

INVESTIGATIVE REPORT

**Former Sylvania Electric Products
Incorporated Facility
Cantiague Rock Road
Hicksville, New York**

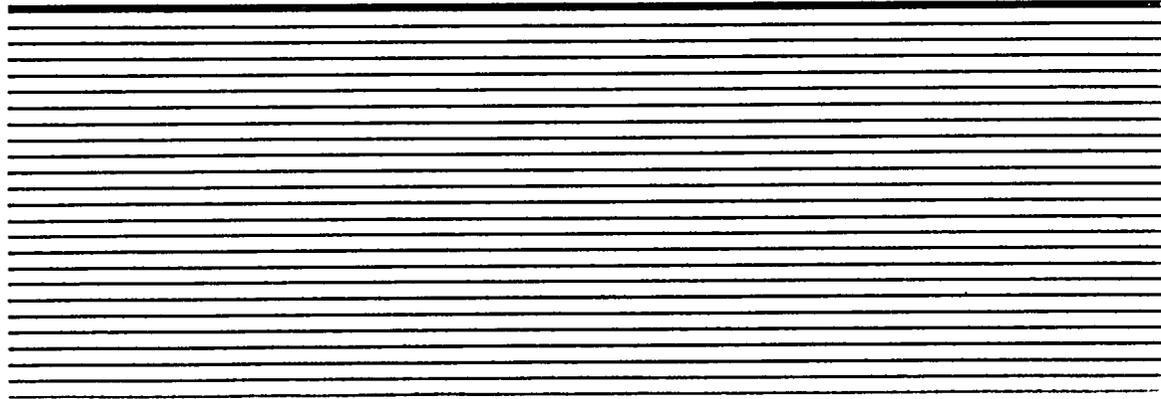
GTE Operations Support Incorporated

January 2000 (Revision 2: December 2000)



O'BRIEN & GERE
ENGINEERS, INC.

A-8a



4. Phase II field activities	23
4.1. Site characterization methods	23
4.1.1. Utility clearance	23
4.1.2. Surface and subsurface soil investigation	24
4.1.3. Worker exposure monitoring	26
4.1.4. Ground water investigation	27
4.2. Data analysis	28
4.2.1. Laboratory methods	28
4.2.2. Radiochemical data validation and interpretation	29
5. Nature and extent of residuals	33
5.1. Soil characterization	33
5.2. Water characterization	38
6. Exposure evaluation	43
6.1. Description of site and surrounding area	43
6.2. Volatile organic compounds	44
7. Conclusions	51
References	53

List of tables

1. Soil boring depths
2. Soil vapor volatile organic compound data
- 3a. Downhole radiation field screening alpha/beta data
- 3b. Downhole radiation field screening gamma data
- 4a. Soil core radiation field screening alpha/beta data
- 4b. Soil core radiation field screening gamma data
5. Air Techniques soil boring description
6. Magazine Distributors soil boring description
7. Gilbert Displays soil boring description
8. Nassau County Parks Department Golf Course driving range soil boring description
9. Ground water elevation summary
10. Sample identification and analytical summary
11. Soil gross alpha and gross beta data
12. Soil gamma spectroscopy data
13. Soil alpha spectroscopy data
14. Soil volatile organic compound data
15. Soil semivolatile organic compound data
16. Soil polychlorinated biphenyls data
17. Soils metals data
18. Water gross alpha and gross beta data
19. Water gamma spectroscopy data
20. Water alpha spectroscopy data
21. Water volatile organic compound data
22. Water semivolatile organic compound data
23. Water metals data
24. Radium calculation data

List of figures

1. Site location map
2. Current site map
3. Current site conditions and sampling locations with historic overlay
4. Historic map with sampling locations
5. Soil boring and well locations
6. Soil vapor data
7. Gross alpha, gross beta, U238 and Th232 data (soil and ground water)
8. Soil gamma spectroscopy data
9. U235 and Ra226 data with uncertainty terms
10. Ground water flow map
11. Volatile organic compounds in soil and ground water
12. Thorium series
13. Uranium series

-
14. Comparisons of radiological dose for background exposures
 15. Comparisons of acceptable radiological dose by regulatory agency

List of appendices

- A. Photographs
- B. Aerial photographs
- C. Boring logs
- D. Film badge analytical results
- E. Data validation

List of exhibits

1. Licensed surveyors map

List of abbreviations and acronyms

AEC	Atomic Energy Commission
bls	below land surface
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylene
CERCLA	Comprehensive Environmental Response Compensation Liability Act
cm/sec	centimeters per second
cpm	counts per minute
FOIL	Freedom of Information Law
FSP	Field Sampling Program
GPR	Ground Penetrating Radar
GTEOSI	GTE Operations Support Incorporated
ITM	Interim Technical Memorandum
MCL	Maximum contaminant level
MHz	mega hertz
MS	matrix spike
MSD	matrix spike duplicate
NCDPW	Nassau County Department of Public Works
NGVD	National Geodetic Vertical Datum
NPL	National Priorities List
NRC	Nuclear Regulatory Commission
NTU	nephelometric turbidity unit
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
OSWER	(USEPA) Office of Solid Waste and Emergency Response
PID	photoionization detector
QA/QC	quality assurance and quality control
QAPP	quality assurance project plan
RESRAD	a computer code used to estimate radiation risk
RF	Radio frequency
RI/FS	Remedial Investigations/Feasibility Studies
RPD	relative percent difference
SVOCs	semivolatile organic compounds
TAGM	Technical and Administrative Guidance Memorandum
TAL	target analyte list
TCL	target compound list
TCLP	toxicity characteristics leaching procedure
UFPO	Underground Facilities Protection Organization
USDOE	United States Department of Energy
USEPA	United States Environmental Protection Agency
USRADS	Ultrasonic Ranging and Detection System
UST	Underground Storage Tank
VOC	Volatile Organic Compounds

Executive summary

This document is an investigative report of the Former Sylvania Products Incorporated facility, in Hicksville, New York (the Site) investigated by GTE Operations Support Incorporated (GTEOSI) in cooperation with the New York State Department of Environmental Conservation (NYSDEC) under a voluntary cleanup program (VCP) agreement dated April 7, 1999. The voluntary program is administered by NYSDEC and is directed at industrial and commercial sites that do not represent an immediate threat to either human health or the environment. The main benefits of the voluntary program include: beneficial use of property that might otherwise go unused, keeping properties on the tax rolls, and maintaining or enhancing employment.

The VCP agreement, signed by NYSDEC and GTEOSI representatives, included an investigative work plan for the Site consisting of a health and safety plan, quality assurance plan, and field-sampling plan. A number of elements of work specified in the plan have now been completed and reported. To date the report describing a ground penetrating radar (GPR) survey and remote sensing survey conducted at the Site (O'Brien & Gere 1998) has been submitted and approved and is an element of the agreement. When approved by NYSDEC, the investigative report presented herein will also become part of the agreement.

Formerly, reactor fuel elements were fabricated on-site. Three main buildings, designated as buildings 1, 2, and 4, were used for this purpose. Twelve additional buildings were used to support the main buildings, often for materials storage. All buildings were demolished prior to 1970 with the exception of a portion of the building that now houses Air Techniques, Inc. The Air Techniques building was decommissioned in accordance with applicable regulations and released for unrestricted use by the New York State Department of Labor in 1967.

The Site currently consists of properties at 70, 100, and 140 Cantiague Rock Road. The property at 70 Cantiague Rock Road is occupied by Air Techniques, Inc., a manufacturer of small air compressors, vacuum pumps, video cameras and x-ray processing equipment for the dental industry. Magazine Distributors, Inc., 100 Cantiague Rock Road, distributes magazines while Gilbert Displays, 140 Cantiague Rock Road, manufactures displays for a variety of clients. Manufacturing, or in the case of Magazine Distributors - loading and sorting magazines for distribution - takes place towards the rear of the buildings. Offices occupy the front of the buildings. Access to the Site by the public is limited to the office portion of the buildings. The Site investigation extended about 10 feet onto two small areas of the Nassau County Parks Department golf driving range at the rear of Magazine Distributors and

Overall, the investigation met the following program objectives:

- collect sufficient data to identify and characterize former process residuals associated with Site soils and soils at the Nassau County Parks Department Golf Course driving range adjacent to the Site,
- collect sufficient data to evaluate on-site ground water for the presence of Site related process residuals, and
- collect sufficient data to evaluate whether there was an immediate threat to human health and the environment.

1. Introduction

1.1. Project background

This report presents the findings of the investigation performed at the former Sylvania Electric Products Incorporated facility (the Site) Cantiague Rock Road, Hicksville, New York (Figure 1). The investigation was performed by O'Brien & Gere Engineers, Inc. (O'Brien & Gere) on behalf of GTE Operations Support Incorporated (GTEOSI) in cooperation with the New York State Department of Environmental Conservation (NYSDEC). The investigation was conducted pursuant to the Voluntary Cleanup Program (VCP) agreement between GTEOSI and the NYSDEC, dated April 7, 1999.

The investigation was conducted to verify the nature and extent, if any, of process residuals at the Site (including uranium, thorium and chlorinated solvents) reported to have been used historically on-site. The investigation was performed in accordance with applicable investigative procedures set forth in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM), Guidelines for Remedial Investigations/Feasibility Studies (RI/FS), HWR-89-4025, March 1989 (NYSDEC 1989) and the United States Environmental Protection Agency (USEPA) Guidance for Conducting Remedial Investigations and Feasibility Studies Under Comprehensive Environmental Response and Compensation Liability Act (CERCLA) (USEPA 1988).

The approach for the project considered the possible locations of process residuals source areas as well as potential unknown locations that may have been associated with previous Site usage. The locations of process residuals are those areas and underground structures that may have received process waste in the past. The scope was based on the preliminary acquisition of representative samples and hydrogeologic information, as well as other information available from upgradient and downgradient sites that were previously investigated for environmental purposes.

The investigation, which was conducted in two phases, consisted of both non-invasive and invasive activities. Phase I, the non-invasive portion of

the investigation, included a ground penetration radar survey and an exterior radiation survey. These activities were described in the March 1998 Interim Technical Memorandum (ITM), entitled *Ground Penetration Radar Survey and Exterior Radiation Survey Results* (O'Brien & Gere 1998). Phase II was based on the outcome of the non-invasive Phase I activities and included activities described in the March 1998 (revised May 1998) former Sylvania Electric Products Incorporated Facility Investigation Work Plan (O'Brien & Gere 1998b). Phase II activities were used to address soils in areas containing anomalies, former production areas, cesspools, leaching pools, recharge basins and similar structures.

Phase I of the investigation was initiated in December 1997, and the ITM was submitted to NYSDEC in April 1998. The ITM is a component of the approved Work Plan and part of the VCP Agreement. Phase II of the investigation was initiated in June 1999 and the results are presented herein. Upon acceptance by NYSDEC, the investigative report will become part of the agreement. The voluntary program is administered by NYSDEC and is directed at industrial and commercial sites that do not represent an immediate threat to either human health or the environment.

During the investigation, progress reports describing actions taken, data received, and any delays and modifications were provided to the NYSDEC on a monthly basis. The purpose of the progress reports was to keep all parties aware of up coming activities and any delays encountered during reporting.

Lastly, it should be noted that sufficient data have been acquired to complete the scope of work presented in the approved Work Plan and that no additional data are necessary for this purpose.

1.2. Project objectives

The investigation met the following program objectives:

- collect sufficient data to identify and characterize former process residuals and solvents associated with the Site soils and soils at the Nassau County Parks Department Golf Course driving range adjacent to the Site,
- collect sufficient data to evaluate on-site ground water for the presence of Site related process residuals and solvents, and
- collect sufficient data to evaluate whether there was an immediate threat to human health and the environment.

Meeting these objectives achieves the goals and intent of New York State's Voluntary Cleanup Program. A description of the Site background is presented below.

1.3. Site background

1.3.1. Site description

The Site is in west central Long Island, approximately one-mile west of Hicksville, New York (Figure 1). Historically, the Site was comprised of Lots 79 and 80 containing three main buildings (designated as buildings 1, 2, and 4) used to fabricate reactor fuel elements and twelve support buildings. With the exception of a portion of the building, which now houses Air Techniques, Inc., the Site buildings were demolished prior to 1970. Before the construction of the current buildings, the property was subdivided into three new parcels with new lot numbers.

The current Site is comprised of three buildings: Air Techniques, Inc. (70 Cantiague Road), Magazine Distributors Inc. (100 Cantiague Road), Gilbert Displays, Inc. (140 Cantiague Rock Road) and associated land (identified, respectively as northern Lots 99 and 100 and southern Lot 94). Approximately 95 percent of the 9.5-acre Site is either paved or occupied by buildings. The Nassau County Parks Department (Cantiague Park) Golf Course driving range is not part of the Site, but was studied concurrently with the investigation study areas at the request of NYSDEC.

Areas addressed as part of this report are described in further detail below and are shown in the Site photographs (Appendix A) and on Figure 2.

Air Techniques, Inc. Study Area

The Air Techniques Inc. facility, on the southern portion of the Site, consists of the fenced area and associated approximately 210,000-ft² one-story brick building. The remainder of the property is paved and is used for parking and storage. This property (southern Lot 94) was purchased by Air Techniques in 1979, and was expanded to the east after adjacent land (Lot 105) was purchased from Nassau County (ERM 1997). The western portion of the Air Techniques building is the only original building (historically Building #4) that remains on the Site; as the other buildings have been demolished. Historically, the perimeter of the building contained several small support buildings, drains, cesspools, drywells, and a recharge basin. This parcel has been the subject of an ongoing ground water investigation since 1995 by GTEOSI (ERM 1997).

Magazine Distributors Inc. Study Area

Magazine Distributors consists of the fenced area enclosing the 80,100-ft² two-story distribution building and paved parking lots in the center of the Site. Magazine Distributors is bounded by Air Techniques to the

south and Gilbert Displays to the north. Historically, south and east of the building were several small support buildings, leaching pools, drywells, a recharge basin and a reservoir. Two underground petroleum tanks are on the south side of the building.

Gilbert Displays, Inc. Study Area

The Gilbert Displays facility is on the northern portion of the Site, immediately south of the Nassau County Department of Public Works (NCDPW). The property houses an approximately 54,500-ft² one-story office and industrial building reported to have been constructed in 1968. The property is primarily paved with the exceptions of a small area on the east side that abuts the golf course driving range and is separated by a chain link fence. Historically, the property contained leaching pools, drywells, a small support building (formerly reportedly used for burning and chemical processing), and a recharge basin.

Golf Course Study Area

The golf course driving range is not part of the Site, but it was investigated at the request of the NYSDEC to establish background levels of soil radionuclides, geologic information, and confirm historic records reviewed. A small area of the driving range, parallel and adjacent to the fence line of the common boundary with Gilbert Displays and Magazine Distributors, was investigated. The area was approximately 300 feet in length. Small trees and scrub vegetation were cleared in order to access the area.

1.3.2. Adjacent properties

The Site is bounded by NCDPW to the north, the Nassau County Parks Department (Cantiague Park) Golf Course driving range to the east, General Semiconductor to the south, and Cantiague Rock Road and commercial and industrial properties to the west. It should be noted that the General Semiconductor facility (former General Instruments) has reportedly been purchased by First Industrial Realty, Syosset, New York. However, for clarity and consistency, the name General Semiconductor has been retained in this report.

Nassau County Department of Public Works (NCDPW) - The NCDPW Road and Bridge Maintenance Garage is directly north and hydraulically upgradient of the Site. The facility is used to store and maintain trucks and construction equipment. There were two petroleum spills (1979 and 1986) at the NCDPW, which may have impacted ground water in a downgradient direction. Reportedly, several tens of thousands of gallons of product were released as a result of the spills (EEA 1991; Tim Kelly 1997). According to Mr. Kelly, the 1979 spill file (Spill #79077) has been closed, while the 1986 spill file (Spill #8605893) remains open.

Golf course driving range – The golf course driving range is east of the Site. Information on this property is presented in Section 1.3.

General Semiconductor - General Semiconductor is downgradient (south) and adjacent to the Site. General Semiconductor is a Class 2 State listed inactive hazardous waste site and is the focus of a remedial investigation/feasibility study (RI/FS) associated with several leaks from underground waste solvent tanks (NYSDEC 1997). The 11.5-acre parcel is almost entirely covered by buildings and pavement. In January 1997, a preliminary remedial action plan for the Site was issued by NYSDEC to address on-site soil contamination. Ground water contamination will be addressed separately from the soils.

1.4. Previous investigations

Historical Site information, information from previous reports, and prior geologic and hydrogeologic studies provided the framework for the selection of sampling locations and the initial analytical parameters for samples collected during the investigation. Information and previous studies referenced in this report included:

- EEA, Inc. Environmental Investigation of 140 Cantiague Road (Gilbert Displays) in 1991,
- ERM-Northeast's Subsurface Investigation at Air Techniques in 1987,
- ERM-Northeast's Summary Report of Ground Water Monitoring Program – Air Techniques Facility in 1997,
- NRC Inspection Report Number 070-00097/96-001, Gilbert Displays, Inc. (former Sylvania Facility) in 1996,
- O'Brien & Gere Engineers, Inc. 1998. *Work Plan Former Sylvania Electric Products Incorporated Facility, Cantiague Rock Road, Hicksville, New York, Syracuse, New York,*
- Stearns & Wheler 1992. *Remedial Investigation, General Instrument Corporation, Hicksville, New York,* and
- US Department of Energy. 1979. Department of Energy Report. Letter to the NRC Regarding Radionuclide Data for the Former Sylvania Site in Hicksville, New York.

1.5. Report organization

The remainder of this report is organized as follows:

Section 2 presents a discussion of the physical characteristics of the Site including climate, regional and Site geology, and hydrogeology;

Section 3 describes the investigation program including a description of the Phase I non-intrusive field methods;

Section 4 details the Phase II investigation program including a description of field methods and data analysis methods;

Section 5 presents the nature and extent of residuals in various environmental media based on data collected during the investigation;

Sections 6 summarizes the Human Exposure Evaluation; and

Section 7 summarizes the findings of the investigation.

2. Study area physical characteristics

2.1. Climate

Long Island has a humid climate that is controlled primarily by the prevailing westerly winds, causing most weather systems to approach from the continental United States. Temperature extremes tend to be subdued by the proximity of the Atlantic Ocean (Isbister 1966). Long Island depends on precipitation as its sole source of recharge to ground water via natural infiltration, recharge basins and cesspools. The remainder of the precipitation is removed by either direct runoff or evapotranspiration (Peterson 1988). Annual precipitation averages about 43.87 inches. The average daily temperatures ranged from a low of 39.8°F in February to a high of 75°F in July. Average temperature and precipitation data for the area are collected at the Mineola Station Division, Mineola, New York.

2.2. Geology

2.2.1. Regional geology

Regionally, the Site is on a glacial outwash plain. Topography becomes more varied northward in the vicinity of the Ronkonkoma and Harbor Hill moraines and associated ground moraine areas. Few surface water bodies are found near the Site.

The regional geologic setting in Nassau County consists of unconsolidated geologic deposits overlying bedrock. The deposits are approximately 1,100 feet thick near the Site, thinner in the northwestern part of Nassau County and thicken southward. The deposits are divided into seven surficial geologic units: two members of the Raritan Formation, the Magothy Formation, two distinct units of the Port Washington Deposit, the Port Washington clay unit, and the Upper Pleistocene deposits (Isbister 1966; Smolensky and Feldman 1988).

The unconsolidated deposits consist of residual or weathered bedrock, and sand, silt, clay, and gravel of alluvial or glacial origin. The unconsolidated deposits are subdivided into stratigraphic or geologic units based on like characteristics, such as grain size distribution, sorting, porosity, composition of grains, and any other unique characteristics. Boundaries between unconsolidated geologic units are often marked by

unconformity. An unconformity is an interruption in the continuity of a depositional sequence that represents a period in the geologic past of non-deposition or erosion. Geologic units on opposite sides of an unconformity are often physically very different.

Bedrock Geology

The bedrock underlying Long Island is Precambrian to lower Paleozoic in age (700 million years to 500 million years before present). The bedrock geology predominately consists of schist and gneiss with igneous intrusions. A schist is a strongly foliated crystalline rock of metamorphic origin. The bedrock is known to have some fractures; however, the fractures are not considered significant within the regional hydrogeology because of relatively low fracture permeability in comparison to the unconsolidated deposits. A highly weathered zone of approximately 50 feet exists at the top of the bedrock. This zone contains various colored clays and sandy clay mixed with partly decayed rock and mineral fragments. The bedrock surface slopes at approximately 62 feet per mile toward the southeast and ranges from 160 feet below sea level at the north shore of Nassau County, to approximately 900 feet below sea level in the vicinity of the Site (Kilburn 1979).

2.2.2. Site geology

According to the Nassau County Soil Survey (1987), soils surrounding the Site are classified as urban land (USDA 1987). Urban land soils are at least 85 percent covered by impervious material including parking lots, shopping centers and industrial buildings.

Overburden beneath the Site consists of unconsolidated deposits. Based on boring logs at the Site, surficial deposits are primarily fine to coarse sands with some gravel, subrounded to angular, confined to the upper 10 to 20 feet. Soil borings advanced at the Site ranged in depth from 27-inches (BS-30A) to 240-inches (BS-49B and SB-79) (Table 1). Refusal was encountered in several of the borings due to running sand. The temporary well points penetrate a depth of approximately 840-inches (70 feet). A fairly uniform gravelly sand extends from the surface to 70 feet below land surface (bls).

2.3. Hydrogeology

Regional and local ground water quality is based on samples taken from water supply wells and monitoring wells by state and local agencies and documents provided by the Nassau County Department of Health (Stearns & Wheler 1992; NCDOH 1997).

2.3.1. Regional hydrogeology

The regional ground water flow on Long Island is reportedly separated by a ground water divide that trends east to west along the north central portion of Long Island. Ground water north of the divide discharges to Long Island Sound and ground water south of the divide discharges into Great South Bay (Kilburn 1979).

Four major aquifers exist within the unconsolidated deposits, which underlie Nassau County. From deepest to most shallow the aquifers are the Lloyd Aquifer, Port Washington Aquifer, Magothy Aquifer, and the upper glacial aquifer.

Lloyd Aquifer

The Lloyd Aquifer rests unconformably on bedrock that is relatively impermeable and can be considered the base of the hydrogeologic system (Smolensky and Feldman 1988). The aquifer lies about 900 feet below land surface and is estimated to be 300 feet thick. It is confined since it underlies a clay unit, the Raritan confining unit and overlies bedrock. The aquifer reportedly has low to moderate permeability and an average horizontal conductivity of 40 feet per day.

Port Washington Aquifer

The Port Washington Aquifer rests unconformably upon bedrock in northern Nassau County and abuts late Cretaceous age (100 million years ago to 65 million years before present) hydrogeologic units to the south (Stearns & Wheeler 1992).

Magothy Aquifer

The Magothy Aquifer serves as the principal source of fresh water on Long Island. The aquifer is approximately 600 feet thick and lies about 85 feet bls. Due to high concentrations of clays in the upper portions of the Magothy Aquifer, ground water is more efficiently withdrawn near the base of the aquifer. As a result, most public water supply wells are screened in the lower Magothy Aquifer. The Magothy Aquifer is considered moderately permeable to highly permeable, and has an average hydraulic conductivity of 50 feet per day (Smolensky and Feldman 1988).

Upper Glacial Aquifer

The upper glacial aquifer is the uppermost hydrogeologic unit on Long Island and forms the present day land surface. It is approximately 85 feet thick with the upper 10-feet consisting of fill and recent deposits. The upper glacial aquifer is nearly continuous across Long Island. Therefore, most recharge must infiltrate through the upper glacial aquifer to reach the lower aquifers. Almost all recharge originates from the precipitation that Long Island receives. The upper glacial aquifer is higher permeable

and has a hydraulic conductivity that ranges from 130 feet per day in north central Long Island, to 270 feet per day and higher in the southern part of Long Island (Eckhardt, Flipse, and Oaksford 1989).

The four aquifers are hydraulically interconnected to varying degrees. The connection of adjacent hydrogeologic units is controlled by their water-bearing properties and by the ground water flow dynamics. Ground water flows from areas of high pressure or hydraulic head to areas of low pressure. A hydraulic aquifer is separated from the Magothy Aquifer by the Raritan confining unit. The Raritan confining unit has a very low hydraulic conductivity, yet it does not completely prevent the migration of ground water between the Lloyd and Magothy aquifers (Kilburn 1979). The Lloyd Aquifer may be hydrogeologically connected with the adjacent Port Washington Aquifer (Smolensky and Feldman 1988). The Port Washington Aquifer is believed to be in close hydraulic communication with the adjacent Lloyd and Magothy aquifers. The Port Washington Aquifer also forms part of the valley fill deposits in the channels cut by Pleistocene rivers. The valley fill deposits can act as ground water flow paths that increase the hydraulic connection between aquifers (Kilburn 1979).

Regional Surface Water

Regionally, surface water in Nassau County consists of a few small streams, ponds, and marshes. Surface water collection is mainly controlled by precipitation rates, infiltration, runoff rates, and by perched water tables. Numerous perched ponds, marshes, and effluent streams occur north of the Ronkonkoma moraine (Isbister 1966).

Headwaters of the streams on Long Island tend to originate in the highlands of the Ronkonkoma and Harbor Hill moraines. To the north, sediments tend to be impermeable tills that support perched water tables and effluent streams. To the south of the highlands, outwash plain deposits are usually very permeable and will not support a perched water table. Streams to the south of the Ronkonkoma moraine tend to be influent and often disappear completely. Direct runoff from urban areas (pavement, rooftops) is rerouted by storm drainage systems to numerous recharge basins, which ultimately replenish the water table.

2.3.2. Site hydrogeology

Hydrogeological data obtained from investigations adjacent to the Site have focused on the upper glacial aquifer and the Magothy Aquifer. Test borings and well borings were completed at the General Semiconductor site (Stearns & Wheler 1992). The test borings indicated that the Site is underlain by relatively simple stratigraphy consisting of gravelly sands overlying silty fine sands. A fairly uniform gravelly sand extends from the surface to 60 or 70 feet bls. Additionally, according to Mr. John Conover (former NYSDEC Project Manager for the General Semiconductor site), there is a confining layer at 150 feet in depth below

the General Semiconductor site. Additionally, based on results presented in Stearns & Wheler (1992), there is no appreciable vertical component of ground water flow.

Ground water elevations were collected from both monitoring wells and temporary wells at the Site and limited wells on adjacent parcels. Depth to water in the wells varied from about 67.72 feet to over 71.16 feet, depending upon location. Ground water elevation maps for the Site were constructed from data collected on August 9, 1999 through August 12, 1999. The flow map of the Site is included as Figure 10. Ground water flow beneath the Site is generally toward the south.

Regional Ground Water Quality

The regional outlook reported herein is a generalization, but serves to document a portion of the history of ground water contamination associated with wells on Long Island. There are a variety of possible sources of contaminants detected in local public and industrial water supply wells and monitoring wells downgradient of the Site. There are nine known Class 2 and 2a inactive hazardous waste sites within a one-mile radius of the Site as well as a number of spills and National Priority listed sites (NCDOH 1986; EDR 1997).

In June 1986, the Nassau County Department of Health and Dvirka and Bartilucci Consulting Engineers studied the regional ground water quality of Nassau County. Five study areas containing a total of 871 wells were used in the investigation to help determine the most significant areas of ground water contamination by organic compounds. The quality of ground water varied laterally based on the subsurface environment and land use (Stearns & Wheler 1992).

The majority of the public water supply wells use the Magothy aquifer. As expected based on distance, the Upper Glacial aquifer being the shallowest aquifer was the most contamination. Thirty-six percent of the wells tested contained VOCs greater than 10 parts per billion (ppb). Details on the three closest upgradient wells are provided below:

Two wells (N-3878 and N-3953) in the Hicksville Water District are slightly more than one-half mile northeast and upgradient from the Site. Both wells are presently drawing water from the Magothy aquifer and are screened from 255 to 278 feet below sea level (N-3878) and 17 to 267 feet below sea level (N-3953) (Kilburn 1979). Sampling events conducted between June 1989 and August 1990 revealed elevated levels of 1,1-dichloroethane, 1,1,1-trichloroethane, and tetrachloroethylene in Well N-3953. In June 1989, tetrachloroethylene was found to exceed the maximum contaminant level (MCL) for NYS drinking water as described in Chapter 1, Part 5, of Public Health Law, with a concentration of 5.3 ppb (NCDOH 1991). Detectable levels of contamination were not identified in Well N-3878.

Well N-7030 is approximately three-quarters of a mile north of the Site on Cantiague Rock Road in the Jericho Water District. Well N-7030 is screened in the Magothy aquifer from 332 to 372 feet below sea level (Kilburn 1979). In January 1989, the well was found to contain 12 ppb tetrachloroethylene (which exceeds the MCL for public water supply wells) and was taken off line during that same month (NCDOH 1991). For a complete description of public water supply wells, wellhead treatment and raw water contaminants, the reviewer is referred to "Ground Water and Public Water Supply Facts for Nassau County, New York" (NCDOH 1997).

Non-Public Water Supply Wells Ground Water Quality

An investigation was conducted to evaluate contaminated aquifer segments between the Long Island Railroad and Old County Road. Six monitoring wells, between 60 and 72 feet deep, were installed in West Hicksville for the investigation. In December 1985, the concentration of tetrachloroethylene in WH-5 was 620 ppb and 1,1,1-trichloroethane in WH-6 was 170 ppb (NCDOH 1986). Additionally, the NCDPW reportedly has forty-seven monitoring wells situated immediately upgradient of the Site that were installed to investigate two prior petroleum spills.

3. Phase I investigation program

This section describes the field methods used to characterize the Site. As mentioned in Section 1, the investigation was performed in two phases. Phase I included non-invasive field activities conducted in 1997. Phase II was comprised of invasive field activities conducted in the summer of 1999.

The following field activities were performed as part of Phase I:

- Site reconnaissance,
- Markout,
- Ground penetrating radar survey,
- USRADS survey, and
- Site survey.

The field methods used for Phases I investigation are described in the following sections.

3.1. Site characterization methods

3.1.1. Site reconnaissance

A Site visit was performed on January 9, 1997, to verify sampling locations for the field program, select an area for placement of the field trailer, confirm components of the health and safety plan (i.e. hospital route), and introduce the field operations supervisor to the property owners and individuals.

3.1.2. Grid system

As part of the Phase I and to provide a frame of reference for the GPR and USRADS survey, transects were measured from the common fence line separating Gilbert Displays, Magazine Distributors Inc., and Air Techniques from the Cantiague Golf Course Driving Range. The fence pole at the northeast corner of the Gilbert Displays property was

designated as grid reference point 0,0 for measurement purposes. The distance of each fence pole was measured away from the 0,0 pole providing the coordinate system from which the GPR survey grid lines were established. In total, 66 fence poles were marked (every 10 feet) covering a total distance of 663.5 feet.

3.1.3. Ground penetrating radar survey

On December 5, and 6, 1997, a high-resolution ground-penetrating radar (GPR) survey was conducted at the Site by O'Brien & Gere personnel. The GPR survey was conducted in order to evaluate the existence of former on-site structures and subsurface structures that may have received process materials, define the depth of such structures prior boring installation, and, if possible, evaluate the methodology by which the structures were filled (soil versus building rubble). By necessity, the survey was performed taking into consideration the footprint of the current buildings and appurtenances. However, because former Site structures were sufficiently accessible, the survey is considered representative of previous Site conditions. The goal of the survey was to assist in identifying the locations for subsequent surface and subsurface soil sampling activities.

The survey was conducted with both the oversight and participation of Mr. Robert Stewart (NYSDEC). The survey employed portable subsurface interface radar, model SIR-2, manufactured by Geophysical Survey Systems, Inc., of North Salem, New Hampshire. The system configuration for this investigation was composed of a single channel 500 MHz antenna, a portable SIR-2 recording system, and a connecting 23-conductor communication cable.

The areas surveyed include the following.

Cantiague Public Golf Driving Range - A 400 feet by 100 feet area along the western edge of the Nassau County Parks Department Golf Driving Range. This area represents a five to seven foot high easterly-facing slope grading from the chain link fence (baseline) to the middle of the driving range. According to files reviewed, GTEOSI's predecessors did not use the driving range. This area was surveyed in order to corroborate the historic records reviewed, establish background signal characteristics, and assist in the evaluation of local geology.

Gilbert Displays Inc. - A 150 feet by 100 feet parking lot and driveway east of the building. The existing subsurface structures consist of several parking lot storm water drywells. Six-inch high curbing separates the natural areas from the paved asphalt areas.

Magazine Distributors Inc. - Two areas were surveyed: a 125 feet by 275 feet area, east of the building, that is used for parking, loading, and fueling and a 450 feet by 100 feet parking and access area south of the building. Several storm water drainage drywells are in the parking lot

south and east of the building while fuel distribution facilities, underground fuel storage tanks, and a caged storage area are at the rear (east) of the building. An abandoned truck and miscellaneous items were at the southeastern corner of the property at the time of the survey.

Air Techniques, Inc. - A 125 feet by 500 feet parking lot and driveway north of the building. Existing structures include several storm water catch basins in the parking and access areas to the north of the facility and an underground concrete vault of unknown dimensions west of the facility, underneath the sidewalk.

The GPR survey results confirmed historic data indicating that there were no structures deeper than 16 feet in depth.

3.1.4. USRADS survey

The focus of the Ultrasonic Ranging and Detection System (USRADS) survey was the former buildings and structures. Similar to the GPR survey, by necessity, the survey was performed taking into consideration the footprint of the current buildings and appurtenances. Buildings and structures that once existed on-site such as the recharge basins were sufficiently accessible to perform a representative survey.

The survey was conducted with both the oversight (Robert Stewart) and participation (Bureau of Pesticides and Radiation) of NYSDEC. Approximately two-thirds of the exterior USRADS survey was performed by NYSDEC and the remaining one-third by Chemrad Tennessee Corporation (Chemrad) under contract to O'Brien & Gere.

The USRADS survey was conducted in order to define, to the extent practicable, the lateral extent of above-background gamma emitting radioactive materials that could indicate the presence of process residuals, particularly uranium and thorium progeny. The survey was used to assist in identifying the locations for Phase II surface and subsurface soil sampling activities.

The NYSDEC survey took place on November 17, 18, and 19, 1997. The Chemrad portion of the survey took place on December 6, 1997 and on February 7, 1998. The February 7, 1998 survey was required since the data from the December 6, 1997 survey was inadvertently lost due to a computer hardware failure.

The survey used following radiation detection and positioning equipment:

- A Ludlum Model 3 rate meter with a two-inch by two-inch sodium-iodide (NaI) gamma scintillation detector (Model #44-10) was used to measure radiological activity in counts per minute (cpm).

- Real-time positioning equipment designated by Chemrad as the Ultrasonic Ranging and Data System (USRADS 2200 Ultrasonic system).
- Radio frequency (RF) communications, which were used for system timing and data transfer.
- A portable computer system that was used in the field to receive, display, store, and reduce data.

For consistency, the baseline for the USRADS survey was established at reference point 0,0, consisting of the fence pole at the northeast corner of the Gilbert Display property (boundary separating the Site and the golf driving range), as was used for the GPR survey.

3.1.5. Site survey

A Site survey was conducted by Al Tay Surveying, a professional land surveyor, to locate potential source areas shown on historical maps including a 1952 historic map and a 1960 survey map prepared by Holzmacher, et al. The survey was used to assess current conditions and provide an accurate and up-to-date map for use during the investigation. Of particular interest were the locations of structures, former underground structures (recharge basins, leaching pools, and drywells) and historic building footprints. The survey map is provided as Exhibit 1. The survey map prepared by Mr. Tay was also used to compare the results of the USRADS survey, GPR survey, and soil boring survey with the locations of the underground structures. This comparison was used to determine the relationship among the data collected and to assist in positioning the soil borings.

During the survey, the surveyor re-established the coarse grid and confirmed the distance each fence pole was measured away from the 0,0 point from which the GPR and USRADS survey data was generated and later surveys may be referenced. The grid was based on the common fence separating Gilbert Displays, Magazine Distributors, Inc., and Air Techniques from the Nassau County Parks Department (Cantiague Park) golf driving range.

Subsequent to completion of the Site investigations, the location of surface soil samples and soil borings was established in relation to the Site survey. Each sampling location was identified on the survey map and includes the coordinates and ground surface elevation. Buildings, roadways, waterways, and utilities were clearly labeled. Elevations were referenced to the National Geodetic Vertical Datum (NGVD) of 1929.

3.1.6. Site history

Historically, the former Sylvania facility consisted of Lots 79 and 80 of Block 499, Section 11. Exhibit 1 shows the locations of buildings formerly used for manufacturing at the site. Buildings #1 and #2 on Lot 80 already existed when Sylvania Atomic Energy Division Facility first occupied the property in 1952. Sylvania-Corning Nuclear Corporation Facility acquired the remainder of Lot 79 in 1957, and constructed building #4 circa 1957 - 1958 for the purpose of manufacturing atomic fuel elements for reactors used in research and electric power generation. Records indicate that Sylvania operated under license #SNM-82 issued from the Atomic Energy Commission (NRC 1994). The facility was used to manufacture nuclear fuel elements for the AEC, as well as high temperature coatings and composite alloys for space and aircraft industries from 1952 to 1967. Sylvania also operated research pilot and metallurgical laboratories during the time it was in operation.

With the sale of Sylvania Nuclear Division's equipment, tooling, and license assets to National Lead Industries in 1966, the production of nuclear fuel elements and components at the facility ceased. According to NRC (1996), the AEC removed the site in 1967 from licensing requirements, due to cessation of nuclear product production activities. Non-nuclear production activities at Lot 79 ceased completely during 1972, with the sale of the parcel to Dewiant Corporation. Of the original on-site buildings, only one remains on-site, forming a portion of the Air Techniques facility. GTEOSI's corporate genealogy relevant to its involvement with historical Site uses, manufacturing, and disposal practices were presented in the Work Plan (O'Brien & Gere 1998b).

Aerial Photographs

An aerial photograph review was performed to confirm the historical presence or absence of on-site buildings, development of surrounding properties, and potential areas of land elevation changes due to dumping or excavation. The search was conducted for the Site by Environmental Data Resources, Inc. Aerial photograph flights for the years 1953, 1966, 1974, 1980 and 1994 are included as Appendix B (EDR 1999).

The aerial photograph review confirmed that one building was present on the Site in 1953 when the former Sylvania Products acquired the Site. By 1966 several structures and, a recharge basin, were present on the Site. The structures appear to support the 1960-Survey Map prepared by Holzmacher, et al. By 1974, no buildings were observed in the central portion of the Site. Additionally, the original building on the north side of the Site had been removed and it was replaced by a new building. This supports the historic record indicating that between 1966 and 1969 six buildings and associated foundations were removed and at least one recharge basin was filled. Little or no changes were observed on or near the Site in the 1980 aerial photograph. However, by 1994, the Site contained three industrial buildings and appears similar to that observed during the Site visit.

3.2. Phase I results

3.2.1. GPR survey results

Results were initially submitted in the approved Work Plan dated March 1998 (revised May 1999). A brief summary of the relationship between the observed GPR reflectors and formerly used subsurface structures (identified from historical records) is presented below. The basis of this relationship was established by comparing the results of the GPR survey, the visual graphic GPR output and figures illustrating current and historic site usage.

The results are described in context of current property ownership. Consistent with the output of the GPR SIR-2 unit, depths below land surface (bls) are reported in meters and are discussed in three ranges:

1. upper - 0 to 1 meter bls
2. moderate - 1 to 2 meters bls; and
3. deep - 2 to 5 meters bls.

Several maps were developed to illustrate the relationship of GPR reflectors to a predetermined depth pattern based on historical data, particularly the depth of individual structures (e.g., no structure was identified that was greater than five meters below ground surface on historical maps of the Sylvania facility) as well as the overall patterns of the GPR reflectors. The maps are included as part of the work plan.

The depth distribution of identified GPR reflectors include greater than one-half meter, greater than one meter, greater than two meters, greater than three meters, and greater than four meters. The majority of total reflectors identified at the former Sylvania Electric Products facility were between 0.3 and 3.3 meters (one foot to ten feet) bls. No reflectors were found greater than 5.28 meters (16 feet) in depth.

Golf Driving Range

The Nassau County Parks Department (Cantiague Park) Golf Driving Range ("driving range") comprises the eastern most portion of the study area. The area is relatively flat, sloping eastward away from the fence that separates this area from the Site. Forty-two GPR profiles of up to five meters in depth were obtained from this area of study. GPR profiles indicate a well-defined reflective surface characteristic of sandy soils that thin to the west.

Gilbert Displays, Inc.

The Gilbert Displays, Inc. area was formerly the location of Sylvania's Recharge Basin #3 and Building #8 where, according to the 1960 site map, burning and chemical processing took place. Reflectors in this area corresponded to the location of Recharge Basin #3. The absence of reflectors in the area of Building #8 (profiles 345-351) suggest that subsurface structures associated with this building no longer exist. GPR reflectors identified within the parking lot area are likely a result of fill and regrading prior to construction.

Magazine Distributors, Inc.

Magazine Distributors was historically occupied by Building #6 and #7. Several metal sheds, recharge basins #1 and #2, and a reservoir were also reportedly located east and south of the building.

GPR profiles confirmed the presence of reflectors corresponding to the location of Recharge Basin #1 (profiles 355-376 and 436), Recharge Basin #2 (profiles 534-548) and the reservoir basin west of Pump House Building #7 (profiles 577-589). The deepest GPR reflectors correspond with the central axis of each of the recharge basins, suggesting that the basins were abandoned by filling. The fill material did not exhibit small, well-defined reflectors, which would be indicative of metal debris. Additionally, GPR profiles 550 to 555 (excluding 554) illustrated well-defined subsurface reflectors. These reflectors correspond to the underground storage tanks southeast of the Magazine Distributors.

Air Techniques, Inc.

The study area included the parking areas, the former location of six small buildings, and the northern portion of Recharge Basin #4. The GPR profiles contained reflectors that correspond, and thereby confirm, the location of Recharge Basin #4 (profiles 446-460) and the footprint of former utility buildings. A deep reflector trend was observed corresponding to a series of former manholes and drains. No evidence of extensive buried metal debris was noted. A single moderate depth reflector (4-5 feet bls), was north of the former gas storage shed (Building # 11, profiles 490 and 491).

Based on the results of the GPR survey and historical information, invasive surface and subsurface sampling were recommended at several locations. These locations were the focus of the Phase II soil boring investigation.

3.2.2. USRADS survey results

The exterior USRADS survey results are illustrated on the NavTracMaps developed during each survey was submitted in the approved work plan dated March 1998 (revised May 1999). Background radiation readings

varied for each property surveyed. Variation is normal and is attributed to location, whether the survey was done in an area of exposed surface soils, and in response to different NaI detectors.

Nassau County Parks Department (Cantiague Park) Golf Driving Range

The golf driving range survey was conducted along the east side of the fence that separates the former Sylvania Electric Products Facility and the driving range. Background radiation readings ranged between 8,600 cpm and 9,900 cpm. NYSDEC background sample readings, adjacent to the Cantiague Park exit road, ranged between 7,600 cpm and 8,000 cpm.

Locations of above background radiation on the golf driving range property were:

- A 15 feet by 10 feet area at the southeastern corner of the Gilbert Displays property as shown at the 150 feet point on the NavTrackMap (radiation readings ranged between 1.5 and two times background).
- A 10 feet by 10 feet area between fence poles 31 and 32, at a distance of 305 feet to 315 feet as indicated on the NavTrackMap.

Gilbert Displays Property

The survey was conducted in the east and south-side parking areas and driveway. Background radiation readings ranged from approximately 6,800 cpm to 8,800 cpm with slightly elevated readings in the following locations:

A 100 feet by 20 feet area (point 11 on NavTrackMap) adjacent to the back of Gilbert Displays building which exhibited readings approximately 1.5 times background. The radiation readings could be related to the building construction materials.

A 20 feet by 80 feet area was detected at the southeast corner of the property. This area is comprised of a 10 feet by 40 feet area where radiation levels were twice background and a 30 by 10 feet area where levels were recorded greater than 2.5 times background. Radiation levels at the property boundary were approximately five times background.

Magazine Distributors Inc. Property

The survey was conducted in both the south and east side parking areas. The background radiation reading on December 6, 1997 was 6,165 cpm and on February 7, 1998 was 2,000 cpm. Above background levels of radiation were noted at the following locations:

An approximate five feet diameter area in the south-side parking area, 104 feet west of fence corner post and 33 feet north of the fence-line that separates Magazine Distributors Inc. and Air Techniques (-250 feet point

on the NavTrackMap) that exhibited readings of 1.5 to 2 times background.

The two northernmost blacktop entrance ramps in the east-side parking area (-100 and -150 feet point on the NavTrackMap) where readings were about twice background.

The corner of the property line between Magazine Distributors and Gilbert Displays (fence poles 17 and 18) exhibited readings about three times background.

An approximate 20 feet diameter area, 18 feet west of pole 30, exhibited readings up to four times background.

An area approximately 27 feet west of poles 40 and 41 exhibited readings up to 1.5 times background.

Air Techniques Property

Background radiation readings from the eastern and northern parking areas ranged between 5,000 cpm and 6,500 cpm. Locations of above background levels of radiation identified during the survey include:

An area about the diameter of a quarter, 20 feet from the northeast corner of building (500,-100) exhibited readings over three times background.

A 20 feet by 20 feet area at the eastern edge of the north parking area (-150 feet point on the NavTrackMap) exhibited readings approximately three times background. The center of this area (approximately one foot in diameter), exhibited readings 50 times background at 0.5 feet above ground surface and 100 times background approximately one cm above the ground surface suggesting a near surface point source.

Four additional areas, where readings were approximately twice background. The geometry of the first two areas coincided with areas where the asphalt parking lot was patched. The third area covered was 20 feet by 40 feet and in the eastern parking lot about five feet from the fence line with Magazine Distributors Inc. The fourth area was at the western end on the north parking lot between a subsurface concrete vault and the Air Techniques building.

USRADS Survey Summary

Most of the above background readings were twice background or less. A very localized area approximately one foot in diameter at the eastern edge of the Air Techniques north parking area exhibited readings 50 times background. Further evaluation of each of the above background areas was performed during the Phase II Investigation. Additional details on the findings can be reviewed in the work plan.

4. Phase II field activities

This section describes the field methods used to characterize the former Sylvania facility. As mentioned in Section 1, the investigation was performed in two phases: Phase II was comprised of invasive field activities conducted in the summer of 1999 (July 7 through 23, 1999 and August 9 through 12, 1999).

Phase II investigation field efforts included the following:

- Site reconnaissance,
- Utilities clearance,
- Soil borings installation,
- Subsurface soil sampling,
- Temporary well installation, and
- Ground water gauging and sampling.

The field methods used for the Phase II investigation are described in the following sections.

4.1. Site characterization methods

4.1.1. Utility clearance

Prior to initiation of the Phase II field activities, sampling locations were designated and marked in concurrence with GTEOSI and NYSDEC.

On June 28, 1999, O'Brien & Gere contacted Underground Facilities Protection Organization (UFPO) – One call (NYC area), file #1790052, to locate and mark underground utilities at #70, #100, and #140 Cantiague Rock Road (Air Techniques, Inc., Magazine Distributors, Inc., and Gilbert Displays, Inc.). Both on- and near-site utilities were identified. Utilities contacted included: Lippa Brooklyn Union East, Bell Atlantic ("No Cuts" 718-225-1177); AT&T (800-252-1133); Cablevision (516-393-3221); Nassau County Department of Public Works Traffic Signal Center (516-572-0465); and Teleport Communications Group (516-247-5680).

One call would only coordinate the locations of utilities for those companies subscribing to their service. Additionally, subsurface lines were only identified if they are on public property and right-of-ways. Therefore, O'Brien & Gere subcontracted NAEVA Geophysics, Inc. of Tappan, New York to perform a supplemental utility clearance on the private portions of the property and to confirm UFPO findings. NAEVA investigated the area around each proposed boring location using a Radio Detection RD-600 Electromagnetic (EM) utility-locating instrument, a Fisher TW-6 shallow-focus terrain conductivity meter, a Metrotech 50/60 EM receiver to detect conduits that carry 60 Hz current in the 440 to 20,000 volt range, a Dyntel 500A EM transmitter and receiver, and GSSI-Sir-3 GPR instrumentation.

The locations of subsurface objects, pipes, and utilities, are dependent upon the recognition of magnetic fields or electromagnetic waves. Color codings used by NAEVA corresponded to standard underground utility line markings: red for electric, yellow for gas-oil-steam, orange for communications-CATV, blue for water, green for sewer, pink for temporary survey markings, and white for areas of proposed excavation. The painted markings can be seen in several of the photographs (Appendix A).

The majority of the utilities were located on the front (west side) of the property off of Cantiague Rock Road.

4.1.2. Surface and subsurface soil investigation

The field investigation was completed during the period from July 7, 1999 through July 23, 1999 and August 9, 1999 through August 12, 1999 in accordance with the approved work plan. The objective of the surface and subsurface soil samples were to evaluate the nature and extent of process residuals related to former Site usage. Although only seventy-one borings were originally defined in the work plan, the work plan was designed to accommodate additional borings in response to field results. Therefore, the number of borings was expanded to 128 due to field conditions and the need to delineate areas where residuals were found. In nearly each instance, NYSDEC personnel participated in and concurred with the selection of soil boring locations.

The cores were obtained using a direct push methodology (Hurricane truck mounted Geoprobe®). Geoprobe® soil samples were collected using four-foot soil cores within acetate sleeves. The soil cores and split-spoons started from the ground surface at each sample location, and proceeded to a depth dictated by the area being investigated, the presence or absence of above-background levels of radioactivity, and the headspace or soil vapor VOC readings. At a minimum, in areas where fill was found to exist, the borings were advanced into the underlying native material, if possible. Areas of surface radiation were probed approximately four feet until elevated levels of radiation or other

constituents were no longer present. Locations of suspected subsurface radiation were investigated to eight feet beneath the pavement or until background readings were obtained. Finally, areas that formerly contained a structure were advanced 16 feet or to refusal. Refusal was encountered in several of the borings due to running sand. A table showing the boring depths is included as Table 1. Soil boring logs are in Appendix C.

For Health and Safety purposes the steel casing was scanned for gamma radiation as it was removed from the hole. Additionally, the 0.016" acetate liners, which were used inside the steel casings, were scanned immediately upon retrieval for the presence of beta radiation (prior to opening and logging the soil core). Additionally, several wipe samples were collected from the acetate liners and analyzed in the field for radiation to evaluate whether the liners were being cross-contaminated between cores. No cross contamination was detected.

Soils were described according to the Wentworth Soil Classification System by an on-site O'Brien & Gere geologist. Soil descriptions included: soil type, color, percent recovery, moisture content, odor and other miscellaneous observations such as organic content and cohesiveness. A representative portion of each sample was retained for analysis and labeled with: site name, boring number, sample interval, date, and time of collection. When more than one discrete subsurface zone within a soil boring exhibited evidence of process residuals, either by visual observation or by field screening, additional soil samples were collected and analyzed for the described parameters.

A portion of the samples was placed in a ziplock® bag and sealed for portable photoionization detectors (PID) headspace field screening for VOCs. Soil screening was performed to assist in locating borings and select samples to be submitted for analysis. Field screening results consisted of soil vapor readings, down hole field readings for both alpha and beta radiation and infield (trailer readings) radiation core measurements for alpha, beta, and gamma. The field screening results are provided in Tables 2 through 4. Figure 6 depicts the boring location and soil vapor data results.

Extensive field screening were performed to evaluate and select the soil interval(s) from the soil core to be sent to the laboratory for a series of analysis: radionuclide, VOCs, semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and mercury. Sample recoveries ranged from 0 to 100 percent. Recoveries often varied due to subsurface conditions (uniform sand). Specific procedures and methodologies were presented in the NYSDEC approved Field Sampling Plan (FSP).

4.1.3. Worker exposure monitoring

Exposure monitoring was conducted during fieldwork activities to evaluate if Site workers were exposed to chemicals or radiation during fieldwork and if so, to what extent. On Site air monitoring included the use of a PID, a portable aerosol monitor (DustTrak) and radiation detection instrumentation. Field analytical equipment was calibrated, and tested to see if it is in good working condition immediately prior to each day's use. This calibration ensured that the equipment was functioning within the allowable tolerances that were established by the manufacturer and required by the project. Records of all instrument calibration were maintained by field personnel. Details of the monitoring devices and purpose are provided below:

Photoionization Detector

The PID monitors total concentrations of many hazardous and some inorganic gases and vapors (compounds with an ionization potential of less than 10.6 eV). The instrument ionizes molecules using UV radiation by producing a current that is proportional to the number of ions present. The instrument was calibrated and recharged daily using a standard calibration gas specified by the manufacturer. Calibration data were recorded in field notebooks and on calibration log sheets.

Radiation Survey Instruments

Radiation survey instruments were used to screen soil samples for radioactivity and monitor breathing zone levels for exposure to radioactive particles. Prior to use, daily pre-operational checks including a source check were performed on radiation survey instruments using a gamma source fabricated and standardized by O'Brien & Gere Laboratories. The observed counts were recorded and were found to be within 10 percent of the standard value established during calibration.

Thermoluminescent Dosimeters (TLD)

Both a whole body (pocket style) and ring badge were worn by personnel engaged in field activities to evaluate beta and gamma radiation exposure to the body and to extremities. The TLD contain crystals of lithium fluoride that when exposed to radiation become excited and have the ability to maintain an excited state over a long period of time. The energy accumulated from the exposure to radiation is maintained in the badge media until it is analyzed. Landauer analytical reports from the period June 1, 1999 through June 30, 1999 and July 1, 1999 through July 31, 1999 indicate minimal reporting service of less than 1 mrem for both the pocket and finger monitors worn (Appendix D).

Pocket Dosimeters

Field workers wore pocket dosimeters to measure gamma radiation. Gamma particles create an electric charge within the dosimeter that is proportional to the activity present. These dosimeters are self-reading and show immediate exposure or daily exposure, if present, through a digital display that is read by looking at a source of light through the eyepiece end of the dosimeter. The meters work via an extremely sensitive fiber voltmeter and an ion chamber that measures the total amount of radiation to which the dosimeter has been exposed. These monitored whole body exposure during field activities.

Portable Aerosol Monitor (DustTrak)

The work area and the perimeter of the Site were monitored for alpha particles using the DustTrak. The DustTrak replaced the Real-Time Aerosol Monitor (RAM), which was originally proposed in the work plan to monitor the Site perimeter. The DustTrak detects the presence of total or respirable particulates through use of a laser photometer. A pump draws both solid and liquid particles through an optics chamber for measurement purposes. A supplemental method of monitoring was also conducted in the work zone using a sampling pump and filter cassette placed on the table. The filter was monitored daily.

Daily health and safety logs were maintained to account for safety inspections and other-safety-related information and equipment calibration. Logs include date and areas inspected, equipment used, monitoring performed, and work completed. No measurable levels of radioactivity were recorded on the film badges used by the workers engaged in the intrusive site investigation (Appendix D).

4.1.4. Ground water investigation

The Hurricane Geoprobe® rig was unable to penetrate the depth of the water table (approximately 70 feet below ground surface). As a result, Environmental Probing Investigations, Inc. subcontracted the work to CT&E Environmental Services, Inc. of West Creek, New Jersey. The temporary well points (specified in the work plan) were advanced using hollow-stem auger drilling methodologies and spilt-spoon sampling techniques. The temporary wells were comprised of a 2" PVC well placed in an 8" diameter borehole.

Ground water samples were collected from five monitoring wells on the Air Techniques property (MW-01 through MW-05) and the three-upgradient wells at the Nassau County Department of Public Works (W-24, W-24D, and W-25) to confirm previous sampling results and update information on ground water quality beneath the Site. Additionally, five temporary well points (TW-01 through TW-05) were advanced to evaluate ground water quality conditions in areas not monitored by the existing monitoring well network.

The ground water samples were analyzed for VOC, SVOC, metals including cyanide, and radionuclide parameters in accordance with the Quality Assurance Project Plan (QAPP). Due to high turbidity, several ground water samples were filtered through a 0.45-micron filter. Both filtered and unfiltered metals and radioactivity samples were collected and analyzed to evaluate if the residual concentrations detected are in the water or in colloidal form.

4.2. Data analysis

4.2.1. Laboratory methods

Samples were collected from July 7, 1999 to July 16, 1999, from July 19, 1999 to July 23, 1999, and from August 9, 1999 to August 12, 1999. Sample analysis were performed by O'Brien & Gere Laboratories of Syracuse, New York. Samples were analyzed in accordance with the Methods for Chemical Analysis of Water and Waste, USEPA 600/4-83-020, Test Methods for Evaluating Solid Wastes, SW-486.

The samples were submitted for analysis by United States Environmental Protection Agency (USEPA) Methods with New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP-91). The samples were analyzed for the following chemical parameters: VOCs (GC/MS - USEPA Method 8260B), SVOCs (USEPA Method 8270C), PCBs (USEPA Method 8082), ICP Metals (USEPA Method 6010B), Mercury (USEPA Method 7470A and 7471A), Total Cyanide (USEPA 9010B/9014), and Percent Total Solids (USEPA 2540-G). Several of the samples also underwent radiochemistry analyses using Los Alamos National Laboratory (LANL) and United States Department of Energy (USDOE) Methods (USEPA Methods 907, 900/9310, 600-50, and 901.1). The samples were analyzed using gamma spectrometry (LANL ER-130 Method, 901.1 modified), gross alpha/gross beta analysis (Method 900.0), alpha spectroscopy for thorium (EML TH-01 modified) and uranium (EML U-02 modified) or radium.

Data Management

Analytical results were received from the laboratory in hardcopy and electronic formats. The electronic data were used to establish a database to develop summary tables and for use in the data validation and human exposure evaluation. The data were manually reviewed during the data validation to assure consistency and correct any reporting errors that may have occurred during data entry.

Data Validation and Usability Assessment

Data validation is a process of determining the suitability of a measurement system for providing useful analytical data. Although the term is frequently used in discussing methodologies, it applies to all aspects of the system and especially to samples, their measurement and the actual data output. The validation used guidance methodologies were presented in the QAPP. The data validation reports are presented in Appendix E.

The analytical data generated for this investigation were evaluated by O'Brien & Gere Engineers using the quality assurance/quality control (QA/QC) criteria established in the project QAPP and specified in Section 4.2.1 Laboratory Methods. Excursions from the QA/QC criteria were qualified based on guidance provided in the USEPA Region II Contract Laboratory Program (CLP) Organics Data Review, SOP No. HW-6, Revision #11, the USEPA Region II Evaluation of Metals Data, CLP 3/90.

Analytical reporting requirements are presented in Section 8 of the QAPP and in the approved work plan. Five qualifiers were used during the data validation process "R", "U", "J", "JI", and "BU". The use of these qualifiers is consistent with guidance presented in *USEPA Risk Assessment Guidance for Superfund* (USEPA 1992a) and is presented in the data validation report Appendix E.

The data validation indicated that 100 percent of the PCBs, metals, mercury, cyanide and radiochemistry data was determined usable. Approximately 98.9 percent of the VOCs and 99.6 percent of the SVOCs were determined usable for qualitative and quantitative purposes.

4.2.2. Radiochemical data validation and interpretation

Data analyzed by gross alpha/gross beta, gamma and alpha spectrometry were evaluated using the USDOE Guidance for Radiochemical Data Validation, RD4, and the Science Applications International Corporation (SAIC) Laboratory Data Validation Guidelines for Evaluating Radionuclide Analyzes, 143-ARCS-92.01, Revision 05, for conventional quality assurance and quality control parameters such as holding times, sample preservation, calibration, system performance and document completeness. Radiochemical data were found to be 100 percent usable.

Unlike chemical data, however, additional interpretation of Site radiochemical data were required following validation, due primarily to nature of the analysis. The remainder of this section is devoted to a description of the interpretation approach and radionuclide analysis in general.

Site data were identified using a step-wise approach which for the majority of the acquired data consisting of gross alpha/beta analysis as a screening step, gamma spectrometry as a second more specific test to identify gamma emitters, and lastly alpha spectrometry as a confirmation step. Gross alpha/beta analysis, applied to each sample analyzed, including ground water, was useful in evaluating above background radioactivity and the need to proceed to more specific testing. The methodology follows that specified in EPA Method 900.0. To determine gross alpha/beta activity using this method, samples are plated onto a 2" diameter planchet and counted using a low-background proportional counter. Data are reported as total alpha activity and total beta activity relative to the system's calibration source. O'Brien and Gere Laboratories' (the analytical laboratory for this project) proportional counters are calibrated using americium-241 for the alpha source and strontium/yttrium-90 for the beta source. The reported alpha and beta activity must be interpreted in comparison to these isotopes, recognizing that they are fairly energetic. Thus, the total activity would be underestimated if the actual emission were from an isotope yielding a lower energy emission. For Site data this situation did not present any difficulties because elevated levels of alpha/beta activity were readily discernible in comparison to background and when compared to each other.

Gamma spectrometry analyses were performed as a qualitative method for determining what gamma emitting isotopes were present and a semi-quantitative method for determining the approximate activities for the detected isotopes. The methodology follows EPA Method 901.1. Using this method, soil samples obtained from the Site were dried, ground, homogenized, and weighed into 75mL jars. The samples were then allowed to set for at least 21 days in order to allow the radon-222 and its daughters, which may have been driven off in the preparation steps, to re-establish equilibrium.

Samples submitted for gamma analyses were counted using high-purity germanium (HPGe) gamma detectors. Data were interpreted by comparing peaks detected versus a natural occurring radioactive materials (NORM) software library maintained with the instrumentation. The laboratory reported an isotope whenever a peak was detected, whether the activity was above detection levels or not. Though many emitters have unique "finger-prints" for energies of gamma emissions, many energies are shared by multiple isotopes; and, therefore, may cause the system software to over-estimate activities for those isotopes. Interference corrections were performed when the software criteria for being able to perform such corrections were met, but, for many isotopes, such corrections are not easily possible. The effect of the presence of interfering isotopes is an over-estimate of each isotope's activity.

To resolve this overestimation to the extent possible, site isotopic data involving radium-226 and uranium-235 analyzed by gamma spectrometry were evaluated using the following equation furnished by John Kadlec, NYSDEC Bureau of Radiation and Pesticides. It should

be noted that: these isotopes interfere with each other at the 186 keV energy level; this is the only gamma energy level that is exhibited by radium-226; and that uranium-235 has other gamma energies available that can be used to determine the activity of uranium-235.

Where:

pCi/g – picocuries/gram of uranium-235 at the 143 keV energy level

cts – counts as reported by the laboratory

sec- counting time

eff – instrument efficiency

intensity – percent gamma emitted at 143 keV energy level

g – grams uranium sample weight

$$pCi/g = \frac{cts}{sec} 27.03 \frac{1}{eff} \times \frac{1}{intensity} \times \frac{1}{g}$$

To eliminate uranium-235 from the 186 keV energy level (the interference peak), the uranium-235 calculated at the 143 keV energy level is subtracted from the reported 186 keV activity yielding the possible radium-226 sample activity. By careful examination of the data in this manner, the principle isotopes present in a sample and exhibiting interferences may be quantified.

Alpha spectrometry was used as a final step to evaluate select samples for the presence of uranium and thorium, the principle isotopes that were identified via gamma spectrometry. It was also used to confirm the presence or absence of radium-226 in several water and soil samples. Alpha spectrometry provides an extremely accurate quantitative method for determining uranium, thorium, and radium activities. The methodology follows that specified by EPA Method 907.0. Because interfering isotopes are separated out in the sample purification steps, the methodology is fairly isolated from interferences.

The methodology follows procedures developed at the USDOE's Idaho National Engineering Laboratory. It involves the digestion of soil, micro-precipitation of interfering chemicals and isotopes, precipitation of radium with barium and alpha spectrometry counting. The method is accurate to about 1 pCi/g for radium-226 and its immediate alpha-emitting daughters.

Ground water samples analyzed via alpha spectrometry confirmed that radium-226 is not present in ground water at the Site. Analysis of soil

samples indicated that radium might be present in isolated areas at relatively low levels, generally less than 5 pCi/g.

5. Nature and extent of residuals

The investigation focused on the nature and extent of process residuals (VOCs and radionuclides in the soil and ground water at the Site) related to former Site usage. The field activities were conducted in two phases in order to mobilize a second drill rig to the Site capable of penetrating to the depth necessary to obtain ground water samples.

5.1. Soil characterization

Soil characterization within the study area consisted of the advancement of soil borings, soil screening and the collection of soil samples. The boring depths were based on site-specific areas of interest and encountered field conditions.

- Areas of surface radiation were probed approximately four feet until elevated levels of radiation or other constituents were no longer encountered based on downhole and core screening data.
- Locations of suspected subsurface radiation were investigated to approximately eight feet beneath the pavement.
- Areas that formerly contained a structure (leaching pool) were advanced 16 feet or to refusal.

Refusal was encountered in several of the borings at between 5 feet and 12 feet due to drilling conditions, sand and cobbles, that packed around the drill tools. Borings were given multiple designations were advanced because either: refusal was encountered in the original boring location and a second boring was advanced in close proximity to the first (SB-010A and SB-010B) or elevated concentrations of compounds were detected during field screening and further borings were performed to delineate the subsurface (SB-009A through SB-009E).

The field soil screening was used to evaluate the presence of beta or gamma radiation prior to opening and logging the core, health and safety purposes, and to aid in the selection of samples to be submitted for laboratory analysis. The field screening results (downhole and core screening data) are presented as Tables 2 through 4.

Extensive field screenings were performed to evaluate and select the soil interval(s) from the soil core to be sent to the laboratory for a series of analysis: radionuclide, VOCs, SVOCs, metals, PCBs, and mercury.

Table 10, Sample Identification and Analytical Summary, provides the boring locations and analysis run on a per sample basis. Radionuclide analytical results for gross alpha/beta analysis, gamma spectroscopy, and alpha spectroscopy is provided in Tables 11 through 13. Chemical analytical results for the soil borings are presented as Tables 14 through 17.

Air Techniques

Subsurface soil sampling performed in the Air Techniques Study area consisted of the advancement of twenty-two soil borings (SB-01 through SB-14 including SB-004A through SB-004C and SB-009A through SB-009E). Both SB-004 and SB-009 were installed in areas where elevated counts of radiation were detected during the USRADs survey. The areas investigated and background information explaining the placement of the soil borings at Air Techniques are provided in Table 5.

Radionuclide Data

Forty-seven soil samples at various depths were collected and analyzed for radionuclides. Gross alpha ranged from 2.8 pCi/g in SB-009 (36 – 48” bls) to 230,000 pCi/g in SB-009 (6–12” bls). Gross beta ranged from not detected in SB-009A (46 – 48” bls) to 130,799 pCi/g in SB-009D (12–18” bls). Radioactive nuclides, primarily thorium and uranium, were detected in the soils in SB-004A through SB-004C and SB-009A through SB-009E using gamma spectroscopy. Figure 8 shows the boring locations, sample interval(s) and concentration of each radionuclide detected. It should be noted that both the SB-004 and SB-009 areas are extremely isolated areas in the Air Techniques parking lot, away from actual parking spaces.

Alpha spectroscopy was used to further examine SB-004A, SB-009E, and SB-003. Alpha spectroscopy can be used to evaluate thorium and uranium or radium. Thorium-228 (31.4 pCi/g), thorium-230 (1440 pCi/g), thorium-232 (67.9 pCi/g), uranium-233/234 (43.3 pCi/g), uranium-233/234 (43.3 pCi/g), uranium-235/236 (9.54 pCi/g) and uranium-238 (46.5 pCi/g) were detected in the sample collected from SB-004A. Uranium-233/234 (22.9 pCi/g) and uranium-238 (21 pCi/g) were detected in SB-009E. Unlike the analysis conducted on SB-004A and SB-009E, SB-003 (12-18”) was analyzed for the presence or absence of radium-226 using alpha spectroscopy. Radium-226 was detected at 30.01 pCi/g.

Chemical Data

Low levels of VOCs, primarily tetrachloroethylene and trichloroethene, were detected in boring SB-006 (0 – 24” bls), near a historic dry well on the south side of the building (Table 14). However, no elevated concentrations of SVOCs were detected in SB-006 or the other samples analyzed from the Air Techniques Property (Table 15). Aroclor 1254 was detected at low concentrations (0.004J mg/Kg to 0.1 mg/Kg) in five

of the seven samples analyzed (SB-005, SB-006, SB-010B, SB-011, and SB-012). These borings were advanced to investigate the former transformer yard and historic recharge basin. Eight soil samples were analyzed for metals (Table 17). Nickel and thallium were detected slightly above background (13 mg/Kg for nickel and 0.41 mg/Kg for thallium) in SB-012 (120-144" bls) at concentrations of 17.9 mg/Kg and 1.1J mg/Kg, respectively. Additionally, SB-010B (48-72" bls) contained 0.41 mg/Kg of silver.

Area Analytical Summary

Borings were advanced on the Air Techniques property to investigate former structures, recharge basins, and areas of above background radioactivity identified during the USRADS survey. Areas with detected constituents consisting of several radioisotopes and metals are extremely isolated and localized. VOCs were not found in at any appreciable levels in subsurface soils on this property.

Magazine Distributors

Subsurface soil sampling performed in the Magazine Distributors Study area consisted of the advancement of approximately sixty soil borings (SB-15 through SB-17, SB-63 through SB-96, and SB-98 through SB-104). The areas investigated and background information explaining the placement of the soil borings at Magazine Distributors are provided in Table 6.

Radionuclide Data

Forty-four samples, collected at various depths, were analyzed for radionuclides. Gross alpha ranged from not detected in SB-100 (68-90" bls) and SB-101B (40-46" bls) to 1,698 pCi/g in SB-077 (126-132" bls). Gross beta ranged from 3.63 pCi/g in SB-101B to 969 pCi/g in SB-077. Radioactive nuclides, primarily thorium and uranium, were detected in several of the surface and subsurface soils at the Magazine Distributors Site. Figure 8 shows the boring locations and concentration of each radionuclide detected. The highest concentrations detected appear to be in select areas south of the building. Alpha spectroscopy was used to analyze SB-082 (180-192" bls) and SB-089 (168-192" bls). Uranium-233/234 (22.4 pCi/g) and uranium-238 (20.5 pCi/g) were detected in SB-082. No thorium or uranium was detected in SB-089. These borings were installed to evaluate historic leaching pools and other underground structures. On November 22, 1999, SB-016 (30-42") was analyzed for the presence or absence of radium-226 using alpha spectroscopy. Radium-226 was detected at 1.28 pCi/g.

Chemical Data

VOC analyses was run on approximately half of the samples collected from this area. Three borings, SB-017A (30-36" bls), SB-064 (96-108" bls), and SB-067 (72-88" bls) had concentrations of tetrachloroethylene

at 9.4 mg/Kg, 17 mg/Kg, and 170 mg/Kg, respectively. Concentrations of trichloroethene were 29 mg/Kg in SB-017A, 0.12J ug/Kg in SB-064, and 0.18 ug/Kg in SB-067 (Table 14). SVOCs were detected at minimal concentrations at the Magazine Distributors property (Table 15). PCB analysis was run on several of the samples. SB-079, down gradient of the former underground tank locations and east of the historic electrical transformer, contained 2 mg/Kg Aroclor 1254 (Table 16). Nine samples contained above background concentrations of nickel and two samples contained above background concentrations of magnesium (Table 17). The isolated areas of above background metals, primarily nickel, appear to be confined to depths greater than 4 feet.

Area Analytical Summary

The investigation at Magazine Distributors focused on historic recharge basins, former buildings, a historic underground tank area, and a reservoir. Significant impacts did not appear to be present in the soils in and around the historic recharge basin. The historic tanks were in areas paved areas that exhibited elevated soil vapor readings and above background levels of radioactivity. The reservoir did not exhibit either elevated levels of either radionuclides or VOCs.

Gilbert Displays

Subsurface soil sampling performed in the Gilbert Displays study area consisted of the advancement of forty-five soil borings (SB-18 through SB-29, SB-35 through SB-62, SB-97, and SB-105 through SB-109). The areas investigated and background information explaining the placement of the soil borings on the Gilbert Displays Property are provided in Table 7.

Radionuclide Data

Thirty-three samples, collected at various depths were analyzed for radionuclides. Gross alpha ranged from 4.8 pCi/g in SB-28 (32-46" bls) to 147,251 pCi/g in SB-45 (72-78" bls) (Table 11). Gross beta ranged from 8.1 pCi/g in SB-068 (54-68" bls) to 139,098 pCi/g in SB-45 (72-78" bls). Radioactive nuclides, primarily thorium and uranium, were detected in the soils at the Gilbert Displays Site. Figure 8 shows the boring locations and concentration of each radionuclide detected. The highest concentrations detected appear to be on the east side of the building.

Alpha spectroscopy was used to further examine nine samples (Table 13). No detectable thorium or uranium was noted in SB-022 or SB-037. In the remaining samples, thorium-228 was detected at 37.8 pCi/g in SB-024, thorium-230 was detected at 16.9 in SB-024, thorium-232 was detected in borings SB-023B, SB-024, SB-037, SB-040, SB-041, and SB-049 at concentrations ranging from 5.5 pCi/g in SB-040 (0-24" bls) to 334 pCi/g in SB-024 (66-84" bls). Uranium-233/234 was detected in SB-023B, SB-037, SB-040, SB-041, SB-049, and SB-059 at

concentrations ranging from 13.1 pCi/g in SB-059 (120–144" bls) to 1,060 pCi/g in SB-041 (12-18" bls). Uranium-235/236 was detected in SB-023B, SB-037, SB-040, SB-041, SB-049, and SB-059 at concentrations ranging from 4.3 pCi/g in SB-040 to 117 pCi/g in SB-041. Uranium-238 was detected in SB-023B, SB-037, SB-040, SB-041, SB-049, and SB-059 at concentrations ranging from 14.7 pCi/g in SB-059 to 1,190 pCi/g in SB-041. In samples SB-023B, SB-024, SB-037, SB-040, SB-041, SB-049, and SB-059. Uranium-233/234 ranged from not detected to 22.4 pCi/g in SB-082. Uranium-238 was detected at 20.5 pCi/g in SB-082. On November 22, 1999, SB-105 (70-76") was analyzed for the presence or absence of radium-226 using alpha spectroscopy. Radium-226 was detected at 2.35 pCi/g.

Chemical Data

VOCs, primarily tetrachlorethene and trichloroethene, were detected in four borings, SB-54, SB-49A, SB-24, and SB-105. Eight samples contained low levels of SVOCs including chrysene (SB-024 and SB-105) and benzo(a)anthracene, which are probably related to the presence of asphalt. Five of the samples were analyzed for PCBs (Table 16). Aroclor 1254 was detected at concentrations of 0.03 mg/Kg in SB-023B (160-177" bls), 0.02 mg/Kg in SB-035 (120-144" bls), 0.01 mg/Kg in SB-037 (168-192" bls), 5 mg/Kg in SB-054 (96-120" bls), and 0.02 mg/Kg in SB-097 (168-192" bls). Six samples collected from SB-023B, SB-024, SB-035, SB-054 and SB-105 contained above background concentrations of metals, primarily nickel (Table 17). Beryllium, chromium, copper and lead were also detected at depths above background levels in SB-024 and SB-105. The isolated areas of above background metals appear to be confined to depths greater than 4 feet.

Area Analytical Summary

The main areas of investigation at the Gilbert Displays parcel were the former buildings, recharge basins, and leaching pools. The soils adjacent to the east side of the building (denoted by SB-024 and SB-045) contained both VOCs and radionuclides. Both the vertical and lateral extent of these residuals appear to have been defined through the installation of additional borings. Soil borings were installed in the historic recharge basin footprint and around the perimeter of the basin.

Nassau County Parks Department Golf Course

This area is not currently nor formerly part of the Site production facilities, but it was investigated to: confirm sampling previously conducted by NYSDEC showing above background levels of radioactivity in surface soils along the fence line at the rear of Gilbert Displays and Magazine Distributors; to establish area background levels of soil radionuclides; supplement geologic information and, confirm historic records reviewed.

Twelve soil borings (BK-001, BK-002, SB-025, SB-027 through SB-034) at various depths were collected and analyzed for radionuclides. The background information explaining the placement of the soil borings at the golf course driving range is provided in Table 8.

Radionuclide Data

Thirteen soil samples were collected at various depths and analyzed for radionuclides. Gross alpha ranged from not detected in several of the samples to 525.2 pCi/g in SB-025 (2-18" bls). Gross beta ranged from not detected in BK-001 (68-88" bls) to 337.8 pCi/g in SB-025 (0-18" bls). Radioactive nuclides, primarily thorium and uranium, were detected in several soil sample at the Nassau County Parks Department Golf Course Driving Range (Figure 8).

Chemical Data

No detectable concentrations of SVOCs were found in the four soil samples collected (BK-001, SB-027, SB-028, and SB-032) (Table 15). Although metals were detected in SB-027, SB-028, and SB-032, the concentrations did not exceed background (Table 17).

5.2. Water characterization

Water characterization within the study area consisted of gauging and sampling of eight accessible monitoring wells and five temporary well points using approved low flow sampling techniques. The depth to ground water at the Site ranges from 67.72 feet bgs in MW-04 to 71.16 feet bgs in W-25. Depths to water and water elevation measurements are included in Table 9.

Based on ground water measurements collected from August 9, 1999 through August 12, 1999 the ground water flows to the south. Figure 10 provides a ground water flow map with ground water equipotential lines from previous investigations superimposed on the adjacent parcels.

Infiltration and percolation through the soils to the ground water is one potential means of transporting residuals to the ground water. Water samples were collected and analyzed for VOCs, SVOCs, metals, and radionuclides (gross alpha/beta, gamma spectroscopy, and alpha spectroscopy). Both VOCs and radionuclides have been detected in the ground water at the Site. The concentrations of the VOCs, primarily tetrachloroethylene and trichloroethene, are provided in Table 21 and in Figure 11. No radium was identified in the Site ground water.

It should be noted that public well location maps provided by Mr. John Lovejoy, Nassau County Department of Health indicate that there are no active public supply wells on or immediately downgradient of the Site.

Additionally, Article IV of the Nassau County Public Health Ordinance and the New York State Plumbing Code indicate that private wells used for public water supply purposes cannot be installed in areas in which public water is available. Therefore, the water in the area is not currently and is unlikely to be used as a potable source in the future, although public well development in the area is not prohibited by Article IV. Public, potable water supply wells near the Site contain VOCs due to sources unrelated to the Site (NCDOH 1997). Well head treatment for these wells include air strippers to remove the VOCs. Furthermore, there are no irrigation wells on the Nassau County Parks Department Golf Course according to administrative personnel.

Air Techniques

Ground water sampling performed at the Air Techniques Study area consisted of gauging and sampling five permanent monitoring wells (MW-1 through MW-5) and two temporary well points (TW-03 and TW-04). This parcel has been the subject of an on-going ground water investigation since 1995 by GTEOSI (ERM 1997).

TW-03 was installed in the northeast corner of the Site to evaluate if process related residuals in ground water are present at this location. TW-03 is 74.22 feet deep. Temporary well TW-04 was installed to a depth of 75.45 feet bls., in the area formerly known as recharge basin #1 to evaluate the ground water down gradient of Magazine Distributors. Depths to water in the wells ranged from 67.72 feet bls in MW-04 (on the south side of the Site) to 69.12 in MW-05 on the northeastern corner of the Site (Table 9). A generalized ground water flow map is provided as Figure 10.

Radionuclide Data

Seven ground water samples (five field filtered) were analyzed for radionuclides. Gross alpha ranged from 0.1pCi/L in MW-4 to 424.6 pCi/L in TW-4. However, when the sample collected from TW-04 was field filtered and analyzed this elevated reading dropped to 5.3-pCi/L indicating that most of the alpha activity was associated with particles and not associated with ground water. Gross beta ranged from 1.1 pCi/L in MW-3 to 223 pCi/L in TW-4 dropping to 2.7 pCi/L when filtered. Using alpha spectroscopy analysis to further examine MW-1, thorium-232 was detected at a concentration of 2.65 pCi/L. On November 19, 1999, MW-02 was analyzed for radium-226 using alpha spectroscopy. Radium-226 was detected at 0.62 pCi/g.

Chemical Data

VOCs, primarily tetrachloroethylene and trichloroethene, were detected in the seven wells sampled. Concentrations of tetrachloroethylene ranged from 45 ug/l in MW-03 on the south side of Air Techniques to 1,200 ug/l in MW-05 down gradient of the former recharge basin. The concentrations of trichloroethene ranged from 2 ug/l in MW-03 to 30

ug/l in MW-02. One well sampled, MW-3, also contained 0.8-ug/L toluene.

No SVOCs were detected in the samples. The seven samples were also analyzed for total metals (two of the samples were analyzed both filtered and unfiltered). Nickel, iron, and sodium were detected in several of the non-filtered samples. However, the field-filtered samples indicated that concentrations of antimony, arsenic, copper, iron, lead, manganese, nickel, and selenium are not part of the ground water flow regime, are in particulate form and not a true representation of ground water constituents.

Magazine Distributors

No ground water sampling was required at the Magazine Distributors property. TW-04 and TW-03 collected on the Air Techniques Site was representative of presumed down gradient conditions.

Gilbert Displays

Three temporary well points (TW-01, TW-02, and TW-05) were advanced on the Gilbert Displays property at locations selected in consultation with NYSDEC. TW-01 was installed on the south side of the Site in the footprint of the former Site building and down gradient of former subsurface structures (drywells, leaching pools). TW-01 was 80.1 feet deep. TW-02 was installed to a depth of 78.18 feet bls, on the west side of the building, down gradient of former recharge basin #3. Finally, TW-05 was placed on the southeastern corner of the building. This boring was located down gradient of the area of elevated radionuclides defined by SB-024. Depths to water in the wells ranged from 69.26 feet bls in TW-02 to 69.82 in TW-05 (Table 9).

Radionuclide Data

Several samples were analyzed for radionuclides. Gross alpha ranged from 0.8 pCi/L in TW-1 (field filtered) to 3,320.3 pCi/L in TW-2. However, when the sample collected from TW-02 was field filtered and analyzed this elevated reading dropped to 194-pCi/L. Gross beta ranged from 2.9 pCi/L in TW-1 to 633.5 pCi/L in TW-5 and dropped to 37.5 pCi/L when filtered. No gamma emitting radionuclides were detected from the gamma spectroscopy. Thorium-228 (11.2 pCi/L), thorium-230 (28.8 pCi/L), thorium-232 (40.8 pCi/L), uranium-233/234 (215 pCi/L), uranium-235/236 (11.5 pCi/L) and uranium-238 (220 pCi/L) were detected in TW-02 (field filtered) using alpha spectroscopy. On November 19, 1999, TW-02 (field filtered) and TW-05 (field filtered) were analyzed for the presence or absence of radium-226 using alpha spectroscopy. Radium-226 was detected at 0.34 pCi/g and 0.11 pCi/g, respectively.

Chemical Data

The three wells contained concentrations of tetrachloroethylene ranging from 90 ug/l in TW-05 to 2,000 ug/l in TW-02. The concentrations of trichloroethene ranged from 0.6 ug/l in TW-05 to 3 ug/l in TW-02. These samples were not filtered.

Nassau County Department of Public Works

Ground water sampling performed at the upgradient site consisted of gauging and sampling the three monitoring wells (HG-W-24, HG-W-24D, and HG-W-25). Depths to water in the wells ranged from 70.57 feet bls in W-24D to 71.16 feet bls in W-25 (Table 9).

Radionuclide Data

Four water samples (three unfiltered and one field filtered) were analyzed for radionuclides. No gross alpha readings were detected. HG-W-24D contained 4.1pCi/L of gross beta. Using alpha spectroscopy, thorium-232 was detected in HG-W-24 at 5.32 pCi/L, in HG-W-24D at 2.6 pCi/L, and in HG-W-25 at 2.89 pCi/L. Thorium-230 was detected in HG-W-24D at 3.1 pCi/L and in HG-W-25 (field filtered) at 3.72 pCi/L.

Chemical Data

Tetrachloroethylene and trichloroethene were not detected in the monitoring wells north of the Site on the Nassau County Department of Public Works site. Additionally, no SVOCs were detected. The three samples were analyzed for metals. HG-W-25 was analyzed in both the filtered and unfiltered forms. Several metals were detected in the unfiltered samples. However, only sodium remained at a concentration of 117 ug/L in HG-W-25 (field filtered). Sodium was also detected in HG-W-24 and HG-W-24D; however these samples were not filtered to evaluate whether sodium concentrations were associated with the particulate fraction of the samples.

6. Exposure evaluation

The objective of this section is to present a general assessment of potential public health implications related to the radionuclide and VOC levels detected in soils and ground water at the Site relative to published regulatory levels. The Site currently includes three commercial/industrial properties: Air Techniques, Magazine Distributors, and Gilbert Displays ("properties") (Figure 2). Based on a review of constituents detected at the Site, land use at the Site and surrounding areas, and other Site specific considerations, the following conclusions are made:

- VOC levels detected in soil and soil vapor or ground water at the Site do not represent a significant risk to humans at the Site
- It is highly unlikely that workers at the Site would be exposed to radiation levels, which exceed acceptable dose limits as identified by the NRC, USEPA, or NYSDEC.

The basis for these conclusions is described in the following paragraphs. In addition, it should be noted that actual indoor air data that was not available when the original investigative report was issued in January or when it revised in August have been received and support the conclusions presented herein. The data, comprised of volatile results for PCE and TCE, will be included as an Exhibit to the investigative report issued as part of the Phase 2 investigation in early 2001.

6.1. Description of site and surrounding area

The properties are bounded by Cantiague Rock Road to the west, a golf course driving range to the east, commercial industrial properties to the south, and Nassau County Department of Public Works to the north. The properties are fenced and almost entirely covered by asphalt or buildings, with the exception of a narrow grassy strip at their eastern perimeter (herein referred to as the grassy strip). The main access and egress point to the properties is on Cantiague Rock road (herein referred to as the front of the properties). Typically, employees of these businesses enter the properties at the front of the properties, park the cars in parking lots in the front or near the grassy strip, and spend the majority of the working day inside the main buildings. At Gilbert Displays, employees may eat their lunch on the side of the building. In addition, trucks transport goods to and from the loading docks at the sides of the facilities during working hours. The truck drivers may spend their time waiting in the parking lot or in the warehouse areas.

The area investigated on the golf course driving range is comprised is highly vegetated and is not mowed or otherwise maintained. Since it is a driving range, golfers do not access this area. Maintenance workers do not frequent the area since it is not mowed, but may occasionally access the area to retrieve golf balls.

Soils at the Site are mostly sandy soils, interspersed with discrete, thin, discontinuous clay lenses. Ground water occurs at a depth of approximately 70 feet below ground surface. According to well location maps issued by the Nassau County Department of Health (NCDOH 1997), there are no active residential, municipal, or industrial ground water wells located within a 1/2 mile radius of the Site. In addition, regulations "prohibit the installation of private water system wells in those areas served by a public water system" (NCDOH 1987, Article IV). The closest active down gradient municipal wells are in the Hicksville Water District (N-7561 and N-9212) and are located approximately 1.5 miles from the Site. According to NCDOH, these wells air strippers on these wells are used to remove VOCs prior to public distribution of the water (NCDOH 1997). Based on these considerations, no human exposure will occur to constituents detected in Site ground water. As such, this pathway does not represent risk to human health. However, as noted in a letter from the NCDOH to NYSDEC dated 9/7/00, Article IV does not prohibit the use of private wells. As a result, there can be no guarantee that a private well does not exist downgradient of the Site, although none has been identified to date.

As discussed in detail in Section 5, VOCs (primarily PCE and TCE) and radionuclides (primarily uranium-238) were detected in soil and ground water at the Site. A discussion of the public health implications of the VOCs and radionuclides detected at the Site is presented below. Each section includes a brief discussion of the distribution of residuals in soil and ground water, background information regarding the mechanisms by which humans may be exposed to the residuals and an assessment of public health implications related to residuals detected at or in the vicinity of the Site.

6.2. Volatile organic compounds

A detailed discussion of VOCs detected in soil at the Site is presented in Section 5. Chlorinated solvents, primarily PCE and TCE were detected in Site soil. In addition, VOCs may evaporate from soil and ground water resulting in vapor phase concentrations in soil gas, particularly in sandy soils. Consistent with this, VOCs have been detected in soil vapor samples collected from the Site.

Distribution - The distribution and detected concentrations of VOCs in subsurface soils and soil vapor are presented in Figures 11 and 6,

respectively. Based on field observations, the VOCs occur largely in discrete subsurface lenses (greater than 4-5 feet bgs) in two areas in the back of Gilbert Displays. In comparison, lower levels of VOCs were detected in subsurface soils samples collected from the Magazine Distributors property. VOCs were not detected, or detected at very low concentrations at the Air Techniques property.

Background - The VOCs detected at the Site (PCE and TCE) have been widely used in commerce and industry as solvents, degreasing agents, or dry cleaning compounds. As with all chemicals, exposure to these chemicals may result in adverse health effects, depending on the level of exposure, frequency of exposure, and time for which individuals may be observed. A chemical may only pose a health risk if the humans come into contact with the chemical (exposure), and the chemical enters the body (uptake). Potential uptake mechanisms for PCE and TCE are ingestion via the mouth, contact and uptake across the skin, and inhalation of vapors.

VOCs may readily evaporate (hence the name "volatile" organic compounds) from soil and ground water resulting in vapor phase concentrations in soil gas, particularly in sandy soils. Consistent with this, VOCs have been detected in soil vapor samples collected from the Site. VOCs in soil vapor may infiltrate the indoor air of buildings via cracks or seams in the foundation. The extent of infiltration and resultant concentration in indoor air depend on various factors including:

- the structural integrity of the slab – infiltration is proportional to the total area of cracks or seams in the foundation
- the volume of the indoor space – concentrations in large spaces will be lower than levels in small spaces due to dilution
- ventilation rates – well ventilated spaces will have lower steady state indoor concentrations as compared with poorly ventilated spaces
- extent and location of the source area – a large source area located directly beneath a building slab will result in higher vapor infiltration as compared with a small source area.

For work environments in which these compounds are used, the Occupational Safety and Health Administration (OSHA) has published Permissible Exposure Limits – Time Weighted Average (PEL-TWA) for both PCE and TCE in air. The PEL-TWA is defined as "the time weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is believed that nearly all workers may be repeatedly exposed, day after day, without adverse effect" (ACGIH 1999). In contrast to OSHA standards, the NYSDOH has issued guidelines for PCE in "typical" indoor air settings. These guidelines state that actions should be considered to reduce exposure when an air

level is above the guideline of 100 micrograms/m³ PCE. As noted in the opening remarks to this section, recent air data indicate that there is no PCE in the Gilbert Displays building.

Unlike worker exposure, potential exposures of the general public, including children, elderly, infirm, and pregnant women, are evaluated based on health assessment methods developed and applied by the United States Environmental Protection Agency (USEPA). The USEPA has classified PCE and TCE as “probable human carcinogens”. This means that exposure to high levels of PCE and TCE have been shown to cause cancer in laboratory animals, but that there is “insufficient evidence” that these agents cause cancer in humans. According to USEPA, there is insignificant risk of cancer associated with a given chemical exposure if the estimated probability of cancer is in the range of less than one in a million to one in ten thousand depending on the specific circumstances of the exposure (NCP). Typically, the one in a million reference value may be applied in residential settings, whereas higher exposure levels would be considered to be within an acceptable range relative to industrial exposures (one in ten thousand).

Evaluation of Potential Exposures - Based on Site specific considerations, it is highly unlikely that the VOC levels detected in subsurface soils will result in adverse health impacts to humans at the Site. Furthermore, it is highly unlikely that VOCs detected in soil vapor will migrate to indoor air at levels exceeding the OSHA PEL-TWA values, USEPA significant risk levels or NYDOH guidelines given above. This is based on the following observations:

- The VOCs at the Site are in subsurface soils, which are covered by asphalt. These areas are current parking lots or driveways, and are not routinely excavated. As such, it is highly unlikely that Site workers are exposed to these materials via ingestion or dermal contact.
- The buildings are large, well ventilated buildings which would result in low indoor air concentrations
- The areas where VOCs occur are relatively small compared to the extent of the building slab.
- Bulk (advective) transport of soil gas to indoor air would be minimal because of a low pressure differential between indoor air and soil vapor. The pressure differential will be low due to open truck bay and other doors in the buildings.

Based on these considerations, it is concluded that the VOC levels detected in soil and soil vapor do not represent a significant risk to humans at the Site.

Radionuclides

Distribution – As previously discussed, the primary radionuclide detected in Site soils is uranium-238. Other radionuclides including radium-226, thorium-232, and uranium-235 were detected in samples collected from several relatively small discrete areas at the back of Gilbert Displays and at the side of Magazine Distributors, near the truck loading bay, as shown on Figure 7. In addition, uranium-238 was detected in soil samples collected from two locations at the golf course property (Figure 7). The levels of uranium-238 ranged from not detect to 1.4 pCi/g which extend approximately 6 to 8 feet onto the golf course property. Based on the samples collected, the extent of elevated radionuclide levels at the golf course driving range is restricted to the highly vegetated area at the edges of the driving range along the fence separating the Site from the driving range.

In addition to the soil samples, a surface radiation survey was performed at the Site for gamma activity. The radiation survey indicated that most of the surface readings at the Site were within background levels for the local area. However nine small areas of slightly elevated readings corresponding to two times local area background, one area greater than three times background, and one area greater than four times background were reported. These areas of elevated readings correspond to areas of elevated radiation as confirmed by the soil sampling results for radionuclides.

Background - Radiation can be defined as the process of emitting energy in the form of particles or waves. Radiation may be divided into two general categories: ionizing and non-ionizing radiation. Non-ionizing radiation does not have sufficient energy to affect cells in the human body, and therefore is generally not of concern relative to impacts on human health. All living creatures on earth are continuously exposed to ionizing radiation from natural and man made sources. Natural sources of radiation include cosmic radiation and terrestrial radiation. Cosmic radiation refers to charged particles from the sun and stars, which interact with the earth's atmosphere and magnetic field to produce a shower of radiation.

Naturally occurring terrestrial radiation refers to uranium, thorium, and their decay products which occur naturally in soil, water, and vegetation. In addition to natural sources, the general public (i.e. excluding radiation workers) are exposed to man made radiation due to widespread societal uses of radioactive materials. Man made radiation sources include tobacco, televisions, medical x-rays, smoke detectors, nuclear medical procedures, and building materials. By far, the most significant source of man made radiation exposure to the public is from medical procedures, such as diagnostic x-rays, nuclear medicine, and radiation therapy. A breakdown of the average background radiation exposure for a member of the United States population is presented as Figure 14. As shown on

Figure 14, the average background public exposure is estimated at approximately 360 mrem¹/year (NCRP 1987).

There are three main types of ionizing radiation. They may be found in sources of man-made radiation as well as natural radiation sources. They are called: alpha, beta, and gamma. Alpha particles are of lowest energy and can be shielded by a sheet of paper or by human skin. However, if radionuclides that emit alpha particles are inhaled, ingested, or enter the body through a cut in the skin, they can cause harmful effects. Some beta particles can be stopped by human skin, but some need a thicker shield (like wood) to stop them. Just like alpha particles, beta particles can also cause health impacts if they enter the body. Gamma rays are the most penetrating of the three types of radiation listed here. Gamma rays usually accompany beta, and some alpha rays. Gamma rays will penetrate paper, skin, wood, and other substances, but are generally stopped or significantly diminished by a shield such as a concrete wall. This type of radiation may damage internal organs at high exposure levels.

Theoretically, any quantity of radiation can damage cells, and therefore may result in some amount of toxic effect. Such effects may include cancer, genetic damage, and birth defects. However, at low exposure levels, there is a very small likelihood that such effects would be manifest in an exposed individual. The probability of adverse health effects is proportional to the individual radiation dose. There are four major factors that influence the potential dose associated with radiation exposure:

- *The nature and activity of the radionuclides present.* For example, the toxic potential of uranium-238 is approximately 1000 times less than radium-226 or thorium-232. Therefore, equivalent activity levels of these constituents would result in a dose associated with uranium-238, which is approximately 1,000 times less than the dose associated with radium-226.
- *The time of exposure.* The dose a person receives from external radiation is directly proportional to the length of time spent in a radiation field. Therefore, the less the time spent in a radiation field, the lower the dose received
- *Distance from the source.* The dose a person receives from an external radiation source is inversely proportional to the square of

1

There are some key measurements of radiation which are useful in evaluating potential radiation exposure. The *activity* of a radiation source refers to the rate at which the radioactive material is emitting energy. Activity is measured in units of picocuries. The *dose* of a radionuclide refers to the amount of the substance, which may be taken up by the body following a specific exposure event. Furthermore, since different radionuclides may behave differently in the body, and therefore have different biological effects, the dose term may incorporate a radionuclide specific modifying factor in proportion to the extent of damage a particular radionuclide may cause. The resultant weighted dose is known as the *effective dose equivalent*. The effective dose equivalent is expressed in units of mrem/unit time. In this report, the term dose is used as an abbreviation for the calculated effective dose equivalent.

the distance from the source. Therefore, if the dose rate at one foot is 100 mrem/hr, the dose rate at 10 feet would be 1 mrem/hr).

- *The extent of shielding.* Shielding is one of the most effective ways of reducing radiation exposure. As previously discussed, alpha and beta radiation cannot penetrate common materials such as paper, wood, concrete and asphalt. Gamma radiation is significantly attenuated by shielding materials such as lead, iron, or concrete.

Various regulatory agencies have derived guidance values in order to protect workers and the general public from unacceptable health risks associated with radiation exposures (Figure 15). The Nuclear Regulatory Commission (NRC) has published dose limits to protect workers and members of the public potentially exposed to radiation from active facilities licensed by the NRC (10 CFR Part 20) as follows:

NRC Acceptable Exposure Limits for Active Facilities	
Occupational Exposure	Whole Body (sum of external and internal dose) 5,000 mrem/yr
Public Exposure	2 mrem/hr
Declared Pregnant Women	500 mrem over the gestation period

According to the NRC, the exposure limits shown are designed such that:

- No worker at a nuclear facility will receive an acute whole body radiation exposure sufficient to trigger the radiation syndrome.
- The risk of cancer (although not zero) will not be higher than the risk of cancer from other occupations.

In contrast to active facilities, the NRC has recently published acceptable dose limit of 25 mrem/year for facilities in which the NRC licenses were to be terminated (62 FR 39058, July 21, 1997). According to NRC decommissioning protocols, a site is appropriate for unrestricted future development, including residential, if the calculated radiation dose is less than 25 mrem/year. The USEPA applies a dose limit of 15 mrem/year for clean-up of sites regulated under the Superfund program, which includes future residential land uses (USEPA 1997, OSWER Directive No. 9200.4-18). The New York State Department of Environmental Conservation (NYSDEC) has identified, on a preliminary basis, a dose limit of 10 mrem/year to evaluate health based land use options, including possible future residential development (TAGM 1993).

Evaluation of Potential Exposure - To examine potential exposures relative to detected radionuclides, Site-specific exposure variables were used to estimate a potential dose for each exposure scenario. In

consultation with NYSDEC personnel, a computer code developed by the Department of Energy entitled RESRAD for Windows version 5.91 (September 1999), was used to calculate the estimated Site-specific dose, from residual radioactive material based on conservative estimates of the magnitude, frequency, and duration of exposure for workers at the facilities. The modeled dose estimates are less than 10 mrem/year.

Site-specific observations also support the modeled dose:

- The exposures of Site investigation workers were monitored using badge dosimeters over the course of the Site investigation. The dosimeter results indicated no monitored doses exceeding 1 mrem/month. Since the investigation workers were present at source areas and directly handling subsurface soils, it is highly unlikely that the dose for a facility worker would exceed 1 mrem/month and would be less than 10 mrem/year. Facility workers would not be expected to work directly with subsurface soils nor be in these areas for a length of time greater than investigative workers.
- The radionuclides in soil are mostly under paving which completely shields alpha and beta emissions, and mitigates gamma emissions. This is consistent with the surface gamma survey indicating that most of the Site is consistent with background radiation readings, and the surface readings at potential source areas were between 2-4 times background.
- The expected duration that an individual may be exposed to radionuclides in soils at the golf course driving range is very small, since that portion of the golf course in question is in a highly vegetated area along the periphery of the range, and would not be routinely accessed by golf course users or maintenance personnel.

Based on these considerations, it is concluded that it is highly unlikely that the workers at the Site, or humans at adjacent locations would be exposed to radiation levels which exceed acceptable dose limits as identified by the NRC, USEPA, or NYSDEC. It should be noted that these levels do not address future Site usage under different circumstances such as residential conditions.

7. Conclusions

The investigation of the Former Sylvania Electric Products Incorporated facility, documented in this report, was conducted in accordance with the investigative requirements under the VCP agreement signed between GTEOSI and NYSDEC, dated April 1998. The investigation was conducted in a series of steps that were sequenced to:

- review available documentation regarding the physical layout of plant facilities when the Site actively engaged in manufacturing by GTEOSI's predecessor (in interest) companies and to evaluate the processes that accompanied manufacturing activities to determine the focus of the investigation in terms of locations and process residuals,
- investigate subsurface soils beneath the footprint of the former buildings and in the vicinity of the underground structures by installing over 100 soil borings at the Site,
- collect and analyze the soils for the presence of residues that were indicative of former Site processes, and
- collect and analyze ground water samples from areas selected on the basis of historical information, screening conducted on boring cores, and from previously installed monitoring wells.

From the execution of these steps and evaluation of the collected data, it may be concluded that:

- There are several areas of above background radiation on each of the properties investigated. The areas are isolated and with the exception of surface soils at the rear of Gilbert Displays and Magazine Distributors, previously identified by NYSDEC, are confined to the subsurface beneath paved areas. Soils on the Nassau County Parks Department golf course driving range and containing above background levels of radiation were confined to the small areas along the common fence line between Gilbert Displays, Magazine Distributors and the driving range.
- There are isolated areas of above background metals, primarily nickel, on various portions of Magazine Distributors and Gilbert Displays. Above background metals appear to be confined to depths greater than 4 feet.

- PCE and to a lesser extent, TCE, exist in soils as well as ground water at several locations on Gilbert Displays and Magazine Distributors, Inc.
- VOC levels detected in soil and soil vapor or ground water at the Site do not represent a significant risk to humans at the Site.
- It is highly unlikely that the workers at the Site, or humans at adjacent locations would be exposed to radiation levels that exceed acceptable dose limits as identified by the NRC, USEPA, or NYSDEC under current Site usage.

Finally, the investigation was performed in accordance with the approved Work Plan and modifications to the approved Work Plan made by NYSDEC personnel. This certification is made in accordance with Section I of the VCP agreement.

References

American Conference of Government and Industrial Hygienists (ACGIH). 1999. Threshold Limit Values for Chemical Substances and Physical Agents. Cincinnati, Ohio.

APHA, AWWA, WPCF, 1992. *Standard Methods for the Examination of Water and Wastewater*, 18th Edition, Washington, D.C.

Eckhardt, D.A.V., W.J. Flipse, Jr., E.T. Oaksford, 1989. Relation Between Land Use and Ground water Quality in the Upper Glacial Aquifer in Nassau and Suffolk Counties, Long Island, New York, U.S. Geological Survey, Water Resources Investigations Report 86-4142.

Environmental Data Resources (EDR). 1997. EDR-Radius Map with Geocheck: Magazine Distributors, Inc. 100 Cantiague Rock Road, Hicksville, New York 11801 Inquiry Number 0164614.1r.

Environmental Data Resources (EDR). 1999. EDR-Aerial Photographs: 70 -140 Cantiague Rock Road, Hicksville, New York 11801.

EEA, Inc. 1991. Environmental Investigation of 140 Cantiague Road (currently Gilbert Displays)

ERM-Northeast. 1987. Subsurface Investigation. Air Techniques.

ERM-Northeast. 1997. Summary Report of Ground Water Monitoring Program- Air Techniques Facility

Ibister, J. 1966. Geology and Hydrology of Northeastern Nassau County, Long Island, New York. Geologic Survey Water - Supply Paper 1825.

Kadlecek, Jack. 1999. NYSDEC personal communication to Mr. Jeff Banikowski of O'Brien & Gere.

Kelly, Tim. 1997. Nassau County Department of Public of Works. Telephone Conversation with Mr. Jeffrey Banikowski of O'Brien & Gere.

Kilburn, C., 1979. Hydrogeology of the Town of North Hempstead, Nassau, Long Island, New York, Long Island Water Resources Bulletin 12.

Los Alamos National Laboratory (LANL) 1995. Health and Environmental Chemistry: Analytical Techniques, Data Management, and Quality Assurance, LA-10300-M, Vol. II, Los Alamos, New Mexico.

Nassau County Department of Health (NCDOH). 1986. Site Information.

Nassau County Department of Health (NCDOH). 1987. Article IV

Nassau County Department of Health (NCDOH). 1991. Site Information

Nassau County Department of Health. 1997. *Ground Water and Public Water Supply Facts for Nassau County, New York*

National Commission on Radiological Protection (NCRP). 1987. Report No. 93. "Ionizing Radiation Exposure of the Population of the United States".

New York State Department of Environmental Conservation (NYSDEC). 1989. Division of Technical and Administrative Guidance Memorandum (TAGM): *Guidelines for Remedial Investigations/Feasibility Studies HWR-89-4025*. March 1989.

New York State Department of Environmental Conservation. 1995. *Analytical Services Protocol (ASP)*, Revisions. Albany, New York. October 1995.

New York State Department of Environmental Conservation. 1993. Technical Administrative Guidance Memorandum #4003. *Cleanup Guideline for Soils Contaminated with Radioactive Materials*. September 14, 1993.

New York State Department of Environmental Conservation. 1997. PRAP. General Instrument Corporation. Hicksville, New York.

Nuclear Regulatory Commission (NRC). 1994. Review of Nuclear Element Production License by the Nuclear Regulatory Commission.

Nuclear Regulatory Commission. 1996. Inspection Report Number 070-00097/96-001. Gilbert Displays, Inc. (former Sylvania Facility).

Nuclear Regulatory Commission. 1997. Survey of Public Area Adjacent to the Former Sylvania, Inc. Facility, Hicksville, NY. Letter from NRC to the NYSDEC Region I.

O'Brien & Gere Engineers, Inc. 1998. Ground Penetration Radar Survey and Exterior Radiation Survey Results, Hicksville, New York.

_____. 1998b. *Work Plan Former Sylvania Electric Products Incorporated Facility, Cantiague Rock Road, Hicksville, New York*, Syracuse, New York.

Peterson, D.S. 1988. Recharge rates in Nassau and Suffolk Counties, New York, U.S. Geological Survey, Water Resources Investigations Report 86-4181.

Science Applications International Corporation (SAIC) 1992. *Laboratory Data Validation Guidelines for Evaluating Radionuclide Analyzes*, 143-ARCS-92.01, Revision 05, Oak Ridge, Tennessee.

Smolensky, D.A and S.M. Feldman. 1988 Geohydrology of the Bethpage - Hicksville - Levitown Area, Long Island, New York, Water Resources Investigations Report 88-4135.

Stearns and Wheler. 1992. *Remedial Investigation, General Instrument Corporation, Hicksville, New York*. January 1992.

United States Department of Agriculture (USDA). 1987. Nassau County Soil Survey.

United States Department of Energy (NYSDOE). 1979. Department of Energy Report. Letter to the NRC Regarding Radionuclide Data for the Former Sylvania Site in Hicksville, New York.

United States Department of Energy. (NYSDOE). 1990. *Environmental Measurements Laboratory (EML) Procedures Manual*, 27th Edition, Volume 1, New York, New York.

United States Department of Energy. (NYSDOE). 1995. *Guidance for Radiochemical Data Validation*, RD4, Gaithersburg, Maryland. United States Environmental Protection Agency 1996. *Soil Screening Guidance*. Washington, DC.

United States Department of Energy. (NYSDOE). 1999. RESRAD for Windows Software Version 5.91 (software version of *Manual for Implementation Residual Radioactive Material Guidelines Using RESRAD – Version 5.0*, Final Draft). September 1999.

United States Environmental Protection Agency. (USEPA). 1980. *Prescribed Procedures for the Measurement of Radioactivity in Drinking Water*, EPA-600/4-80-032. Washington, D.C.

United States Environmental Protection Agency. 1988. *Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA Interim Final*. USEPA/540/G-89/004. October 1988.

United States Environmental Protection Agency. 1992a. *Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part A)*, 540/1-891002. Washington, D.C.

_____. 1992b. *USEPA Region II Evaluation of Metals Data for the Contract Laboratory Program (CLP) March 1990*. New York, New York.

United States Environmental Protection Agency. 1995. *Guidance for Risk Characterization*.

United States Environmental Protection Agency. 1996. *USEPA Region II CLP Organics Data Review, SOP No. HW-6, Revision #11*. New York, New York.

United States Environmental Protection Agency. 1997. *Ecological Risk Assessment for Superfund: Process for Designing and Conducting Ecological Risk Assessments*. June 1997.

_____. 1997b. *Establishment of Cleanup Levels for CERCLA Sites with Radioactive Contamination, Memo from Stephen Luftig, Director of Office of Emergency & Remedial Response*. OSWER Directive No. 9200.4-18

_____. 1997c. *Methods for Chemical Analysis of Water and Waste*. USEPA/600/4-83/020. *Test Methods for Evaluating Solid Wastes, SW-486*.

United States Environmental Protection Agency. 1999. *Risk Based Concentration Table* – October 1999. USEPA Region III.

Soil boring depths

**Table 1
Soil Boring Depth**

**Former Sylvania Electric Products Inc. Facility
Hicksville, New York**

Boring	Depth	Boring	Depth	Boring	Depth
BK-001	96"	SB-032	60"	SB-072	96"
BK-002	96"	SB-033	48"	SB-073	192"
SB-001	96"	SB-034	48"	SB-074	192"
SB-002	96"	SB-035A	144"	SB-075	192"
SB-003	96"	SB-035B	162"	SB-076	192"
SB-004A	18"	SB-036	96"	SB-077	192"
SB-004B	15"	SB-037	192"	SB-078	192"
SB-004C	15"	SB-038	60"	SB-079	240"
SB-005	192"	SB-039	96"	SB-080	192"
SB-006	144"	SB-040	96"	SB-081	192"
SB-007	180"	SB-041	120"	SB-082	192"
SB-008	192"	SB-042	144"	SB-083	96"
SB-009A	96"	SB-043	92"	SB-084	96"
SB-009B	96"	SB-044	144"	SB-085A	132"
SB-009C	72"	SB-045	232"	SB-085B	168"
SB-009D	72"	SB-046	144"	SB-086	180"
SB-009E	72"	SB-047	134"	SB-087	180"
SB-010A	120"	SB-048	120"	SB-088	192"
SB-010B	144"	SB-049A	156"	SB-089	192"
SB-011	96"	SB-049B	240"	SB-090A	168"
SB-012	180"	SB-050	156"	SB-090B	120"
SB-013	144"	SB-051	96"	SB-091	192"
SB-014	180"	SB-052	60"	SB-092	192"
SB-015	192"	SB-053	60"	SB-093	192"
SB-016	192"	SB-054	117"	SB-094	96"
SB-017A	60"	SB-055	96"	SB-095	96"
SB-017B	196"	SB-056	96"	SB-096	84"
SB-018	96"	SB-057	96"	SB-097	192"
SB-019	192"	SB-058	60"	SB-098	144"
SB-020	90"	SB-059	144"	SB-099	84"
SB-021	96"	SB-060	60"	SB-100	96"
SB-022	96"	SB-061	60"	SB101A	48"
SB-023A	96"	SB-062	60"	SB101B	48"
SB-023B	192"	SB-063	192"	SB-102	96"
SB-024	144"	SB-064	132"	SB-103	144"
SB-025	60"	SB-065	144"	SB-104	96"
SB-026	60"	SB-066	112"	SB-105	96"
SB-027	48"	SB-067	96"	SB-106	72"
SB-028	48"	SB-068	96"	SB-107	96"
SB-029	60"	SB-069	192"	SB-108	96"
SB-030A	48"	SB-070	96"	SB-109	96"
SB-030B	48"	SB-071A	192"	SG-001	60"
SB-031	48"	SB-071B	48"		

**Soil vapor volatile organic
compound data**



Table 2

GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor

Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	BK-001 48 - 60 in. 07/12/99 BK ug/m3	BK-002 48 - 60 in. 07/12/99 BK ug/m3	SB-001 48 - 60 in 07/07/99 AT ug/m3	SB-002 48 - 60 in. 07/07/99 AT ug/m3	SB-002 (Dup) 48 - 60 in. 07/07/99 AT ug/m3	SB-003 48 - 60 in. 07/07/99 AT Area 1C ug/m3	SB-005 48 - 60 in. 07/07/99 AT ug/m3	SB-006 48 - 60 in. 07/08/99 AT ug/m3	SB-007 48 - 60 in. 07/08/99 AT ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		501.9 U	501.9 U	25094.93	4510.3	4381.44	35268.55	10851.86	5676.88	400.16
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		499.58 U	499.58 U	499.58 U	499.58 U	499.58 U	2669.77	499.58 U	359.91	499.58 U
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		---	---	25094.93	4510.3	4381.44	37938.32	10851.86	6036.79	400.16

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-008 48 - 60 in. 07/08/99 AT Area 1B ug/m3	SB-009 48 - 60 in. 07/08/99 AT Area 1B ug/m3	SB-010 48 - 60 in. 07/08/99 AT ug/m3	SB-010B 48 - 60 in. 07/09/99 AT ug/m3	SB-011 48 - 60 in. 07/08/99 AT ug/m3	SB-012 48 - 60 in. 07/09/99 AT ug/m3	SB-013 48 - 60 in. 07/09/99 AT ug/m3	SB-014 48 - 60 in. 07/09/99 AT ug/m3	SB-015 48 - 60 in. 07/10/99 MD ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		183.13	3058.87	13564.83	1776.99	4069.45	6782.41	501.9 U	250.95	27129.65
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		499.58 U	499.58 U	499.58 U	499.58 U	456.6	300.82	499.58 U	499.58 U	22024.29
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	5645.03	7816.2	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		183.13	3058.87	13564.83	1776.99	4526.05	7083.23	5645.03	8067.15	49153.94

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



Table 2

GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-016 48 - 60 in. 07/10/99 MD ug/m3	SB-016 (Dup) 48 - 60 in. 07/10/99 MD ug/m3	SB-017A 48 - 60 in. 07/10/99 MD ug/m3	SB-017A (Dup) 48 - 60 in. 07/10/99 MD ug/m3	SB-018 48 - 60 in. 07/10/99 GD ug/m3	SB-019 48 - 60 in. 07/10/99 GD ug/m3	SB-020 48 - 60 in. 07/11/99 GD ug/m3	SB-021 48 - 60 in. 07/11/99 GD ug/m3	SB-022 48 - 60 in. 07/11/99 GD ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		21703.72	25094.93	56294.03	71215.34	37981.51	4083.01	189.91	501.9 U	501.9 U
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		15040.98	16115.34	141814.97	172434.11	564.04	166.53	499.58 U	499.58 U	499.58 U
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		36744.7	41210.27	198109	243649.45	38545.55	4249.54	189.91	---	---

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-023B 48 - 60 in. 07/11/99 GD Area 3C ug/m3	SB-024 48 - 60 in. 07/11/99 GD Area 3C ug/m3	SB-025 48 - 60 in. 07/11/99 GD Area 3A ug/m3	SB-026 48 - 60 in. 07/11/99 GD Area 3A ug/m3	SB-029 48 - 60 in. 07/12/99 GC Area 3A ug/m3	SB-032 48 - 60 in. 07/12/99 GC Area 2 ug/m3	SB-035A 48 - 60 in. 07/11/99 GD ug/m3	SB-036 48 - 60 in. 07/11/99 GD Area 3A ug/m3	SB-037 48 - 60 in. 07/13/99 GD ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		16277.79	840340.98	1932.99	12208.34	406.94	3730.33	40016.24	17634.27	172273.29
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		188.01	5371.78	499.58 U	768.16	499.58 U	499.58 U	284.7	499.58 U	891.72
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	971.38	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	118.94	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		16465.8	845712.76	1932.99	14066.82	406.94	3730.33	40300.94	17634.27	173165.01

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works



GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-037 (Dup) 48 - 60 in. 07/13/99 GD ug/m3	SB-038 48 - 60 in. 07/13/99 GD Area 3A ug/m3	SB-039 48 - 60 in. 07/13/99 GD ug/m3	SB-040 48 - 60 in. 07/13/99 GD ug/m3	SB-041 48 - 60 in. 07/13/99 GD ug/m3	SB-042 48 - 60 in. 07/13/99 GD ug/m3	SB-043 48 - 60 in. 07/13/99 GD ug/m3	SB-044 48 - 60 in. 07/13/99 GD ug/m3	SB-045 48 - 60 in. 07/14/99 GD Area 3C ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		183803.39	501.9 U	535.81	10851.86	150569.57	25094.93	48155.13	187872.84	661963.52
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		913.2	499.58 U	499.58 U	499.58 U	499.58 U	209.5	499.58 U	1052.87	3346.62
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		184716.59	---	535.81	10851.86	150569.57	25304.43	48155.13	188925.71	665310.14

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor

Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-045 (Dup) 48 - 60 in 07/14/99 GD Area 3C ug/m3	SB-046 48 - 60 in. 07/14/99 GD ug/m3	SB-047 48 - 60 in. 07/14/99 GD Area 3C ug/m3	SB-048 48 - 60 in. 07/14/99 GD ug/m3	SB-049 48 - 60 in. 07/14/99 GD ug/m3	SB-050 48 - 60 in. 07/14/99 GD ug/m3	SB-051 48 - 60 in. 07/15/99 GD ug/m3	SB-052 48 - 60 in. 07/15/99 GD ug/m3	SB-053 48 - 60 in. 07/15/99 GD ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		520211.08	325555.83	1244572.8	502576.81	1440584.54	572435.66	28486.13	50189.86	94953.78
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		2685.89	633.87	1810.29	1074.36	4737.91	1536.33	349.17	1224.77	4018.09
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	559.04
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	134.8
Total VOCs		522896.97	326189.7	1246383.09	503651.17	1445322.45	573971.99	28835.3	51414.63	99665.71

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works



GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-054 48 - 60 in. 07/15/99 GD ug/m3	SB-054 (Dup) 48 - 60 in. 07/15/99 GD ug/m3	SB-055 48 - 60 in. 07/15/99 GD ug/m3	SB-056 48 - 60 in. 07/15/99 GD ug/m3	SB-057 48 - 60 in. 07/15/99 GD ug/m3	SB-058 48 - 60 in. 07/15/99 GD Area 3A ug/m3	SB-059 48 - 60 in. 07/16/99 GD ug/m3	SB-059 (Dup) 48 - 60 in. 07/16/99 GD ug/m3	SB-060 48 - 60 in. 07/16/99 GD Area 3A ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		359467.89	359467.89	38659.75	71215.34	52224.58	18312.52	134291.78	132257.06	46120.41
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		8594.85	8594.85	1633.02	553.29	499.58 U	499.58 U	472.72	467.34	499.58 U
cis-1,2-Dichloroethene		1526.46	1526.46	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		483.71	202.21	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		370072.91	369791.41	40292.77	71768.63	52224.58	18312.52	134764.5	132724.4	46120.41

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-061 48 - 60 in. 07/16/99 GD ug/m3	SB-062 48 - 60 in. 07/16/99 GD ug/m3	SB-063 48 - 60 in. 07/19/99 MD ug/m3	SB-064 48 - 60 in. 07/19/99 MD ug/m3	SB-064 (Dup) 48 - 60 in. 07/19/99 MD ug/m3	SB-065 48 - 60 in. 07/19/99 MD ug/m3	SB-066 48 - 60 in. 07/19/99 MD ug/m3	SB-067 48 - 60 in. 07/19/99 MD ug/m3	SB-068 48 - 60 in. 07/19/99 MD ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U				
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U				
Tetrachloroethene		128187.61	4659.52	15599.55	172273.29	167525.6	3153.82	189907.57	850514.6	10173.62
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U				
Trichloroethene		499.58 U	499.58 U	1074.36	5371.78	5371.78	499.58 U	5908.96	11280.74	499.58 U
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	3516.8	3584.2	499.57 U	2993.44	2735.73	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U				
trans-1,2-Dichloroethene		---	515.43 U	515.43 U	130.84	142.73	515.43 U	138.77	138.77	515.43 U
Total VOCs		128187.61	4659.52	16673.91	181292.71	176624.31	3153.82	198948.74	864669.84	10173.62

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-069 48 - 60 in. 07/19/99 MD ug/m3	SB-070 48 - 60 in. 07/20/99 MD ug/m3	SB-071 48 - 60 in. 07/20/99 MD ug/m3	SB-072 48 - 60 in. 07/20/99 MD ug/m3	SB-072 (Dup) 48 - 60 in. 07/20/99 MD ug/m3	SB-073 48 - 60 in. 07/20/99 MD ug/m3	SB-074 48 - 60 in. 07/20/99 MD ug/m3	SB-075 48 - 60 in. 07/20/99 MD ug/m3	SB-076 48 - 60 in. 07/20/99 MD ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U				
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U				
Tetrachloroethene		8138.9	8138.9	13564.83	13564.83	13564.83	16277.79	127509.37	110553.33	244845.11
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U				
Trichloroethene		1509.47	499.58 U	295.45	499.58 U	499.58 U	252.47	4238.33	789.65	2164.83
cis-1,2-Dichloroethene		499.57 U	499.57 U	3013.27	499.57 U	499.57 U				
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U				
trans-1,2-Dichloroethene		515.43 U	515.43 U	337.01	515.43 U	515.43 U				
Total VOCs		9648.37	8138.9	13860.28	13564.83	13564.83	16530.26	135097.98	111342.98	247009.94

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works



Table 2

GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-077 48 - 60 in. 07/20/99 MD ug/m3	SB-078 48 - 60 in. 07/21/99 MD ug/m3	SB-079 48 - 60 in. 07/21/99 MD ug/m3	SB-079 (Dup) 48 - 60 in. 07/21/99 MD ug/m3	SB-080 48 - 60 in. 07/21/99 MD ug/m3	SB-081 48 - 60 in. 07/21/99 MD ug/m3	SB-082 48 - 60 in. 07/21/99 MD ug/m3	SB-083 48 - 60 in. 07/21/99 MD ug/m3	SB-084 48 - 60 in. 07/21/99 MD ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		12886.58	38659.75	27807.89	27807.89	25094.93	17634.27	95632.02	24416.69	27807.89
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		5371.78	39213.99	13966.63	13429.45	5908.96	12355.09	60163.93	499.58 U	499.58 U
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		18258.36	77873.74	41774.52	41237.34	31003.89	29989.36	155795.95	24416.69	27807.89

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



**GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor**

Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-085 48 - 60 in. 07/21/99 MD ug/m3	SB-086 48 - 60 in. 07/21/99 MD ug/m3	SB-087 48 - 60 in. 07/21/99 MD ug/m3	SB-088 48 - 60 in. 07/22/99 MD ug/m3	SB-089 48 - 60 in. 07/22/99 MD ug/m3	SB-090 48 - 60 in. 07/22/99 MD ug/m3	SB-091 48 - 60 in. 07/22/99 MD ug/m3	SB-092 48 - 60 in. 07/23/99 MD ug/m3	SB-092 (Dup) 48 - 60 in. 07/23/99 MD ug/m3
Benzene		501.57 U								
Ethylbenzene		499.37 U								
Tetrachloroethene		83423.68	4055.88	949.54	1234.4	5853.22	2590.88	3262.34	4930.81	4639.17
Toluene		497.44 U								
Trichloroethene		778.91	757.42	499.58 U	977.66	977.66				
cis-1,2-Dichloroethene		1403.55	499.57 U							
o-Xylene		499.37 U								
trans-1,2-Dichloroethene		170.49	515.43 U							
Total VOCs		85776.63	4813.3	949.54	1234.4	5853.22	2590.88	3262.34	5908.47	5616.83

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



Table 2

GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Vapor
Volatile Organic Compound Data

Compound	Sample ID Depth Interval Sample Date Property * Excavation Area Units	SB-093 48 - 60 in. 07/23/99 MD ug/m3	SB-094 48 - 60 in. 07/23/99 MD ug/m3	SB-095 48 - 60 in. 07/23/99 MD ug/m3	SB-096 48 - 60 in. 07/23/99 MD ug/m3	SG-001 48 - 60 in 07/09/99 AT ug/m3	SG-002 (Manhole) 48 - 60 in. 07/19/99 ug/m3	Well A 48 - 60 in. 07/15/99 ug/m3	Well B 48 - 60 in. 07/15/99 ug/m3
Benzene		501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U	501.57 U
Ethylbenzene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
Tetrachloroethene		7460.65	73928.3	149213.09	101736.2	434.07	1220.83	37981.51	5168.2
Toluene		497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U	497.44 U
Trichloroethene		2100.37	386.77	499.58 U	945.43	499.58 U	499.58 U	499.58 U	499.58 U
cis-1,2-Dichloroethene		499.57 U	499.57 U	499.57 U	590.76	499.57 U	499.57 U	499.57 U	499.57 U
o-Xylene		499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U	499.37 U
trans-1,2-Dichloroethene		515.43 U	515.43 U	515.43 U	146.7	515.43 U	515.43 U	515.43 U	515.43 U
Total VOCs		9561.02	74315.07	149213.09	103419.09	434.07	1220.83	37981.51	5168.2

NOTES: U - not detected, J - estimated value, --- - not detected/analyzed.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.

**Downhole radiation field screening
alpha/beta data**



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	BK-001 07/12/99 BK c/min	BK-002 07/12/99 BK c/min	SB-009C 07/09/99 AT Area 1B c/min	SB-009D 07/09/99 AT Area 1B c/min	SB-009E 07/09/99 AT Area 1B c/min	SB-010B 07/09/99 AT c/min
0 in.		22	22	78	909	42	12
6 in.		---	---	---	---	---	---
12 in.		23	20	489	22422	271	30
18 in.		---	---	375	55548	---	156
24 in.		19	18	238	7064	210	57
30 in.		---	---	---	---	---	---
36 in.		14	20	56	395	93	31
42 in.		---	---	---	---	---	---
48 in.		11	23	25	321	15	43
54 in.		---	---	---	---	---	---
60 in.		17	16	18	51	---	25
66 in.		---	---	---	---	---	---
72 in.		11	17	32	42	---	23
78 in.		---	---	---	---	---	---
80 in.		---	---	---	---	---	---
84 in.		---	16	---	---	---	20
90 in.		---	---	---	---	---	---
96 in.		---	---	---	---	---	26
102 in.		---	---	---	---	---	---
108 in.		---	---	---	---	---	22
114 in.		---	---	---	---	---	---
120 in.		---	---	---	---	---	25
126 in.		---	---	---	---	---	---
132 in.		---	---	---	---	---	---
138 in.		---	---	---	---	---	15 (15)
144 in.		---	---	---	---	---	---
150 in.		---	---	---	---	---	---
156 in.		---	---	---	---	---	---
168 in.		---	---	---	---	---	---

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-012 07/09/99 AT c/min	SB-013 07/09/99 AT c/min	SB-014 07/09/99 AT c/min	SB-015 07/10/99 MD c/min	SB-016 07/10/99 MD c/min	SB-017A 07/10/99 MD c/min
0 in.		15	19	25	17	27	33
6 in.		---	---	---	---	---	---
12 in.		23	29	24	76	37	55
18 in.		---	---	---	---	---	---
24 in.		31	25	18	177	80	68
30 in.		---	---	---	---	---	---
36 in.		37	23	26	80	53	119
42 in.		---	---	---	---	---	---
48 in.		---	16	21	92	45	176
54 in.		---	---	---	---	---	356
60 in.		---	19	17	135	59	---
66 in.		---	---	---	---	---	---
72 in.		---	8 (16)	19	106	62	---
78 in.		---	---	---	---	---	---
80 in.		---	---	---	---	---	---
84 in.		---	22	18	55	45	---
90 in.		---	---	---	---	---	---
96 in.		---	25 (27)	20	123	45	---
102 in.		---	---	---	---	---	---
108 in.		---	45	16	77	31	---
114 in.		---	---	---	---	---	---
120 in.		---	25	17	66	45	---
126 in.		---	---	---	---	---	---
132 in.		---	17	22	52	27	---
138 in.		---	---	---	---	---	---
144 in.		---	12	16	49	26	---
150 in.		---	---	---	---	---	---
156 in.		---	---	13	51	30	---
168 in.		---	---	---	71	---	---

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-017B 07/10/99 MD c/min	SB-018 07/10/99 GD c/min	SB-019 07/10/99 GD c/min	SB-020 07/11/99 GD c/min	SB-021 07/11/99 GD c/min	SB-022 07/11/99 GD c/min
0 in.		21	25	19	10	17	15
6 in.		—	—	—	—	—	—
12 in.		60	84	33	34	18	25
18 in.		—	—	—	—	—	—
24 in.		75	85	23	33	19	19
30 in.		—	—	—	—	—	—
36 in.		132	43	27	24	15	23
42 in.		—	88	—	—	—	—
48 in.		859	117	19	24	22	27
54 in.		—	53	—	—	—	—
60 in.		253	72	—	11	19	29
66 in.		—	—	—	—	—	—
72 in.		127	81	—	21	13	27
78 in.		—	—	—	—	—	—
80 in.		—	—	—	—	—	—
84 in.		80	69	—	17	32	27
90 in.		—	—	—	—	—	—
96 in.		87	—	—	—	22	12
102 in.		—	—	—	—	—	—
108 in.		160	—	—	—	—	—
114 in.		—	—	—	—	—	—
120 in.		66	—	—	—	—	—
126 in.		—	—	—	—	—	—
132 in.		74	—	—	—	—	—
138 in.		—	—	—	—	—	—
144 in.		43	—	—	—	—	—
150 in.		—	—	—	—	—	—
156 in.		31	—	—	—	—	—
168 in.		—	—	—	—	—	—

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 3a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Downhole Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-023A	SB-023B	SB-024	SB-025	SB-026	SB-027
	Sample Date Property * Excavation Area Units	07/11/99 GD c/min	07/11/99 GD c/min	07/11/99 GD Area 3C c/min	07/11/99 GD Area 3A c/min	07/11/99 GD Area 3A c/min	07/12/99 GC Area 3A c/min
0 in		15	52	46	40	28	21
6 in		—	—	—	744	—	—
12 in.		51	57	84	570	229	26
18 in.		—	—	—	81	—	—
24 in.		92	197	36	33	211	36
30 in.		—	—	—	—	—	—
36 in		64	154	47	34	75	31
42 in.		—	—	—	—	—	—
48 in		55	79	171	—	49	17
54 in.		—	—	690	—	—	—
60 in.		30	46	471	—	—	—
66 in.		—	—	1794	—	—	—
72 in		40	69	24370	—	—	—
78 in.		—	—	11091	—	—	—
80 in		—	—	—	—	—	—
84 in.		72	62	3282	—	—	—
90 in.		—	—	1834	—	—	—
96 in		67	46	1054	—	—	—
102 in.		—	—	—	—	—	—
108 in.		—	56	573	—	—	—
114 in.		—	—	—	—	—	—
120 in.		—	105	229	—	—	—
126 in.		—	434	—	—	—	—
132 in.		—	1890	245	—	—	—
138 in		—	584	—	—	—	—
144 in.		—	1185	79	—	—	—
150 in.		—	—	—	—	—	—
156 in.		—	193	—	—	—	—
168 in.		—	201	—	—	—	—

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-028 07/12/99 GC Area 3A c/min	SB-029 07/12/99 GC Area 3A c/min	SB-030A 07/12/99 GC Area 2 c/min	SB-030B 07/12/99 GC Area 2 c/min	SB-031 07/12/99 GC Area 2 c/min	SB-032 07/12/99 GC Area 2 c/min
0 in.		29	28	20	25	24	34
6 in.		---	---	---	---	---	---
12 in.		25	21	27	21	40	97
18 in.		---	---	---	---	---	---
24 in.		30	35	39	28	27	50
30 in.		---	---	---	---	---	---
36 in.		26	22	---	24	13	20
42 in.		---	---	---	---	---	---
48 in.		16	23	---	12	16	21
54 in.		---	---	---	---	---	---
60 in.		---	---	---	---	---	---
66 in.		---	---	---	---	---	---
72 in.		---	---	---	---	---	---
78 in.		---	---	---	---	---	---
80 in.		---	---	---	---	---	---
84 in.		---	---	---	---	---	---
90 in.		---	---	---	---	---	---
96 in.		---	---	---	---	---	---
102 in.		---	---	---	---	---	---
108 in.		---	---	---	---	---	---
114 in.		---	---	---	---	---	---
120 in.		---	---	---	---	---	---
126 in.		---	---	---	---	---	---
132 in.		---	---	---	---	---	---
138 in.		---	---	---	---	---	---
144 in.		---	---	---	---	---	---
150 in.		---	---	---	---	---	---
156 in.		---	---	---	---	---	---
168 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-033 07/12/99 GC Area 2 c/min	SB-034 07/12/99 GC Area 2 c/min	SB-035A 07/12/99 GD c/min	SB-035B 07/12/99 GD c/min	SB-036 07/12/99 GD Area 3A c/min	SB-037 07/13/99 GD c/min
0 in.		41	25	11	23	37	21
6 in.		—	—	—	—	319	40
12 in.		44	46	15	56	120	170
18 in.		—	—	—	—	108	92
24 in.		32	30	39	28	65	54
30 in.		—	—	—	—	—	—
36 in.		31	35	30	22	29	46
42 in.		—	—	—	—	—	—
48 in.		35	28	56	69	16	60
54 in.		—	—	42	—	—	—
60 in.		—	—	—	40	21	35
66 in.		—	—	—	—	—	—
72 in.		—	—	—	23	15	29
78 in.		—	—	—	—	—	—
80 in.		—	—	—	—	—	—
84 in.		—	—	—	—	—	—
90 in.		—	—	—	26	12	24
96 in.		—	—	—	—	—	—
102 in.		—	—	—	22	—	30
108 in.		—	—	—	—	—	—
114 in.		—	—	—	17	—	31
120 in.		—	—	—	—	—	—
126 in.		—	—	—	17	—	15
132 in.		—	—	—	—	—	—
138 in.		—	—	—	13	—	23
144 in.		—	—	—	—	—	—
150 in.		—	—	—	—	—	24
156 in.		—	—	—	—	—	—
168 in.		—	—	—	—	—	—

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-038 07/13/99 GD Area 3A c/min	SB-039 07/13/99 GD c/min	SB-040 07/13/99 GD c/min	SB-041 07/13/99 GD c/min	SB-042 07/13/99 GD c/min	SB-043 07/13/99 GD c/min
0 in.		78	24	33	39	26	26
6 in		364	---	79	302	48	16
12 in		167	31	107	831	109	65
18 in.		87	---	133	324	---	74
24 in		53	26	149	196	52	183
30 in.		---	---	120	34	---	---
36 in.		41	32	47	58	103	61
42 in.		---	---	---	---	---	---
48 in		21	21	18	33	36	24
54 in.		---	---	37	---	---	---
60 in.		14	21	---	47	35	15
66 in.		---	---	---	---	---	---
72 in.		---	21	---	42	31	24
78 in		---	---	---	---	---	---
80 in		---	---	---	---	---	---
84 in.		---	---	---	---	---	---
90 in		---	17	---	40	34	---
96 in.		---	---	---	---	---	---
102 in		---	---	---	27	17	---
108 in.		---	---	---	---	---	---
114 in.		---	---	---	25	17	---
120 in.		---	---	---	---	11	---
126 in		---	---	---	35	---	---
132 in.		---	---	---	---	---	---
138 in.		---	---	---	---	---	---
144 in.		---	---	---	---	---	---
150 in.		---	---	---	---	---	---
156 in.		---	---	---	---	---	---
168 in		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-044 07/13/99 GD c/min	SB-045 07/14/99 GD Area 3C c/min	SB-046 07/14/99 GD c/min	SB-047 07/14/99 GD Area 3C c/min	SB-048 07/14/99 GD c/min	SB-049 07/14/99 GD c/min
0 in.		14	78	23	25	25	35
6 in.		40	229	—	53	—	—
12 in.		53	115	39	149	22	34
18 in.		36	92	—	323	—	47
24 in.		38	62	26	333	42	37
30 in.		—	—	21	972	—	51
36 in.		24	49	23	542	65	165
42 in.		—	—	—	125	—	55
48 in.		22	132	36	106	39	65
54 in.		—	—	—	—	—	—
60 in.		16	581	30	148	32	50
66 in.		—	—	—	—	—	—
72 in.		34	1917	22	872	50	113
78 in.		—	10976	—	423	—	—
80 in.		—	—	—	—	—	—
84 in.		40	31174	138	140	22	54
90 in.		—	73150	—	237	—	—
96 in.		36	25100	43	260	38	50
102 in.		—	14440	—	73	—	—
108 in.		20	980	52	130	22	38
114 in.		—	309	—	59	—	—
120 in.		23	202	33	—	33	100
126 in.		—	257	—	—	—	—
132 in.		19	232	37	—	—	52
138 in.		—	329	—	—	—	—
144 in.		NL	366	67	—	—	78
150 in.		—	—	—	—	—	—
156 in.		—	—	—	—	—	212
168 in.		—	—	—	—	—	—

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Alpha/Beta Data

Depth	Sample ID	SB-049B	SB-050	SB-051	SB-052	SB-053	SB-054
	Sample Date Property * Excavation Area Units	07/15/99 GD c/min	07/14/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min
0 in.		—	24	23	18	16	13
6 in.		—	49	—	—	—	—
12 in.		97	43	115	86	25	46
18 in.		—	82	160	—	—	—
24 in.		123	46	259	234	38	44
30 in.		—	56	102	—	—	—
36 in.		129	99	142	78	48	141
42 in.		—	—	—	—	—	—
48 in.		171	70	168	52	19	174
54 in.		—	—	—	—	—	—
60 in.		192	104	108	—	—	—
66 in.		—	—	—	—	—	408
72 in.		202	80	16	—	—	—
78 in.		—	—	—	—	—	263
80 in.		—	—	—	—	—	—
84 in.		157	114	26	—	—	—
90 in.		—	—	—	—	—	266
96 in.		165	69	35	—	—	302
102 in.		—	—	—	—	—	179
108 in.		163	45	—	—	—	—
114 in.		—	—	—	—	—	105
120 in.		157	36	—	—	—	—
126 in.		—	—	—	—	—	—
132 in.		127	71	—	—	—	—
138 in.		—	—	—	—	—	—
144 in.		186	60	—	—	—	—
150 in.		—	79	—	—	—	—
156 in.		158	—	—	—	—	—
168 in.		152	—	—	—	—	—

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-055	SB-056	SB-057	SB-058	SB-059	SB-060
	Sample Date Property * Excavation Area Units	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD Area 3A c/min	07/16/99 GD c/min	07/16/99 GD Area 3A c/min
0 in		29	26	22	17	32	24
6 in		---	---	---	---	---	---
12 in		38	21	29	291	54	173
18 in		---	---	---	---	---	---
24 in		26	45	36	58	131	45
30 in		89	---	---	---	---	---
36 in		252	136	22	39	117	29
42 in		86	---	---	20	---	---
48 in		52	47	18	---	50	27
54 in		---	---	---	---	---	---
60 in		20	31	9	---	30	---
66 in		---	---	---	---	---	---
72 in		28	18	22	---	38	---
78 in		---	---	---	---	---	---
80 in		---	---	---	---	---	---
84 in		19	17	10	---	51	---
90 in		23	18	---	---	---	---
96 in		---	---	---	---	---	---
102 in		---	---	---	---	51	---
108 in		---	---	---	---	---	---
114 in		---	---	---	---	36	---
120 in		---	---	---	---	---	---
126 in		---	---	---	---	48	---
132 in		---	---	---	---	---	---
138 in		---	---	---	---	19	---
144 in		---	---	---	---	---	---
150 in		---	---	---	---	---	---
156 in		---	---	---	---	---	---
168 in		---	---	---	---	---	---

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-061	SB-062	SB-063	SB-064	SB-065	SB-066
		07/16/99 GD c/min	07/16/99 GD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min
0 in		19	16	20	16	14	24
6 in		---	---	---	---	24	---
12 in		122	123	55	30	55	38
18 in.		---	---	---	---	38	---
24 in.		39	82	23	48	56	33
30 in.		---	---	---	123	55	---
36 in		26	40	52	176	66	29
42 in.		24	---	---	124	---	---
48 in.		---	18	21	82	52	15
54 in.		---	---	---	---	---	---
60 in.		---	---	27	65	33	11
66 in.		---	---	---	---	---	---
72 in		---	---	22	82	30	NL
78 in		---	---	---	---	---	---
80 in		---	---	---	---	---	---
84 in.		---	---	NL	57	20	---
90 in.		---	---	---	---	---	---
96 in.		---	---	---	---	---	---
102 in		---	---	---	NL	28	---
108 in.		---	---	---	---	---	---
114 in.		---	---	---	---	39	---
120 in.		---	---	---	---	---	---
126 in.		---	---	---	---	NL	---
132 in.		---	---	---	---	---	---
138 in		---	---	---	---	---	---
144 in.		---	---	---	---	---	---
150 in.		---	---	---	---	---	---
156 in.		---	---	---	---	---	---
168 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-067	SB-068	SB-069	SB-070	SB-071	SB-073
	Sample Date Property * Excavation Area Units	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min
0 in		20	17	17	14	21	22
6 in		---	---	---	42	---	---
12 in.		94	46	24	85	27	22
18 in.		---	---	---	47	---	---
24 in.		43	49	40	55	84	23
30 in.		---	84	---	---	---	---
36 in		42	142	49	45	74	29
42 in.		---	---	---	---	---	---
48 in		17	77	45	47	77	56
54 in		---	---	---	---	---	---
60 in.		23	23	---	21	46	36
66 in.		---	---	---	---	---	---
72 in.		20	25	---	13	73	25
78 in.		---	---	---	---	---	---
80 in		---	---	---	---	---	---
84 in.		27	15	---	16	383	17
90 in		18	---	---	---	---	---
96 in		NL	NL	---	NL	136	28
102 in		---	---	---	---	---	---
108 in.		---	---	---	---	287	11
114 in.		---	---	---	---	---	---
120 in.		---	---	---	---	257	16
126 in.		---	---	---	---	---	---
132 in.		---	---	---	---	263	12
138 in		---	---	---	---	---	---
144 in		---	---	---	---	243	17
150 in		---	---	---	---	---	---
156 in.		---	---	---	---	237	---
168 in		---	---	---	---	122	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-074	SB-075	SB-076	SB-077	SB-078	SB-079
	Sample Date Property * Excavation Area Units	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min
0 in.		9	17	7	NL	20	22
6 in.		—	—	—	—	—	—
12 in.		32	27	39	16	55	100
18 in.		—	—	—	—	—	—
24 in.		31	45	32	56	101	64
30 in.		—	—	—	—	—	—
36 in.		160	54	41	105	74	83
42 in.		—	—	—	—	—	—
48 in.		72	75	50	32	89	81
54 in.		—	—	—	—	—	—
60 in.		77	42	81	45	84	41
66 in.		—	—	—	—	—	—
72 in.		71	41	117	47	90	77
78 in.		—	—	—	—	—	—
80 in.		—	—	—	—	—	—
84 in.		46	28	243	84	66	312
90 in.		—	—	—	—	—	—
96 in.		47	34	50	68	79	214
102 in.		—	—	—	—	—	—
108 in.		80	27	123	57	40	390
114 in.		—	—	—	—	—	—
120 in.		87	49	31	NL	32	256
126 in.		—	—	—	—	—	—
132 in.		44	53	17	NL	48	271
138 in.		—	—	—	—	—	—
144 in.		15	39	32	NL	50	311
150 in.		—	—	—	—	—	—
156 in.		—	94	9	NL	38	267
168 in.		—	50	—	—	—	374

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-080 07/21/99 MD c/min	SB-081 07/21/99 MD c/min	SB-082 07/21/99 MD c/min	SB-083 07/21/99 MD c/min	SB-084 07/21/99 MD c/min	SB-085B 07/21/99 MD c/min
0 in.		25	27	16	29	26	17
6 in.		---	---	---	---	---	---
12 in.		60, 74	88	52	20	26	25
18 in.		---	---	---	---	---	---
24 in.		43	67	355	20	21	31
30 in.		---	---	---	---	---	---
36 in.		43	78	59	31	29	30
42 in.		---	---	---	---	---	---
48 in.		24	83	88	22	35	27
54 in.		---	---	---	---	---	---
60 in.		19	96	86	11	18	22
66 in.		---	---	---	---	---	---
72 in.		25	92	164	17	13	21
78 in.		---	---	---	---	---	---
80 in.		---	---	---	---	---	---
84 in.		24	98	40	14	28	21
90 in.		---	---	---	---	---	---
96 in.		17, 29	74	80	---	24	19
102 in.		---	---	---	---	---	---
108 in.		31	103	89	---	---	13
114 in.		---	---	---	---	---	---
120 in.		21	120	35	---	---	16
126 in.		---	---	---	---	---	---
132 in.		23	111	48	---	---	NL
138 in.		---	---	---	---	---	---
144 in.		27	88	49	---	---	NL
150 in.		---	---	---	---	---	---
156 in.		18	132	49	---	---	NL
168 in.		---	145	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-086	SB-087	SB-088	SB-089	SB-090	SB-090B
	Sample Date Property * Excavation Area Units	07/21/99 MD c/min	07/21/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min
0 in.		14	13	16	11	15	17
6 in.		—	—	—	—	—	—
12 in.		49	35	27	25	19	23
18 in.		—	—	—	—	—	—
24 in.		66	50	27	17	18	12
30 in.		—	—	—	—	—	—
36 in.		49	16	24	18	19	22
42 in.		—	—	—	—	—	—
48 in.		55	25	22	26	27	12
54 in.		—	—	—	—	—	—
60 in.		89	22	29	34	19	14
66 in.		—	—	—	—	—	—
72 in.		32	21	39	30	NL	17
78 in.		—	—	—	—	—	—
80 in.		—	—	—	—	—	—
84 in.		135	23	17	24	—	19
90 in.		—	—	—	—	—	—
96 in.		112	21	18	24	—	15
102 in.		—	—	—	—	—	—
108 in.		165	16	23	13	—	17
114 in.		—	—	—	—	—	—
120 in.		58	16	20	20	—	NL
126 in.		—	—	—	—	—	—
132 in.		37	22	24	20	—	—
138 in.		—	—	—	—	—	—
144 in.		32	29	13	23	—	—
150 in.		—	—	—	—	—	—
156 in.		25	12	12	12	—	—
168 in.		—	—	—	—	—	—

NOTES. NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-091	SB-092	SB-093	SB-094	SB-095	SB-096
	Sample Date Property * Excavation Area Units	07/22/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min
0 in.		22	16	20	13	--	19
6 in.		--	--	--	--	--	--
12 in.		25	66	72	79	15	46
18 in.		--	--	--	--	--	--
24 in.		26	57	69	25	44	39
30 in.		--	--	--	--	--	--
36 in.		22	50	86	27	40	14
42 in.		--	--	--	--	--	--
48 in.		18	34	76	21	38	22
54 in.		--	--	--	--	--	--
60 in.		23	36	45	15	NL	30
66 in.		--	--	--	--	--	--
72 in.		23	25	47	17	--	22
78 in.		25	--	--	--	--	--
80 in.		--	--	--	--	--	--
84 in.		NL	27	58	23	--	25
90 in.		--	--	--	22	--	--
96 in.		NL	23	55	--	--	--
102 in.		--	--	--	--	--	--
108 in.		NL	25	56	--	--	--
114 in.		--	--	--	--	--	--
120 in.		NL	33	33	--	--	--
126 in.		--	--	--	--	--	--
132 in.		NL	17	59	--	--	--
138 in.		--	--	--	--	--	--
144 in.		NL	20	49	--	--	--
150 in.		--	--	--	--	--	--
156 in.		--	20	30	--	--	--
168 in.		--	--	--	--	--	--

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-097 07/23/99 GD c/min	SB-098 08/09/99 MD c/min	SB-099 08/09/99 MD c/min	SB-100 08/09/99 MD c/min	SB-101A 08/09/99 MD c/min	SB-101B 08/09/99 MD c/min
0 in		17	22	19	17	16	15
6 in		—	—	—	—	—	—
12 in		28	185	66	61	85	78
18 in.		—	664	—	237	—	—
24 in.		46	87	46	153	89	27
30 in.		—	—	—	62	—	—
36 in.		46	43	52	45	32	33
42 in.		—	—	—	—	—	—
48 in.		48	25	32	40	20	20
54 in.		—	—	—	—	—	—
60 in.		54	13	102	33	—	—
66 in.		—	—	—	—	—	—
72 in.		56	16	115	15	—	—
78 in		—	—	—	—	—	—
80 in		—	—	75	—	—	—
84 in.		34	14	155	26	—	—
90 in		—	—	—	—	—	—
96 in		25	19	—	21	—	—
102 in.		—	—	—	—	—	—
108 in.		29	8	—	—	—	—
114 in		—	—	—	—	—	—
120 in.		44	16	—	—	—	—
126 in.		—	—	—	—	—	—
132 in.		91	NL	—	—	—	—
138 in.		96	—	—	—	—	—
144 in.		131	NL	—	—	—	—
150 in.		—	—	—	—	—	—
156 in.	43 (Cavings)	—	—	—	—	—	—
168 in.		—	—	—	—	—	—

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works

Table 3a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Downhole Radiation Field Screening
 Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-102 08/09/99 MD c/min	SB-103 08/09/99 MD c/min	SB-104 08/10/99 MD c/min	SB-105 08/10/99 GD Area 3B c/min	SB-106 08/10/99 GD c/min	SB-107 08/10/99 GD c/min
0 in.		15	15	19	27	39	25
6 in.		---	---	---	---	---	---
12 in.		43	40	48	115	65	44
18 in.		---	---	---	---	---	---
24 in.		135	46	30	232	141	48
30 in.		---	---	---	---	186	---
36 in.		160	34	31	1149	221	27
42 in.		---	---	---	---	---	---
48 in.		82	31	15	2099	58	21
54 in.		---	---	---	---	---	---
60 in.		112	20	18	18413	90	62
66 in.		---	---	---	---	---	---
72 in.		23	24	26	30077	89	31
78 in.		---	---	---	---	---	---
80 in.		---	---	---	---	---	---
84 in.		21	32	31	512	---	89
90 in.		---	---	---	---	---	---
96 in.		15	26	---	151	---	---
102 in.		---	---	---	---	---	---
108 in.		---	30	---	---	---	---
114 in.		---	---	---	---	---	---
120 in.		---	---	---	---	---	---
126 in.		---	NL	---	---	---	---
132 in.		---	---	---	---	---	---
138 in.		---	NL	---	---	---	---
144 in.		---	---	---	---	---	---
150 in.		---	NL	---	---	---	---
156 in.		---	---	---	---	---	---
168 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works



Table 3a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-108 08/10/99 GD Area 3B c/min	SB-109 08/10/99 GD c/min	SG-001 07/09/99 AT c/min
0 in		56	24	23
6 in		386	---	---
12 in		4089	58	24
18 in.		87	---	---
24 in.		41	37	33
30 in		---	---	---
36 in		38	26	19
42 in.		---	---	---
48 in.		127	35	16
54 in.		---	---	---
60 in.		210	72	---
66 in.		---	---	---
72 in.		67	52	---
78 in.		---	---	---
80 in.		---	---	---
84 in.		52	42	---
90 in		---	---	---
96 in.		43	NL	---
102 in		---	---	---
108 in.		---	---	---
114 in		---	---	---
120 in.		---	---	---
126 in.		---	---	---
132 in.		---	---	---
138 in.		---	---	---
144 in.		---	---	---
150 in.		---	---	---
156 in.		---	---	---
168 in		---	---	---

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

**Downhole radiation field screening
gamma data**

Table 3b
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Gamma Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-001 07/07/99 AT c/min	SB-002 07/07/99 AT c/min	SB-003 07/07/99 AT Area 1C c/min	SB-004A 07/07/99 AT Area 1A c/min	SB-004B 07/07/99 AT Area 1A c/min	SB-004C 07/07/99 AT Area 1A c/min
0 in.		538	536	1641	---	---	---
3 in.		---	---	---	51928	7798	3087
4.5 in.		---	---	---	45025	9017	---
6 in.		---	---	---	---	---	3560
9 in.		---	---	---	---	---	2708
12 in.		1112	1086	42307	2698	3514	2175
15 in.		---	---	40540	---	4420	2084
18 in.		---	---	16372	1948	---	---
24 in.		1040	873	4549	---	---	---
36 in.		1046	731	1498	---	---	---
48 in.		1253	708	859	---	---	---
54 in.		---	---	712	---	---	---
60 in.		984	991	---	---	---	---
66 in.		---	---	---	---	---	---
72 in.		1149	1089	---	---	---	---
78 in.		---	---	---	---	---	---
84 in.		946	---	---	---	---	---
90 in.		819	---	---	---	---	---
96 in.		---	---	---	---	---	---
108 in.		---	---	---	---	---	---
120 in.		---	---	---	---	---	---
132 in.		---	---	---	---	---	---
138 in.		---	---	---	---	---	---
144 in.		---	---	---	---	---	---

NOTES. NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 3b
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Downhole Radiation Field Screening
Gamma Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-005 07/07/99 AT c/min	SB-006 07/08/99 AT c/min	SB-007 07/08/99 AT c/min	SB-008 07/08/99 AT c/min	SB-009 07/08/99 AT Area 1B c/min	SB-009B 07/08/99 AT Area 1B c/min
0 in		642	607	620	532	102535	12938
3 in.		---	---	---	---	---	---
4 5 in		---	---	---	---	---	---
6 in.		---	---	---	---	---	---
9 in		---	---	---	---	---	---
12 in		2012	1128	1003	1586	299724	187032
15 in.		---	---	---	---	---	---
18 in.		2041	---	---	---	---	---
24 in.		2051	1362	1129	1384	69048	64958
36 in		1251	1084	1020	941	27509	5582
48 in		931	748	1098	985	45542	969
54 in.		---	---	---	---	---	---
60 in		922	704	1055	1015	54537	473
66 in		---	---	---	---	53677	---
72 in.		1035	974	1092	1113	---	444
78 in.		---	---	---	---	---	659
84 in		1142	1083	---	1419	---	---
90 in		759	---	919	---	---	---
96 in.		---	1019	---	1940	---	---
108 in.		---	1038	---	1903	---	---
120 in.		---	822	---	1855	---	---
132 in		---	655	---	1700	---	---
138 in		---	---	---	1513	---	---
144 in.		---	672	---	---	---	---

NOTES: NL - not logged
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-010 07/08/99 AT c/min
0 in.		439
3 in.		---
4 5 in.		---
6 in.		---
9 in.		---
12 in.		1117
15 in.		---
18 in.		---
24 in.		1299
36 in.		573
48 in.		474
54 in.		---
60 in.		---
66 in.		---
72 in.		---
78 in.		---
84 in.		---
90 in.		---
96 in.		---
108 in.		---
120 in.		---
132 in.		---
138 in.		---
144 in.		---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

**Soil core radiation field screening
alpha/beta data**

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	BK-001 07/12/99 BK c/min	BK-002 07/12/99 BK c/min	SB-001 07/07/99 AT c/min	SB-002 07/07/99 AT c/min	SB-003 07/07/99 AT Area 1C c/min	SB-004A 07/07/99 AT Area 1A c/min
0-3 in		---	---	---	---	---	662
0-6 in.		39	32	NL	NL	42	---
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	550
6-12 in.		37	46	NL	31	62	806
9-11 in		---	---	---	---	---	---
9-12 in		---	---	---	---	---	---
9-13 in		---	---	---	---	---	162
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	83
12-18 in.		35	40	32	44	346	---
12-48 in		---	---	---	---	---	---
15-18 in		---	---	---	---	---	---
15-21 in.		---	---	---	---	102	---
18-21 in.		---	---	---	---	---	---
18-24 in.		37	25	33	22	42	---
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in		---	---	---	---	---	---
24-28 in		---	---	---	---	---	---
24-30 in.		34	36	39	24	34	---
24-48 in		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		37	46	23	31	28	---
30-48 in.		---	---	---	---	---	---
32-48 in		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		32	---	---	---	---	---
36-40 in.		---	36	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		---	---	30	26	35	---
36-48 in		---	---	---	---	---	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in		NL	---	---	---	---	---
40-48 in.		---	NL	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in		---	---	---	---	---	---
42-46 in		---	---	---	33	44	---
42-48 in.		---	---	42	---	---	---
44-48 in		---	---	---	---	---	---
44-50 in.		---	---	41	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	34	30	---
48-52 in		---	---	---	---	---	---
48-54 in.		43	38	---	---	---	---
48-60 in.		---	---	---	---	---	---
48-89 in		---	---	---	---	---	---
50-56 in.		---	---	35	---	---	---
52-58 in.		---	---	---	27	29	---
54-60 in.		38	36	---	---	---	---
56-62 in.		---	---	26	---	---	---

NOTES. NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	BK-001 07/12/99 BK c/min	BK-002 07/12/99 BK c/min	SB-001 07/07/99 AT c/min	SB-002 07/07/99 AT c/min	SB-003 07/07/99 AT Area 1C c/min	SB-004A 07/07/99 AT Area 1A c/min
58-64 in.		---	---	---	36	33	---
60-64 in.		---	---	---	---	---	---
60-66 in.		37	41	---	---	---	---
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	32	---	---	---
64-70 in.		---	---	---	28	32	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		29	29	---	---	---	---
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	31	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	29	34	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		30	25	---	---	---	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	28	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	32	37	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		43	29	---	---	---	---
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	38	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	37	35	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	---	---	---	---	---
84-96 in.		NL	41	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	41	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	45	31	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	40	---	---	---	---
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	NL	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		---	---	---	---	---	---
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		---	---	---	---	---	---
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	---	---	---	---	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
14-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	BK-001 07/12/99 BK c/min	BK-002 07/12/99 BK c/min	SB-001 07/07/99 AT c/min	SB-002 07/07/99 AT c/min	SB-003 07/07/99 AT Area 1C c/min	SB-004A 07/07/99 AT Area 1A c/min
114-120 in.		---	---	---	---	---	---
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		---	---	---	---	---	---
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	---	---	---	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	---	---	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	---	---	---	---	---
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		---	---	---	---	---	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	---	---
168-174 in.		---	---	---	---	---	---
168-192 in.		---	---	---	---	---	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-004B 07/07/99 AT Area 1A c/min	SB-004C 07/07/99 AT Area 1A c/min	SB-005 07/07/99 AT c/min	SB-006 07/08/99 AT c/min	SB-007 07/08/99 AT c/min	SB-008 07/08/99 AT c/min
0-3 in.		30	31	---	---	---	---
0-6 in.		---	---	30	27	27	29
3-6 in.		40	31	---	---	---	---
6-9 in.		37	32	---	---	---	---
6-12 in.		---	---	26	31	40	58
9-11 in.		---	27	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		25	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		---	---	40	32	24	41
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		---	---	27	32	35	35
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		---	---	34	27	26	41
24-48 in.		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		---	---	34	27	30	---
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		---	---	23	38	42	---
36-48 in.		---	---	---	---	---	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	24	26	42	---
42-48 in.		---	---	NL	---	---	---
44-48 in.		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	NL	NL	NL	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	42	---	---	---
48-54 in.		---	---	---	31	30	33
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	35	---	---	---
54-60 in.		---	---	---	27	24	37
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-004B 07/07/99 AT Area 1A c/min	SB-004C 07/07/99 AT Area 1A c/min	SB-005 07/07/99 AT c/min	SB-006 07/08/99 AT c/min	SB-007 07/08/99 AT c/min	SB-008 07/08/99 AT c/min
58-64 in.				35			
60-64 in.							
60-66 in.							
60-96 in.					30	41	44
62-68 in.							
64-70 in.							
64-96 in.				41			
66-69 in.							
66-70 in.							
66-72 in.							
66-96 in.					36	27	48
68-74 in.							
69-72 in.							
70-76 in.							
70-96 in.				31			
72-74 in.							
72-76 in.							
72-78 in.							
72-80 in.					41	27	32
72-84 in.							
72-96 in.							
74-80 in.							
74-96 in.							
76-82 in.							
76-96 in.				21			
78-81 in.							
78-82 in.							
78-84 in.							
78-96 in.					48	45	32
80-86 in.							
81-96 in.							
82-88 in.							
84-87 in.				36			
84-88 in.							
84-90 in.							
84-96 in.					26	43	46
86-88 in.							
86-92 in.							
87-96 in.							
88-92 in.							
88-96 in.				31			
89-96 in.							
90-92 in.							
90-93 in.							
90-94 in.							
90-96 in.					39	25	
92-96 in.							47
92-98 in.							
93-96 in.				38			
94-96 in.							
96-98 in.					NL	NL	
96-102 in.							
96-144 in.					39	35	30
98-102 in.							
98-104 in.							
102-108 in.				30			
104-110 in.					32	31	32
108-110 in.				25			
108-112 in.							
108-114 in.							
108-132 in.					32	36	35
108-144 in.							
110-116 in.							
114-116 in.				28			
14-117 in.							

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-004B 07/07/99 AT Area 1A c/min	SB-004C 07/07/99 AT Area 1A c/min	SB-005 07/07/99 AT c/min	SB-006 07/08/99 AT c/min	SB-007 07/08/99 AT c/min	SB-008 07/08/99 AT c/min
114-120 in.		---	---	---	31	46	23
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	32	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		---	---	---	26	27	40
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	28	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	---	30	27	36
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	31	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	31	---	---	---
132-138 in.		---	---	---	24	28	34
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	35	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	32	---
138-144 in.		---	---	---	48	---	25
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	NL	---
142-148 in.		---	---	28	---	---	---
144-150 in.		---	---	---	---	25	36
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	32	---	---	---
150-156 in.		---	---	---	---	22	25
154-162 in.		---	---	29	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		---	---	---	---	22	25
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	28	---	27	30
166-192 in.		---	---	---	---	---	---
168-174 in.		---	---	34	---	29	26
168-192 in.		---	---	---	---	---	---
174-180 in.		---	---	18	---	36	31
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	27	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	27
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	27
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-009 07/08/99 AT Area 1B c/min	SB-009B 07/08/99 AT Area 1B c/min	SB-009C 07/09/99 AT Area 1B c/min	SB-009D 07/09/99 AT Area 1B c/min	SB-009E 07/09/99 AT Area 1B c/min	SB-010 07/08/99 AT c/min
0-3 in		---	---	---	---	---	---
0-6 in		598	40	30	97	37	29
3-6 in		---	---	---	---	---	---
6-9 in		---	---	---	---	---	---
6-12 in		31757	52	63	518	21	30
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		6989	257	85 (86)	72129	182	41
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in		1019	534	51	4433	97	46
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		813	226	85	159	96	58
24-48 in		---	---	---	---	---	---
27-30 in		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		660	113	43	63	41	45
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in		---	---	---	---	---	---
36-38 in.		60	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in		---	---	---	---	---	---
36-42 in.		---	---	---	---	---	---
36-48 in		---	43	38	45 (40)	33	29
37-48 in.		---	---	---	---	---	---
38-46 in.		NL	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in		---	---	---	---	---	28
42-48 in		---	NL	28	NL	NL	---
44-48 in		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	NL
46-48 in.		1657	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in		---	---	---	---	---	---
48-54 in		48	55	37	682	40	36
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		38	40	40	106	39	41
6-62 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-009 07/08/99 AT Area 1B c/min	SB-009B 07/08/99 AT Area 1B c/min	SB-009C 07/09/99 AT Area 1B c/min	SB-009D 07/09/99 AT Area 1B c/min	SB-009E 07/09/99 AT Area 1B c/min	SB-010 07/08/99 AT c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		40	42	40	45	32	25
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in		---	---	---	---	---	---
66-72 in.		38	26	47	34	NL	35
66-96 in		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		1379	29	---	---	---	42
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in		---	---	---	---	---	---
78-84 in.		56	37	---	---	---	28
78-96 in		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in		30	30	---	---	---	35
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in		30	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in		---	26	---	---	---	---
90-96 in		---	---	---	---	---	27
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in		---	NL	---	---	---	---
96-98 in		---	---	---	---	---	---
96-102 in		---	---	---	---	---	34
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in		---	---	---	---	---	---
102-108 in.		---	---	---	---	---	43
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	---	---	---	---	32
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-009 07/08/99 AT Area 1B c/min	SB-009B 07/08/99 AT Area 1B c/min	SB-009C 07/09/99 AT Area 1B c/min	SB-009D 07/09/99 AT Area 1B c/min	SB-009E 07/09/99 AT Area 1B c/min	SB-010 07/08/99 AT c/min
114-120 in		---	---	---	---	---	41
114-144 in		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in		---	---	---	---	---	---
120-126 in		---	---	---	---	---	---
120-144 in		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	---	---	---	---
126-144 in		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	---	---	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in		---	---	---	---	---	---
136-142 in		---	---	---	---	---	---
138-141 in		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in		---	---	---	---	---	---
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in		---	---	---	---	---	---
156-160 in		---	---	---	---	---	---
156-162 in		---	---	---	---	---	---
160-162 in		---	---	---	---	---	---
160-166 in		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	---	---
168-174 in		---	---	---	---	---	---
168-192 in.		---	---	---	---	---	---
174-180 in.		---	---	---	---	---	---
174-192 in		---	---	---	---	---	---
180-184 in		---	---	---	---	---	---
180-186 in		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in		---	---	---	---	---	---
190-192 in		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-010B 07/09/99 AT c/min	SB-011 07/09/99 AT c/min	SB-012 07/09/99 AT c/min	SB-013 07/09/99 AT c/min	SB-014 07/09/99 AT c/min	SB-015 07/10/99 MD c/min
0-3 in.		---	---	---	---	---	NL
0-6 in.		26	30	38	34	31	---
3-6 in.		---	---	---	---	---	41
6-9 in.		---	---	---	---	---	---
6-12 in.		20	24	31	44	41	65
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		40	37	34	31	32	121
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	39	---	---	---
18-24 in.		85	33	---	28	34	160
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	NL	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		42	25	---	36	38	106
24-48 in.		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	38	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		81 (94)	32	---	37	---	87
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	NL	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	33	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		43	36	---	---	---	NL
36-48 in.		---	---	---	---	---	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	NL	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		36	21	---	---	---	---
42-48 in.		---	---	---	---	---	NL
44-48 in.		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		NL	NL	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		33	33	45	24	31	86
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		32	25	47	22	35	76
5-62 in.		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-010B	SB-011	SB-012	SB-013	SB-014	SB-015
	Sample Date Property * Excavation Area Units	07/09/99 AT c/min	07/09/99 AT c/min	07/09/99 AT c/min	07/09/99 AT c/min	07/09/99 AT c/min	07/10/99 MD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		16	39	36	25	23	58
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		40	35	46	34	32	74
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	30	---
72-76 in.		---	---	---	---	---	---
72-78 in.		49	41	41	---	---	61
72-80 in.		---	---	---	31	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	46	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		31	33	---	---	---	35
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	35	---	---
81-96 in.		---	---	NL	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		23	35	---	---	---	NL
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	36	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	NL	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	26	---	---	---	---
90-96 in.		NL	---	---	---	---	NL
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	NL	---	---	NL	---
96-98 in.		---	---	---	---	---	---
96-102 in.		41	---	30	27	24	61
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		27	---	45	29	34	77
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		30	---	38	34	32	65
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
*14-117 in.		---	---	---	---	---	---

NOTES. NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening
 Alpha/Beta Data

Depth	Sample ID	SB-010B	SB-011	SB-012	SB-013	SB-014	SB-015
	Sample Date Property * Excavation Area Units	07/09/99 AT c/min	07/09/99 AT c/min	07/09/99 AT c/min	07/09/99 AT c/min	07/09/99 AT c/min	07/10/99 MD c/min
114-120 in		43	---	30	36	36	65
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in		36	---	---	---	---	---
120-126 in		---	---	38	33	31	NL
120-144 in		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		NL	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	43	37	43	NL
126-144 in.		---	---	---	---	---	---
128-132 in		---	---	---	---	---	---
130-144 in		---	---	---	---	---	---
132-134 in		---	---	---	---	---	---
132-135 in.		---	---	---	33	---	---
132-136 in		---	---	---	---	---	---
132-138 in		---	---	38	---	24	NL
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in		---	---	---	NL	---	---
136-142 in		---	---	---	---	---	---
138-141 in		---	---	31	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in		---	---	---	---	28	NL
141-144 in		---	---	NL	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	---	40	---	46	26
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	35	---	32	61
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		---	---	36	---	31	74
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	33	---	41	59
166-192 in.		---	---	---	---	---	---
168-174 in.		---	---	29	---	43	67
168-192 in.		---	---	---	---	---	---
174-180 in.		---	---	41	---	35	49
174-192 in		---	---	---	---	---	---
180-184 in		---	---	---	---	---	---
180-186 in		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	NL
184-192 in		---	---	---	---	---	---
186-189 in		---	---	---	---	---	---
186-190 in		---	---	---	---	---	---
186-192 in		---	---	---	---	---	NL
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in		---	---	---	---	---	---
198-214 in		---	---	---	---	---	---
214-220 in		---	---	---	---	---	---
216-222 in		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Alpha/Beta Data

Depth	Sample ID	SB-016	SB-017A	SB-017B	SB-018	SB-019	SB-020
	Sample Date Property * Excavation Area Units	07/10/99 MD c/min	07/10/99 MD c/min	07/10/99 MD c/min	07/10/99 GD c/min	07/10/99 GD c/min	07/11/99 GD c/min
0-3 in		---	---	---	---	---	---
0-6 in		38	26	37	29	24	28
3-6 in		---	---	---	---	---	---
6-9 in		---	---	---	---	---	---
6-12 in.		44	36	32	38	30	27
9-11 in.		---	---	---	---	---	---
9-12 in		---	---	---	---	---	---
9-13 in		---	---	---	---	---	---
12-14 in		---	---	---	---	---	---
12-15 in		---	---	---	---	---	---
12-18 in.		72	51	40	73	37	21
12-48 in.		---	---	---	---	---	---
15-18 in		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		66	63	45	74	44	38
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in		---	---	---	---	---	---
24-30 in.		94	47	82	60	36	41
24-48 in		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	27	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		67	70	58	37	---	37
30-48 in.		---	---	---	---	---	---
32-48 in		---	---	---	---	NL	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in		---	---	---	---	---	---
36-40 in.		---	---	---	46	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		56	125	64	---	---	23
36-48 in.		---	---	---	---	---	---
37-48 in.		---	---	---	---	---	---
38-46 in		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in		---	---	---	NL	---	---
41-48 in.		---	---	---	---	---	---
42-44 in		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in		---	110	---	---	---	41
42-48 in.		NL	---	NL	---	---	---
44-48 in		---	---	---	---	---	---
44-50 in		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	NL	---	---	---	NL
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in		80	79	---	63	35	31
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	NL	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		60	449	---	49	33	30
56-62 in		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-016	SB-017A	SB-017B	SB-018	SB-019	SB-020
	Sample Date Property * Excavation Area Units	07/10/99 MD c/min	07/10/99 MD c/min	07/10/99 MD c/min	07/10/99 GD c/min	07/10/99 GD c/min	07/11/99 GD c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		60	---	---	109	27	37
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		72	---	---	89	---	26
66-96 in.		---	---	---	---	NL	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		56	---	---	---	---	22
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	NL	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		43	---	---	---	---	32
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		33	---	---	---	---	29
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	66	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		47	---	---	---	---	---
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		NL	---	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		32	---	80	---	28	---
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		41	---	39	---	36	---
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	89	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		36	---	---	---	35	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Alpha/Beta Data

Depth	Sample ID	SB-016	SB-017A	SB-017B	SB-018	SB-019	SB-020
	Sample Date Property * Excavation Area Units	07/10/99 MD c/min	07/10/99 MD c/min	07/10/99 MD c/min	07/10/99 GD c/min	07/10/99 GD c/min	07/11/99 GD c/min
114-120 in.		28	---	---	---	---	---
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	NL	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		34	---	---	---	---	---
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		40	---	---	---	---	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		NL	---	---	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		NL	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		38	---	---	---	---	---
144-168 in.		---	---	---	---	26	---
148-154 in.		---	---	---	---	---	---
150-156 in.		37	---	---	---	30	---
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		44	---	---	---	---	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		26	---	---	---	---	---
166-192 in.		---	---	---	---	---	---
168-174 in.		37	---	---	---	---	---
168-192 in.		---	---	---	---	---	---
174-180 in.		27	---	---	---	---	---
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		34	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		34	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in.		---	---	---	---	---	---
190-192 in.		NL	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-021	SB-022	SB-023A	SB-023B	SB-024	SB-025
	Sample Date Property * Excavation Area Units	07/11/99 GD c/min	07/11/99 GD c/min	07/11/99 GD c/min	07/11/99 GD c/min	07/11/99 GD Area 3C c/min	07/11/99 GD Area 3A c/min
0-3 in		---	---	---	---	---	---
0-6 in.		40	23	46	29	27	41
3-6 in		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in		37	33	61	51	48	158
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		37	---	32	68	48	273
12-48 in.		---	NL	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	35	---	---
18-24 in.		41	---	111	---	52	39
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	NL	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in		---	---	---	---	---	---
24-30 in.		29	---	98	---	39	33
24-48 in		---	---	---	NL	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		28	---	59	---	88	NL
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	40	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in		---	---	---	---	---	---
36-42 in.		---	---	---	---	---	---
36-48 in.		NL	---	---	---	NL	NL
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in		---	---	NL	---	---	---
39-48 in		---	---	---	---	---	---
40-48 in		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	---	NL	---	NL	NL
44-48 in		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		35	23	62	69	77	---
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		29	24	48	82	165	---
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-021	SB-022	SB-023A	SB-023B	SB-024	SB-025
	Sample Date Property * Excavation Area Units	07/11/99 GD c/min	07/11/99 GD c/min	07/11/99 GD c/min	07/11/99 GD c/min	07/11/99 GD Area 3C c/min	07/11/99 GD Area 3A c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in		40	36	---	57	196	---
60-96 in.		---	---	NL	---	---	---
62-68 in		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in		---	---	---	---	---	---
66-69 in.		---	---	---	38	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		37	---	---	---	4182	---
66-96 in.		---	NL	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in		---	---	---	NL	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		45 (42)	---	---	---	6953	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in		---	---	---	NL	---	---
74-80 in.		---	---	---	---	---	---
74-96 in		---	---	---	---	---	---
76-82 in		---	---	---	---	---	---
76-96 in		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		42 (36)	---	---	---	5868	---
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in		31 (33)	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in		---	---	---	---	751	---
84-96 in.		---	---	---	---	---	---
86-88 in		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in		NL	---	---	---	---	---
88-92 in		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	---	395	---
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in		---	---	---	---	---	---
94-96 in.		---	---	---	---	NL	---
96-98 in		---	---	---	---	---	---
96-102 in.		---	---	---	51	3543	---
96-144 in		---	---	---	---	---	---
98-102 in		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		---	---	---	43	2465	---
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	---	---	1687	390	---
108-132 in		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-021 07/11/99 GD c/min	SB-022 07/11/99 GD c/min	SB-023A 07/11/99 GD c/min	SB-023B 07/11/99 GD c/min	SB-024 07/11/99 GD Area 3C c/min	SB-025 07/11/99 GD Area 3A c/min
114-120 in		---	---	---	795	225	---
114-144 in		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in		---	---	---	---	148	---
120-144 in		---	---	---	NL	---	---
122-128 in.		---	---	---	---	---	---
123-144 in		---	---	---	---	---	---
126-130 in		---	---	---	---	---	---
126-132 in.		---	---	---	---	59	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	---	---	---	---	---
132-144 in		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in		---	---	---	---	---	---
138-141 in		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in		---	---	---	---	---	---
144-150 in		---	---	---	723	---	---
144-168 in.		---	---	---	---	---	---
148-154 in		---	---	---	---	---	---
150-156 in		---	---	---	176	---	---
154-162 in		---	---	---	---	---	---
156-160 in		---	---	---	---	---	---
156-162 in		---	---	---	197	---	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	98	---	---
166-192 in		---	---	---	---	---	---
168-174 in		---	---	---	---	---	---
168-192 in		---	---	---	NL	---	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in		---	---	---	---	---	---
186-189 in		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in		---	---	---	---	---	---
222-228 in		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-026 07/11/99 GD Area 3A c/min	SB-027 07/12/99 GC Area 3A c/min	SB-028 07/12/99 GC Area 3A c/min	SB-029 07/12/99 GC Area 3A c/min	SB-030A 07/12/99 GC Area 2 c/min	SB-030B 07/12/99 GC Area 2 c/min
0-3 in.							
0-6 in.		33	46	41	38	57	44
3-6 in.							
6-9 in.							
6-12 in.		149	42	43	44	42	43
9-11 in.							
9-12 in.							
9-13 in.							
12-14 in.							
12-15 in.							
12-18 in.		270	33	46	44	51	47
12-48 in.							
15-18 in.							
15-21 in.							
18-21 in.							
18-24 in.		125	41	36	33	29	34
18-48 in.							
21-24 in.							
21-27 in.							
21-48 in.							
24-28 in.						40	
24-30 in.		113	33	52	43		32
24-48 in.							
27-30 in.							
28-48 in.						NL	
30-32 in.							
30-33 in.							39
30-34 in.							
30-36 in.		229	30	42	34		
30-48 in.							
32-48 in.							
33-37 in.							
33-48 in.							NL
34-36 in.							
34-48 in.							
36-38 in.							
36-39 in.							
36-40 in.		44	35		26		
36-41 in.							
36-42 in.				25			
36-48 in.							
37-48 in.							
38-46 in.							
38-48 in.							
39-42 in.							
39-48 in.							
40-48 in.		NL	NL		NL		
41-48 in.							
42-44 in.				40			
42-45 in.							
42-46 in.							
42-48 in.							
44-48 in.				NL			
44-50 in.							
45-48 in.							
46-48 in.							
46-52 in.							
48-52 in.							
48-54 in.							
48-60 in.							
48-89 in.							
50-56 in.							
52-58 in.							
54-60 in.							
56-62 in.							

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-026 07/11/99 GD Area 3A c/min	SB-027 07/12/99 GC Area 3A c/min	SB-028 07/12/99 GC Area 3A c/min	SB-029 07/12/99 GC Area 3A c/min	SB-030A 07/12/99 GC Area 2 c/min	SB-030B 07/12/99 GC Area 2 c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		---	---	---	---	---	---
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		---	---	---	---	---	---
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		---	---	---	---	---	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		---	---	---	---	---	---
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	---	---	---	---	---
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	---	---	---
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		---	---	---	---	---	---
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		---	---	---	---	---	---
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	---	---	---	---	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-026 07/11/99 GD Area 3A c/min	SB-027 07/12/99 GC Area 3A c/min	SB-028 07/12/99 GC Area 3A c/min	SB-029 07/12/99 GC Area 3A c/min	SB-030A 07/12/99 GC Area 2 c/min	SB-030B 07/12/99 GC Area 2 c/min
114-120 in.		---	---	---	---	---	---
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		---	---	---	---	---	---
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	---	---	---	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	---	---	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	---	---	---	---	---
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		---	---	---	---	---	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	---	---
168-174 in.		---	---	---	---	---	---
168-192 in.		---	---	---	---	---	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-031 07/12/99 GC Area 2 c/min	SB-032 07/12/99 GC Area 2 c/min	SB-033 07/12/99 GC Area 2 c/min	SB-034 07/12/99 GC Area 2 c/min	SB-035A 07/12/99 GD c/min	SB-035B 07/12/99 GD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		44	61	52	44	42	33
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		39	47	54	39	32	52
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		43	61	32	27	29	---
12-48 in.		---	---	---	---	---	53
15-18 in.		---	---	---	---	NL	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		32	39	46	26	NL	44
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		48	---	---	---	---	---
24-30 in.		---	---	---	---	---	---
24-48 in.		---	29	35	40	NL	30
27-30 in.		---	---	---	---	---	---
28-48 in.		NL	---	---	---	---	---
30-32 in.		---	32	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	26
30-36 in.		---	---	36	---	NL	---
30-48 in.		---	---	---	NL	---	---
32-48 in.		---	NL	---	---	---	---
33-37 in.		---	---	---	---	---	30
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		---	---	---	---	---	---
36-48 in.		---	---	NL	---	NL	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	NL
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	---	---	---	---	---
44-48 in.		---	---	---	---	NL	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		---	---	---	---	---	---
48-60 in.		---	---	---	---	40	65
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		---	---	---	---	62	48
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-031 07/12/99 GC Area 2 c/min	SB-032 07/12/99 GC Area 2 c/min	SB-033 07/12/99 GC Area 2 c/min	SB-034 07/12/99 GC Area 2 c/min	SB-035A 07/12/99 GD c/min	SB-035B 07/12/99 GD c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in		---	---	---	---	NL	36
60-96 in		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in		---	---	---	---	---	---
66-72 in.		---	---	---	---	NL	29
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		---	---	---	---	NL	33
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in		---	---	---	---	---	---
76-82 in		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		---	---	---	---	NL	47
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	---	---	---	NL	---
84-96 in.		---	---	---	---	---	NL
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in		---	---	---	---	---	---
90-92 in		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in		---	---	---	---	---	---
90-96 in		---	---	---	---	NL	---
92-96 in		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in		---	---	---	---	---	---
94-96 in.		---	---	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in		---	---	---	---	49	34
96-144 in		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in		---	---	---	---	---	---
102-108 in.		---	---	---	---	38	34
104-110 in		---	---	---	---	---	---
108-110 in		---	---	---	---	---	---
108-112 in		---	---	---	---	---	---
108-114 in.		---	---	---	---	29	34
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-031 07/12/99 GC Area 2 c/min	SB-032 07/12/99 GC Area 2 c/min	SB-033 07/12/99 GC Area 2 c/min	SB-034 07/12/99 GC Area 2 c/min	SB-035A 07/12/99 GD c/min	SB-035B 07/12/99 GD c/min
114-120 in		---	---	---	---	42	40
114-144 in		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in		---	---	---	---	---	---
120-126 in		---	---	---	---	42	42
120-144 in		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in		---	---	---	---	---	---
126-130 in		---	---	---	---	---	---
126-132 in.		---	---	---	---	34	---
126-144 in.		---	---	---	---	---	NL
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	---	---	---	44	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in		---	---	---	---	---	---
136-142 in		---	---	---	---	---	---
138-141 in		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	36	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	---	---	---	---	35
144-168 in		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	44
154-162 in		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in		---	---	---	---	---	60
160-162 in		---	---	---	---	---	---
160-166 in		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	---	---
168-174 in.		---	---	---	---	---	---
168-192 in.		---	---	---	---	---	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	---	---	---
180-184 in		---	---	---	---	---	---
180-186 in		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in		---	---	---	---	---	---
186-189 in		---	---	---	---	---	---
186-190 in		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in		---	---	---	---	---	---
216-222 in		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES. NL - not logged
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-036 07/12/99 GD Area 3A c/min	SB-037 07/13/99 GD c/min	SB-038 07/13/99 GD Area 3A c/min	SB-039 07/13/99 GD c/min	SB-040 07/13/99 GD c/min	SB-041 07/13/99 GD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		121	28	56	40	50	60
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		327	117	131	62	75	168
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		68	130	95	30	151	638
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		173	64	---	43	141	183
18-48 in.		---	---	NL	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		85	---	---	30	50	73
24-48 in.		---	NL	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	32	---
30-36 in.		105	---	---	35	---	55
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	NL	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		68	---	---	---	---	45
36-48 in.		---	---	---	NL	---	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	37
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		30	---	---	---	---	---
44-48 in.		---	---	---	---	---	NL
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		38	56	47	30	42	44
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		30	40	36	33	29	37
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-036 07/12/99 GD Area 3A c/min	SB-037 07/13/99 GD c/min	SB-038 07/13/99 GD Area 3A c/min	SB-039 07/13/99 GD c/min	SB-040 07/13/99 GD c/min	SB-041 07/13/99 GD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		35	43	---	30	32	43
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		24	37	---	35	41	41
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		36	45	---	34	---	40
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	32	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		40	---	---	34	---	50
78-96 in.		---	NL	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		41	---	---	39	24	87
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		26	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	27	---	---
90-96 in.		---	---	---	---	---	---
92-96 in.		NL	---	---	---	NL	NL
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	---	---	---	---
96-98 in.		---	---	---	NL	---	---
96-102 in.		---	---	---	---	---	---
96-144 in.		---	63	---	---	---	41
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		---	43	---	---	---	---
104-110 in.		---	---	---	---	---	52
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	44	---	---	---	68
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
*14-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-036 07/12/99 GD Area 3A c/min	SB-037 07/13/99 GD c/min	SB-038 07/13/99 GD Area 3A c/min	SB-039 07/13/99 GD c/min	SB-040 07/13/99 GD c/min	SB-041 07/13/99 GD c/min
114-120 in.		---	73	---	---	---	56
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		---	43	---	---	---	---
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	44	---	---	---	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	36	---	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	NL	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	---	---	---	---	---
144-168 in.		---	54	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		---	---	---	---	---	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	---	---
168-174 in.		---	---	---	---	---	---
168-192 in.		---	35 (51)	---	---	---	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-042 07/13/99 GD c/min	SB-043 07/13/99 GD c/min	SB-044 07/13/99 GD c/min	SB-045 07/14/99 GD Area 3C c/min	SB-046 07/14/99 GD c/min	SB-047 07/14/99 GD Area 3C c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		41	51	25	39	53	86
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		112	76	42	230 (194)	92	54
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		73	62	45	94	31	43
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		43	73	47	43	32	79
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		77	75	33	51	28	---
24-48 in.		---	---	---	---	---	NL
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		---	59	21	NL	30	---
30-48 in.		NL	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	40	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	37	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		---	33	---	---	---	---
36-48 in.		---	---	---	NL	NL	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	NL	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	NL	---	---	---	---
44-48 in.		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		80	52	43	175	47	496
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		32	30	42	230	67	74
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-042 07/13/99 GD c/min	SB-043 07/13/99 GD c/min	SB-044 07/13/99 GD c/min	SB-045 07/14/99 GD Area 3C c/min	SB-046 07/14/99 GD c/min	SB-047 07/14/99 GD Area 3C c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		32	41	35	328	37	142
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		39	37	35	493	41	210
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		41	33	42	57595	35	136
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	23	---	---	---	---
78-84 in.		36	---	51	4696	313	463
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		42	---	89	489	93	472
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	---	84	---
90-96 in.		NL	---	NL	NL	---	NL
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	---	---	NL	---
96-98 in.		---	---	---	---	---	---
96-102 in.		36	---	49	19764	60	144
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		42	---	35	1201	117	117
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		34	---	52	453	83	262
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		33	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are. AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-042 07/13/99 GD c/min	SB-043 07/13/99 GD c/min	SB-044 07/13/99 GD c/min	SB-045 07/14/99 GD Area 3C c/min	SB-046 07/14/99 GD c/min	SB-047 07/14/99 GD Area 3C c/min
114-120 in.		---	---	38	256	40	120
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		NL	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		---	---	35	290	57	167
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	36	152	31	150
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	229	---	89
132-135 in.		---	---	---	---	86	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	---	36	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	NL	---	---
135-144 in.		---	---	---	---	NL	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	NL	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	---	---	---	---	---
144-168 in.		---	---	---	278	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in.		---	---	---	166	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		---	---	---	---	---	---
160-162 in.		---	---	---	126	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	70	---	---
168-174 in.		---	---	---	---	---	---
168-192 in.		---	---	---	69	---	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	84	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		---	---	---	65	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	NL	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	71	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	58	---	---
216-222 in.		---	---	---	47	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	45	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	39	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-048	SB-049	SB-049B	SB-050	SB-051	SB-052
	Sample Date Property * Excavation Area Units	07/14/99 GD c/min	07/14/99 GD c/min	07/15/99 GD c/min	07/14/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		42	41	---	73	102	30
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		45	79	---	53	154	33
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		43	42	---	57	252	136
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		40	60	---	52	62	196
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		41	---	---	---	---	---
24-30 in.		---	53	---	---	---	---
24-48 in.		---	---	---	174	211	202
27-30 in.		---	---	---	---	---	---
28-48 in.		NL	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		---	---	---	---	---	---
30-48 in.		---	NL	---	74	197	72
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	89	---	---
36-42 in.		---	---	---	---	---	---
36-48 in.		---	---	---	---	---	51
37-48 in.		---	---	---	---	NL	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	NL	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	---	---	---	---	---
44-48 in.		---	---	---	---	---	NL
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		41	61	---	124	133	---
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		37	33	---	105	93	---
6-62 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-048	SB-049	SB-049B	SB-050	SB-051	SB-052
	Sample Date	07/14/99	07/14/99	07/15/99	07/14/99	07/15/99	07/15/99
Excavation Area	Property *	GD	GD	GD	GD	GD	GD
Units		c/min	c/min	c/min	c/min	c/min	c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in		52	62	---	152	51	---
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		---	---	---	---	---	---
66-96 in		43	48	---	92	33	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in		---	---	---	---	---	---
72-78 in		70	---	---	69	39	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in		---	NL	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		54	---	---	272	47	---
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in		50	---	---	---	46	---
84-96 in.		---	---	---	NL	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	---	---	---
90-96 in.		NL	---	---	---	NL	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in		---	---	---	---	---	---
94-96 in		---	---	---	---	---	---
96-98 in		60	---	---	---	---	---
96-102 in.		---	61	---	93	---	---
96-144 in.		---	---	---	---	---	---
98-102 in		41	---	---	---	---	---
98-104 in		---	---	---	---	---	---
102-108 in.		45	57	---	71	---	---
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		46	55	---	64	---	---
108-132 in		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-048	SB-049	SB-049B	SB-050	SB-051	SB-052
	Sample Date	07/14/99	07/14/99	07/15/99	07/14/99	07/15/99	07/15/99
Excavation Area	Property *	GD	GD	GD	GD	GD	GD
Units		c/min	c/min	c/min	c/min	c/min	c/min
114-120 in		---	43	---	50	---	---
114-144 in		NL	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		---	---	---	---	---	---
120-144 in		---	56	---	48	---	---
122-128 in.		---	---	---	---	---	---
123-144 in		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	---	57	---	---
126-144 in.		---	NL	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in		---	---	---	74	---	---
132-144 in		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	NL	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	197	---	101	---	---
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	142 (142)	---	69	---	---
154-162 in		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in		---	---	---	---	---	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in		---	---	---	---	---	---
168-174 in		---	---	---	---	---	---
168-192 in		---	---	---	---	---	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in		---	---	---	---	---	---
184-192 in		---	---	---	---	---	---
186-189 in		---	---	---	---	---	---
186-190 in		---	---	---	---	---	---
186-192 in		---	---	---	---	---	---
189-192 in		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in		---	---	---	---	---	---
216-222 in		---	---	---	---	---	---
216-240 in.		---	---	67	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-053	SB-054	SB-055	SB-056	SB-057	SB-058
	Sample Date Property * Excavation Area Units	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD c/min	07/15/99 GD Area 3A c/min
0-3 in		---	---	---	---	---	---
0-6 in.		31	45	32	30	37	NL
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in		33	59	53	34	32	57
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		36	57	32	51	58	140
12-48 in		---	---	---	---	---	---
15-18 in		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		54	26	33	88	46	107
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in		---	---	---	---	---	---
24-28 in		---	---	---	---	---	---
24-30 in		44	37	78	114	37	56
24-48 in.		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		41	80	153	---	32	39
30-48 in.		---	---	---	NL	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in		---	---	---	---	---	---
36-41 in		---	---	---	---	---	---
36-42 in.		35	131	49	---	28	42
36-48 in		---	---	---	---	---	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in		---	---	---	---	---	---
42-45 in		32	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	NL	NL	---	NL	---
44-48 in		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in		NL	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		---	81	57	38	40	---
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in		---	---	---	---	---	---
54-60 in.		---	47	37	41	27	---
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-053 07/15/99 GD c/min	SB-054 07/15/99 GD c/min	SB-055 07/15/99 GD c/min	SB-056 07/15/99 GD c/min	SB-057 07/15/99 GD c/min	SB-058 07/15/99 GD Area 3A c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		---	171	42	34	25	---
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		---	111	37	32	35	---
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		---	270	34	38	32	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		---	148	36	48	30	---
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	---	39	29	40	---
84-96 in.		---	NL	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	37	43	35	---
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	NL	NL	NL	---
96-98 in.		---	---	---	---	---	---
96-102 in.		---	193	---	---	---	---
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		---	98	---	---	---	---
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	32	---	---	---	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	34	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-053 07/15/99 GD c/min	SB-054 07/15/99 GD c/min	SB-055 07/15/99 GD c/min	SB-056 07/15/99 GD c/min	SB-057 07/15/99 GD c/min	SB-058 07/15/99 GD Area 3A c/min
114-120 in		---	---	---	---	---	---
114-144 in		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in		---	---	---	---	---	---
120-126 in.		---	---	---	---	---	---
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	---	---	---	---
126-144 in.		---	---	---	---	---	---
128-132 in		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in		---	---	---	---	---	---
132-138 in		---	---	---	---	---	---
132-144 in		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in		---	---	---	---	---	---
136-142 in		---	---	---	---	---	---
138-141 in		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in		---	---	---	---	---	---
144-168 in.		---	---	---	---	---	---
148-154 in		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in		---	---	---	---	---	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	---	---
168-174 in.		---	---	---	---	---	---
168-192 in		---	---	---	---	---	---
174-180 in.		---	---	---	---	---	---
174-192 in		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in		---	---	---	---	---	---
190-192 in		---	---	---	---	---	---
192-198 in		---	---	---	---	---	---
192-216 in		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in		---	---	---	---	---	---
234-240 in		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-059 07/16/99 GD c/min	SB-060 07/16/99 GD Area 3A c/min	SB-061 07/16/99 GD c/min	SB-062 07/16/99 GD c/min	SB-063 07/19/99 MD c/min	SB-064 07/19/99 MD c/min
0-3 in		---	---	---	---	---	---
0-6 in		28	36	34	34	34	25
3-6 in		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		52	231	36	217	77	36
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		43	63	81	61	43	44
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in		86	54	43	107	50	153
18-48 in		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		163	29	31	52	66	---
24-48 in		---	---	---	---	---	NL
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in		66	39	37	56	56	---
30-48 in.		---	---	---	---	---	---
32-48 in		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		38	---	---	---	---	---
36-39 in		---	39	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	39	41	---	---
36-42 in.		---	---	---	---	---	---
36-48 in.		---	---	---	---	NL	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		NL	---	---	---	---	---
39-42 in		---	---	---	---	---	---
39-48 in.		---	NL	---	---	---	---
40-48 in.		---	---	---	NL	---	---
41-48 in.		---	---	NL	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	---	---	---	---	---
44-48 in		---	---	---	---	---	---
44-50 in		---	---	---	---	---	---
45-48 in		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		123	---	---	---	53	42
48-60 in.		---	---	---	---	---	---
48-89 in		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in		---	---	---	---	---	---
54-60 in.		53	---	---	---	34	30
56-62 in.		---	---	---	---	---	---

NOTES. NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.



Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-059 07/16/99 GD c/min	SB-060 07/16/99 GD Area 3A c/min	SB-061 07/16/99 GD c/min	SB-062 07/16/99 GD c/min	SB-063 07/19/99 MD c/min	SB-064 07/19/99 MD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		42	---	---	---	---	---
60-96 in.		---	---	---	---	33	---
62-68 in.		---	---	---	---	---	NL
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		49	---	---	---	---	---
66-96 in.		---	---	---	---	43	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		62	---	---	---	---	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	NL	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		65	---	---	---	---	---
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		83	---	---	---	---	---
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		48	---	---	---	---	---
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		NL	---	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		73	---	---	---	44	61
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		47	---	---	---	34	70
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		51	---	---	---	67	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	NL
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-059	SB-060	SB-061	SB-062	SB-063	SB-064
	Sample Date Property * Excavation Area Units	07/16/99 GD c/min	07/16/99 GD Area 3A c/min	07/16/99 GD c/min	07/16/99 GD c/min	07/19/99 MD c/min	07/19/99 MD c/min
114-120 in		71	---	---	---	36	---
114-144 in		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in		58	---	---	---	---	---
120-144 in		---	---	---	---	NL	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		65	---	---	---	---	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in		---	---	---	---	---	---
132-138 in		45	---	---	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in		46	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		---	---	---	---	---	---
144-168 in.		---	---	---	---	55	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in		---	---	---	---	39	---
156-160 in.		---	---	---	---	---	---
156-162 in		---	---	---	---	---	---
160-162 in.		---	---	---	---	46	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	48	---
168-174 in.		---	---	---	---	---	---
168-192 in.		---	---	---	---	36	---
174-180 in.		---	---	---	---	---	---
174-192 in		---	---	---	---	36	---
180-184 in		---	---	---	---	---	---
180-186 in		---	---	---	---	---	---
180-192 in.		---	---	---	---	43	---
184-192 in		---	---	---	---	---	---
186-189 in		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in.		---	---	---	---	33	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in		---	---	---	---	---	---
214-220 in		---	---	---	---	---	---
216-222 in		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Alpha/Beta Data

Depth	Sample ID	SB-065	SB-066	SB-067	SB-068	SB-069	SB-070
	Sample Date Property * Excavation Area Units	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/20/99 MD c/min
0-3 in		---	---	---	---	---	---
0-6 in.		34	33	29	41	37	27
3-6 in		---	---	---	---	---	---
6-9 in		---	---	---	---	---	---
6-12 in.		41	35	73	45	40	52
9-11 in.		---	---	---	---	---	---
9-12 in		---	---	---	---	---	---
9-13 in		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		40	45	56	65	42	52
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	61	---	---
18-24 in.		82	50	38	---	35	62
18-48 in		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	100	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		62	---	47	---	NL	42
24-48 in		---	NL	---	---	---	---
27-30 in.		---	---	---	55	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		37	---	46	NL	NL	53
30-48 in.		---	---	---	---	---	---
32-48 in		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in		---	---	---	---	---	---
36-38 in.		33	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		---	---	41	NL	NL	---
36-48 in		---	---	---	---	---	NL
37-48 in		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in		NL	---	---	---	---	---
39-42 in		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in		---	---	30	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	NL	---	---
42-48 in.		---	---	---	---	NL	---
44-48 in		---	---	NL	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in		---	---	---	---	---	---
46-48 in.		---	---	---	NL	---	---
46-52 in		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		57	37	52	96	55	49
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		34	38	43	41	35	40
56-62 in		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-065 07/19/99 MD c/min	SB-066 07/19/99 MD c/min	SB-067 07/19/99 MD c/min	SB-068 07/19/99 MD c/min	SB-069 07/19/99 MD c/min	SB-070 07/20/99 MD c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in		30	35	42	38	75	30
60-96 in.		---	---	---	---	---	---
62-68 in		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		33	33	34	34	69	40
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in		---	---	---	---	---	---
72-74 in		---	---	---	---	---	---
72-76 in.		---	26	---	---	73	---
72-78 in.		40	---	45	40	---	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	40
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	NL	---	---	NL	---
78-81 in.		---	---	---	---	---	---
78-82 in		---	---	---	---	---	---
78-84 in.		35	---	33	32	---	---
78-96 in		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in		---	---	---	---	---	---
84-88 in.		---	---	32	---	---	---
84-90 in.		40	---	---	38	---	31
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in		---	---	NL	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		23	---	---	---	---	---
90-94 in.		---	---	---	38	---	49
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in		NL	---	---	---	---	---
94-96 in		---	---	---	NL	---	NL
96-98 in		---	---	---	---	---	---
96-102 in		39	39	---	---	45	---
96-144 in		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in		43	33	---	---	46	---
104-110 in		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in		---	33	---	---	---	---
108-114 in.		44	---	---	---	55	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
*14-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-065	SB-066	SB-067	SB-068	SB-069	SB-070
	Sample Date Property * Excavation Area Units	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/19/99 MD c/min	07/20/99 MD c/min
114-120 in		41	---	---	---	49	---
114-144 in		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		40	---	---	---	26	---
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		30	---	---	---	46	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		37	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		---	---	---	---	---	---
132-144 in.		---	---	---	---	33	---
134-144 in.		---	---	---	---	---	---
135-144 in.		NL	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	34	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	NL	---
144-150 in.		---	---	---	---	---	---
144-168 in.		---	---	---	---	42	---
148-154 in.		---	---	---	---	---	---
150-156 in.		---	---	---	---	---	---
154-162 in.		---	---	---	---	41	---
156-160 in.		---	---	---	---	---	---
156-162 in.		---	---	---	---	68	---
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		---	---	---	---	36	---
168-174 in.		---	---	---	---	---	---
168-192 in.		---	---	---	---	45	---
174-180 in.		---	---	---	---	---	---
174-192 in.		---	---	---	---	29	---
180-184 in.		---	---	---	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	NL	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	---	---
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-071	SB-071B	SB-072	SB-073	SB-074	SB-075
	Sample Date Property * Excavation Area Units	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		28	30	34	30	25	29
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		34	30	44	39	36	32
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		49	28	49	42	35	38
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		77	60	44	69	44	53
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		104	84	37	---	121	46
24-48 in.		---	---	---	NL	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		---	54	30	---	52	64
30-48 in.		NL	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	35	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		---	---	---	---	---	---
36-48 in.		---	NL	---	---	NL	NL
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	NL	---	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	---	---	---	---	---
44-48 in.		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		40	---	48	63	108	60
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		58	---	88	43	55	53
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-071 07/20/99 MD c/min	SB-071B 07/20/99 MD c/min	SB-072 07/20/99 MD c/min	SB-073 07/20/99 MD c/min	SB-074 07/20/99 MD c/min	SB-075 07/20/99 MD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		55	---	---	39	74	44
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		309	---	---	39	79	---
66-96 in.		---	---	---	---	---	NL
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		---	---	103	30	60	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		NL	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		---	---	---	---	48	---
78-96 in.		---	---	NL	NL	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	---	---	---	---	---
84-96 in.		---	---	---	---	NL	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	---	---	---
90-96 in.		---	---	---	---	---	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		---	---	---	43	58	59
96-144 in.		62	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		---	---	---	43	69	56
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	---	---	47	77	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	NL
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-071	SB-071B	SB-072	SB-073	SB-074	SB-075
	Sample Date Property * Excavation Area Units	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min	07/20/99 MD c/min
114-120 in		---	---	---	36	88	---
114-144 in		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		---	---	---	40	38	---
120-144 in		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		---	---	---	---	---	---
126-144 in.		---	---	---	NL	---	---
128-132 in.		---	---	---	---	NL	---
130-144 in		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in		---	---	---	---	---	---
132-136 in		---	---	---	---	---	---
132-138 in.		---	---	---	---	---	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	NL	---	---
135-144 in		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		---	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		202	---	---	---	---	---
144-168 in.		---	---	---	33	34	59
148-154 in		---	---	---	---	---	---
150-156 in		99	---	---	38	61	39
154-162 in		---	---	---	---	---	---
156-160 in.		192	---	---	---	---	---
156-162 in.		---	---	---	28	32	34
160-162 in.		---	---	---	---	---	---
160-166 in		53	---	---	---	---	---
162-168 in.		---	---	---	---	---	---
166-192 in.		NL	---	---	34	41	67
168-174 in.		---	---	---	---	---	---
168-192 in.		---	---	---	41	19	109
174-180 in.		---	---	---	---	---	---
174-192 in		---	---	---	22	34	112
180-184 in		---	---	---	---	---	---
180-186 in.		---	---	---	---	---	---
180-192 in.		---	---	---	35	29	---
184-192 in.		---	---	---	---	---	NL
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	---	---	---	25	---
189-192 in		---	---	---	NL	---	---
190-192 in		---	---	---	---	---	---
192-198 in.		---	---	---	---	NL	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-076	SB-077	SB-078	SB-079	SB-080	SB-081
	Sample Date Property * Excavation Area Units	07/20/99 MD c/min	07/20/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min
0-3 in.							
0-6 in.		33	24	42	24	33	27
3-6 in.							
6-9 in.							
6-12 in.		55	61	54	54	79	61
9-11 in.							
9-12 in.							
9-13 in.							
12-14 in.							
12-15 in.							
12-18 in.		41	49	58	61	78	67
12-48 in.							
15-18 in.							
15-21 in.							
18-21 in.							
18-24 in.		67	44	67	40	57	86
18-48 in.							
21-24 in.							
21-27 in.							
21-48 in.							
24-28 in.							
24-30 in.		62	34	85	133	54	75
24-48 in.							
27-30 in.							
28-48 in.							
30-32 in.							
30-33 in.							
30-34 in.							
30-36 in.		45		53	94	50	77
30-48 in.			NL				
32-48 in.							
33-37 in.							
33-48 in.							
34-36 in.							
34-48 in.							
36-38 in.				75			
36-39 in.							
36-40 in.					58		
36-41 in.							
36-42 in.							
36-48 in.		NL				39	
37-48 in.							NL
38-46 in.							
38-48 in.				NL			
39-42 in.							
39-48 in.							
40-48 in.					NL		
41-48 in.							
42-44 in.							
42-45 in.						38	
42-46 in.							
42-48 in.							
44-48 in.							
44-50 in.						NL	
45-48 in.							
46-48 in.							
46-52 in.							
48-52 in.							
48-54 in.		69	45	68	80	61	75
48-60 in.							
48-89 in.							
50-56 in.							
52-58 in.							
54-60 in.		71	65	44	61	35	65
56-62 in.							

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-076 07/20/99 MD c/min	SB-077 07/20/99 MD c/min	SB-078 07/21/99 MD c/min	SB-079 07/21/99 MD c/min	SB-080 07/21/99 MD c/min	SB-081 07/21/99 MD c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	81
60-66 in.		105	96	75	53	33	---
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		NL	---	---	---	---	NL
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		---	---	80	87	29	---
66-96 in.		---	NL	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	509	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		---	---	71	---	40	---
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	NL	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		---	---	68	---	43	---
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	65	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	---	---	---	34	---
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	NL	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	---	---	---
90-96 in.		---	---	---	---	NL	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		80	53	59	141	34	64
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		54	90	52	395	39	85
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		62	97	53	321	34	135
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
*14-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

Table 4a
 GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening
 Alpha/Beta Data

Depth	Sample ID	SB-076	SB-077	SB-078	SB-079	SB-080	SB-081
	Sample Date Property * Excavation Area Units	07/20/99 MD c/min	07/20/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min
114-120 in		52	101	41	---	36	134
114-144 in.		---	---	---	NL	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		35	81	32	---	29	112
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	547	---	---	---	---
126-132 in		38	---	122	---	40	---
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in.		---	NL	---	---	---	NL
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in		---	---	127	---	32	---
132-144 in.		NL	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	24	---
138-144 in		---	---	NL	---	---	---
141-144 in		---	---	---	---	---	---
142-144 in		---	---	---	---	NL	---
142-148 in.		---	---	---	---	---	---
144-150 in.		57	68	44	261	32	155
144-168 in.		---	---	---	---	---	---
148-154 in		---	---	---	---	---	---
150-156 in		49	60	61	211	29	91
154-162 in.		---	---	---	---	---	---
156-160 in		---	---	---	---	---	---
156-162 in.		33	75	60	345	28	98
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		28	49	44	149	21	138
166-192 in.		---	---	---	---	---	---
168-174 in		46	65	69	40	27	211
168-192 in		---	---	---	---	---	---
174-180 in.		35	52	66	---	38	116
174-192 in.		---	---	---	NL	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		34	---	61	---	31	162
180-192 in.		---	NL	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in		24	---	---	---	---	---
186-190 in.		---	---	68	---	---	---
186-192 in.		---	---	---	---	31	NL
189-192 in.		NL	---	---	---	---	---
190-192 in		---	---	NL	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	NL	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	230	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	39	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	39	---	---
234-240 in.		---	---	---	32	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-082	SB-083	SB-084	SB-085	SB-085B	SB-086
	Sample Date Property * Excavation Area Units	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min	07/21/99 MD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		162	35	32	42	34	21
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		76	47	35	34	23	34
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		60	44	42	33	39	59
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		34	50	28	44	45	55
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		257	30	32	61	51	43
24-48 in.		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		206	39	33	29	48	40
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		43	39	49	39	43	NL
36-48 in.		---	---	---	---	---	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		NL	NL	NL	NL	36	NL
44-48 in.		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	NL	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		148	33	42	41	28	45
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		58	32	40	26	32	176
6-62 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-082 07/21/99 MD c/min	SB-083 07/21/99 MD c/min	SB-084 07/21/99 MD c/min	SB-085 07/21/99 MD c/min	SB-085B 07/21/99 MD c/min	SB-086 07/21/99 MD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		76	25	30	38	33	48
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	163
66-72 in.		93	41	35	39	51	---
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	NL
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		55	29	39	35	27	NL
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		43	26	37	33	29	NL
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		72	33	37	30	31	NL
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		76	34	30	---	---	---
90-96 in.		---	---	---	NL	---	NL
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		NL	NL	NL	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		71	---	---	32	35	46
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		53	---	---	33	44	49
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		92	---	---	33	29	53
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
*4-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-082	SB-083	SB-084	SB-085	SB-085B	SB-086
		07/21/99 MD	07/21/99 MD	07/21/99 MD	07/21/99 MD	07/21/99 MD	07/21/99 MD
		c/min	c/min	c/min	c/min	c/min	c/min
114-120 in.		82	---	---	39	44	41
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in.		---	---	---	---	---	---
120-126 in.		80	---	---	38	27	42
120-144 in.		---	---	---	---	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		57	---	---	30	33	---
126-144 in.		---	---	---	---	---	NL
128-132 in.		---	---	---	---	---	---
130-144 in.		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in.		32	---	---	---	35	---
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		32	---	---	---	22	---
138-144 in.		---	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		NL	---	---	---	NL	---
142-148 in.		---	---	---	---	---	---
144-150 in.		78	---	---	---	35	39
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		54	---	---	---	38	69
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		84	---	---	---	34	55
160-162 in.		---	---	---	---	---	---
160-166 in.		---	---	---	---	---	---
162-168 in.		46	---	---	---	34	51
166-192 in.		---	---	---	---	---	---
168-174 in.		55	---	---	---	---	39
168-192 in.		---	---	---	---	---	---
174-180 in.		44	---	---	---	---	47
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in.		61	---	---	---	---	---
180-192 in.		---	---	---	---	---	---
184-192 in.		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		NL	---	---	---	---	---
189-192 in.		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in.		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-087	SB-088	SB-089	SB-090	SB-091	SB-092
	Sample Date Property * Excavation Area Units	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/23/99 MD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		32	39	26	31	28	24
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		47	32	36	41	35	36
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		29	33	48	36	36	62
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		56	34	28	39	33	62
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		38	---	---	---	---	---
24-48 in.		---	NL	31	35	30	53
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		42	---	29	34	39	47
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		29	---	35	32	---	---
36-48 in.		---	---	---	---	NL	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	---	---	NL
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		NL	---	NL	NL	---	---
44-48 in.		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		44	28	38	32	41	53
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		33	28	36	31	37	50
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening
 Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-087 07/22/99 MD c/min	SB-088 07/22/99 MD c/min	SB-089 07/22/99 MD c/min	SB-090 07/22/99 MD c/min	SB-091 07/22/99 MD c/min	SB-092 07/23/99 MD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		35	39	33	35	35	40
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		38	42	39	36	29	37
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		34	34	41	26	26	32
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		---	---	33	---	32	46
78-96 in.		NL	NL	---	NL	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	---	21	---	29	40
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	33	---	---	48
90-96 in.		---	---	---	---	NL	---
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	NL	---	---	NL
96-98 in.		---	---	---	---	---	---
96-102 in.		35	27	39	34	---	50
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		29	38	32	25	---	46
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		31	26	30	29	---	32
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-087	SB-088	SB-089	SB-090	SB-091	SB-092
	Sample Date Property * Excavation Area Units	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/22/99 MD c/min	07/23/99 MD c/min
114-120 in		24	43	29	42	---	34
114-144 in.		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in		---	---	---	---	---	---
120-126 in		36	43	43	---	---	37
120-144 in.		---	---	---	NL	---	---
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		43	39	30	---	---	33
126-144 in.		---	---	---	---	---	---
128-132 in.		---	---	---	---	---	---
130-144 in		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in.		---	---	---	---	---	---
132-138 in		32	34	38	---	---	37
132-144 in.		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in.		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	33	---	---	---	---
138-144 in.		31	---	50	---	---	40
141-144 in.		---	---	---	---	---	---
142-144 in.		---	NL	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		30	28	36	35	37	28
144-168 in.		---	---	---	---	---	---
148-154 in		---	---	---	---	---	---
150-156 in.		31	32	40	37	38	33
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	37	---
156-162 in		33	26	33	34	---	46
160-162 in		---	---	---	---	NL	---
160-166 in		---	---	---	---	---	---
162-168 in.		18	31	26	33	---	31
166-192 in.		---	---	---	---	---	---
168-174 in.		32	29	40	---	28	41
168-192 in.		---	---	---	---	---	---
174-180 in.		30	43	35	---	33	55
174-192 in.		---	---	---	---	---	---
180-184 in.		---	---	---	---	---	---
180-186 in		---	30	35	---	39	41
180-192 in.		---	---	---	---	---	---
184-192 in		---	---	---	---	---	---
186-189 in.		---	---	---	---	---	---
186-190 in.		---	---	---	---	---	---
186-192 in.		---	38	31	---	31	29
189-192 in		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in.		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in.		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in.		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in.		---	---	---	---	---	---
228-234 in		---	---	---	---	---	---
234-240 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID	SB-093	SB-094	SB-095	SB-096	SB-097	SB-098
	Sample Date Property * Excavation Area Units	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 GD c/min	08/09/99 MD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		42	47	25	45	36	NL
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		67	55	59	35	52	NL
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		72	80	50	59	45	NL
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		63	44	48	52	45	NL
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		75	38	44	42	46	NL
24-48 in.		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		70	39	50	39	64	NL
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	38	---	---	---
36-42 in.		---	32	---	---	---	---
36-48 in.		NL	---	---	NL	41	NL
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	NL	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	---	---	---
42-48 in.		---	---	---	---	---	NL
44-48 in.		---	NL	---	---	NL	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	---	---	NL
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		79	39	42	NL	72	NL
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		59	37	28	38	60	NL
56-62 in.		---	---	---	---	---	---

NOTES NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-093 07/23/99 MD c/min	SB-094 07/23/99 MD c/min	SB-095 07/23/99 MD c/min	SB-096 07/23/99 MD c/min	SB-097 07/23/99 GD c/min	SB-098 08/09/99 MD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		46	33	32	36	59	NL
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	57	---
66-72 in.		68	28	26	30	---	NL
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	NL	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		62	27	45	31	---	NL
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		59	38	31	45	---	NL
78-96 in.		---	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		60	35	34	---	---	NL
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		67	38	---	---	---	---
90-96 in.		---	---	NL	---	---	NL
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		NL	NL	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		68	---	---	---	51	NL
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		74	---	---	---	55	NL
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		63	---	---	---	129	NL
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
 Former Sylvania Electric Products Facility - Hicksville, NY
 Soil Core Radiation Field Screening

Alpha/Beta Data

Depth	Sample ID	SB-093	SB-094	SB-095	SB-096	SB-097	SB-098
	Sample Date Property * Excavation Area Units	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 MD c/min	07/23/99 GD c/min	08/09/99 MD c/min
114-120 in		74	---	---	---	59	NL
114-144 in.		---	---	---	---	---	---
116-122 in.		---	---	---	---	---	---
116-144 in.		---	---	---	---	---	---
120-123 in		---	---	---	---	---	---
120-126 in		55	---	---	---	---	---
120-144 in.		---	---	---	---	NL	NL
122-128 in.		---	---	---	---	---	---
123-144 in.		---	---	---	---	---	---
126-130 in.		---	---	---	---	---	---
126-132 in.		54	---	---	---	---	---
126-144 in.		---	---	---	---	---	NL
128-132 in.		---	---	---	---	---	---
130-144 in		---	---	---	---	---	---
132-134 in.		---	---	---	---	---	---
132-135 in.		---	---	---	---	---	---
132-136 in		---	---	---	---	---	---
132-138 in		57	---	---	---	---	---
132-144 in		---	---	---	---	---	---
134-144 in.		---	---	---	---	---	---
135-144 in.		---	---	---	---	---	---
136-142 in		---	---	---	---	---	---
138-141 in.		---	---	---	---	---	---
138-142 in.		---	---	---	---	---	---
138-144 in.		49	---	---	---	---	---
141-144 in.		---	---	---	---	---	---
142-144 in.		---	---	---	---	---	---
142-148 in.		---	---	---	---	---	---
144-150 in.		54	---	---	---	62	---
144-168 in.		---	---	---	---	---	---
148-154 in.		---	---	---	---	---	---
150-156 in.		49	---	---	---	53	---
154-162 in.		---	---	---	---	---	---
156-160 in.		---	---	---	---	---	---
156-162 in.		42	---	---	---	44	---
160-162 in		---	---	---	---	---	---
160-166 in		---	---	---	---	---	---
162-168 in.		42	---	---	---	71	---
166-192 in.		---	---	---	---	---	---
168-174 in		49	---	---	---	48	---
168-192 in		---	---	---	---	---	---
174-180 in.		48	---	---	---	52	---
174-192 in		---	---	---	---	---	---
180-184 in		---	---	---	---	---	---
180-186 in		47	---	---	---	51	---
180-192 in.		---	---	---	---	---	---
184-192 in		---	---	---	---	---	---
186-189 in		---	---	---	---	---	---
186-190 in		---	---	---	---	---	---
186-192 in.		47	---	---	---	57	---
189-192 in		---	---	---	---	---	---
190-192 in.		---	---	---	---	---	---
192-198 in		---	---	---	---	---	---
192-216 in.		---	---	---	---	---	---
198-214 in.		---	---	---	---	---	---
214-220 in		---	---	---	---	---	---
216-222 in.		---	---	---	---	---	---
216-240 in.		---	---	---	---	---	---
220-226 in		---	---	---	---	---	---
222-228 in.		---	---	---	---	---	---
226-232 in		---	---	---	---	---	---
228-234 in		---	---	---	---	---	---
234-240 in		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-099 08/09/99 MD c/min	SB-100 08/09/99 MD c/min	SB-101A 08/09/99 MD c/min	SB-101B 08/09/99 MD c/min	SB-102 08/09/99 MD c/min	SB-103 08/09/99 MD c/min
0-3 in.		---	---	---	---	---	---
0-6 in.		NL	NL	NL	NL	NL	NL
3-6 in.		---	---	---	---	---	---
6-9 in.		---	---	---	---	---	---
6-12 in.		NL	NL	NL	NL	NL	NL
9-11 in.		---	---	---	---	---	---
9-12 in.		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in.		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		NL	NL	NL	NL	NL	NL
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		NL	NL	NL	NL	NL	NL
18-48 in.		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		NL	NL	NL	NL	NL	NL
24-48 in.		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in.		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in.		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in.		NL	NL	NL	NL	NL	NL
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	NL
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	---	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		NL	NL	NL	NL	---	---
36-48 in.		---	---	---	---	NL	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	---	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in.		---	---	---	---	---	---
42-46 in.		---	---	---	NL	---	---
42-48 in.		NL	NL	NL	---	---	---
44-48 in.		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in.		---	---	---	---	---	---
46-48 in.		---	---	---	NL	---	---
46-52 in.		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in.		NL	NL	---	---	NL	NL
48-60 in.		---	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		NL	NL	---	---	NL	NL
56-62 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-099 08/09/99 MD c/min	SB-100 08/09/99 MD c/min	SB-101A 08/09/99 MD c/min	SB-101B 08/09/99 MD c/min	SB-102 08/09/99 MD c/min	SB-103 08/09/99 MD c/min
58-64 in.		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		NL	NL	---	---	NL	NL
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		NL	NL	---	---	NL	NL
66-96 in.		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		NL	NL	---	---	NL	NL
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in.		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		---	NL	---	---	NL	NL
78-96 in.		NL	---	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in.		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		---	NL	---	---	NL	NL
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in.		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in.		---	---	---	---	---	---
90-96 in.		---	NL	---	---	NL	NL
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in.		---	---	---	---	---	---
94-96 in.		---	---	---	---	---	---
96-98 in.		---	---	---	---	---	---
96-102 in.		---	---	---	---	---	NL
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in.		---	---	---	---	---	---
102-108 in.		---	---	---	---	---	NL
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	---	---	---	---	NL
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Sample ID	SB-099	SB-100	SB-101A	SB-101B	SB-102	SB-103
Sample Date	08/09/99	08/09/99	08/09/99	08/09/99	08/09/99	08/09/99
Property *	MD	MD	MD	MD	MD	MD
Excavation Area						
Units	c/min	c/min	c/min	c/min	c/min	c/min
Depth						
114-120 in	---	---	---	---	---	NL
114-144 in	---	---	---	---	---	---
116-122 in	---	---	---	---	---	---
116-144 in.	---	---	---	---	---	---
120-123 in	---	---	---	---	---	---
120-126 in	---	---	---	---	---	NL
120-144 in	---	---	---	---	---	---
122-128 in.	---	---	---	---	---	---
123-144 in	---	---	---	---	---	---
126-130 in	---	---	---	---	---	---
126-132 in	---	---	---	---	---	NL
126-144 in.	---	---	---	---	---	---
128-132 in.	---	---	---	---	---	---
130-144 in.	---	---	---	---	---	---
132-134 in.	---	---	---	---	---	---
132-135 in.	---	---	---	---	---	---
132-136 in.	---	---	---	---	---	---
132-138 in.	---	---	---	---	---	---
132-144 in.	---	---	---	---	---	NL
134-144 in.	---	---	---	---	---	---
135-144 in.	---	---	---	---	---	---
136-142 in	---	---	---	---	---	---
138-141 in	---	---	---	---	---	---
138-142 in	---	---	---	---	---	---
138-144 in	---	---	---	---	---	---
141-144 in.	---	---	---	---	---	---
142-144 in.	---	---	---	---	---	---
142-148 in	---	---	---	---	---	---
144-150 in	---	---	---	---	---	---
144-168 in.	---	---	---	---	---	---
148-154 in	---	---	---	---	---	---
150-156 in	---	---	---	---	---	---
154-162 in	---	---	---	---	---	---
156-160 in.	---	---	---	---	---	---
156-162 in	---	---	---	---	---	---
160-162 in	---	---	---	---	---	---
160-166 in.	---	---	---	---	---	---
162-168 in.	---	---	---	---	---	---
166-192 in.	---	---	---	---	---	---
168-174 in	---	---	---	---	---	---
168-192 in	---	---	---	---	---	---
174-180 in.	---	---	---	---	---	---
174-192 in	---	---	---	---	---	---
180-184 in	---	---	---	---	---	---
180-186 in	---	---	---	---	---	---
180-192 in.	---	---	---	---	---	---
184-192 in.	---	---	---	---	---	---
186-189 in	---	---	---	---	---	---
186-190 in	---	---	---	---	---	---
186-192 in.	---	---	---	---	---	---
189-192 in	---	---	---	---	---	---
190-192 in	---	---	---	---	---	---
192-198 in	---	---	---	---	---	---
192-216 in.	---	---	---	---	---	---
198-214 in.	---	---	---	---	---	---
214-220 in.	---	---	---	---	---	---
216-222 in.	---	---	---	---	---	---
216-240 in.	---	---	---	---	---	---
220-226 in.	---	---	---	---	---	---
222-228 in.	---	---	---	---	---	---
226-232 in.	---	---	---	---	---	---
228-234 in.	---	---	---	---	---	---
234-240 in.	---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-104 08/10/99 MD c/min	SB-105 08/10/99 GD Area 3B c/min	SB-106 08/10/99 GD c/min	SB-107 08/10/99 GD c/min	SB-108 08/10/99 GD Area 3B c/min	SB-109 08/10/99 GD c/min
0-3 in		---	---	---	---	---	---
0-6 in.		NL	NL	NL	NL	NL	NL
3-6 in		---	---	---	---	---	---
6-9 in		---	---	---	---	---	---
6-12 in		NL	NL	NL	NL	NL	NL
9-11 in.		---	---	---	---	---	---
9-12 in		---	---	---	---	---	---
9-13 in.		---	---	---	---	---	---
12-14 in		---	---	---	---	---	---
12-15 in.		---	---	---	---	---	---
12-18 in.		NL	NL	NL	NL	NL	NL
12-48 in.		---	---	---	---	---	---
15-18 in.		---	---	---	---	---	---
15-21 in.		---	---	---	---	---	---
18-21 in.		---	---	---	---	---	---
18-24 in.		NL	NL	NL	NL	NL	NL
18-48 in		---	---	---	---	---	---
21-24 in.		---	---	---	---	---	---
21-27 in.		---	---	---	---	---	---
21-48 in.		---	---	---	---	---	---
24-28 in.		---	---	---	---	---	---
24-30 in.		NL	NL	NL	NL	NL	NL
24-48 in.		---	---	---	---	---	---
27-30 in.		---	---	---	---	---	---
28-48 in		---	---	---	---	---	---
30-32 in.		---	---	---	---	---	---
30-33 in		---	---	---	---	---	---
30-34 in.		---	---	---	---	---	---
30-36 in		NL	NL	NL	NL	NL	NL
30-48 in.		---	---	---	---	---	---
32-48 in.		---	---	---	---	---	---
33-37 in.		---	---	---	---	---	---
33-48 in.		---	---	---	---	---	---
34-36 in.		---	---	---	---	---	---
34-48 in.		---	---	---	---	---	---
36-38 in.		---	---	---	---	---	---
36-39 in.		---	---	---	---	---	---
36-40 in.		---	NL	---	---	---	---
36-41 in.		---	---	---	---	---	---
36-42 in.		NL	---	NL	NL	NL	NL
36-48 in		---	---	---	---	---	---
37-48 in.		---	---	---	---	---	---
38-46 in.		---	---	---	---	---	---
38-48 in.		---	---	---	---	---	---
39-42 in.		---	---	---	---	---	---
39-48 in.		---	---	---	---	---	---
40-48 in.		---	NL	---	---	---	---
41-48 in.		---	---	---	---	---	---
42-44 in.		---	---	---	---	---	---
42-45 in		---	---	---	---	---	---
42-46 in		NL	---	---	NL	---	---
42-48 in.		---	---	NL	---	NL	NL
44-48 in		---	---	---	---	---	---
44-50 in.		---	---	---	---	---	---
45-48 in		---	---	---	---	---	---
46-48 in.		NL	---	---	NL	---	---
46-52 in		---	---	---	---	---	---
48-52 in.		---	---	---	---	---	---
48-54 in		---	NL	NL	NL	NL	NL
48-60 in.		NL	---	---	---	---	---
48-89 in.		---	---	---	---	---	---
50-56 in.		---	---	---	---	---	---
52-58 in.		---	---	---	---	---	---
54-60 in.		---	NL	NL	NL	NL	NL
56-62 in		---	---	---	---	---	---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.

Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-104 08/10/99 MD c/min	SB-105 08/10/99 GD Area 3B c/min	SB-106 08/10/99 GD c/min	SB-107 08/10/99 GD c/min	SB-108 08/10/99 GD Area 3B c/min	SB-109 08/10/99 GD c/min
58-64 in		---	---	---	---	---	---
60-64 in.		---	---	---	---	---	---
60-66 in.		NL	NL	NL	NL	NL	NL
60-96 in.		---	---	---	---	---	---
62-68 in.		---	---	---	---	---	---
64-70 in.		---	---	---	---	---	---
64-96 in.		---	---	---	---	---	---
66-69 in.		---	---	---	---	---	---
66-70 in.		---	---	---	---	---	---
66-72 in.		NL	NL	NL	NL	NL	NL
66-96 in		---	---	---	---	---	---
68-74 in.		---	---	---	---	---	---
69-72 in.		---	---	---	---	---	---
70-76 in.		---	---	---	---	---	---
70-96 in.		---	---	---	---	---	---
72-74 in.		---	---	---	---	---	---
72-76 in.		---	---	---	---	---	---
72-78 in.		NL	NL	---	NL	NL	NL
72-80 in.		---	---	---	---	---	---
72-84 in.		---	---	---	---	---	---
72-96 in		---	---	---	---	---	---
74-80 in.		---	---	---	---	---	---
74-96 in.		---	---	---	---	---	---
76-82 in.		---	---	---	---	---	---
76-96 in.		---	---	---	---	---	---
78-81 in.		---	---	---	---	---	---
78-82 in.		---	---	---	---	---	---
78-84 in.		NL	---	---	NL	NL	NL
78-96 in.		---	NL	---	---	---	---
80-86 in.		---	---	---	---	---	---
81-96 in.		---	---	---	---	---	---
82-88 in.		---	---	---	---	---	---
84-87 in		---	---	---	---	---	---
84-88 in.		---	---	---	---	---	---
84-90 in.		NL	---	---	NL	NL	NL
84-96 in.		---	---	---	---	---	---
86-88 in.		---	---	---	---	---	---
86-92 in.		---	---	---	---	---	---
87-96 in.		---	---	---	---	---	---
88-92 in.		---	---	---	---	---	---
88-96 in.		---	---	---	---	---	---
89-96 in.		---	---	---	---	---	---
90-92 in		---	---	---	---	---	---
90-93 in.		---	---	---	---	---	---
90-94 in		---	---	---	---	---	---
90-96 in		NL	---	---	NL	NL	NL
92-96 in.		---	---	---	---	---	---
92-98 in.		---	---	---	---	---	---
93-96 in		---	---	---	---	---	---
94-96 in.		---	---	---	---	---	---
96-98 in		---	---	---	---	---	---
96-102 in.		---	---	---	---	---	---
96-144 in.		---	---	---	---	---	---
98-102 in.		---	---	---	---	---	---
98-104 in		---	---	---	---	---	---
102-108 in.		---	---	---	---	---	---
104-110 in.		---	---	---	---	---	---
108-110 in.		---	---	---	---	---	---
108-112 in.		---	---	---	---	---	---
108-114 in.		---	---	---	---	---	---
108-132 in.		---	---	---	---	---	---
108-144 in.		---	---	---	---	---	---
110-116 in.		---	---	---	---	---	---
114-116 in.		---	---	---	---	---	---
114-117 in.		---	---	---	---	---	---

NOTES: NL - not logged.

* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course, BK - Background, DPW - Department of Public Works.



Table 4a
GTE Operations Support Incorporated
Former Sylvania Electric Products Facility - Hicksville, NY
Soil Core Radiation Field Screening
Alpha/Beta Data

Depth	Sample ID Sample Date Property * Excavation Area Units	SB-104 08/10/99 MD c/min	SB-105 08/10/99 GD Area 3B c/min	SB-106 08/10/99 GD c/min	SB-107 08/10/99 GD c/min	SB-108 08/10/99 GD Area 3B c/min	SB-109 08/10/99 GD c/min
114-120 in		---	---	---	---	---	---
114-144 in		---	---	---	---	---	---
116-122 in		---	---	---	---	---	---
116-144 in		---	---	---	---	---	---
120-123 in		---	---	---	---	---	---
120-126 in		---	---	---	---	---	---
120-144 in		---	---	---	---	---	---
122-128 in		---	---	---	---	---	---
123-144 in		---	---	---	---	---	---
126-130 in		---	---	---	---	---	---
126-132 in		---	---	---	---	---	---
126-144 in		---	---	---	---	---	---
128-132 in		---	---	---	---	---	---
130-144 in		---	---	---	---	---	---
132-134 in		---	---	---	---	---	---
132-135 in		---	---	---	---	---	---
132-136 in		---	---	---	---	---	---
132-138 in		---	---	---	---	---	---
132-144 in		---	---	---	---	---	---
134-144 in		---	---	---	---	---	---
135-144 in		---	---	---	---	---	---
136-142 in		---	---	---	---	---	---
138-141 in		---	---	---	---	---	---
138-142 in		---	---	---	---	---	---
138-144 in		---	---	---	---	---	---
141-144 in		---	---	---	---	---	---
142-144 in		---	---	---	---	---	---
142-148 in		---	---	---	---	---	---
144-150 in		---	---	---	---	---	---
144-168 in		---	---	---	---	---	---
148-154 in		---	---	---	---	---	---
150-156 in		---	---	---	---	---	---
154-162 in		---	---	---	---	---	---
156-160 in		---	---	---	---	---	---
156-162 in		---	---	---	---	---	---
160-162 in		---	---	---	---	---	---
160-166 in		---	---	---	---	---	---
162-168 in		---	---	---	---	---	---
166-192 in		---	---	---	---	---	---
168-174 in		---	---	---	---	---	---
168-192 in		---	---	---	---	---	---
174-180 in		---	---	---	---	---	---
174-192 in		---	---	---	---	---	---
180-184 in		---	---	---	---	---	---
180-186 in		---	---	---	---	---	---
180-192 in		---	---	---	---	---	---
184-192 in		---	---	---	---	---	---
186-189 in		---	---	---	---	---	---
186-190 in		---	---	---	---	---	---
186-192 in		---	---	---	---	---	---
189-192 in		---	---	---	---	---	---
190-192 in		---	---	---	---	---	---
192-198 in		---	---	---	---	---	---
192-216 in		---	---	---	---	---	---
198-214 in		---	---	---	---	---	---
214-220 in		---	---	---	---	---	---
216-222 in		---	---	---	---	---	---
216-240 in		---	---	---	---	---	---
220-226 in		---	---	---	---	---	---
222-228 in		---	---	---	---	---	---
226-232 in		---	---	---	---	---	---
228-234 in		---	---	---	---	---	---
234-240 in		---	---	---	---	---	---

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

Depth	Sample ID Sample Date Property * Excavation Area Units	SG-001 07/09/99 AT c/min
0-3 in.		---
0-6 in.		35
3-6 in.		---
6-9 in.		---
6-12 in.		22
9-11 in.		---
9-12 in.		---
9-13 in.		---
12-14 in.		---
12-15 in.		---
12-18 in.		24
12-48 in.		---
15-18 in.		---
15-21 in.		---
18-21 in.		---
18-24 in.		37
18-48 in.		---
21-24 in.		---
21-27 in.		---
21-48 in.		---
24-28 in.		---
24-30 in.		32
24-48 in.		---
27-30 in.		---
28-48 in.		---
30-32 in.		---
30-33 in.		---
30-34 in.		---
30-36 in.		31
30-48 in.		---
32-48 in.		---
33-37 in.		---
33-48 in.		---
34-36 in.		---
34-48 in.		---
36-38 in.		---
36-39 in.		---
36-40 in.		---
36-41 in.		---
36-42 in.		30
36-48 in.		---
37-48 in.		---
38-46 in.		---
38-48 in.		---
39-42 in.		---
39-48 in.		---
40-48 in.		---
41-48 in.		---
42-44 in.		---
42-45 in.		---
42-46 in.		28
42-48 in.		---
44-48 in.		---
44-50 in.		---
45-48 in.		---
46-48 in.		NL
46-52 in.		---
48-52 in.		---
48-54 in.		---
48-60 in.		---
48-89 in.		---
50-56 in.		---
52-58 in.		---
54-60 in.		---
56-62 in.		---

NOTES: NL - not logged
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works.



Depth	Sample ID Sample Date Property * Excavation Area Units	SG-001 07/09/99 AT c/min
58-64 in		---
60-64 in.		---
60-66 in		---
60-96 in.		---
62-68 in		---
64-70 in.		---
64-96 in		---
66-69 in		---
66-70 in		---
66-72 in.		---
66-96 in		---
68-74 in		---
69-72 in		---
70-76 in.		---
70-96 in		---
72-74 in.		---
72-76 in		---
72-78 in.		---
72-80 in.		---
72-84 in		---
72-96 in		---
74-80 in.		---
74-96 in.		---
76-82 in.		---
76-96 in.		---
78-81 in.		---
78-82 in.		---
78-84 in.		---
78-96 in.		---
80-86 in.		---
81-96 in.		---
82-88 in.		---
84-87 in.		---
84-88 in.		---
84-90 in.		---
84-96 in.		---
86-88 in.		---
86-92 in		---
87-96 in.		---
88-92 in.		---
88-96 in		---
89-96 in.		---
90-92 in		---
90-93 in.		---
90-94 in		---
90-96 in.		---
92-96 in		---
92-98 in.		---
93-96 in		---
94-96 in		---
96-98 in		---
96-102 in		---
96-144 in		---
98-102 in.		---
98-104 in		---
102-108 in.		---
104-110 in.		---
108-110 in.		---
108-112 in.		---
108-114 in.		---
108-132 in.		---
108-144 in.		---
110-116 in.		---
114-116 in.		---
114-117 in.		---

NOTES: NL - not logged.
* Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
BK - Background, DPW - Department of Public Works.

Depth	Sample ID Sample Date Property * Excavation Area Units	SG-001 07/09/99 AT c/min
114-120 in.		---
114-144 in.		---
116-122 in.		---
116-144 in.		---
120-123 in.		---
120-126 in.		---
120-144 in.		---
122-128 in.		---
123-144 in.		---
126-130 in.		---
126-132 in.		---
126-144 in.		---
128-132 in.		---
130-144 in.		---
132-134 in.		---
132-135 in.		---
132-136 in.		---
132-138 in.		---
132-144 in.		---
134-144 in.		---
135-144 in.		---
136-142 in.		---
138-141 in.		---
138-142 in.		---
138-144 in.		---
141-144 in.		---
142-144 in.		---
142-148 in.		---
144-150 in.		---
144-168 in.		---
148-154 in.		---
150-156 in.		---
154-162 in.		---
156-160 in.		---
156-162 in.		---
160-162 in.		---
160-166 in.		---
162-168 in.		---
166-192 in.		---
168-174 in.		---
168-192 in.		---
174-180 in.		---
174-192 in.		---
180-184 in.		---
180-186 in.		---
180-192 in.		---
184-192 in.		---
186-189 in.		---
186-190 in.		---
186-192 in.		---
189-192 in.		---
190-192 in.		---
192-198 in.		---
192-216 in.		---
198-214 in.		---
214-220 in.		---
216-222 in.		---
216-240 in.		---
220-226 in.		---
222-228 in.		---
226-232 in.		---
228-234 in.		---
234-240 in.		---

NOTES: NL - not logged.
 * Properties are: AT - Air Techniques, GD - Gilbert Displays, MD - Magazine Distributors, GC - Golf Course,
 BK - Background, DPW - Department of Public Works