-06-2	1,2-Dichloroethane	50	55.0	110	72-137
75-35-4	1,1-Dichloroethene	50	56.3	113	62-129
156-59-2	cis-1,2-Dichloroethene	50	53.6	107	70-132
156-60-5	trans-1,2-Dichloroethene	50	55.9	112	61-139
78-87-5	1,2-Dichloropropane	50	56.9	114	77-127
10061-01-5	cis-1,3-Dichloropropene	50	64.1	128	74-136
10061-02-6	trans-1,3-Dichloropropene	50	62.7	125	76-134
100-41-4	Ethylbenzene	50	59.8	120	76-131
591-78-6	2-Hexanone	50	60.7	121	65-140
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.6	113	74-136
75-09-2	Methylene chloride	50	57.7	115	67-140
100-42-5	Styrene	50	61.6	123	75-144
79-34-5	1,1,2,2-Tetrachloroethane	50	57.3	115	45-143
127-18-4	Tetrachloroethene	50	58.2	116	70-136
108-88-3	Toluene	50	58.4	117	70-132
71-55-6	1,1,1-Trichloroethane	50	59.3	119	82-124
79-00-5	1,1,2-Trichloroethane	50	56.8	114	80-131
79-01-6	Trichloroethene	50	57.7	115	69-138
75-01-4	Vinyl chloride	50	62.3	125	76-128
1330-20-7	Xylene (total)	150	182	121	72-133

Blank Spike Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG445-BS	G15842.D	1	02/28/02	PB	n/a	n/a	MSG445

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-1, M23702-2, M23702-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-122%
2037-26-5	Toluene-D8	99%	88-111%
460-00-4	4-Bromofluorobenzene	102%	82-115%

Blank Spike Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-BS	G15816.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	69.4	139	53-152
71-43-2	Benzene	50	51.9	104	72-130
75-27-4	Bromodichloromethane	50	56.3	113	76-134
75-25-2	Bromoform	50	58.1	116	53-160
74-83-9	Bromomethane	50	49.4	99	42-135
78-93-3	2-Butanone (MEK)	50	60.9	122	58-146
75-15-0	Carbon disulfide	50	65.0	130*	71-126
56-23-5	Carbon tetrachloride	50	65.0	130	73-138
108-90-7	Chlorobenzene	50	51.8	104	73-124
75-00-3	Chloroethane	50	54.7	109	80-124
67-66-3	Chloroform	50	57.5	115	79-125
74-87-3	Chloromethane	50	52.7	105	52-152
124-48-1	Dibromochloromethane	50	56.9	114	70-144
75-34-3	1,1-Dichloroethane	50	56.6	113	80-125
107-06-2	1,2-Dichloroethane	50	56.7	113	72-137
75-35-4	1,1-Dichloroethene	50	53.4	107	62-129
156-59-2	cis-1,2-Dichloroethene	50	50.1	100	70-132
156-60-5	trans-1,2-Dichloroethene	50	50.1	100	61-139
78-87-5	1,2-Dichloropropane	50	52.5	105	77-127
10061-01-5	cis-1,3-Dichloropropene	50	56.8	114	74-136
10061-02-6	trans-1,3-Dichloropropene	50	56.1	112	76-134
100-41-4	Ethylbenzene	50	53.7	107	76-131
591-78-6	2-Hexanone	50	54.6	109	65-140
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.6	103	74-136
75-09-2	Methylene chloride	50	55.1	110	67-140
100-42-5	Styrene	50	53.1	106	75-144
79-34-5	1,1,2,2-Tetrachloroethane	50	51.7	103	45-143
127-18-4	Tetrachloroethene	50	52.7	105	70-136
108-88-3	Toluene	50	52.8	106	70-132
71-55-6	1,1,1-Trichloroethane	50	60.9	122	82-124
79-00-5	1,1,2-Trichloroethane	50	51.9	104	80-131
79-01-6	Trichloroethene	50	54.1	108	69-138
75-01-4	Vinyl chloride	50	59.9	120	76-128
1330-20-7	Xylene (total)	150	162	108	72-133

Blank Spike Summary

Job Number: M23702
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG444-BS	G15816.D	1	02/27/02	PB	n/a	n/a	MSG444

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23702-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	83-122%
2037-26-5	Toluene-D8	99%	88-111%
460-00-4	4-Bromofluorobenzene	97%	82-115%

New England
ACCUTEST.

03/11/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23740

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

REVISED
3/11/02

REISSUED

Total number of pages in report: 29

ACCREDITED IN ACCORDANCE WITH nelac

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.

Reza Pand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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Accutest Laboratories

Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23740

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M23740-1	02/27/02	17:30 BS	03/01/02	AQ	Ground Water	CPT-43 (58.5-61)
M23740-2	02/27/02	16:35 BS	03/01/02	AQ	Ground Water	CPT-43 (40.5-43)
M23740-3	02/27/02	16:35 BS	03/01/02	AQ	Ground Water	CPT-43 (40.5-43)DUP
M23740-4	02/27/02	16:15 BS	03/01/02	AQ	Ground Water	CPT-43 (23-26)
M23740-5	02/13/02	16:05 BS	03/01/02	AQ	Trip Blank Water	T.B.-07
M23740-6	02/28/02	10:55 BS	03/01/02	AQ	Field Blank Water	E.B.-03
M23740-7	02/28/02	10:35 BS	03/01/02	AQ	Ground Water	CPT-42 (45-47)
M23740-8	02/28/02	10:13 BS	03/01/02	AQ	Ground Water	CPT-42 (30.8-32.8)
M23740-9	02/28/02	15:05 BS	03/01/02	AQ	Ground Water	CPT-72 (52-57)

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-43 (58.5-61)		
Lab Sample ID:	M23740-1	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15901.D	1	03/04/02	PB	n/a	n/a	MSG447
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	12.8	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-43 (58.5-61)		
Lab Sample ID:	M23740-1	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-129%
2037-26-5	Toluene-D8	97%		89-111%
460-00-4	4-Bromofluorobenzene	98%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-43 (40.5-43)		
Lab Sample ID:	M23740-2	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15902.D	1	03/04/02	PB	n/a	n/a	MSG447
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	0.60	1.0	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	3.7	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	0.85	1.0	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-43 (40.5-43)		
Lab Sample ID:	M23740-2	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-129%
2037-26-5	Toluene-D8	99%		89-111%
460-00-4	4-Bromofluorobenzene	98%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-43 (40.5-43)DUP		
Lab Sample ID:	M23740-3	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15903.D	1	03/04/02	PB	n/a	n/a	MSG447
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	0.71	1.0	ug/l	J J
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	3.7	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	0.91	1.0	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-43 (40.5-43)DUP		
Lab Sample ID:	M23740-3	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-129%
2037-26-5	Toluene-D8	99%		89-111%
460-00-4	4-Bromofluorobenzene	98%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-43 (23-26)		
Lab Sample ID:	M23740-4	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15904.D	1	03/04/02	PB	n/a	n/a	MSG447
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-43 (23-26)		
Lab Sample ID:	M23740-4	**Date Sampled:**	02/27/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-129%
2037-26-5	Toluene-D8	98%		89-111%
460-00-4	4-Bromofluorobenzene	99%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	T.B.-07		
Lab Sample ID:	M23740-5	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/01/02
Method:	SW846 8260B	***Percent Solids:***	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15898.D	1	03/04/02	PB	n/a	n/a	MSG447
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	0.52	1.0	ug/l	J
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	T.B.-07		
Lab Sample ID:	M23740-5	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-129%
2037-26-5	Toluene-D8	99%		89-111%
460-00-4	4-Bromofluorobenzene	98%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	E.B.-03		
Lab Sample ID:	M23740-6	**Date Sampled:**	02/28/02
Matrix:	AQ - Field Blank Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	*Downers Grove Site, Downers Grove, IL*		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15899.D	1	03/04/02	PB	n/a	n/a	MSG447
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	2.6	5.0	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	E.B.-03		
Lab Sample ID:	M23740-6	**Date Sampled:**	02/28/02
Matrix:	AQ - Field Blank Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-129%
2037-26-5	Toluene-D8	100%		89-111%
460-00-4	4-Bromofluorobenzene	99%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-42 (45-47)		
Lab Sample ID:	M23740-7	**Date Sampled:**	02/28/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15905.D	1	03/04/02	PB	n/a	n/a	MSG447
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	2.9	5.0	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-42 (45-47)		
Lab Sample ID:	M23740-7	**Date Sampled:**	02/28/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-129%
2037-26-5	Toluene-D8	100%		89-111%
460-00-4	4-Bromofluorobenzene	98%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-42 (30.8-32.8)		
Lab Sample ID:	M23740-8	**Date Sampled:**	02/28/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15906.D	1	03/04/02	PB	n/a	n/a	MSG447
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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-42 (30.8-32.8)		
Lab Sample ID:	M23740-8	**Date Sampled:**	02/28/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-129%
2037-26-5	Toluene-D8	99%		89-111%
460-00-4	4-Bromofluorobenzene	98%		81-119%

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:	CPT-72 (52-57)		
Lab Sample ID:	M23740-9	**Date Sampled:**	02/28/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G15907.D	1	03/04/02	PB	n/a	n/a	MSG447
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	4.2	5.0	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	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	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	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	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	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:	CPT-72 (52-57)		
Lab Sample ID:	M23740-9	**Date Sampled:**	02/28/02
Matrix:	AQ - Ground Water	**Date Received:**	03/01/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-129%
2037-26-5	Toluene-D8	98%		89-111%
460-00-4	4-Bromofluorobenzene	99%		81-119%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23740
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23740-1	G15901.D	106.0	97.0	98.0
M23740-2	G15902.D	107.0	99.0	98.0
M23740-3	G15903.D	107.0	99.0	98.0
M23740-4	G15904.D	109.0	98.0	99.0
M23740-5	G15898.D	105.0	99.0	98.0
M23740-6	G15899.D	105.0	100.0	99.0
M23740-7	G15905.D	108.0	100.0	98.0
M23740-8	G15906.D	109.0	99.0	98.0
M23740-9	G15907.D	109.0	98.0	99.0
M23740-1MS	G15895.D	101.0	99.0	99.0
M23740-1MSD	G15896.D	101.0	99.0	100.0
MSG447-BS	G15894.D	102.0	99.0	102.0
MSG447-MB	G15900.D	107.0	99.0	99.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-129%
S2 = Toluene-D8	89-111%
S3 = 4-Bromofluorobenzene	81-119%

Method Blank Summary

Job Number: M23740
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG447-MB	G15900.D	1	03/04/02	PB	n/a	n/a	MSG447

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23740-1, M23740-2, M23740-3, M23740-4, M23740-5, M23740-6, M23740-7, M23740-8, M23740-9

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23740
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG447-MB	G15900.D	1	03/04/02	PB	n/a	n/a	MSG447

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23740-1, M23740-2, M23740-3, M23740-4, M23740-5, M23740-6, M23740-7, M23740-8, M23740-9

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	83-129%
2037-26-5	Toluene-D8	99%	89-111%
460-00-4	4-Bromofluorobenzene	99%	81-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23740
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23740-1MS	G15895.D	5	03/04/02	PB	n/a	n/a	MSG447
M23740-1MSD	G15896.D	5	03/04/02	PB	n/a	n/a	MSG447
M23740-1	G15901.D	1	03/04/02	PB	n/a	n/a	MSG447

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23740-1, M23740-2, M23740-3, M23740-4, M23740-5, M23740-6, M23740-7, M23740-8, M23740-9

CAS No.	Compound	M23740-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	12.8		250	284	108	298	114	5	59-164/30
71-43-2	Benzene	ND		250	222	89	221	88	0	73-126/30
75-27-4	Bromodichloromethane	ND		250	250	100	247	99	1	76-133/30
75-25-2	Bromoform	ND		250	275	110	285	114	4	55-133/30
74-83-9	Bromomethane	ND		250	187	75	191	76	2	52-142/30
78-93-3	2-Butanone (MEK)	ND		250	253	101	264	106	4	60-148/30
75-15-0	Carbon disulfide	ND		250	233	93	236	94	1	48-157/30
56-23-5	Carbon tetrachloride	ND		250	260	104	258	103	1	72-144/30
108-90-7	Chlorobenzene	ND		250	232	93	235	94	1	74-120/30
75-00-3	Chloroethane	ND		250	202	81	208	83	3	66-154/30
67-66-3	Chloroform	ND		250	228	91	230	92	1	75-145/30
74-87-3	Chloromethane	ND		250	194	78	197	79	2	46-172/30
124-48-1	Dibromochloromethane	ND		250	267	107	270	108	1	69-128/30
75-34-3	1,1-Dichloroethane	ND		250	228	91	231	92	1	72-159/30
107-06-2	1,2-Dichloroethane	ND		250	247	99	245	98	1	79-135/30
75-35-4	1,1-Dichloroethene	ND		250	204	82	197	79	3	59-143/30
156-59-2	cis-1,2-Dichloroethene	ND		250	209	84	208	83	0	72-137/30
156-60-5	trans-1,2-Dichloroethene	ND		250	205	82	210	84	2	70-147/30
78-87-5	1,2-Dichloropropane	ND		250	232	93	232	93	0	77-128/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	257	103	261	104	2	69-125/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	260	104	264	106	2	70-136/30
100-41-4	Ethylbenzene	ND		250	234	94	239	96	2	79-131/30
591-78-6	2-Hexanone	ND		250	254	102	265	106	4	66-122/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	245	98	252	101	3	64-134/30
75-09-2	Methylene chloride	ND		250	229	92	232	93	1	73-154/30
100-42-5	Styrene	ND		250	243	97	246	98	1	71-122/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	247	99	259	104	5	70-125/30
127-18-4	Tetrachloroethene	ND		250	220	88	219	88	0	62-135/30
108-88-3	Toluene	ND		250	224	90	227	91	1	73-124/30
71-55-6	1,1,1-Trichloroethane	ND		250	236	94	233	93	1	79-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	236	94	239	96	1	80-125/30
79-01-6	Trichloroethene	ND		250	221	88	222	89	0	71-127/30
75-01-4	Vinyl chloride	ND		250	206	82	215	86	4	59-164/30
1330-20-7	Xylene (total)	ND		750	710	95	710	95	0	77-132/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23740
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23740-1MS	G15895.D	5	03/04/02	PB	n/a	n/a	MSG447
M23740-1MSD	G15896.D	5	03/04/02	PB	n/a	n/a	MSG447
M23740-1	G15901.D	1	03/04/02	PB	n/a	n/a	MSG447

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23740-1, M23740-2, M23740-3, M23740-4, M23740-5, M23740-6, M23740-7, M23740-8, M23740-9

CAS No.	Surrogate Recoveries	MS	MSD	M23740-1	Limits
1868-53-7	Dibromofluoromethane	101%	101%	106%	83-129%
2037-26-5	Toluene-D8	99%	99%	97%	89-111%
460-00-4	4-Bromofluorobenzene	99%	100%	98%	81-119%

Blank Spike Summary

Job Number: M23740
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG447-BS	G15894.D	1	03/04/02	PB	n/a	n/a	MSG447

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23740-1, M23740-2, M23740-3, M23740-4, M23740-5, M23740-6, M23740-7, M23740-8, M23740-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	58.1	116	51-153
71-43-2	Benzene	50	55.0	110	71-126
75-27-4	Bromodichloromethane	50	60.0	120	70-138
75-25-2	Bromoform	50	62.2	124	70-132
74-83-9	Bromomethane	50	49.8	100	46-133
78-93-3	2-Butanone (MEK)	50	57.1	114	54-150
75-15-0	Carbon disulfide	50	63.6	127	39-158
56-23-5	Carbon tetrachloride	50	66.8	134	59-149
108-90-7	Chlorobenzene	50	55.3	111	73-119
75-00-3	Chloroethane	50	56.4	113	55-151
67-66-3	Chloroform	50	58.0	116	65-143
74-87-3	Chloromethane	50	52.3	105	32-163
124-48-1	Dibromochloromethane	50	61.5	123	73-132
75-34-3	1,1-Dichloroethane	50	58.7	117	61-154
107-06-2	1,2-Dichloroethane	50	57.8	116	67-142
75-35-4	1,1-Dichloroethene	50	54.2	108	54-138
156-59-2	cis-1,2-Dichloroethene	50	52.7	105	59-142
156-60-5	trans-1,2-Dichloroethene	50	54.3	109	58-145
78-87-5	1,2-Dichloropropane	50	55.8	112	68-132
10061-01-5	cis-1,3-Dichloropropene	50	61.8	124	62-137
10061-02-6	trans-1,3-Dichloropropene	50	61.6	123	65-144
100-41-4	Ethylbenzene	50	56.6	113	69-134
591-78-6	2-Hexanone	50	55.0	110	57-136
108-10-1	4-Methyl-2-pentanone (MIBK)	50	54.5	109	63-138
75-09-2	Methylene chloride	50	59.5	119	59-149
100-42-5	Styrene	50	57.5	115	66-130
79-34-5	1,1,2,2-Tetrachloroethane	50	56.4	113	60-133
127-18-4	Tetrachloroethene	50	54.4	109	55-140
108-88-3	Toluene	50	55.7	111	71-123
71-55-6	1,1,1-Trichloroethane	50	62.2	124	60-152
79-00-5	1,1,2-Trichloroethane	50	53.2	106	74-129
79-01-6	Trichloroethene	50	56.2	112	71-129
75-01-4	Vinyl chloride	50	59.2	118	47-153
1330-20-7	Xylene (total)	150	169	113	67-135

Blank Spike Summary

Job Number: M23740
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG447-BS	G15894.D	1	03/04/02	PB	n/a	n/a	MSG447

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23740-1, M23740-2, M23740-3, M23740-4, M23740-5, M23740-6, M23740-7, M23740-8, M23740-9

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-129%
2037-26-5	Toluene-D8	99%	89-111%
460-00-4	4-Bromofluorobenzene	102%	81-119%

Reza Tand

From: Scott Parsick
Sent: Monday, March 11, 2002 9:36 AM
To: Reza Tand

Reza Ben of Roy Weston called to say that M23740-4 was reported with "Dupe" after sample I.D. which was not on C.O.C. please re-issue the report.

S.P.

New England ACCUTEST

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Roy F. Weston, Inc. of Michigan

03/14/02

Technical Report for

Roy F. Weston, Inc. of Illinois

Downers Grove Site, Downers Grove, IL

0111-010

Accutest Job Number: M23767

Report to:

Roy F. Weston, Inc. of Michigan
2501 Jolly Rd.,
Suite 100
Okemos, MI 48864

ATTN: Linda Korobka

Total number of pages in report: 16

Accredited in accordance with nelac

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.

Reza Fand
Lab Director

Certifications: MA (MA136) CT (PH-0109) NH (250293) RI (A-71) ME (MA136) USACE

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Sample Summary

Roy F. Weston, Inc. of Illinois

Job No: M23767

Downers Grove Site, Downers Grove, IL
Project No: 0111-010

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M23767-1	02/13/02	16:05 RS	03/04/02	AQ	Trip Blank Water	TB-08
M23767-2	03/01/02	11:45 BJS	03/04/02	AQ	Ground Water	CPT-40 (40-45)
M23767-3	03/01/02	16:55 BJS	03/04/02	AQ	Ground Water	CPT-71 (25-30)

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-08		
Lab Sample ID:	M23767-1	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/04/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G16015.D	1	03/07/02	PB	n/a	n/a	MSG452
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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

3/15/02

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:	TB-08		
Lab Sample ID:	M23767-1	**Date Sampled:**	02/13/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/04/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-129%
2037-26-5	Toluene-D8	99%		89-111%
460-00-4	4-Bromofluorobenzene	100%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-40 (40-45)		
Lab Sample ID:	M23767-2	**Date Sampled:**	03/01/02
Matrix:	AQ - Ground Water	**Date Received:**	03/04/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G16016.D	1	03/07/02	PB	n/a	n/a	MSG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	19.3	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

3/18/02

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:	CPT-40 (40-45)		
Lab Sample ID:	M23767-2	**Date Sampled:**	03/01/02
Matrix:	AQ - Ground Water	**Date Received:**	03/04/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-129%
2037-26-5	Toluene-D8	99%		89-111%
460-00-4	4-Bromofluorobenzene	102%		81-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CPT-71 (25-30)		
Lab Sample ID:	M23767-3	**Date Sampled:**	03/01/02
Matrix:	AQ - Ground Water	**Date Received:**	03/04/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G16017.D	1	03/07/02	PB	n/a	n/a	MSG452
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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

3/18/02

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:	CPT-71 (25-30)		
Lab Sample ID:	M23767-3	**Date Sampled:**	03/01/02
Matrix:	AQ - Ground Water	**Date Received:**	03/04/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Downers Grove Site, Downers Grove, IL		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-129%
2037-26-5	Toluene-D8	99%		89-111%
460-00-4	4-Bromofluorobenzene	102%		81-119%

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

1. QUALITY CONTROL

2. CHAIN OF CUSTODY

Volatile Surrogate Recovery Summary

Job Number: M23767
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M23767-1	G16015.D	109.0	99.0	100.0
M23767-2	G16016.D	110.0	99.0	102.0
M23767-3	G16017.D	110.0	99.0	102.0
M23767-3MS	G16022.D	108.0	98.0	100.0
M23767-3MSD	G16023.D	110.0	99.0	99.0
MSG452-BS	G16008.D	104.0	99.0	100.0
MSG452-MB	G16012.D	109.0	99.0	103.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-129%
S2 = Toluene-D8	89-111%
S3 = 4-Bromofluorobenzene	81-119%

Method Blank Summary

Job Number: M23767
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG452-MB	G16012.D	1	03/07/02	PB	n/a	n/a	MSG452

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23767-1, M23767-2, M23767-3

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	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	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	2.0	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	2.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	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	2.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M23767
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG452-MB	G16012.D	1	03/07/02	PB	n/a	n/a	MSG452

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23767-1, M23767-2, M23767-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	83-129%
2037-26-5	Toluene-D8	99%	89-111%
460-00-4	4-Bromofluorobenzene	103%	81-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23767
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23767-3MS	G16022.D	5	03/07/02	PB	n/a	n/a	MSG452
M23767-3MSD	G16023.D	5	03/07/02	PB	n/a	n/a	MSG452
M23767-3	G16017.D	1	03/07/02	PB	n/a	n/a	MSG452

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23767-1, M23767-2, M23767-3

CAS No.	Compound	M23767-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	293	117	264	106	10	59-164/30
71-43-2	Benzene	ND		250	233	93	228	91	2	73-126/30
75-27-4	Bromodichloromethane	ND		250	238	95	233	93	2	76-133/30
75-25-2	Bromoform	ND		250	241	96	240	96	0	55-133/30
74-83-9	Bromomethane	ND		250	234	94	238	95	2	52-142/30
78-93-3	2-Butanone (MEK)	ND		250	262	105	251	100	4	60-148/30
75-15-0	Carbon disulfide	ND		250	278	111	286	114	3	48-157/30
56-23-5	Carbon tetrachloride	ND		250	237	95	236	94	0	72-144/30
108-90-7	Chlorobenzene	ND		250	241	96	240	96	0	74-120/30
75-00-3	Chloroethane	ND		250	245	98	245	98	0	66-154/30
67-66-3	Chloroform	ND		250	265	106	265	106	0	75-145/30
74-87-3	Chloromethane	ND		250	243	97	239	96	2	46-172/30
124-48-1	Dibromochloromethane	ND		250	246	98	244	98	1	69-128/30
75-34-3	1,1-Dichloroethane	ND		250	271	108	274	110	1	72-159/30
107-06-2	1,2-Dichloroethane	ND		250	253	101	252	101	0	79-135/30
75-35-4	1,1-Dichloroethene	ND		250	256	102	255	102	0	59-143/30
156-59-2	cis-1,2-Dichloroethene	ND		250	226	90	225	90	0	72-137/30
156-60-5	trans-1,2-Dichloroethene	ND		250	264	106	272	109	3	70-147/30
78-87-5	1,2-Dichloropropane	ND		250	240	96	235	94	2	77-128/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	228	91	225	90	1	69-125/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	244	98	237	95	3	70-136/30
100-41-4	Ethylbenzene	ND		250	235	94	232	93	1	79-131/30
591-78-6	2-Hexanone	ND		250	224	90	210	84	6	66-122/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	222	89	212	85	5	64-134/30
75-09-2	Methylene chloride	ND		250	274	110	279	112	2	73-154/30
100-42-5	Styrene	ND		250	230	92	231	92	0	71-122/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	263	105	255	102	3	70-125/30
127-18-4	Tetrachloroethene	ND		250	239	96	234	94	2	62-135/30
108-88-3	Toluene	ND		250	230	92	226	90	2	73-124/30
71-55-6	1,1,1-Trichloroethane	ND		250	245	98	244	98	0	79-145/30
79-00-5	1,1,2-Trichloroethane	ND		250	235	94	227	91	3	80-125/30
79-01-6	Trichloroethene	ND		250	231	92	227	91	2	71-127/30
75-01-4	Vinyl chloride	ND		250	273	109	275	110	1	59-164/30
1330-20-7	Xylene (total)	ND		750	735	98	726	97	1	77-132/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M23767
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M23767-3MS	G16022.D	5	03/07/02	PB	n/a	n/a	MSG452
M23767-3MSD	G16023.D	5	03/07/02	PB	n/a	n/a	MSG452
M23767-3	G16017.D	1	03/07/02	PB	n/a	n/a	MSG452

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23767-1, M23767-2, M23767-3

CAS No.	Surrogate Recoveries	MS	MSD	M23767-3	Limits
1868-53-7	Dibromofluoromethane	108%	110%	110%	83-129%
2037-26-5	Toluene-D8	98%	99%	99%	89-111%
460-00-4	4-Bromofluorobenzene	100%	99%	102%	81-119%

Blank Spike Summary

Job Number: M23767
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG452-BS	G16008.D	1	03/07/02	PB	n/a	n/a	MSG452

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23767-1, M23767-2, M23767-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	63.6	127	51-153
71-43-2	Benzene	50	54.7	109	71-126
75-27-4	Bromodichloromethane	50	55.4	111	70-138
75-25-2	Bromoform	50	55.6	111	70-132
74-83-9	Bromomethane	50	52.2	104	46-133
78-93-3	2-Butanone (MEK)	50	58.0	116	54-150
75-15-0	Carbon disulfide	50	61.4	123	39-158
56-23-5	Carbon tetrachloride	50	55.8	112	59-149
108-90-7	Chlorobenzene	50	56.4	113	73-119
75-00-3	Chloroethane	50	53.1	106	55-151
67-66-3	Chloroform	50	60.1	120	65-143
74-87-3	Chloromethane	50	53.4	107	32-163
124-48-1	Dibromochloromethane	50	56.8	114	73-132
75-34-3	1,1-Dichloroethane	50	58.9	118	61-154
107-06-2	1,2-Dichloroethane	50	58.7	117	67-142
75-35-4	1,1-Dichloroethene	50	56.2	112	54-138
156-59-2	cis-1,2-Dichloroethene	50	52.5	105	59-142
156-60-5	trans-1,2-Dichloroethene	50	58.2	116	58-145
78-87-5	1,2-Dichloropropane	50	56.3	113	68-132
10061-01-5	cis-1,3-Dichloropropene	50	54.8	110	62-137
10061-02-6	trans-1,3-Dichloropropene	50	59.2	118	65-144
100-41-4	Ethylbenzene	50	55.0	110	69-134
591-78-6	2-Hexanone	50	52.9	106	57-136
108-10-1	4-Methyl-2-pentanone (MIBK)	50	52.1	104	63-138
75-09-2	Methylene chloride	50	61.2	122	59-149
100-42-5	Styrene	50	55.4	111	66-130
79-34-5	1,1,2,2-Tetrachloroethane	50	59.0	118	60-133
127-18-4	Tetrachloroethene	50	55.9	112	55-140
108-88-3	Toluene	50	54.8	110	71-123
71-55-6	1,1,1-Trichloroethane	50	56.2	112	60-152
79-00-5	1,1,2-Trichloroethane	50	54.9	110	74-129
79-01-6	Trichloroethene	50	53.2	106	71-129
75-01-4	Vinyl chloride	50	60.8	122	47-153
1330-20-7	Xylene (total)	150	168	112	67-135

Blank Spike Summary

Job Number: M23767
Account: WESTONIL Roy F. Weston, Inc. of Illinois
Project: Downers Grove Site, Downers Grove, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG452-BS	G16008.D	1	03/07/02	PB	n/a	n/a	MSG452

The QC reported here applies to the following samples: **Method:** SW846 8260B

M23767-1, M23767-2, M23767-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-129%
2037-26-5	Toluene-D8	99%	89-111%
460-00-4	4-Bromofluorobenzene	100%	81-119%

OTHER RESULTS

DATE: March 1, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Ellsworth Industrial Park

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
30212	A4 Scientific	7	E00M1	Water

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

RECEIVED
MAR 0 4 2002
IEPA BOL-FOS

MAR 01 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: February 28, 2002

SUBJECT: Electronic (**Level 2**) Review of Data

Received for Review on February 22, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: Ellsworth Industrial Park (IL)

CASE NUMBER: 30212 SDG NUMBER: E00M1

Number and Type of Samples: 7 (water)

Sample Numbers: E00M1-7

Laboratory: A4 Scientific Hrs. for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

MAR 2002

Case Number :30212
Site Name: Ellsworth Industrial Park (IL)

SDG Number:E00M1
Laboratory:A4 Scientific

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Seven (7) water samples, numbered *E00M1* through *E00M7*, were collected on *February 12 thru 14, 2002*. The lab received the samples on *February 14 and 15, 2002* in good condition. All samples were analyzed only for volatile organic analytes. All were analyzed according to CLP SOW *OLM03.2* 5/99.

Case Number :30212
Site Name: Ellsworth Industrial Park (IL)

SDG Number:E00M1
Laboratory:A4 Scientific

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found

3. CALIBRATION

DC-5 The following volatile samples are associated with a continuing calibration whose corr esponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Methyl Acetate
E00M1, E00M2, E00M2MS, E00M2MSD, E00M3, E00M4, E00M5, E00M6, E00M7, VBLK71, VBLK72, VBLK74, VHBLK01

DC-7 The following volatile samples are associated with a continuing calibration whose corr esponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Methylene Chloride
E00M1, E00M2, E00M2MS, E00M2MSD, E00M3, E00M4, E00M5, E00M6, E00M7, VBLK71, VBLK72, VBLK74, VHBLK01

DC-8 The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Methylene Chloride
E00M4, E00M5, E00M6, E00M7, VBLK74, VHBLK01

Methylcyclohexane
E00M1, E00M2, E00M3, VBLK71

Styrene
E00M1, E00M2, E00M3, VBLK71

Isopropylbenzene
E00M1, E00M2, E00M3, VBLK71

DC-9 The following volatile samples are associated with a continuing calibration relative response factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Methyl Acetate
E00M1, E00M2, E00M2MS, E00M2MSD, E00M3, E00M4, E00M5, E00M6, E00M7, VBLK71, VBLK72, VBLK74, VHBLK01

4. BLANKS

No defects found

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

ase Number :30212
ite Name: Ellsworth Industrial Park (IL)

SDG Number:E00M1
Laboratory:A4 Scientific

DC-3 The following volatile samples have DMC recoveries above the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E00M3

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects found

7. FIELD BLANK AND FIELD DUPLICATE

Sample *E00M7* is a field blank. Sample *E00M6* is a trip blank. Results are not qualified based upon the esults of the field blank or field duplicates.

8. INTERNAL STANDARDS

No defects found

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

DC-1 The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00M1
Methylene Chloride, 1,1,1-Trichloroethane

E00M2
Methylene Chloride

E00M3
Methylene Chloride, 1,1,1-Trichloroethane, Toluene

E00M4
Tetrachloroethene

E00M5
Tetrachloroethene

VBLK74
1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

None.

Level 2 - Assembled By: Richard Baltrus/IITRI-ESAT
Date: February 28, 2002

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 30212 SDG : E00M1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 7

Sample Number :	E00M1		E00M2		E00M2MS		E00M2MSD		E00M3	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	2/12/2002		2/12/2002		2/12/2002		2/12/2002		2/13/2002	
Time Sampled :	11:40		15:40		15:40		15:40		11:20	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	0.5	U	0.5	U	4		4		0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	5	U	5	U	5	U	5	U	5	U
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl Acetate	0.5	R	0.5	R	0.5	R	0.5	R	0.5	R
Methylene Chloride	0.2	J	0.2	J	0.7	J	0.8	J	0.3	J
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl Methyl Ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.7	J
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.2	J	0.5	U	0.5	U	0.5	U	0.4	J
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	4		5		0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	0.5	U	5		5		0.5	U
Methylcyclohexane	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	UJ
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.5	U	0.5	U	5		5		0.2	J
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

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Analytical Results (Qualified Data)

Case #: 30212 SDG : E00M1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

Sample Number :	E00M1		E00M2		E00M2MS		E00M2MSD		E00M3	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	2/12/2002		2/12/2002		2/12/2002		2/12/2002		2/13/2002	
Time Sampled :	11:40		15:40		15:40		15:40		11:20	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	6		6		0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes (total)	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	UJ
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	UJ
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Analytical Results (Qualified Data)

Case #: 30212 SDG : E00M1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

Sample Number :	E00M4		E00M5		E00M6		E00M7		VBLK71	
Sampling Location :	G105		G155		TRIP BLANK		FIELD BLANK			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	2/14/2002		2/14/2002		2/14/2002		2/14/2002			
Time Sampled :	11:30		11:30		11:50		11:50			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	5	U	5	U	5	U	5	U	5	U
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl Acetate	0.5	R	0.5	R	0.5	R	0.5	R	0.5	R
Methylene Chloride	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl Methyl Ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	0.5	U	0.8		0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylcyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.5	U	0.5	U	0.5	U	2		0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

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Analytical Results (Qualified Data)

Case #: 30212
SDG : E00M1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

Sample Number :	E00M4		E00M5		E00M6		E00M7		VBLK71	
Sampling Location :	G105		G155		TRIP BLANK		FIELD BLANK			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	2/14/2002		2/14/2002		2/14/2002		2/14/2002			
Time Sampled :	11:30		11:30		11:50		11:50			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.3	J	0.3	J	0.5	U	0.5	U	0.5	U
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes (total)	0.5	U	0.5	U	0.5	U	0.9		0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Analytical Results (Qualified Data)

Case #: 30212 SDG : E00M1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

Sample Number :	VBLK72		VBLK74		VHBLK01					
Sampling Location :										
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U				
Chloromethane	0.5	U	0.5	U	0.5	U				
Vinyl Chloride	0.5	U	0.5	U	0.5	U				
Bromomethane	0.5	U	0.5	U	0.5	U				
Chloroethane	0.5	U	0.5	U	0.5	U				
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U				
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U				
Acetone	5	U	5	U	5	U				
Carbon Disulfide	0.5	U	0.5	U	0.5	U				
Methyl Acetate	0.5	R	0.5	R	0.5	R				
Methylene Chloride	0.5	UJ	0.5	UJ	0.5	UJ				
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U				
tert-Butyl Methyl Ether	0.5	U	0.5	U	0.5	U				
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U				
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U				
2-Butanone	5	U	5	U	5	U				
Bromochloromethane	0.5	U	0.5	U	0.5	U				
Chloroform	0.5	U	0.5	U	0.5	U				
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U				
Cyclohexane	0.5	U	0.5	U	0.5	U				
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U				
Benzene	0.5	U	0.5	U	0.5	U				
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U				
Trichloroethene	0.5	U	0.5	U	0.5	U				
Methylcyclohexane	0.5	U	0.5	U	0.5	U				
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U				
Bromodichloromethane	0.5	U	0.5	U	0.5	U				
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U				
4-Methyl-2-pentanone	5	U	5	U	5	U				
Toluene	0.5	U	0.5	U	0.5	U				
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U				
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U				

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 30212 SDG : E00M1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

Sample Number :	VBLK72		VBLK74		VHBLK01					
Sampling Location :										
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U	0.5	U	0.5	U				
2-Hexanone	5	U	5	U	5	U				
Dibromochloromethane	0.5	U	0.5	U	0.5	U				
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U				
Chlorobenzene	0.5	U	0.5	U	0.5	U				
Ethylbenzene	0.5	U	0.5	U	0.5	U				
Xylenes (total)	0.5	U	0.5	U	0.5	U				
Styrene	0.5	U	0.5	U	0.5	U				
Bromoform	0.5	U	0.5	U	0.5	U				
Isopropylbenzene	0.5	U	0.5	U	0.5	U				
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U				
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U				
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U				
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U				
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U				
1,2,4-Trichlorobenzene	0.5	U	0.3	J	0.5	U				
1,2,3-Trichlorobenzene	0.5	U	0.3	J	0.5	U				

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 2-22-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELLSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 30212 SDG NUMBER: E00H1

Number and Type of Samples: 7 (WATER)

Sample Numbers: E00H1-7

Laboratory: A2L SCIENTIFIC Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: **E00M1**

Laboratory Name: **A4 Scientific, Inc.**

Laboratory Code: **A4**

Contract No.: **68W01038**

Case No.: **30212**

Analysis Price: **$ 460.00**

SDG Turnaround: **7 days**

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E00M1	7) E00M7	13)	19)
2) E00M2	8)	14)	20)
3) E00M3	9)	15)	21)
4) E00M4	10)	16)	22)
5) E00M5	11)	17)	23)
6) E00M6	12)	18)	24)

E00M1	E00M7
First Sample in SDG	Last Sample in SDG
02/14/02	02/15/02
First Sample Receipt Date	Last Sample Receipt Date

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature Smita Sheeni Date 02/17/02

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30212
DAS No:
SDG No: E00M1

L

Date Shipped: 2/14/02 Carrier Name: FedEx Airbill: 832620621158 Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Date Received/Received by: Carlos Pinir 02/15/02 Lab Contract No: 68W01038 Unit Price: $460.00 Transfer To: Date Received/Received By: SS 02/17 Lab Contract No: Price:	Sampler (Signature): Paul Mason Relinquished By: Paul Mason Relinquished By: Relinquished By:	Date / Time: 2-14-02 14:00 Date / Time: Date / Time:
			Received By: Received By: Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00M4	Ground Water/ Paul Mason	L/G	VOA (21)	5100601 (HCL), 5100602 (HCL), 5100603 (HCL), 5100604 (HCL), 5100605 (HCL) (5)	G105	2/14/02 11:30		
E00M5	Ground Water/ Paul Mason	L/G	VOA (21)	5100606 (HCL), 5100607 (HCL), 5100608 (HCL), 5100609 (HCL), 5100610 (HCL) (5)	G155	2/14/02 11:30		
E00M6	Ground Water/ Paul Mason	L/G	VOA (21)	5100611 (HCL), 5100612 (HCL) (2)	Trip Blank	2/14/02 11:50		
E00M7	Ground Water/ Paul Mason	L/G	VOA (21)	5100613 (HCL), 5100614 (HCL), 5100615 (HCL), 5100616 (HCL), 5100617 (HCL) (5)	Field Blank	2/14/02 11:50		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3C	Chain of Custody Seal Number: 26010
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designat: Composite = C, Grab = G	Custody Seal Intact: Y	Shipment Iced: Y

CASE 30212 SDG E00M1

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-285846426-021402-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 30212
DAS No:
SDG No: E00M1

L

Date Shipped: 2/13/02 **Carrier Name:** FedEx **Airbill:** 832620621169 **Shipped to:** A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	**Date Received/Received by:** Carlos Ruiz 2-14-02 **Lab Contract No:** 68D00038 **Unit Price:** $460.00 **Transfer To:** **Date Received/Received By:** SS 02/17 **Lab Contract No:** **Price:**	**Sampler (Signature):**	
		Relinquished By:	**Date / Time:** 2-13-02 17:42 / **Received By:**
		Relinquished By:	**Date / Time:** / **Received By:**
		Relinquished By:	**Date / Time:** / **Received By:**

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00M1	Ground Water/ Paul Mason	L/G	VOA (21)	5100576 (HCL), 5100577 (HCL), 5100578 (HCL), 5100579 (HCL), 5100580 (HCL) (5)	G101	2/12/02 11:40		
E00M2	Ground Water/ Paul Mason	L/G	VOA (21)	5100581 (HCL), 5100582 (HCL), 5100583 (HCL), 5100584 (HCL), 5100585 (HCL), 5100586 (HCL), 5100587 (HCL), 5100588 (HCL), 5100589 (HCL), 5100590 (HCL), 5100591 (HCL), 5100592 (HCL), 5100593 (HCL), 5100594 (HCL), 5100595 (HCL) (15)	G102	2/12/02 15:40		
E00M3	Ground Water/ Paul Mason	L/G	VOA (21)	5100596 (HCL), 5100597 (HCL), 5100598 (HCL), 5100599 (HCL), 5100600 (HCL) (5)	G103	2/13/02 11:20		

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** E00M2	**Additional Sampler Signature(s):**	**Cooler Temperature Upon Receipt:** 3C	**Chain of Custody Seal Number:** ~~26009~~ 26009 SS 02/
Analysis Key: VOA = CLP TCL Volatiles	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designat:** Composite = C, Grab = G	**Custody Seal Intact:**	**Shipment Iced**

CASE 30212 SDG E00M1

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-285846426-021302-0001

A4 SCIENTIFIC, INC.
1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

FEB 2 2 2002

Contract #: 68W01038	Case #: 30212	SDG #: E00M1

SDG NARRATIVE

SAMPLE RECEIPT & LOGIN:

The following samples were received on the dates listed against them.

EPA SAMPLE #	LAB SAMPLE #	DATE /TIME RECEIVED	AIRBILL NO.	VOA	BNA	PEST	REMARKS
E00M1	1349.002	02/14/02 16:00	832620621169	x			
E00M2	1349.003	02/14/02 16:00	832620621169	x			MS/MSD
E00M3	1349.004	02/14/02 16:00	832620621169	x			
E00M4	1355.001	02/15/02 12:30	832620621158	x			
E00M5	1355.002	02/15/02 12:30	832620621158	x			
E00M6	1355.003	02/15/02 12:30	832620621158	x			
E00M7	1355.004	02/15/02 12:30	832620621158	x			

The cooler temperature was 3.0°C. This CASE was requested for 7-day TAT; on the TR/COC it was marked as 21-day TAT. The lab notified SMO about this issue and resolved that this case is for 7 day TAT. No other discrepancies or issues were noted during sample receipt and login.

VOLATILES:

All samples were analyzed on a HP5973 GC-MS using a 60-meter RTX-624 column having a 0.32mm ID and 1.8µm film thickness. An ENCON Purge and Trap with an Archon autosampler was used. The trap used was an OV-1/Tenax/Silica Gel/Charcoal (equivalent to Tekmar #5). A 25mL purge volume was used for all samples, blanks, and standards.

The pH of all samples was < 2 standard units.

MS/MSD was performed for the sample E00M2.

Manual integrations were performed for the following sample for the compound listed against them.

E00M1 – Xylene (total)

These manual integrations were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration, the scan ranges, and initials of the operator or manager is included in the data package.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

Jennifer Sheerie / QC Coordinator
Signature and Title

02/21/02
Date of Signature

001

Sumitra

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: <sumitra@a4scientific.com>
Cc: <EPA4219@epa.state.il.us>; "Bob Casper (E-mail)" <epa4407@epa.state.il.us>; "Howard Pham (E-mail)" <pham.howard@epa.gov>
Sent: Tuesday, February 19, 2002 1:03 PM
Subject: Region 05 | Case 30212 | Lab A4 | Issue TR/COC discrepancy - sample level | FINAL

Hi Sumitra,

Per Region 5, please proceed with using a 7-day TAT for Case 30212. Please note the TR/COC discrepancy in the Case narrative and proceed.

Thanks,
Jessica

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Tuesday, February 19, 2002 1:26 PM
To: Brown, Jessica
Subject: Re: Region 05 | Case 30212 | Lab A4 | Issue TR/COC discrepancy - sample level

HI Jessica,
It is OK for 7 day TAT. Please advise the lab and procced the analyses.
Thanks,
Howard Pham

-----Original Message-----
From: Brown, Jessica
Sent: Tuesday, February 19, 2002 12:51 PM
To: Howard Pham (E-mail)
Subject: Region 05 | Case 30212 | Lab A4 | Issue TR/COC discrepancy - sample level
Importance: High

Hi Howard,

The lab is still waiting on a response for this issue. Please advise on how the lab should proceed as quickly as possible.

Jessica

-----Original Message-----
From: Brown, Jessica
Sent: Tuesday, February 19, 2002 9:22 AM
To: Howard Pham (E-mail)
Subject: Region 05 | Case 30212 | Lab A4 | Issue TR/COC discrepancy - sample level

Hi Howard,

Per Jerry Willman, the TAT for Case 30212 is 7-days. Please advise on how the lab should proceed.

Thanks,
Jessica

-----Original Message-----
From: Jerry Willman [mailto:EPA4219@epa.state.il.us]
Sent: Tuesday, February 19, 2002 9:18 AM
To: Brown, Jessica
Subject: Re: Region 05 | Case 30212 | Lab A4 | Issue TR/COC discrepancy - sample level

Good Morning Jessica:
Please proceed with 7 day turn around times. The 24 hr turn around times on the TR/COC forms was a mistake on my part. Sorry for the confusion.
Thanks,
Jerry Willman
217-524-6363

-----Original Message-----
From: Brown, Jessica
Sent: Monday, February 18, 2002 10:53 AM
To: Bob Casper (E-mail); Howard Pham (E-mail)
Subject: Region 05 | Case 30212 | Lab A4 | Issue TR/COC discrepancy - sample level

Hi Bob,

The following is an e-mail from A4 concerning Case 30212. The Case was requested for a 7-day turn-around-time. The TAT on the TR/COC is marked as 21-day. Please advise on how the lab should proceed as quickly as possible.

Thanks,
Jessica

-----Original Message-----
From: Sumitra [mailto:sumitra@a4scientific.com]
Sent: Monday, February 18, 2002 9:54 AM
To: Brown, Jessica
Subject: CASE 30212

Jessica,

The lab received 4 VOA samples from Region 5 for the CASE 30212 on 02/15/02. The TR/COC is marked as the samples are for 21 day TAT. On the Scheduling Notification Form is was noted as the CASE is for 7 day TAT. Please advice on this discrepancy.

Sumitra.

Sumitra

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "'RamS'" <rams@a4scientific.com>
Sent: Monday, February 18, 2002 11:32 AM
Subject: RE: Shipping Notification Form for Case 30212 A4 2-14

Sumitra,

Would it be possible for you to fax or e-mail me the TR/COC for Case 30212?

Let me know,
Jessica

-----Original Message-----
From: RamS [mailto:rams@a4scientific.com]
Sent: Monday, February 18, 2002 12:26 PM
To: Brown, Jessica
Subject: Re: Shipping Notification Form for Case 30212 A4 2-14

Hi Jessica,

As per the Shipping Notification Form only 2 VOA samples were shipped on 02/14/02 with the Air Bill 832620621158, but the lab received 4 VOA samples for this AirBill.

Sumitra..

----- Original Message -----
From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: <rams@a4scientific.com>
Sent: Monday, February 18, 2002 10:49 AM
Subject: FW: Shipping Notification Form for Case 30212 A4 2-14

> Sumitra,
>
> Just to confirm, you did NOT receive 4 VOA samples for this Case on 2/15/02?
>
> Thanks,
> Jessica
>
> -----Original Message-----
> From: RamS [mailto:rams@a4scientific.com]
> Sent: Monday, February 18, 2002 11:29 AM
> To: Scheduling, STR NE
> Subject: Re: Shipping Notification Form for Case 30212 A4 2-14
>
>
> Please disregard the previous e-mail.

> Thanks,
> Sumitra.
>
> -----Original Message-----
> From: RamS [mailto:rams@a4scientific.com]
> Sent: Monday, February 18, 2002 11:40 AM
> To: Brown, Jessica
> Subject: Fw: Shipping Notification Form for Case 30212 A4 2-14
>
>
> Jessica,
>
> The attached Shipping Notification Form noted as 2 VOA samples were
shipped
> for the delivery on 02/15/02. Actually the lab received 4 VOA samples on
> 02/15/02. Are these 2 samples are in addition to the ones received on
> 02/15?
>
> Thanks,
> Sumitra.
>
> ----- Original Message -----
> From: "Scheduling, STR NE" <STR.Scheduling@dyncorp.com>
> To: "'RamS'" <rams@a4scientific.com>
> Sent: Monday, February 18, 2002 8:56 AM
> Subject: Shipping Notification Form for Case 30212 A4 2-14
>
>
> > > Attached you will find a .pdf version of the Shipping Notification
Form.
> > > Please verify all sample shipments and determine whether Traffic
Reports
> > > received match shipping and scheduling information provided by SMO. If
> > > there is a problem with the above information, please call the
> appropriate
> > > coordinator.
> > > You do not need to confirm receipt of this Shipping Notification
e-mail.
> > > If you have questions concerning a particular case, please contact the
> > > coordinator of that case. If you have programmatic questions or
> problems,
> > > please contact Carolyn Mack at 703-264-9323 (Carolyn.Mack@dyncorp.com
> > > <mailto:Carolyn.Mack@dyncorp.com>) or Loren Minnich at 703-264-9204
> > > (Loren.Minnich@dyncorp.com <mailto:Loren.Minnich@dyncorp.com>).
> > > <<30212 A4 2-14.pdf>>
> > > ST&R Scheduling STR.Scheduling@dyncorp.com
> > > <mailto:STR.Scheduling@dyncorp.com> 703-264-9323
> >
>
>

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK71	106	110	84	104	102	106	94
02	E00M1	94	106	72	126	104	112	94
03	E00M2	100	102	76	122	102	112	92
04	E00M3	100	106	72	136	110	118	100
05	VBLK72	94	94	74	102	92	92	86
06	E00M2MS	92	96	92	98	92	96	86
07	E00M2MSD	96	98	96	94	96	100	92
08	VBLK74	100	102	78	128	96	94	98
09	E00M4	94	98	72	154	100	102	94
10	E00M5	96	104	74	130	104	102	98
11	E00M6	100	102	78	110	102	100	98
12	E00M7	100	102	78	102	98	98	102
13	VHBLK01	106	110	84	116	110	104	106
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

			QC LIMITS
VDMC1	(VCL)	= Vinyl Chloride-d3	(49-138)
VDMC2	(CLA)	= Chloroethane-d5	(60-126)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(65-130)
VDMC4	(BUT)	= 2-Butanone-d5	(42-171)
VDMC5	(CLF)	= Chloroform-d	(80-123)
VDMC6	(DCA)	= 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BNE)	= Benzene-d6	(78-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (BRF) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK71	102	96	98	84	128	92	112	0
02	E00M1	108	94	102	98	134	110	124	0
03	E00M2	102	94	92	84	134	102	120	0
04	E00M3	114	96	108	108	162 *	112	128	1
05	VBLK72	94	88	86	72	106	76	104	0
06	E00M2MS	98	88	96	82	114	82	106	0
07	E00M2MSD	102	94	110	68	114	92	116	0
08	VBLK74	98	100	98	92	88	96	110	0
09	E00M4	98	92	98	114	94	102	100	0
10	E00M5	102	94	102	82	94	104	102	0
11	E00M6	102	98	96	74	108	98	114	0
12	E00M7	102	100	98	68	108	100	112	0
13	VHBLK01	108	102	100	76	112	114	118	0
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
VDMC8 (DPA)	= 1,2-Dichloropropane-d6	(84-123)
VDMC9 (TOL)	= Toluene-d8	(77-120)
VDMC10 (TDP)	= trans-1,3-Dichloropropene-d4	(80-128)
VDMC11 (HEX)	= 2-Hexanone-d5	(37-169)
VDMC12 (BRF)	= Bromoform-d	(76-135)
VDMC13 (TCA)	= 1,1,2,2-Tetrachloroethane-d2	(75-131)
VDMC14 (DCZ)	= 1,2-Dichlorobenzene-d4	(50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Marix Spike - EPA Sample No.: E00M2

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5.0	0	4.1	82	61-145
Benzene	5.0	0	4.4	88	76-127
Trichloroethene	5.0	0	5.0	100	71-120
Toluene	5.0	0	5.4	108	76-125
Chlorobenzene	5.0	0	6.2	124	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5.0	4.1	82	0	14	61-145
Benzene	5.0	4.5	90	2	11	76-127
Trichloroethene	5.0	5.1	102	2	14	71-120
Toluene	5.0	5.3	106	2	13	76-125
Chlorobenzene	5.0	6.4	128	3	13	75-130

Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits.

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

_____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK71

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK71 Date Analyzed: 02/18/02

Lab File ID: C3342 Time Analyzed: 0927

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00M1	1349.002	C3358	1848
02	E00M2	1349.003	C3359	1922
03	E00M3	1349.004	C3360	1957
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK72

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK72 Date Analyzed: 02/19/02

Lab File ID: C3366 Time Analyzed: 1001

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00M2MS	1349.003MS	C3367	1036
02	E00M2MSD	1349.003MSD	C3368	1110
03				
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COMMENTS _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK74

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK74 Date Analyzed: 02/20/02

Lab File ID: C3406 Time Analyzed: 2221

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00M4	1355.001	C3414	0257
02	E00M5	1355.002	C3415	0331
03	E00M6	1355.003	C3416	0406
04	E00M7	1355.004	C3417	0441
05	VHBLK01	1349.001	C3421	0658
06				
07				
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COMMENTS _____

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.002 Date Received: 02/14/02

Lab File ID: C3358 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.24	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.20	J
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.002 Date Received: 02/14/02

Lab File ID: C3358 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.002 Date Received: 02/14/02

Lab File ID: C3358 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.03	1.8	J
02		UNKNOWN	3.33	0.90	J
03					
04					
05					
06					
07					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
E00M2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.003 Date Received: 02/14/02

Lab File ID: C3359 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.24	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.003 Date Received: 02/14/02

Lab File ID: C3359 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.003 Date Received: 02/14/02

Lab File ID: C3359 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M2MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.003MS Date Received: 02/14/02

Lab File ID: C3367 Date Analyzed: 02/19/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.1	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.74	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.4	
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M2MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.003MS Date Received: 02/14/02

Lab File ID: C3367 Date Analyzed: 02/19/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	5.0	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.4	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	6.2	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M2MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.003MSD Date Received: 02/14/02

Lab File ID: C3368 Date Analyzed: 02/19/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.1	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.76	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.5	
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M2MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.003MSD Date Received: 02/14/02

Lab File ID: C3368 Date Analyzed: 02/19/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	5.1	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.3	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	6.4	
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.004 Date Received: 02/14/02

Lab File ID: C3360 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.27	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.67	
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.41	J
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.004 Date Received: 02/14/02

Lab File ID: C3360 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.21	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M3

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.004 Date Received: 02/14/02

Lab File ID: C3360 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.03	1.5	J
02		UNKNOWN	3.33	1.1	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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17					
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28					
29					
30					

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.001 Date Received: 02/15/02

Lab File ID: C3414 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.001 Date Received: 02/15/02

Lab File ID: C3414 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.33	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.001 Date Received: 02/15/02

Lab File ID: C3414 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.03	0.95	J
02		UNKNOWN	3.33	0.79	JB
03	000124-13-0	Octanal	15.47	0.77	JN
04	000124-19-6	Nonanal	17.62	2.6	JN
05		UNKNOWN	19.77	0.53	J
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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28					
29					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.002 Date Received: 02/15/02

Lab File ID: C3415 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.002 Date Received: 02/15/02

Lab File ID: C3415 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.31	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M5

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.002 Date Received: 02/15/02

Lab File ID: C3415 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.03	1.1	J
02		UNKNOWN	3.33	1.0	JB
03	000124-13-0	Octanal	15.47	0.83	JN
04	000124-19-6	Nonanal	17.62	3.0	JN
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.003 Date Received: 02/15/02

Lab File ID: C3416 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.003 Date Received: 02/15/02

Lab File ID: C3416 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.003 Date Received: 02/15/02

Lab File ID: C3416 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.33	0.63	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00M7

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.004 Date Received: 02/15/02

Lab File ID: C3417 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.78	
107-06-2	1,2-Dichloroethane	0.50	U

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00M7

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.004 Date Received: 02/15/02

Lab File ID: C3417 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	2.3	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.92	
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00M7

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1355.004 Date Received: 02/15/02

Lab File ID: C3417 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	000078-78-4	Butane, 2-methyl-	3.03	1.5	JN
02	000109-66-0	Pentane	3.33	0.70	JN
03		UNKNOWN	4.41	0.62	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK71

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK71 Date Received: _____

Lab File ID: C3342 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK71

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK71 Date Received: _____

Lab File ID: C3342 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK71

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK71 Date Received: _____

Lab File ID: C3342 Date Analyzed: 02/18/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	10.16	0.52	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
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13					
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK72

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK72 Date Received: _____

Lab File ID: C3366 Date Analyzed: 02/19/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK72

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK72 Date Received: _____

Lab File ID: C3366 Date Analyzed: 02/19/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK72

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK72 Date Received: _____

Lab File ID: C3366 Date Analyzed: 02/19/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK74

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK74 Date Received: _____

Lab File ID: C3406 Date Analyzed: 02/20/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK74

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK74 Date Received: _____

Lab File ID: C3406 Date Analyzed: 02/20/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.27	J
87-61-6	1,2,3-Trichlorobenzene	0.28	J

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK74

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: CVBLK74 Date Received: _____

Lab File ID: C3406 Date Analyzed: 02/20/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.33	0.52	J
02		UNKNOWN	9.56	0.59	J
03	000091-20-3	naphthalene	19.76	0.60	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.001 Date Received: _____

Lab File ID: C3421 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.001 Date Received: _____

Lab File ID: C3421 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30212 Client No.: SDG No.: E00M1

Lab Sample ID: 1349.001 Date Received: _____

Lab File ID: C3421 Date Analyzed: 02/21/02

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.33	0.54	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
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30					

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E00M1 CERCLIS No: ILN000508246

Case No: 30212 Site Name/Location: ELLSWORTH & INDUS. PK.

Contractor or EPA Lab: All Scientific Data User: IEPA

No. of Samples: 7 Date Sampled or Date Received: 2-22-02

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no. are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no. which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 7 No. of samples received: 7

Received by: Ena M. Dixon/ESAI Date: 2-22-02

Received by LSSS: Ena M. Dixon/ESAI Date: 2-22-02

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Ena M. Dixon/ESAI Date: 3-1-02

Mailed to user by: Ena M. Dixon/ESAI Date: 3-1-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: Electronic (**Level 2**) Review of Data

Received for Review on March 1, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: Ellsworth Industrial Park (IL)
CASE NUMBER: 30212 SDG NUMBER: E00M8
Number and Type of Samples: 4 Waters
Sample Numbers: E00M8, E00M9, E00N0, E00N1
Laboratory: A4 Scientific Hrs. for Review: _____
Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: March 8, 2002

Case Number : 30212 **SDG Number: E00M8**
Site Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Four (4) water samples, numbered *E00M8, E00M9, E00N0* and *E00N1,* were collected *February 19 - 21, 2002.* The lab received the samples on *February 22, 2002* in good condition. All samples were analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLC03.2* (12/2000).

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: March 8, 2002

Case Number : 30212 **SDG Number: E00M8**
Site Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

1. HOLDING TIME

Qualification: Holding Time **Protocol: VOA**

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

Qualification: IPC **Protocol: VOA**

No defects found.

3. CALIBRATION

Qualification: Calibrations **Protocol: VOA**

DC-5 The following volatile samples are associated with a continuing calibration whose corr esponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Methyl Acetate
E00M8, E00M9, E00N0, E00N1, VBLK79, VBLK80, VHBLK01

DC-7 The following volatile samples are associated with a continuing calibration whose corr esponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Methylene Chloride
E00M8, E00M9, E00N0, E00N1, VBLK79, VBLK80, VHBLK01

DC-8 The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Methylcyclohexane
E00M8, E00M9, E00N0, E00N1, VBLK79

Isopropylbenzene
E00M8, E00M9, E00N0, E00N1, VBLK79

DC-9 The following volatile samples are associated with a continuing calibration relative response

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factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Methyl Acetate
E00M8, E00M9, E00N0, E00N1, VBLK79, VBLK80, VHBLK01

4. BLANKS

Qualification: Laboratory Blanks **Protocol: VOA**

DC-15 The following volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Professional judgement should be used to qualify the data.

Trichloroethene
E00N0, E00N1

DC-18 The following volatile samples are associated with a contaminated instrument blank. Results are biased high. Hits are qualified "J" and non-detects are not flagged.

Tetrachloroethene
E00M8, E00M9, E00N0, E00N1

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

Qualification: DMC **Protocol: VOA**

No defects found.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Qualification: Matrix Spikes **Protocol: VOA**

DC-6 No volatile matrix spike data was reported for this SDG Manual review of the data is required.

E00M8, E00M9, E00N1

7. FIELD BLANK AND FIELD DUPLICATE

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
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Sample *E00N0* is a trip blank. No samples were identified as either field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

Qualification: Internal Standards **Protocol: VOA**

No defects found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

Qualification: Detection Limit **Protocol: VOA**

DC-1 *The following volatile samples have analyte concentrations below the quantitation limit* (CRQL). All results below the CRQL are qualified "J".

E00M8
Acetone, Benzene

E00M9
Acetone, 2-Butanone, Chloroform, Toluene

E00N0
Acetone, Tetrachloroethene

E00N1
Bromodichloromethane, Tetrachloroethene

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: March 8, 2002

Case Number : 30212 **SDG Number: E00M8**
Site Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

Data Review Results

Lab ID: A4 Case No.: 30212 Method: OLC03.2 Flag :OLCR5
File Name: E00M8 SDG No.: E00M8 Criteria: OLC03.2 Defects: OLCR5

Data Review Criteria Set Options:

Detection Limit
- PEST pct D expanded criteria
- **Use MDL**

Holding Time
- Region 3 PAH option
- Region 3 PCB option
- **Expanded criteria** X
- Inorganic missing pH option

Calibrations
- **RRF expanded criteria**
- **VOA/BNA PctD expanded criteria**
- **VOA/BNA PctRSD expanded criteria**
- **Use mean RRF**
- **Use VOA/BNA dual purpose standard option** X
- Use initial INDA/INDB pct resolution X
- Use continuing INDA/INDB pct resolution
- Use PEST low concentration option X
- PEST low concentration PctRSD expanded criteria
- **Use DMC/SMC/Surrogate option** X
- Use INORG extreme high pct recover.

Matrix Spikes
- Use PEST low concentration rules X

DMC/SMC/Surrogates
- **Region 3 validation rules**
- Check dilution factor X
- Use advisory surrogates
- **Use low concentration rules** X

CADRE association rules X

IPC
- Expanded criteria

System Performance
- Use initial PEM pct resolution X
- Use continuing PEM pct resolution X

CRDL/CRQL Standards
- Region 2 validation rules
- Region 3 validation rules

LCS
- Pct rec expanded criteria

Duplicates
- RPD and AD expanded criteria

Furnace AA QC
- Pct R expanded upper criteria
- Correlat expanded criteria

Blanks
- **Raise to detection limit** X
- **Use VOA storage/inst blanks** X
- **Use low concentration rules** X

Field QC
- **Combine method/field blanks**
- CRDL contamination criteria

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: March 8, 2002

Case Number : 30212 **SDG Number: E00M8**
Site Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: March 8, 2002

Case Number : 30212 **SDG Number:** E00M8
Site Name: ELLSWORTH INDUSTRIAL PARK (IL) **Laboratory:** A4 SCIENTIFIC

Level 2 - Assembled By: Allison Harvey/IITRI-ESAT
Date: March 8, 2002

Analytical Results (Qualified Data)

Case #: 30212 SDG : E00M8
Site : ELLSWORTH INDUSTRIAL PARK Number of Soil Samples :
Lab. : A4 Number of Water Samples :
Reviewer :
Date :

Sample Number :	E00M8		E00M9		E00N0		E00N1		VBLK79
Sampling Location :	G106		G109		TRIP BLANK1		S101		
Matrix :	Water		Water		Water		Water		Water
Units :	ug/L		ug/L		ug/L		ug/L		ug/L
Date Sampled :	2/19/2002		2/20/2002		2/21/2002		2/21/2002		
Time Sampled :	16:00		16:30		08:00		08:55		
%Moisture :	N/A		N/A		N/A		N/A		N/A
pH :									
Dilution Factor :	1.0		1.0		1.0		1.0		1.0
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,1,2-Trichloro-1,2,2-trifluoroeth	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Acetone	4	J	4	J	2	J	6		5
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Methyl Acetate	0.5	R	0.5	R	0.5	R	0.5	R	0.5
Methylene Chloride	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
tert-Butyl Methyl Ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
2-Butanone	5	U	0.7	J	5	U	5	U	5
Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Chloroform	0.5	U	0.2	J	0.5	U	0.8		0.5
1,1,1-Trichloroethane	0.5	U	0.8		0.5	U	0.5	U	0.5
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Benzene	0.2	J	0.5	U	0.5	U	0.5	U	0.5
1,2-Dichloroethane	0.5	U	2		0.5	U	0.5	U	0.5
Trichloroethene	0.5	U	6		0.5	U	0.5	U	0.5
Methylcyclohexane	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.4	J	0.5
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5
Toluene	0.7		0.4	J	0.5	U	0.5	U	0.5
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 30212 SDG : E00M8
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

Sample Number :	E00M8		E00M9		E00N0		E00N1		VBLK79
Sampling Location :	G106		G109		TRIP BLANK1		S101		
Matrix :	Water		Water		Water		Water		Water
Units :	ug/L		ug/L		ug/L		ug/L		ug/L
Date Sampled :	2/19/2002		2/20/2002		2/21/2002		2/21/2002		
Time Sampled :	16:00		16:30		08:00		08:55		
%Moisture :	N/A		N/A		N/A		N/A		N/A
pH :									
Dilution Factor :	1.0		1.0		1.0		1.0		1.0
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result
Tetrachloroethene	0.5	J	0.6	J	0.2	J	0.2	J	0.5
2-Hexanone	5	U	5	U	5	U	5	U	5
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Xylenes (total)	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Isopropylbenzene	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5