INTERIM RFI REPORT
XEROX BUILDING 200
JOSEPH C. WILSON CENTER FOR TECHNOLOGY
WEBSTER, NEW YORK

by

H&A of New York
Rochester, New York

for

Xerox Corporation
Webster, New York

File No. 70092-44
January 1994

H & A OF NEW YORK

Geotechnical Engineers &
Environmental Consultants

21 January 1994
File No. 70092-44

Xerox Corporation
Joseph C. Wilson Center
for Technology
800 Phillips Road
Building 304 - Environmental
Webster, New York 14580

Attention: Mr. Scott M. Huber

Subject: Interim RFI Report
Building 200 Investigative Site
Webster, New York

Gentlemen:

This report presents findings to date from the Xerox Building 200 Investigative Site in Webster, New York. The report summarizes site investigative activities pursuant to the July 1992 RCRA Facility Investigation (RFI) Work Plan, as well as data from earlier investigations. The focus of the investigations was to define subsurface conditions and groundwater quality at the site.

Thank you for asking H&A to participate in this interesting project. Please contact us if you have any questions or require additional information.

Sincerely yours,
H&A OF NEW YORK

James G. Talpey
Senior Env. Geologist

Lawrence P. Smith, P.E.
Partner

JGT:LPS:cad
lps:70092-44:rbld200

189 North Water Street
Rochester, NY 14604
Tel 716 232 7386
Fax 716 232 6768

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

I. INTRODUCTION

This Interim RCRA Facility Investigation (RFI) report summarizes the investigations that have been conducted on behalf of Xerox Corporation (Xerox) in conformance with Module III Corrective Action Requirements for Solid Waste Management Units, Xerox Part 373 Permit, Webster, New York dated 9 June 1992. The purpose of the Interim RFI is to summarize investigative activities previously conducted in the Building 200 area and associated with three former solid waste management units (SWMUs) which had been previously identified as requiring further action. The location of the Building 200 investigation site is shown on Figure 1 and the SWMUs are shown on Figure 2. The SWMUs evaluated during this investigation are as follows:

SWMU No.	Description
66	Former Drum Storage Area
81	Purported Solvent Burn Area
89	Solvent Degreaser Sump

Building 200 was constructed in 1970 on undeveloped land owned by Xerox and has been utilized for the assembly and manufacture of photocopiers since its construction. The operation associated with SWMU 89 was moved to Building 208 during the mid-1970's. The purported solvent burn area was identified during previously conducted employee interviews. Based on subsequent studies, it appears the purported area did not exist and the reporting of it resulted from confusion by the reporting party of areas associated with the closed hazardous waste landfill located to the north of Building 200.

Adjoining buildings 210 and 215 were constructed in 1971 and 1990, respectively. Building 210 is used for product shipping and receiving. Building 215 is an automated warehouse used for parts and materials storage. Figure 1, Project Locus indicates the sites' location near the north end of the Xerox Webster, New York facility.

This interim RFI report is intended to supplement previous investigations conducted at the Building 200 area which were summarized in a report entitled "Hydrogeologic Report, Building 200 Investigation" dated 31 January 1992 by H&A of New York. The work conducted since completion of the reference report was performed in accordance with the "RFI Work Plan Building 200 Investigation" dated 28 July 1992 by H&A of New York. The investigative activities in the Work Plan were intended to:

- Further identify the aerial and vertical extent of groundwater contamination associated with SWMU 89, and
- Identify the source(s) of groundwater contamination in the shallow bedrock zone adjacent to SWMU 66.
- Address the SWMU 81 issue.

II. SITE INVESTIGATIONS

2-01. EARLIER SITE INVESTIGATIONS

Environmental investigations near the Building 200 Investigative Site began in 1985 and were associated with the closure of an inactive solid waste landfill located approximately 1000 ft. north of the building. Some of the wells drilled during these unrelated investigations have been used to supply data for the Building 200 RFI.

Environmental investigations at the Building 200 site began in July 1989 and have continued through 1993. Xerox initiated investigative activities in order to define subsurface conditions at the purported solvent burn area thought to have been located near the south end of the building footprint. In July 1989, soil vapor sampling across the southern sector of the building resulted in no elevated levels of VOCs detected. This area was assigned SWMU 81, however little evidence of a VOC release in this area was found by the soil vapor survey. Depth to bedrock at the southeast end of the building is on the order of approximately one foot, which limited soil probe advancement at some locations. Results of the soil vapor survey were presented in a report titled "Building 200 Investigation, Soil Vapor Survey, Webster, New York" (H&A, September 1989).

The investigations were expanded to evaluate subsurface chemical conditions at former solvent use areas within the building, and to locate potential VOC releases to the subsurface, if present. Concentrations of VOCs were detected in shallow soil vapor samples collected near a former subgrade degreaser sump at building column PP-13. The primary VOC detected was tetrachloroethylene (PCE) with lower concentrations of trichloroethylene (TCE) and dichloroethylene (DCE). This area is now SWMU 89.

Soil vapor samples collected in the vicinity of a former drum storage area adjacent to the east wall of the building (SWMU 66) were found to contain parts-per-billion levels of PCE at two sample locations. Most sample locations in this area were non-detect.

In August 1989, shallow bedrock well SR200-1 was installed adjacent to the former degreaser sump. Groundwater samples from the well in 1989 were found to contain 347 mg/L (ppm) PCE, 3.27 mg/L TCE, 2.26 mg/L 1,1-dichloroethane (DCA), and 0.293 mg/L 1,1,1-trichloroethane (TCA).

During 1991, a blasted bedrock trench was installed northeast of Building 200 as shown on Figure 8. This trench is designed for migration control of groundwater containing dissolved volatile organic compounds (VOCs) derived primarily from the Salt Road site. Groundwater is pumped from this trench and routed to Xerox's groundwater treatment system located in Building 348. The 350 ft. long trench is blasted to a depth of 25 ft. below the top of bedrock and captures groundwater from the shallow and intermediate bedrock zones. Groundwater yield from the trench ranges between about 5 and 8 gpm.

Bedrock wells B19-SR, B19-DR, B26-SR, B26-IR, B29-SR, and B29-IR were installed during April 1991 to monitor groundwater quality downgradient of the building. In July to August 1991, bedrock wells SR200-2 through SR200-4 were installed inside the building near the location of the former degreaser sump (SWMU 89) to further define soil and groundwater conditions in that area, and well SR200-5 was installed at the former drum storage area (SWMU 66). (The letters SR, IR, and DR designate shallow bedrock, intermediate bedrock, and deep bedrock wells, respectively).

The well installations, and groundwater sampling results from the wells were reported in the Building 200 Investigation" (H&A, January 1992). This report also contained current sampling results from miscellaneous wells installed by others during the 1985 inactive solid waste landfill closure, and for wells 210-1 through 210-3 installed during a 1988 investigation of the Building 210 site (H&A, May 1988). The report included shallow bedrock zone and intermediate-bedrock zone groundwater contour plans indicating groundwater flow to the north-northeast in the shallow bedrock, and to the northwest-northeast in the intermediate bedrock. At some locations, groundwater elevations in the intermediate bedrock wells were found to be three to four feet above those found in shallow bedrock wells of the same well cluster. These findings indicated artesian (confined aquifer) conditions in the intermediate bedrock zone north of the building. Trenches blasted into the top of bedrock during construction of subgrade utility pipes appeared to be locally affecting groundwater drainage in the shallow bedrock zone northeast of the building.

A groundwater contaminant plume consisting of dissolved phase VOCs including predominantly PCE, TCE, and 1,1-DCA was identified at wells SR200-1, SR200-3, B19-SR and B19-IR. These well locations are shown on Figure 3 of this report. Contaminant characterization (stiff) diagrams indicated the apparent presence of a second, chemically distinct groundwater plume containing predominantly 1,2-DCE and vinyl chloride adjacent to the east margin of the Building 200 Investigation site as indicated by wells 210-1, 210-2 and 210-3. The water quality in these wells most likely represents the Salt Road Plume.

2-02. RFI WORK PLAN INVESTIGATIONS

not consistent with previous designations

During the period 25 May to 22 June 1993, bedrock wells DR200-7, R200-8, R200-9, and SR200-10 were installed (Figure 3) in accordance with the Building 200 RFI Work Plan (H&A, July 1992). The purpose of these wells was to further define groundwater conditions north and east of the building.

On 23 and 24 July 1993, wells VE200-1 and VE200-3 were installed inside the building during plant shutdown. These 4-in. diameter wells are screened in the overburden soils at, and downgradient of, the former degreaser sump (SWMU 89). The wells were installed for purposes of vacuum extraction Interim Remediation (IR) measures. Groundwater was not encountered during drilling of VE200-1 and VE200-3, indicating that vacuum extraction from the adjacent shallow bedrock wells has locally dewatered the overburden soils in the SWMU 89 vicinity. These two wells, and the adjacent 2-in. diameter shallow bedrock wells SR200-1 and SR200-2, are tied into a Xerox 2-Phase® extraction system currently operating at the site. 3

Also during the current RFI Work Plan investigations, detailed soil gas surveys were performed at the former drum storage area (SWMU 66) and at the southeast end of the building (SWMU 81), as shown on Figures 4 and 5, respectively. The work was intended to supplement previous investigations which were summarized in H&A, 1989.

Results of the current soil gas surveys are consistent with earlier results and found no additional evidence of VOC releases at either the purported solvent burn area (SWMU 81) or at the former drum storage area (SWMU 66). Results from the drum storage area (SWMU 66) consisted of non-detect readings at most sample locations, and some sample locations with low parts per billion levels of DCE, TCE, PCE and toluene. The low concentrations of the VOCs are not indicative of a contaminated soils source area at this SWMU. Results from the southeast corner of the building (SWMU 81) were predominantly non-detect, as before. Findings of the current soil gas surveys are further discussed in Section 5-01.

III. HYDROGEOLOGIC CONDITIONS

The hydrogeologic conditions revealed during the implementation of the July 1992 RFI Work Plan are consistent with conditions delineated during previous investigations as summarized in the January 1992 hydrogeologic report. The test borings and monitoring wells installed at the site are identified on Figure 3. Subsurface information obtained from the drilling and well installation programs is included on the test boring reports contained in Appendix A. A brief summary of site geology follows below.

3-01. SITE GEOLOGY

The Building 200 site is situated approximately 4,000 ft. north of the former shoreline of glacial Lake Iroquois, which is coincident with the approximate 425 ft. elevation contour along Route 104 in Webster. Lake Iroquois was a relatively long duration glacial lake phase and a predecessor to present day Lake Ontario.

Soils underlying the Building 200 area consist of locally derived compacted soil fill deposits, lacustrine sand, and glacial till overlying bedrock. The glacial till was deposited over the bedrock during glaciation. Wave action and shoreline processes resulted in the reworking of the upper portion of the till and deposition of lacustrine sands and silts in some areas. The lacustrine deposits are overlain by various types of fill associated with building construction activities.

The bedrock encountered in the Building 200 investigative site consists of the Grimsby Sandstone, which is a reddish brown medium to fine grained thin to thick bedded sandstone. As a result of glaciation, the upper portion of the bedrock is generally more intensively fractured than at depth. The number of horizontal partings generally decreases with depth, while the number of vertical joints encountered by core borings appears to be relatively constant with depth. The Queenston Shale underlies the Grimsby, and consists of an approximate 2000-ft. thick section of shale and siltstone of generally low permeability.

Surface streams in the site vicinity appear to follow preferred orientations, probably reflecting the orientations of joints in the underlying bedrock. Previous hydrogeologic studies in the Building 200 area, of the Salt Road Complex, at the former industrial landfill site to the north of Building 200, and on other locations on the Joseph C. Wilson Center for Technology have indicated preferential zones of groundwater flow in the bedrock associated with bedrock joint orientations. Where encountered at other sites, these zones of elevated permeability tend to act as preferred flow pathways for groundwater.

The overburden in the Building 200 area generally ranges in thickness from about 2 to 24 ft. The top of bedrock surface exhibits considerable topography as indicated on the bedrock contour plan which is included as Figure 6. The bedrock surface beneath Building 200 generally slopes to the northwest. Bedrock at the southeast end of the site is covered by only a thin veneer of soil about one to two feet thick. The top of bedrock northeast of Building 200 in the vicinity of Building 330 (Figure 6) is also shallow. It is covered by about one to two feet of apparent fill deposits, and was found to be highly weathered to a very dense soil consistency down to a depth of about nine feet.

3-02. SITE HYDROGEOLOGY

Previous hydrogeological characterizations at the site are summarized in the "Hydrogeologic Report, Building 200 Investigation" dated 31 January 1992 by H&A of New York. Groundwater in the Building 200 Investigative Area occurs in three distinct zones summarized as follows:

- Shallow Bedrock Zone - This zone consists of the overburden and the upper ten feet of bedrock and is represented by the overburden and shallow rock wells.

- Intermediate Bedrock Zone - This zone occurs approximately 15 to 25 feet below the top of bedrock and is represented by the intermediate bedrock wells installed at the site as shown on Figure 3. This zone includes wells designated by the prefixes R, IR and 210.

- Deep Bedrock Zone - This zone occurs approximately 30 to 45 feet below the top of bedrock surface and is monitored by the DR Series wells.

The hydrogeologic units are distinguished primarily through hydraulic head differentials and zones of elevated permeability. Well Installation Reports for the on-site wells are contained in Appendix B. A summary of the monitoring well elevations according to their monitoring zone is included as Table I.

A shallow bedrock groundwater contour plan is included as Figure 7 and represents groundwater flow conditions in September 1993. Groundwater in the shallow bedrock zone appears to flow to the north and northeast from the Building 200 area. A trough appears to occur in the shallow bedrock zone as evidenced by the low water levels in wells B19SR and B27A as shown on Figure 7. This northeasterly trending trough is consistent with a predominant joint pattern which has been identified at other investigative sites on the Webster facility, as identified on Figure 10 of the Facility Reference Document.

A groundwater potentiometric surface for the intermediate bedrock zone is included as Figure 8. Groundwater in the northern portion of Building 200 flows northward and appears to be intercepted by the bedrock groundwater recovery trench installed north of Building 215 as shown on Figure 8. The recovery trench was completed by fracturing the bedrock using explosives and was installed as part of the Salt Road groundwater remediation system. The approximate zone of capture of the Recovery Well 15 trench is illustrated on Figure 8.

The elevation of the potentiometric surface in the intermediate bedrock zone appears to be above that of the shallow bedrock zone at several locations. Available data for the remainder of the Webster site indicates that the vertical gradient between the shallow bedrock zone and underlying intermediate zone is usually downward, rather than upward as appears to be the case at the north end of the Building 200 site. The upward gradient at this location most likely results from the substantial lowering of head in the shallow bedrock zone due to the impact of sustained pumping from the Recovery Well 15 trench and from pumping of the bedrock trench installed on the north edge of the former solid waste landfill (Figure 3). The trenches would be expected to be more effective at lowering water levels in the shallow-bedrock zone than in the underlying intermediate bedrock because of the generally higher permeability which exists in the upper portion of the bedrock. The pumping water level in Recovery Well 15 is set in an elevation of 369.3 feet, which

is several feet lower than the elevation of the water levels measured in the shallow bedrock zone near Building 200.

Based on available water level data, it appears that the groundwater flow in the shallow and intermediate bedrock zones to the north of Building 200 is effectively captured by the recovery well trench installed north of Building 215 as part of the Salt Road Corrective Measure.

Only two wells were constructed in the deep bedrock as part of the Building 200 investigation, and no potentiometric surface contour plan could be prepared. The water level elevations in the deep bedrock wells are shown on Figure 9. The vertical gradient at the deep well locations is downward from the overlying intermediate bedrock zone. Water levels in the two deep bedrock wells have wide differences in elevation, and both wells possess low hydraulic conductivity. These data suggest limited and uneven groundwater recharge across the deep bedrock zone.

Hydraulic conductivity testing was performed for the wells installed during the implementation of the July 1992 RFI Work Plan. Rising head permeability test results are included in Appendix C. The hydraulic conductivity results obtained from the recent and previously installed wells are summarized on Table II. The hydraulic conductivity values obtained from the recently installed wells are consistent with the range of permeabilities obtained from previous investigations in the Webster facility. The geometric mean hydraulic conductivities for each of the primary water bearing zones at the Building 200 Investigative Area are summarized as follows:

Water Bearing Zone	Geometric Mean Hydraulic Conductivity (cm/sec)
Shallow Bedrock	2.6×10^{-5}
Intermediate Bedrock	1.5×10^{-5}
Deep Bedrock	2.2×10^{-6}

The average velocity of groundwater in the bedrock zones can be estimated from Darcy's Law:

$$V = \frac{KI}{N_e}$$

where V equals the groundwater velocity, K equals the hydraulic conductivity, I equals the hydraulic gradient and N_e equals the effective porosity.

The effective porosity of the Grimsby Sandstone has been estimated from natural gas exploratory drilling data as ranging between about 5 and 10 percent. Based on a measured groundwater gradient in the shallow rock of 0.017 ft/ft. along the northeastern portion of Building 200, the geometric mean of hydraulic conductivity and an effective porosity of 10 percent, the estimated average groundwater flow velocity is approximately 5 ft/yr. The hydraulic conductivities in the shallow rock range over four orders of magnitude, and groundwater velocities are substantially higher in higher permeability zones.

Based on an observed groundwater gradient of approximately 0.01 ft/ft. along the northern portion of Building 200, and a geometric mean hydraulic conductivity of 1.5×10^{-5} cm/sec., the average groundwater flow velocity in the intermediate bedrock zone is estimated at 2 ft/yr. The velocity of groundwater in the deep bedrock zone cannot be calculated because a groundwater gradient cannot be estimated from the two existing deep bedrock wells. As with the shallow rock, groundwater velocities will be higher in areas of elevated hydraulic conductivity.

In summary, groundwater in the shallow- and intermediate-bedrock zones along the northern portion of Building 200 appears to be effectively captured by the groundwater recovery trench installed north of Building 215 associated with the Salt Road Corrective Measure.

IV. GROUNDWATER QUALITY

Water quality samples were obtained from the Building 200 Investigative Area wells during June and September of 1993 in accordance with the July 1992 RFI Work Plan. Analytical data are summarized in Table III and are shown graphically on Figures 10 through 12. Elevated levels of VOCs of approximately 25 to 300 ppm were identified in the suspected SWMU 89 source area in wells SR200-1 and SR200-3, respectively during the September 1993 sampling event (Figure 10). These concentrations are slightly lower than the VOC concentrations detected during the 1989 sampling events in part due to the 2-Phase® extraction IR measures being applied at SWMU 89 wells. Approximately 31 ppm of VOCs were detected in well B19SR in the shallow rock zone to the northeast of SWMU 89. This well lies within the trough in the shallow bedrock groundwater system identified in Section II and shown on Figure 7. Elevated concentrations of VOCs at this location probably result from the migration of groundwater born VOCs along a preferred groundwater flow pathway. The primary VOC constituent detected at these locations was tetrachloroethylene as shown in Table III.

Groundwater quality in the intermediate bedrock is detailed on Figure 11 and summarized in Table III. The highest concentrations of VOCs in the intermediate bedrock zone were detected at well 210-3. VOCs detected at well 210-3 appear to have originated from the Salt Road Plume.

At well R200-8, installed near SWMU 66, the concentrations of VOCs in the intermediate zone were approximately twice the levels detected in the shallow zone at this location (well SR200-5). This location represents the only wells in the Building 200 Investigative Area in which 1,1-DCE and vinyl chloride were present. The primary compounds detected at this SWMU location were 1,2-DCE and 1,1-DCA. Vinyl chloride, 1,2-DCE and 1,1-DCA are consistent with the constituents originating from the Salt Road site as reflected in the VOC chemistry of the 210 Series wells. The 1,1-DCE detected in SR200-5 and R200-8 does not appear to originate from Salt Road or from the SWMU 89 source area based on available water quality data.

The relative absence of VOCs in soil vapor at the SWMU 66 location, coupled with the higher VOC concentrations in the intermediate-bedrock zone compared to the shallow-bedrock zone, suggests that the source of VOCs in groundwater at the SWMU 66 location does not result from activities at either SWMU 66, or from SWMU 89 which lies upgradient to the north. VOC chemistry of the shallow and intermediate wells at the SWMU 66 location may result from a mixture of Salt Road groundwater from the east with groundwater containing low levels of tetrachloroethylene and 1,1-DCE migrating from south of Building 200. Because the SWMU 66 area appears not to be the source of the VOCs detected in groundwater, additional characterization of the SWMU 66 area is not warranted, and the SWMU should not be further investigated.

Groundwater from the SWMU 66 area flows northward and is captured by the Recovery Well 15 trench. Source area remedial measures have been implemented in the Building 208 and 209 areas to the south of Building 200, and additional action relative to the 1,1-DCE noted in the SWMU 66 area is not warranted.

Groundwater quality in the deep bedrock zone is illustrated on Figure 12 and included in Table IV. The primary constituents detected in well B19-DR are consistent with those detected in the shallow and intermediate bedrock wells installed at that location. The downward vertical migration of these constituents would be consistent with the downward vertical gradient which existed prior to the installation of the recovery well trench north of Building 215 and with a zone of vertical permeability associated with regional joining which is reflected in the groundwater elevation contours discussed in Section II. Water quality at well DR200-7 appears to be significantly different from that identified at well B19-DR and was characterized by the presence of several compounds not commonly detected at the Webster facility. The trihalomethane, chloroform and bromodichloromethane suggest the water quality was influenced by the use of chlorinated public water during drilling and well installation. These compounds are typically detected in wells which have recently been completed in rock and where chlorinated water was used during drilling operations. In addition, the presence of ethylbenzene and benzene at well DR200-7 is not consistent with the water quality elsewhere on the Webster facility. Ethylbenzene and benzene also can be introduced during the drilling operation if traces of fuel constituents are present in the driller's water truck or supply hoses during the drilling operation. The only compounds attributable to the site operation which were detected in well DR200-7 were tetrachloroethylene and 1,1-dichloroethane. PERC was detected at 3.5 and 20 ppb in the June and September 1993 analyses, respectively, and 1,1-DCA was detected at 2.2 ppb during the September sampling round. The DCA concentration is slightly above the analytical detection limit, and is below the practical quantification limit.

In summary, water quality data obtained during implementation of the July 1992 RFI Work Plan indicate water quality in the northern portion of the Building 200 Investigative Area is consistent with the historical operations conducted at SWMU 89. The VOCs in groundwater are concentrated in the shallow bedrock zone along the northern portion of Building 200. Groundwater flow in this zone appears to be currently captured by 2-Phase® extraction from wells at the SWMU 89 source-area, and by the Recovery Well 15 trench associated with the Salt Road Corrective Measure. Water level and water quality data for the intermediate bedrock zone also indicate that the groundwater flow in the intermediate bedrock is captured by the Recovery Well 15 trench. Although the vertical groundwater gradients and water quality data from the SWMU 66 area indicate that the SWMU 66 activities were not the likely source of contaminants found at this location, groundwater from the SWMU 66 area also flows northward and appears to be captured by the groundwater recovery system associated with Recovery Well 15.

V. SOIL CONDITIONS

5-01. SOIL VAPOR SURVEY

Supplemental soil-vapor survey work was conducted at both the SWMU 66 and the SWMU 81 areas. A total of 25 soil-vapor samples were obtained in the SWMU 66 area and nine soil-vapor samples in the SWMU 81 area. The soil vapor sampling locations are shown in Figures 4 and 5, respectively. At the SWMU 66 area, soil-vapor samples were collected on 26 through 28 May 1993. Twenty-five points (VP-1 through VP-25) were sampled on a 25-ft. grid at the locations shown on Figure 4. At the SWMU 81 area, soil-vapor samples were collected 27 June 1993. Nine sample points (VP-26 through VP-34) were sampled on a 100-ft. grid at the locations shown on Figure 5. Three additional locations could not be sampled due to probe refusal.

No elevated levels of VOCs were detected in the samples obtained from either area. All sample concentrations were well below the action level of 1 ppm total VOCs outlined in the July 1992 RFI Work Plan. The soil vapor sample testing results are summarized in Table V.

The highest sample concentrations in the SWMU 66 area of (up to 0.189 ppm total VOCs) were detected at two sample points located along the route of a storm sewer utility pipe (Figure 3). Utility trenches in the vicinity of SWMU 66 have been blasted into the top of bedrock due to the shallow depth to bedrock. Permeability is higher in the blasted trenches which allows VOC vapors to migrate upward from the contaminated groundwater below SWMU 66 (as indicated by SR200-5). The relatively low soil-vapor VOC concentrations in the SWMU 66 area are not consistent with the elevated VOC concentrations normally found at soil contamination source areas.

All except two samples from the supplemental SWMU 81 area investigation were non-detect. The low levels detected in two samples (0.013 ppm total VOCs in VP-31 and 0.003 ppm in VP-34) are not indicative of soil contamination associated with source areas. In addition, soil-vapor probes could generally not be advanced beyond a 2-ft. depth because of the shallow bedrock below this portion of the building.

The objective of the additional soil-vapor sampling in the SWMU 66 area was to assess the potential presence of VOCs in the soil stemming from former solvent drum storage in this area. The objective of additional soil-vapor sampling in the SWMU 81 area was to fill in the gaps in the previously conducted soil-vapor survey.

Methods outlined in Attachment 7, Appendix B of the Xerox Facility Reference Document (H&A, June 1991) were followed in sampling and analysis of soil vapor. The specific steps followed to obtain soil-vapor samples were:

- Drive solid steel bar to 3 ft. depth or to refusal;
- Withdraw steel bar and insert perforated sampling tube;
- Seal the sampling tube at ground surface using hydrated bentonite;
- Purge 1 liter of soil vapor;
- Collect 1 liter of soil vapor sample into a tedlar airbag.

After collecting samples, the tedlar bags were marked with the soil vapor location, date, time, and the depth and returned to the H&A laboratory for analysis. All bags were analyzed at the H&A laboratory within 2 days of collection. Analysis of samples was performed on a Photovac 10s55 portable gas chromatograph equipped with a 10 meter CPSIL 5 wide-bore capillary column and a 10.6eV photoionization detector.

5-02. SOIL ANALYTICAL RESULTS

Laboratory analytical results of soil samples from test boring explorations conducted during this investigation are summarized in Table VI.

Soil samples from three test borings were analyzed by General Testing Corporation for volatile organic compounds by EPA Method 8010/8020. The Work Plan called for selecting one soil per borehole for laboratory analysis based on field screening results of the soil jar samples with a Foxboro Organic Vapor Analyzer (OVA). All soil samples were non-detect with the OVA (Appendix A). Samples for analysis were therefore selected by the field geologist based on visual evidence, sample volume, and sample depth. No soil samples were submitted from boreholes adjacent to existing wells if previous soil analytical data was available from those locations.

The highest VOC levels were found in sample S7 at boring B18-SR at a total concentration of 0.250 mg/kg (parts per million). The compounds detected consisted of methylene chloride, 1,1,1-TCA, TCE, and PCE. This soil sample was from a depth interval of 12.0 to 12.5 ft. near the top-of-bedrock. Soil sample S2 (2.4 to 3.9 ft. depth interval) from boring R200-9 was analyzed and found to contain low parts per billion levels of TCE and PERC at a total concentration of 0.018 mg/kg. A soil sample from boring DR200-7 (4.0 to 6.0 ft. depth interval) was non-detect for VOCs. The VOC concentrations detected in these soil samples appear to be consistent with the dissolved-phase VOCs present in site groundwater.

VI. SUMMARY AND CONCLUSIONS

Based on the investigations conducted to date, the aerial and vertical extent of contamination at the Building 200 investigative site have been adequately defined. In addition, groundwater flow in the shallow and intermediate bedrock zones in the northern portion of Building 200 appears to be effectively captured by Recovery Well 15 installed as part of the Salt Road Corrective Measure. Water quality data indicates that the majority of the VOC compounds detected in the northern portion of Building 200 are attributable to SWMU 89 operations. Vertical groundwater gradients and constituent chemistry data indicates that SWMU 66 was not likely the source of contamination to shallow and intermediate groundwater at that location. Given the northward groundwater flow from the SWMU 66 location and the apparent capture of groundwater flow by Recovery Well 15, additional characterization of the SWMU 66 area is not warranted.

Xerox has previously considered installing a pumping well in the B19 area because of elevated VOC concentrations. Due to the apparent hydraulic capture of groundwater from well cluster B19 to the Recovery Well 15 trench, groundwater pumping from wells B19-SR and/or B19-IR does not appear necessary at this time. As an alternative, Xerox should consider lowering the pumping level in RW15 by setting the high level switch in the well at a lower elevation. This would increase the capture zone relative to the B19 area. Water level data and water quality should be monitored for a period of several months to evaluate the effectiveness of RW15 in capturing contamination near the B19 cluster. Additional actions could be evaluated if a more aggressive capture of groundwater flow is determined to be necessary. These actions could include pumping from the cluster location or extending the RW15 trench westward.

REFERENCES

1. Miscellaneous Test Boring Logs of Recra Research, Inc. and O'Brien & Gere Engineers, Inc. dated 1983 through 1985.

2. Building 200 Investigation, Soil Vapor Survey, Webster, New York by H&A of New York, September 1989.

3. Facility Reference Document for the Xerox Corporation, Joseph C. Wilson Center for Technology, Webster, New York. Volumes I, II and III by H&A of New York, Revised June 1991.

4. Hydrogeologic Report, Building 200 Investigation, Xerox Corporation, Webster, New York by H&A of New York, 31 January 1992.

5. Module III Corrective Action Requirements for Solid Waste Management Units, Xerox Part 373 Permit, Webster, New York, 9 June 1992.

6. RFI Work Plan, Building 200 Investigation, Xerox Corporation, Webster, New York by H&A of New York, 28 July 1992.

7. General Testing Corporation Environmental Laboratory Reports, Re: Xerox Corporation Building 200, Quarterly Well Monitoring Data, 4th Quarter 1991 through 1993.

lps:70092-44:rbld200

TABLE 1
XEROX CORPORATION
BUILDING 200 RFI INVESTIGATION
SUMMARY OF MONITORING WELL LOCATIONS AND ELEVATIONS

WELL ID.	COORDINATE LOCATION		ELEVATION					
	N	E	RISER (INSIDE)	CASING (OUTSIDE)	GROUND	MONITORING INTERVAL	TOP OF BEDROCK	GROUND-WATER 9/21-22/93
OVERBURDEN WELLS								
B18-A	NA	NA	380.28	NA	377.86	360.4-364.6	NP	374.21
B25-A	3119.00	1600.00	380.96	NA	377.98	351.5-357.5	NP	374.10
B26-A	3091.30	2014.30	381.00	381.31	378.66	364.5-371.8	NP	376.44
B27-A	3141.53	2536.67	386.76	NA	383.73	366.2-371.2	NP	369.39
B29-A	2670.85	1541.66	388.16	388.39	385.68	364.6-371.8	NP	378.05
VE200-1	2511.00	2102.00	392.10	NA	393.0	375.1-389.5	NP	NA
VE200-3	2565.00	2120.00	392.20	NA	393.0	373.9-388.5	NP	NA
SHALLOW BEDROCK WELLS								
SR200-1	2515.07	2102.96	392.79	392.98	392.98	366.0-378.5	374.7	NA
SR200-2	2447.60	2111.50	392.68	393.05	393.05	369.3-382.3	375.4	379.48
SR200-3	2569.10	2120.70	392.44	392.99	392.99	368.7-381.9	374.2	NA
SR200-4	2579.90	2051.70	392.75	393.01	393.01	368.3-381.3	374.0	378.10
SR200-5	2173.40	2418.50	392.12	392.46	392.46	378.5-385.9	385.0	382.28
SR200-10	3068.62	2361.49	379.67	379.79	377.20	365.1-370.1	368.2	374.63
B18-SR	3278.32	2007.70	381.12	381.41	379.20	360.2-367.4	364.7	375.00
B19-SR	2902.29	2287.33	381.78	381.42	379.50	361.5-369.0	369.7	370.15
B26-SR	3097.21	2010.08	380.82	380.98	379.00	360.0-368.0	364.5	374.52
B29-SR	2675.46	1538.79	388.18	388.34	385.48	357.5-365.5	361.7	376.83
B28-A	3322.17	2958.08	387.63	NA	384.36	372.4-377.4	377.1	NA
INTERMEDIATE BEDROCK WELLS								
210-1	2273.80	2705.80	396.33	396.77	396.33	366.7-376.7	391.8	380.94
210-2	2807.40	2745.20	388.40	389.70	386.60	358.6-368.6	383.6	371.49
210-3	2758.90	3011.80	392.80	394.30	391.40	361.4-371.4	386.6	375.96
B18-IR	NA	NA	379.11	NA	377.61	338.6-353.2	357.9	370.40
B19-IR	2901.69	2267.91	391.98	382.36	379.40	349.1-359.4	374.4	383.77
B25	3118.00	1590.00	381.77	NA	378.52	338.3-348.0	353.2	374.05
B26-IR	3092.76	2002.51	380.28	380.65	379.24	339.2-355.2	365.1	376.91
B29-IR	2676.85	1544.08	387.24	387.66	385.42	336.3-351.4	361.7	375.87
B27	3149.29	2536.13	385.42	NA	383.07	348.4-358.4	364.1	373.09
R88	3322.70	2963.80	388.10	NA	384.50	354.5-364.5	379.5	374.42
R200-8	2173.21	2476.99	395.35	395.46	392.80	362.5-373.1	387.5	381.80
R200-9	3068.59	2373.72	379.67	379.79	377.20	340.4-352.8	373.6	374.91
DEEP BEDROCK WELL								
B19-DR	2902.70	2281.61	381.21	381.40	379.46	319.5-333.5	374.0	368.28
DR200-7	2698.42	2199.03	385.97	386.12	383.60	326.5-336.5	371.6	334.70

NOTES:

1. ELEVATIONS ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM (NGVD), MEAN SEA LEVEL.
2. NORTHING AND EASTING COORDINATES ARE REFERENCED TO XEROX CORPORATION GRID SYSTEM.
3. GROUNDWATER ELEVATIONS LISTED ARE FROM THIRD QUARTER 1993 SAMPLING EVENT OF 21-22 SEPTEMBER 1993.
4. NA = DATA NOT AVAILABLE.
5. NP = NOT PENETRATED.
6. REFER TO TEXT FOR ADDITIONAL INFORMATION.
7. WELL B19-A DECOMMISIONED JUNE 1993.

TABLE 2
XEROX CORPORATION
BUILDING 200 RFI INVESTIGATION
SUMMARY OF HYDRAULIC CONDUCTIVITY TEST RESULTS

WELL ID.	Kh (cm/sec x 10−6)	REFERENCE	GEOMETRIC MEAN (cm/sec x 10−6)
OVERBURDEN WELLS			
B18−A	160	(3)	
B25−A	8.5	(3)	
B26−A	13	(1)	
B27−A	3700	(3)	
B29−A	8.2	(1)	
			55.7
SHALLOW BEDROCK WELLS			
SR200−1	5.3	(1)	
SR200−2	0.8	(1)	
SR200−3	1.1	(1)	
SR200−4	4.5	(1)	
SR200−5	91,000	(1)	
SR200−10	2.7	(3)	
B18−SR	9.1	(3)	
B19−SR	2,500	(1)	
B26−SR	60	(1)	
B29−SR	22	(1)	
			26
INTERMEDIATE BEDROCK WELLS			
210−1	47	(2)	
210−2	18	(2)	
210−3	160	(2)	
B−18	1.8	(3)	
B19−IR	23	(3)	
B−25	100	(3)	
B26−IR	0.98	(1)	
B−27	13	(3)	
B29−IR	0.3	(1)	
R200−8	480	(3)	
R200−9	12	(3)	
			15
DEEP BEDROCK WELLS			
B19−DR	1.6	(1)	
DR200−7	3.0	(3)	
			2.2

NOTES:

1. Kh CALCULATED BY APPLYING HVORSLEV'S METHOD DESCRIBED IN LAMBE AND WHITMAN (1961) TO DATA FROM RISING HEAD TESTS PERFORMED BY H&A OF NEW YORK
2. REFERENCES:
   (1) H&A OF NEW YORK "HYDROGEOLOGIC REPORT, BUILDING 200 INVESTIGATION, JOSEPH C. WILSON CENTER FOR TECHNOLOGY, WEBSTER, NEW YORK", JANUARY 1992.
   (2) H&A OF NEW YORK "HYDROGEOLOGIC REPORT, BUILDING 200 INVESTIGATION, INTERMIDIATE BEDROCK AQUIFER, JOSEPH C. WILSON CENTER FOR TECHNOLOGY, WEBSTER, NEW YORK", JUNE 1990.
   (3) THIS INVESTIGATION.
3. GEOMETRIC MEAN CALCULATED BY TAKING THE ANTILOG OF THE SUM OF NATURAL LOGARITHMS OF EACH HYDRAULIC CONDUCTIVITY TEST RESULT, AVERAGING THE LOGARITHMS, AND TAKING THE ANTILOG.
4. REFER TO TEXT FOR ADDITIONAL INFORMATION.

TABLE 3
XEROX CORPORATION
BUILDING 200 RFI INVESTIGATION
SUMMARY OF ANALYTICAL LABORATORY
GROUNDWATER ANALYSES
JUNE TO OCTOBER 1993 SAMPLING EVENTS

BORING NUMBER/ SAMPLING LOCATION	DATE SAMPLED	PARAMETER													
		VINYL CHLORIDE	METHYLENE CHLORIDE	CHLORO-FORM	1,1-DCE	1,1-DCA	1,2-DCE	1,1,1-TCA	TCE	BROMODI-CHLORO-METHANE	PERC	ETHYL-BENZENE	BENZENE	TOLUENE	TOTAL VOCS
OVERBURDEN WELLS															
B18-A	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	13	13
B25-A	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B26-A	06/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B26-A DUP.	06/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B26-A	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B27-A	09/22/93	--	--	--	--	--	27	--	--	--	--	--	--	--	27
B29-A	06/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B29-A	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B29-A DUP.	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHALLOW BEDROCK WELLS															
B18-SR	06/28/93	--	--	8.4	--	--	--	--	--	--	3.3	4.9	--	--	16.6
B18-SR	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B19-SR	06/16/93	--	--	--	--	190	130	--	910	--	19000	--	--	--	20230
B19-SR	09/21/93	--	--	--	--	--	--	--	1500	--	29000	--	--	--	30500
B19-SR DUP.	09/21/93	--	--	--	--	--	--	--	1500	--	29000	--	--	--	30500
B26-SR	06/16/93	--	--	--	--	31	5.4	--	26	--	85	--	--	--	147.4
B26-SR	09/21/93	--	--	--	--	5.0	1.6	--	7.7	--	14	--	--	--	28.3
B29-SR	06/16/93	--	--	--	--	1.5	--	--	--	--	--	--	--	--	1.5
B29-SR	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SR200-1	06/17/93	--	--	--	--	--	--	--	--	--	210000	--	--	--	210000
SR200-1	09/22/93	--	--	--	--	--	--	--	--	--	25000	--	--	--	25000
SR200-2	06/17/93	--	--	1.0	--	--	--	--	--	--	--	--	--	--	1.0
SR200-2	09/22/93	--	--	--	--	--	--	--	--	--	2.6	--	--	--	2.6
SR200-3	06/17/93	--	--	--	--	--	--	--	--	--	44000	--	--	--	44000
SR200-3	09/22/93	--	--	--	--	--	--	--	--	--	300000	--	--	--	300000
SR200-4	06/17/93	--	--	--	--	--	--	--	--	--	5.7	--	3.9	2.8	12.4
SR200-4	09/22/93	--	--	--	--	--	--	--	--	--	89	--	--	--	89
SR200-5	06/16/93	--	--	--	--	22	63	--	12	--	3.1	--	--	--	100.1
SR200-5	09/22/93	7.5	--	--	4.4	50	110	--	10	--	1.7	--	--	--	183.6
SR200-10	06/28/93	--	--	6.9	--	--	--	--	--	--	--	--	--	13	19.9
SR200-10	09/22/93	--	1.1	1.9	--	--	--	--	--	--	--	--	--	--	3.0

TABLE 3 (CONT.)

BORING NUMBER/ SAMPLING LOCATION	DATE SAMPLED	PARAMETER													
		VINYL CHLORIDE	METHYLENE CHLORIDE	CHLORO-FORM	1,1-DCE	1,1-DCA	1,2-DCE	1,1,1-TCA	TCE	BROMODI-CHLORO-METHANE	PERC	ETHYL-BENZENE	BENZENE	TOLUENE	TOTAL VOCS
INTERMEDIATE BEDROCK WELLS															
B-18IR	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-19IR	06/28/93	--	--	--	--	2.5	3.4	--	6.9	--	80	--	--	--	92.8
B-19IR	09/22/93	--	--	--	--	2.7	2.3	--	11	--	200	--	--	--	216.0
B-25	09/21/93	--	--	--	--	68	2.2	--	--	--	--	--	--	--	70.2
B26-IR	06/16/93	--	--	--	--	6.0	--	--	--	--	--	--	--	--	6.0
B26-IR	09/21/93	--	--	--	--	1.8	--	--	--	--	--	--	--	--	1.8
B-27	09/22/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B29-IR	06/16/93	--	--	--	--	6.3	--	--	--	--	--	--	--	--	6.3
B29-IR	09/21/93	--	--	--	--	6.6	--	--	--	--	--	--	--	--	6.6
R200-8	06/28/93	--	4.5	--	3.3	29	200	--	11	--	2.8	--	--	--	250.6
R200-8	09/22/93	11	--	--	5.0	54	240	--	20	--	8.2	--	--	--	338.2
R200-9	06/28/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
R200-9	09/22/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
210-1	10/14/93	5.9	0.58 J	--	1.9	7.9	220	--	2.5	--	--	--	--	--	238.2
210-2	10/14/93	270	4.1 J	--	--	34	540	--	6.7	--	--	--	--	--	850.7
210-3	10/14/93	340	2.0 B	--	--	88	2,800	175	42	--	270	--	--	--	3,540
R-88	10/14/93	--	--	--	--	--	2.0	--	--	--	--	--	--	--	2.0
DEEP BEDROCK WELLS															
B19-DR	06/16/93	--	--	--	--	2.3	2.9	--	52	--	53	--	--	--	110.2
B19-DR	09/21/93	--	--	--	--	1.2	4.3	--	79	--	20	--	--	--	104.5
DR200-7	06/28/93	--	--	8.4	--	--	--	--	--	1.2	3.5	3.5	--	--	16.6
DR200-7	09/22/93	--	9.1	3.5	--	2.2	--	--	--	--	20	24	2.1	--	60.9
QA/QC															
EQUIP. BLANK	06/16/93	--	--	1.1	--	--	--	--	--	--	--	--	--	--	1.1
EQUIP. BLANK	06/16/93	--	--	1.1	--	--	--	--	--	--	--	--	--	--	1.1
EQUIP. BLANK	09/22/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TRIP BLANK	06/16/93	--	--	1.0	--	--	--	--	--	--	--	--	--	--	1.0
TRIP BLANK	06/28/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TRIP BLANK	09/21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TRIP BLANK	09/22/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYS GROUNDWATER STANDARDS		2.0	5.0	7.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	100

NOTES:

1. R200-8 NEW MONITORING WELL INSTALLED IN ACCORDANCE WITH 28 JULY 1992 BUILDING 200 REI WORK PLAN.
2. GROUNDWATER SAMPLES COLLECTED BY GENERAL TESTING CORPORATION PERSONNEL, 16-17 JUNE AND 21-22 SEPTEMBER 1993, AND H&A OF NEW YORK PERSONNEL 28 JUNE 1993.
3. LABORATORY ANALYSES FOR VOLATILE ORGANIC COMPOUNDS (VOCS) PERFORMED BY GENERAL TESTING CORPORATION (GTC) UTILIZING EPA METHOD 8010/8020.
4. ANALYTICAL RESULTS PRESENTED IN MICROGRAMS PER LITER (UG/L) OR PARTS-PER-BILLION (PPB).
5. "--" INDICATES "BELOW DETECTION LIMIT" (BDL).
6. 1,1-DCE = 1,1-DICHLOROETHENE
7. 1,1-DCA = 1,1-DICHLOROETHANE
8. 1,2-DCE = 1,2-DICHLOROETHENE
9. 1,1,1-TCA = 1,1,1-TRICHLOROETHANE (METHYL CHLOROFORM).
10. TCE = TRICHLOROETHENE.
11. PERC = TETRACHLOROETHENE
12. VOCS = VOLATILE ORGANIC COMPOUNDS.
13. NA = NOT ANALYZED FOR THIS PARAMETER.
14. REFER TO TEXT FOR PARAMETER DETECTION LIMITS AND ADDITIONAL INFORMATION.
15. SEE FIGURE 2 FOR TEST BORING LOCATIONS.
16. REFERENCE STANDARDS DERIVED FROM "WATER QUALITY REGULATIONS", PART 703 NYSDEC, REVISED 15 NOVEMBER 1991.

TABLE 4
XEROX CORPORATION
BUILDING 200 RFI INVESTIGATION
SUMMARY OF ANALYTICAL RESULTS

APPENDIX 33 LIST ANALYSIS

WELL ID. SAMPLE DATE	SR-200-5 28 JULY 1993	B-19DR 28 JULY 1993	NYSDEC GROUNDWATER STANDARD
PARAMETER			
ORGANICS			
1,1-DICHLOROETHANE	0.054	ND	0.005
1,1-DICHLOROETHENE	0.006	0.005	0.005
TRICHLOROETHENE	0.010	0.050	0.005
TETRACHLOROETHENE	ND	0.045	0.005
VINYL CHLORIDE	0.019	ND	0.002
BENZ(A)ANTHRACENE	0.0061	ND	0.000002*
BENZO(B)FLUORANTHENE	0.0083	ND	0.000002*
BENZO(A)PYRENE	0.0068	ND	ND
BIS(2-ETHYLHEXYL)PHTHALATE	0.011	ND	0.050
CHRYSENE	0.0083	ND	0.000002*
FLUORANTHENE	0.018	ND	0.050*
INORGANICS			
ANTIMONY	0.239 N	ND	0.003*
ARSENIC	0.343	0.0261	0.025
BARIUM	0.677	0.190	1.0
CADMIUM	0.0283	ND	0.010
COBALT	0.311	ND	NA
COPPER	0.612	0.0491	0.200
CHROMIUM	22.5	0.271	0.050
LEAD	0.216 S	0.0208	0.025
MERCURY	0.00037	ND	0.0002
NICKEL	2.10	0.0845	NA
SELENIUM	0.0115 SN	ND	0.010
SILVER	0.018	ND	0.050
TIN	143	14.4	NA
VANADIUM	0.140	ND	NA
ZINC	2.36	0.0617	0.300
SULFIDE, TOTAL	1.12	1.32	0.050*

NOTES:

1. SAMPLE COLLECTED AND ANALYZED BY GENERAL TESTING CORPORATION, ROCHESTER, NY, 28 JULY 1993.
2. CONCENTRATIONS PRESENTED IN UNITS OF MILLIGRAM PER LITER (MG/L) OR PARTS PER MILLION (PPM).
3. ND - PARAMETER WAS ANALYZED FOR BUT NOT DETECTED.
4. NA - REFERENCE NOT AVAILABLE.
5. S - ANALYSIS PERFORMED BY THE "METHOD OF STANDARD ADDITIONS".
6. N - MATRIX SPIKE RECOVERY NOT WITHIN LAB QC LIMITS.
7. * - GUIDANCE VALUE ONLY.
8. NYSDEC GROUNDWATER STANDARD AS PRESENTED BY DIVISION OF WATER TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) AMBIENT WATER QUALITY STANDARDS, REVISED 1991.

TABLE 5

XEROX CORPORATION

BUILDING 200 RFI INVESTIGATION

SWMU 66

SOIL–VAPOR SAMPLING RESULTS IN PPM

SAMPLING LOCATION	DATE SAMPLED	SAMPLE DEPTH (FT.)	PARAMETER									
			VINYL CHLORIDE	METHYLENE CHLORIDE	TRANS–1,2–DCE	1,1–DCA	CIS–1,2–DCE	1,1,1–TCA	TCE	TOLUENE	PERC	TOTAL VOCS
VP–1	05/26/93	3.0	--	--	--	--	0.008	--	--	0.011	--	0.019
VP–2	05/26/93	3.0	--	--	--	--	0.017	--	--	0.003	--	0.020
VP–3	05/26/93	3.0	--	--	--	--	0.016	--	--	0.026	--	0.042
VP–4	05/26/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–5	05/26/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–6	05/26/93	1.5	--	--	--	--	--	--	--	0.006	--	0.006
VP–7	05/26/93	2.5	--	--	--	--	--	--	--	--	--	--
VP–8	05/26/93	1.5	--	--	--	--	--	--	--	--	--	--
VP–9	05/26/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–10	05/26/93	1.5	--	--	--	--	--	--	--	--	--	--
VP–11	05/27/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–12	05/27/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–13	05/27/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–14	05/27/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–15	05/27/93	3.0	--	--	--	--	--	--	--	--	--	--
VP–16	05/27/93	2.5	--	--	--	--	--	--	--	--	--	--
VP–17	05/28/93	1.5	--	--	--	--	0.005	--	--	--	0.003	0.008
VP–18	05/28/93	1.5	--	--	--	--	--	--	0.018	--	0.007	0.025
VP–19	05/27/93	3.0	--	--	--	--	0.004	--	0.098	0.002	0.085	0.189
VP–20	05/27/93	1.5	--	--	--	--	0.005	--	--	0.096	0.006	0.107
VP–21	05/27/93	1.5	--	--	--	--	--	--	--	--	--	--
VP–22	05/28/93	1.5	--	--	--	--	--	--	--	--	0.003	0.003
VP–23	05/26/93	3.0	--	--	--	--	--	--	--	--	0.004	0.004
VP–24	05/28/93	2.5	--	--	--	--	--	--	--	--	0.043	0.043
VP–25	05/28/93	1.5	--	--	--	--	--	--	--	--	--	--

NOTES:

1. ANALYTICAL RESULTS PRESENTED IN MILLIGRAMS PER LITER (MG/L) OR PARTS–PER–MILLION (PPM) RELATIVE AQUEOUS STANDARDS HEADSPACE.
2. "--" INDICATES NOT DETECTED. ESTIMATED METHOD DETECTION LIMIT 0.002 PPM.
3. TRANS–1,2–DCE = TRANS–1,2–DICHLOROETHENE
4. 1,1–DCA = 1,1–DICHLOROETHANE
5. CIS–1,2–DCE = CIS–1,2–DICHLOROETHENE
7. 1,1,1–TCA = 1,1,1–TRICHLOROETHANE
8. TCE = TRICHLOROETHENE.
9. PERC = TETRACHLOROETHENE
10. VOCS = VOLATILE ORGANIC COMPOUNDS.
11. REFER TO TEXT FOR PARAMETER DETECTION LIMITS AND ADDITIONAL INFORMATION.
12. SEE FIGURE 2 FOR SAMPLE LOCATIONS.

TABLE 5 (CONT'D)
XEROX CORPORATION
BUILDING 200 RFI INVESTIGATION
SWMU 81
SOIL–VAPOR SAMPLING RESULTS IN PPM

SAMPLING LOCATION	DATE SAMPLED	SAMPLE DEPTH (FT.)	PARAMETER									
			VINYL CHLORIDE	METHYLENE CHLORIDE	TRANS–1,2–DCE	1,1–DCA	CIS–1,2–DCE	1,1,1–TCA	TCE	TOLUENE	PERC	TOTAL VOCS
VP–26	06/27/93	1.2	--	--	--	--	--	--	--	--	--	--
VP–27	06/27/93	1.4	--	--	--	--	--	--	--	--	--	--
VP–28	06/27/93	2.2	--	--	--	--	--	--	--	--	--	--
VP–29	06/27/93	0.8	--	--	--	--	--	--	--	--	--	--
VP–30	06/25/93	1.7	--	--	--	--	--	--	--	0.002	--	0.002
VP–31	06/27/93	1.7	--	--	--	0.006	--	--	--	0.007	--	0.013
VP–32	06/27/93	0.8	--	--	--	--	--	--	--	--	--	--
VP–33	06/27/93	1.9	--	--	--	--	--	--	--	--	--	--
VP–34	06/27/93	3.0	--	--	--	0.003	--	--	--	--	--	0.003

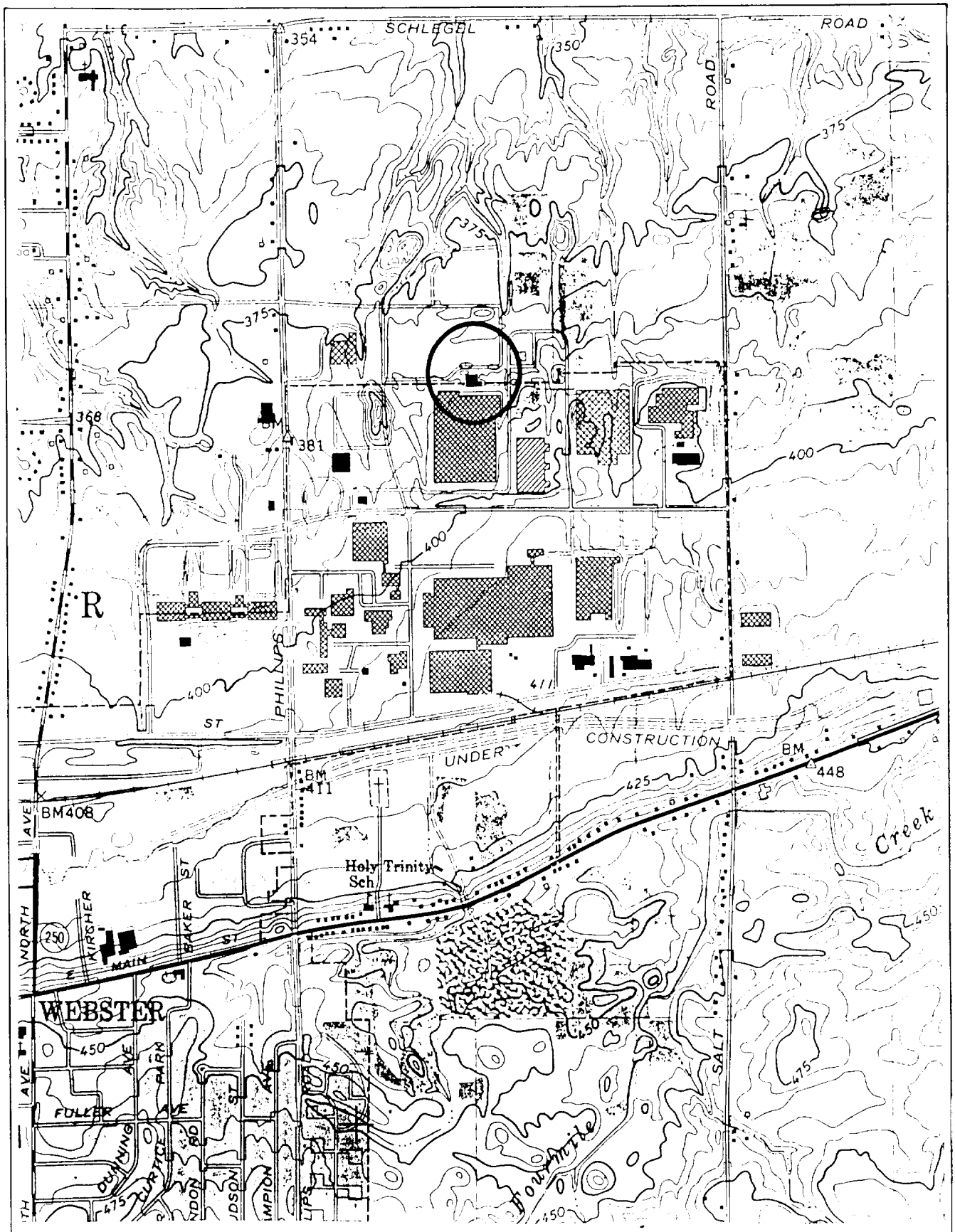
NOTES:
1. ANALYTICAL RESULTS PRESENTED IN MILLIGRAMS PER LITER (MG/L) OR PARTS–PER–MILLION (PPM) RELATIVE AQUEOUS STANDARDS HEADSPACE.
2. "– –" INDICATES NOT DETECTED. ESTIMATED METHOD DETECTION LIMIT 0.002 PPM.
3. TRANS–1,2–DCE = TRANS–1,2–DICHLOROETHENE
4. 1,1–DCA = 1,1–DICHLOROETHANE
5. CIS–1,2–DCE = CIS–1,2–DICHLOROETHENE
7. 1,1,1–TCA = 1,1,1–TRICHLOROETHANE
8. TCE = TRICHLOROETHENE.
9. PERC = TETRACHLOROETHENE
10. VOCS = VOLATILE ORGANIC COMPOUNDS.
11. REFER TO TEXT FOR PARAMETER DETECTION LIMITS AND ADDITIONAL INFORMATION.
12. SEE FIGURE 2 FOR SAMPLE LOCATIONS.

TABLE 6
XEROX CORPORATION
BUILDING 200 RFI INVESTIGATION
SUMMARY OF SOIL ANALYTICAL RESULTS IN PPM

BORING NUMBER/ SAMPLING LOCATION	DATE SAMPLED	DEPTH (FT.)	PARAMETER						
			METHYLENE CHLORIDE	CHLOROFORM	1,1,1-TCA	TCE	BROMODI-CHLORO-METHANE	PERC	TOTAL VOCS
SOIL									
B-18SR-S7	05/25/93	12.0-14.0	0.019	--	0.060	0.086	--	0.085	0.250
R200-9-S2	05/27/93	2.4-3.9	--	--	--	0.0086	--	0.010	0.0186
DR200-7-S3	06/14/93	4.0-6.0	--	--	--	--	--	--	--
QA/QC									
DRILL WATER	05/26/93		--	0.022	--	--	0.0028	--	0.0248
TRIP BLANK	05/27/93		--	--	--	--	--	--	--
TRIP BLANK	06/14/93		--	--	--	--	--	--	--
NYS SOIL STANDARDS		-	0.093	0.110	7.000	0.064	0.0054	0.014	-

NOTES:

1. ANALYTICAL RESULTS PRESENTED IN UNITS OF MILLIGRAMS PER KILOGRAM (MG/KG) EQUIVALENT TO PARTS-PER-MILLION (PPM).
2. SOIL SAMPLES COLLECTED BY H&A OF NEW YORK PERSONNEL.
3. LABORATORY ANALYSES FOR VOLATILE ORGANIC COMPOUNDS (VOCS) PERFORMED BY GENERAL TESTING CORPORATION (GTC) UTILIZING EPA METHOD 8010/8020.
4. "--" INDICATES "BELOW DETECTION LIMIT" (BDL).
5. 1,1,1-TCA - 1,1,1-TRICHLOROETHANE (METHYL CHLOROFORM).
6. TCE - TRICHLOROETHENE.
7. PERC - TETRACHLOROETHENE
8. VOCS - VOLATILE ORGANIC COMPOUNDS.
9. NA - NOT ANALYZED FOR THIS PARAMETER.
10. REFER TO TEXT FOR PARAMETER DETECTION LIMITS AND ADDITIONAL INFORMATION.
11. SEE FIGURE 2 FOR TEST BORING LOCATIONS.
12. REFERENCE VALUES DERIVED FROM "DRAFT CLEAN-UP POLICY AND GUIDELINES", NYSDEC, OCTOBER 1991.



LATITUDE: 43°13'59"N LONGITUDE: 77°24'42"W

N

QUADRANGLE LOCATION

USGS QUADRANGLE: WEBSTER, N.Y.

H&A OF NEW YORK

Geotechnical Engineers & Environmental Consultants

XEROX CORPORATION
INVESTIGATIVE SITE W-200
WEBSTER, NEW YORK

PROJECT LOCUS

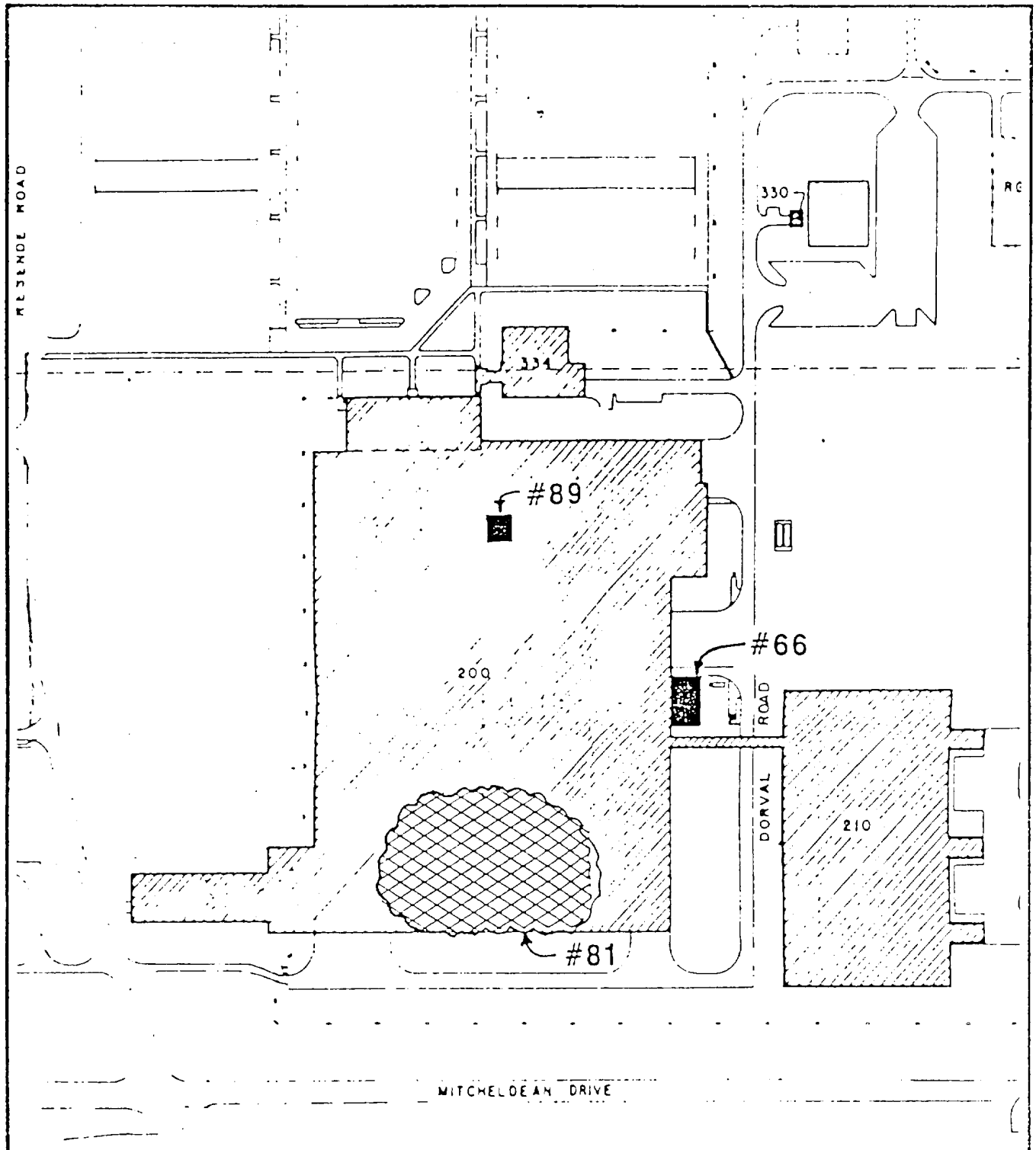
APPROX. SCALE: 1 IN. = 2000 FT.

JANUARY 1990

FILE NO. 70092-45

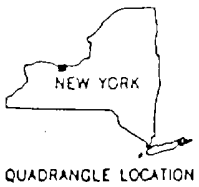
MAKEPEACE

FIGURE



NOTE:

1. REFER TO TEXT FOR DESCRIPTION OF SWMU AREAS.



QUADRANGLE LOCATION

U.S.G.S. QUADRANGLE: WEBSTER, NY

H&A of New York
Consulting Geotechnical Engineers, Geologists and Hydrogeologists

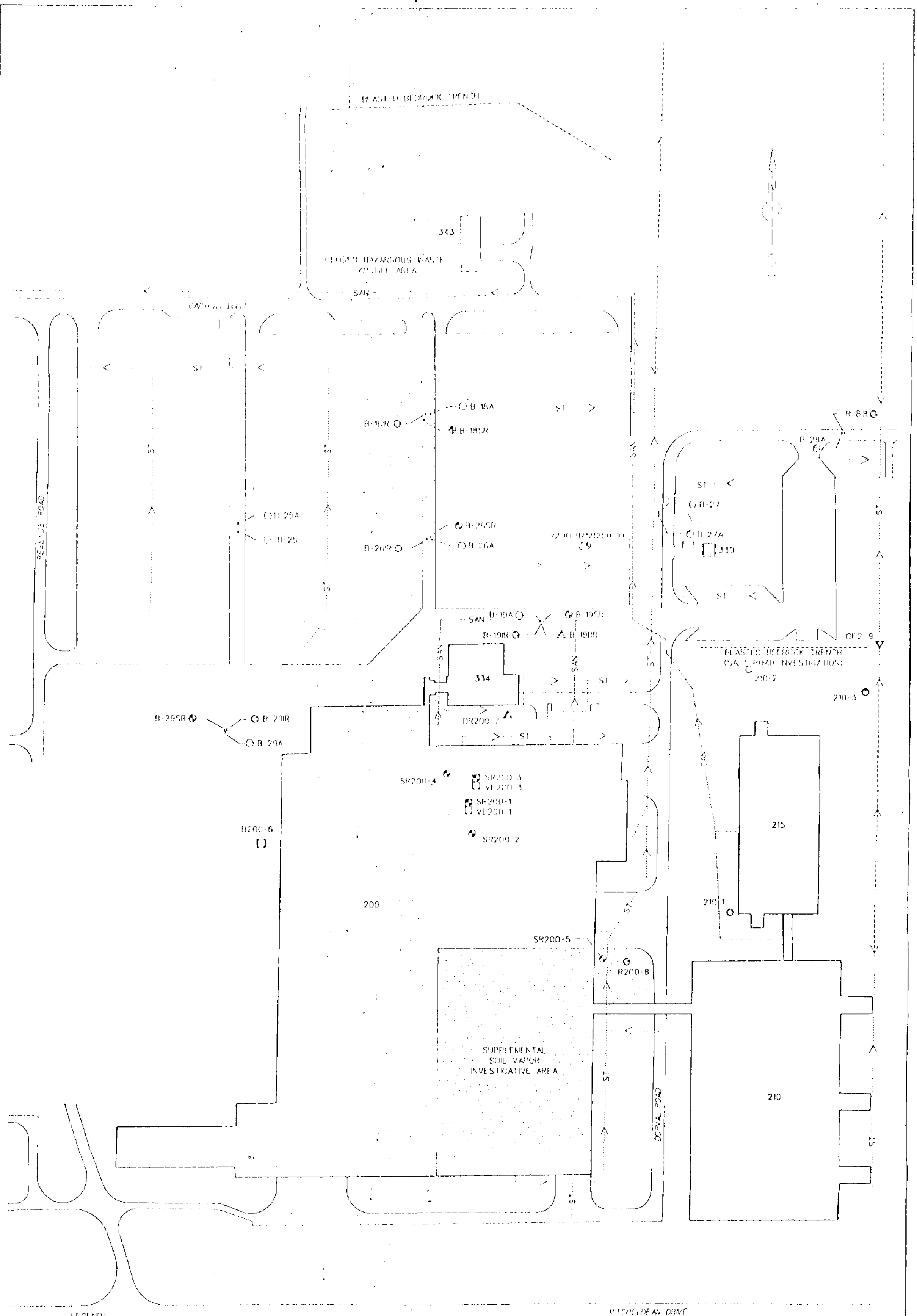
XEROX CORPORATION
BUILDING 200 INVESTIGATION
WEBSTER, NEW YORK

SWMU LOCATION PLAN

SCALE: 1 IN. = 300 FT. OCTOBER 1991

FILE NO. 70092-43

FIGURE 2



LEGEND:

---SAN---	SANITARY SEWER
----ST----	STORM SEWER
---------	BLASTED BEDROCK TRENCH
○	OVERBURDEN WELL
	SHALLOW ROCK WELL
	INTERMEDIATE ROCK WELL
Λ	DEEP ROCK WELL
[ ]	TEST BORING
	SOIL VAPOR STUDY AREA
	INDICATES WELL TIED INTO BUILDING 200 VES SYSTEM

NOTES:

1. BASEMAP DATA FILE PREPARED BY BERGMANN ASSOCIATES, ROCHESTER, NEW YORK UNDER DIRECT CONTRACT WITH XEROX CORPORATION.
2. ALL LOCATIONS SHOWN ARE APPROXIMATE
3. UTILITIES IN SELECTED AREAS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY BASED ON INFORMATION PRESENTED ON XEROX UTILITY INTERFERENCE PLAN NUMBERS 1000 UP D3, D4, E3, E4, F3, AND F4. REFER TO THOSE PLANS FOR MORE DETAILED UTILITY INFORMATION.
4. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants
189 North Water Street   Rochester, New York

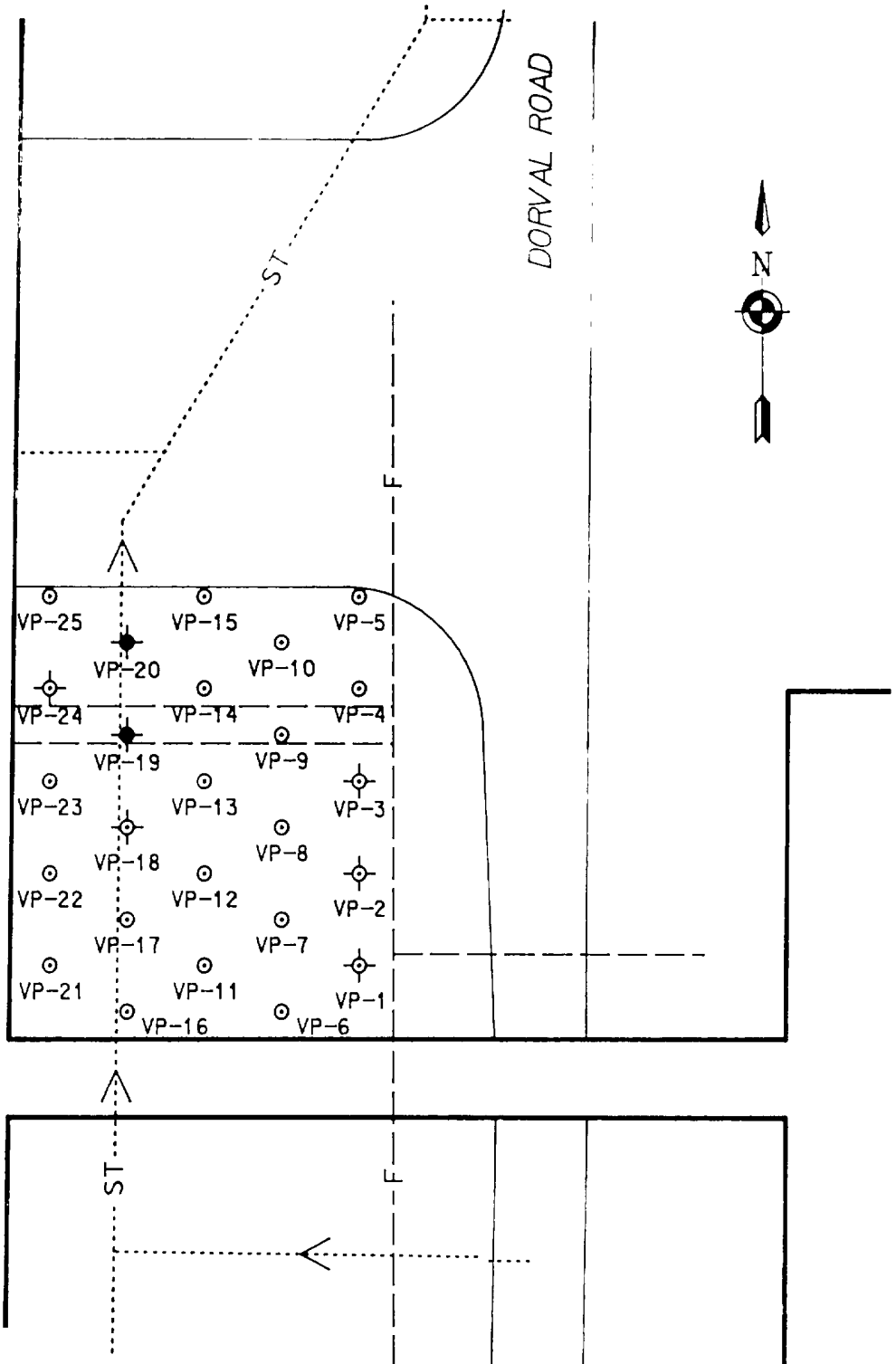
XEROX CORPORATION
BUILDING 200 RFI INVESTIGATION
WEBSTER, NEW YORK

TEST BORING/MONITORING WELL
GROUNDWATER SAMPLING LOCATION PLAN

SCALE: 1" = 100'   JANUARY 1994

FILENAME: [illegible]   FIGURE 7

FILE NO. 70092-44



LEGEND:

- ✦ 0.100–0.200 PPM TOTAL VOCS
- ✣ 0.010–0.099 PPM TOTAL VOCS
- ⊙ < 0.010 PPM TOTAL VOCS
- ····· ST···· STORM SEWER
- ——F—— FIRE LINE

NOTE:

1. SAMPLE LOCATIONS ARE APPROXIMATE.
2. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

XEROX CORPORATION
BUILDING 200 INVESTIGATION
WEBSTER, NEW YORK

SWMU 66
SOIL-VAPOR SAMPLING LOCATION PLAN

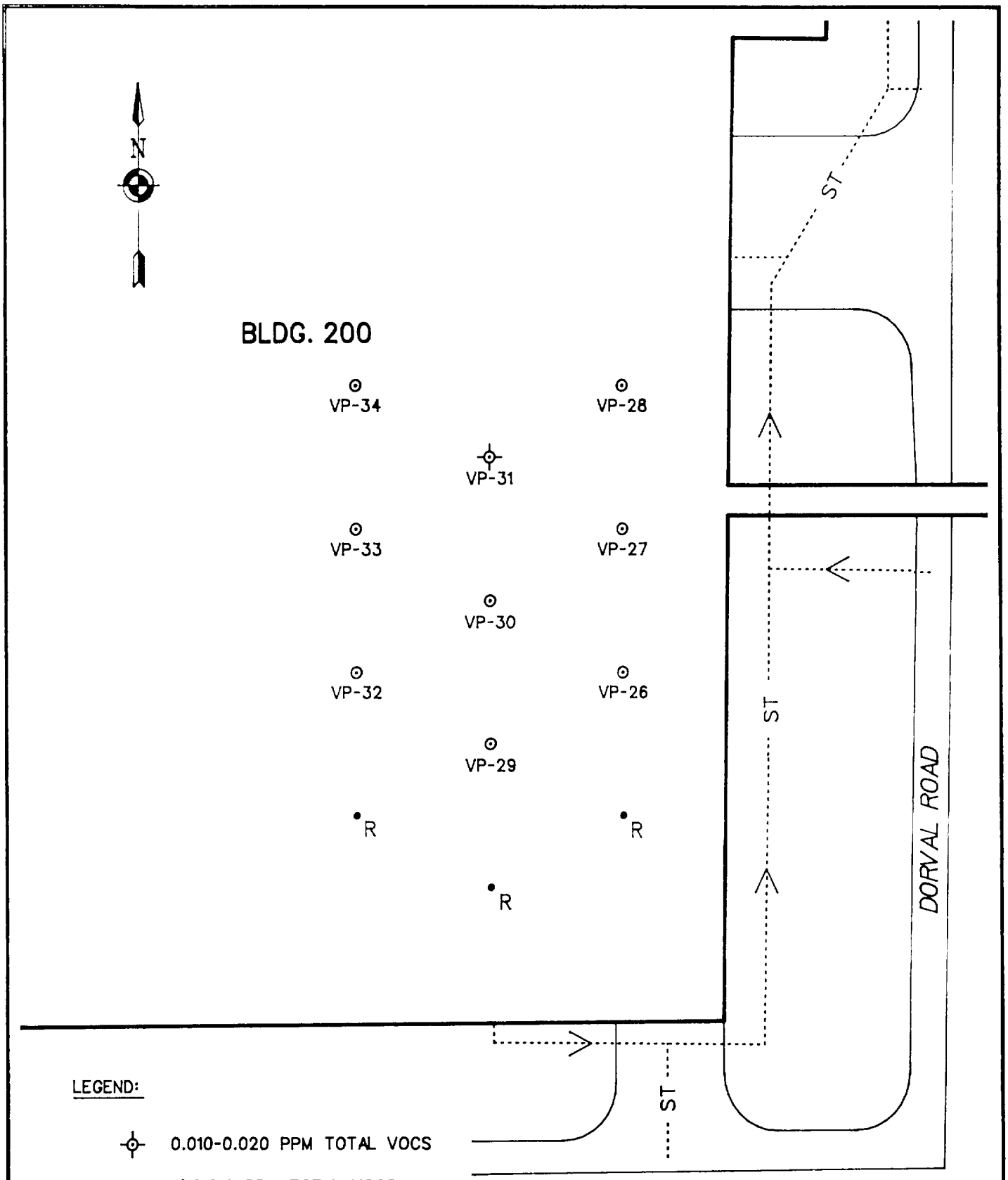
SCALE: 1" = 50'

NOVEMBER 1993

FILE No. 70092-44

FILENAME: SOIL.DGN

FIGURE 4



LEGEND:

- ⊕ 0.010-0.020 PPM TOTAL VOCS
- ⊙ < 0.010 PPM TOTAL VOCS
- R • REFUSAL-NO SAMPLING OBTAINED
- ------ ST---- STORM SEWER

NOTE:

1. SAMPLE LOCATIONS ARE APPROXIMATE.
2. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

XEROX CORPORATION
BUILDING 200 INVESTIGATION
WEBSTER, NEW YORK

SWMU 81
SOIL VAPOR SAMPLING LOCATION PLAN

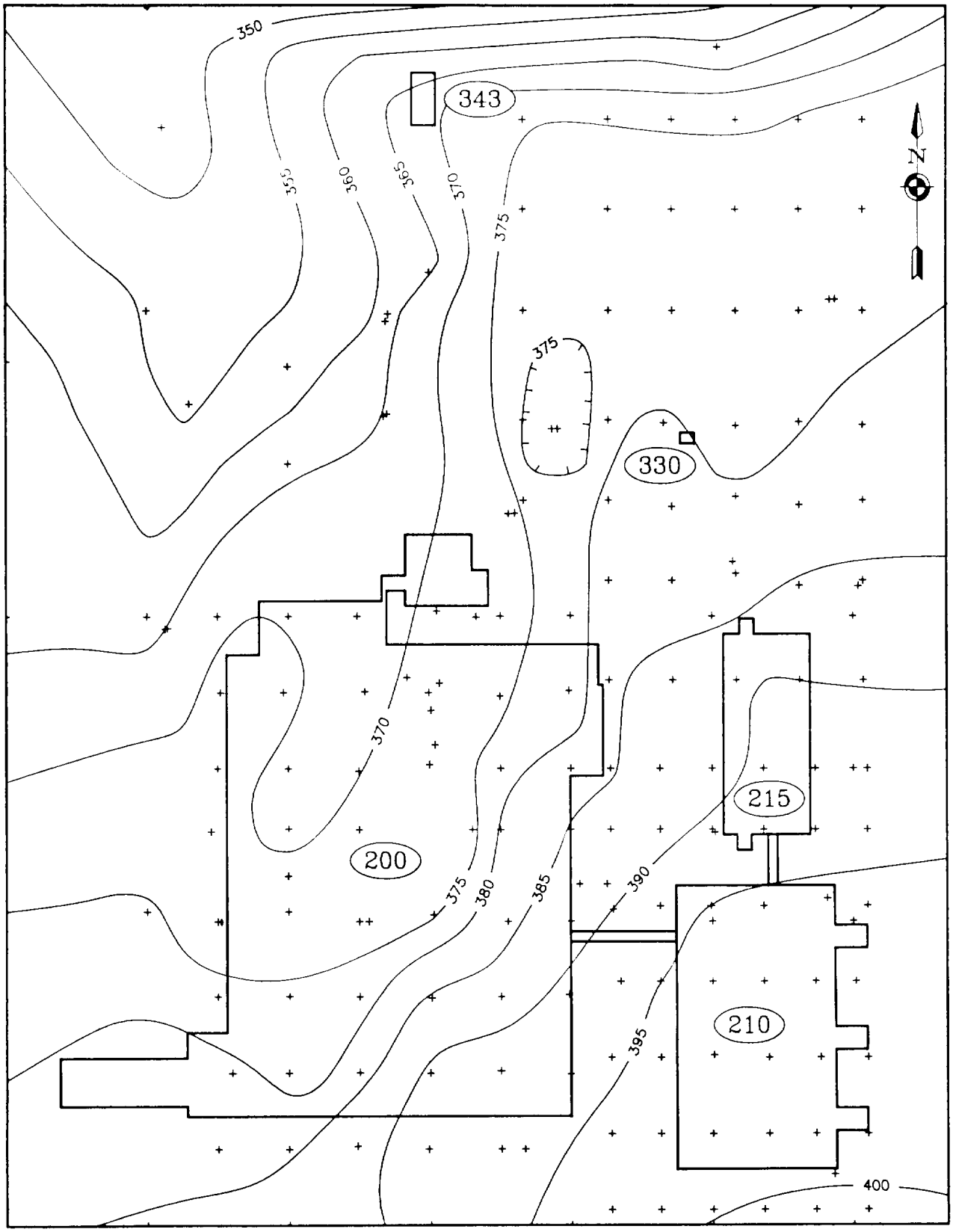
SCALE: 1" = 100'

NOVEMBER 1993

FILE No. 70092-44

FILENAME: VAPOR.DGN

FIGURE 5



LEGEND:

\+ EXPLORATION LOCATION.

NOTES:

1. CONTOURS BASED ON TOP OF ROCK/REFUSAL ELEVATION AT SUBSURFACE EXPLORATIONS. DATA FROM XEROX ENGINEERING DRAWINGS, CONSULTANT REPORTS, AND PRESENT STUDY.
2. CONTOURS GENERATED USING DESIGN PROFESSIONALS MANAGEMENT SYSTEMS' SURFACE DISPLAY SYSTEM WITH LINEAR INTERPOLATION.
3. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H&A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

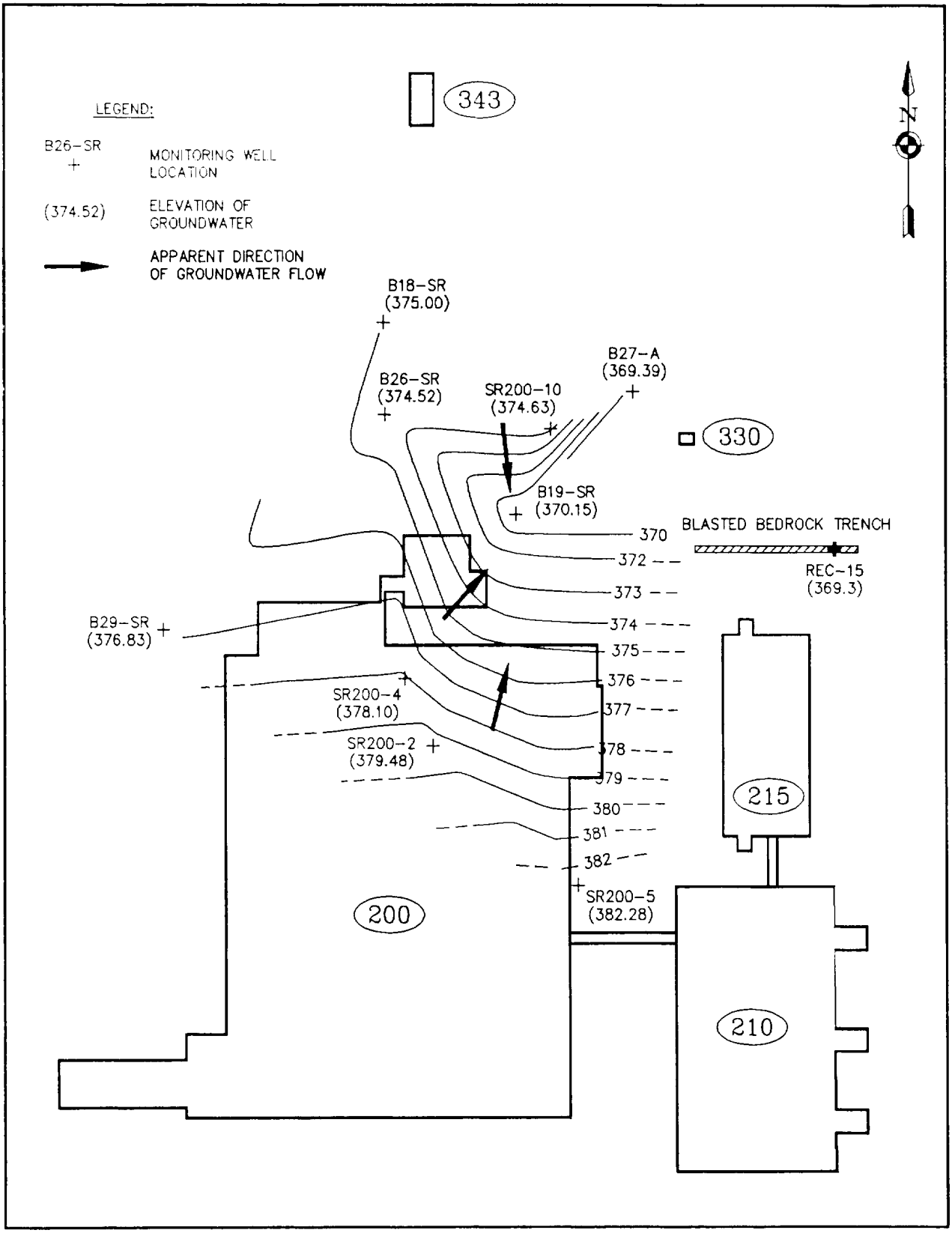
XEROX CORPORATION
BUILDING 200 INVESTIGATION

TOP OF BEDROCK CONTOUR PLAN

SCALE: 1 IN. = 300 FT. DECEMBER 1993

FILE NO. 70092-44

FIGURE 6



NOTES:

1. GROUNDWATER ELEVATIONS BASED ON WATER LEVELS MEASURED BY GENERAL TESTING PERSONNEL ON 21-22 SEPTEMBER 1993.
2. CONTOURS GENERATED USING DESIGN PROFESSIONALS MANAGEMENT SYSTEMS' SURFACE DISPLAY SYSTEM WITH LINEAR INTERPOLATION.
3. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

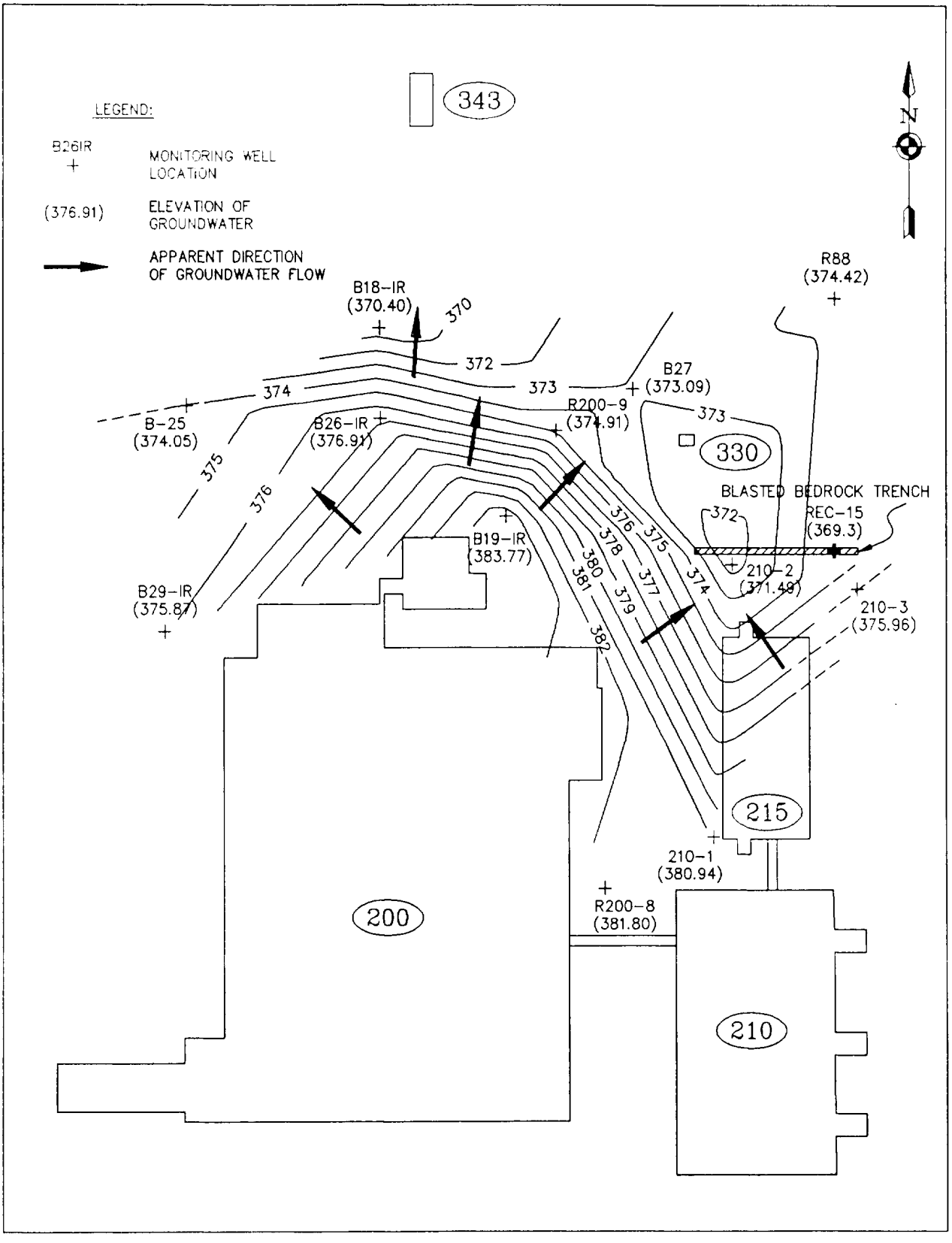
XEROX CORPORATION
BUILDING 200 INVESTIGATION

SHALLOW BEDROCK ZONE GROUNDWATER CONTOUR PLAN SEPTEMBER 1993

SCALE: 1 IN. = 300 FT. DECEMBER 1993

FILE NO. 70092-44

FIGURE 7



NOTES:

1. GROUNDWATER ELEVATIONS BASED ON WATER LEVELS MEASURED BY GENERAL TESTING PERSONNEL ON SEPTEMBER 1993.
2. CONTOURS GENERATED USING DESIGN PROFESSIONALS MANAGEMENT SYSTEMS' SURFACE DISPLAY SYSTEM WITH LINEAR INTERPOLATION.
3. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

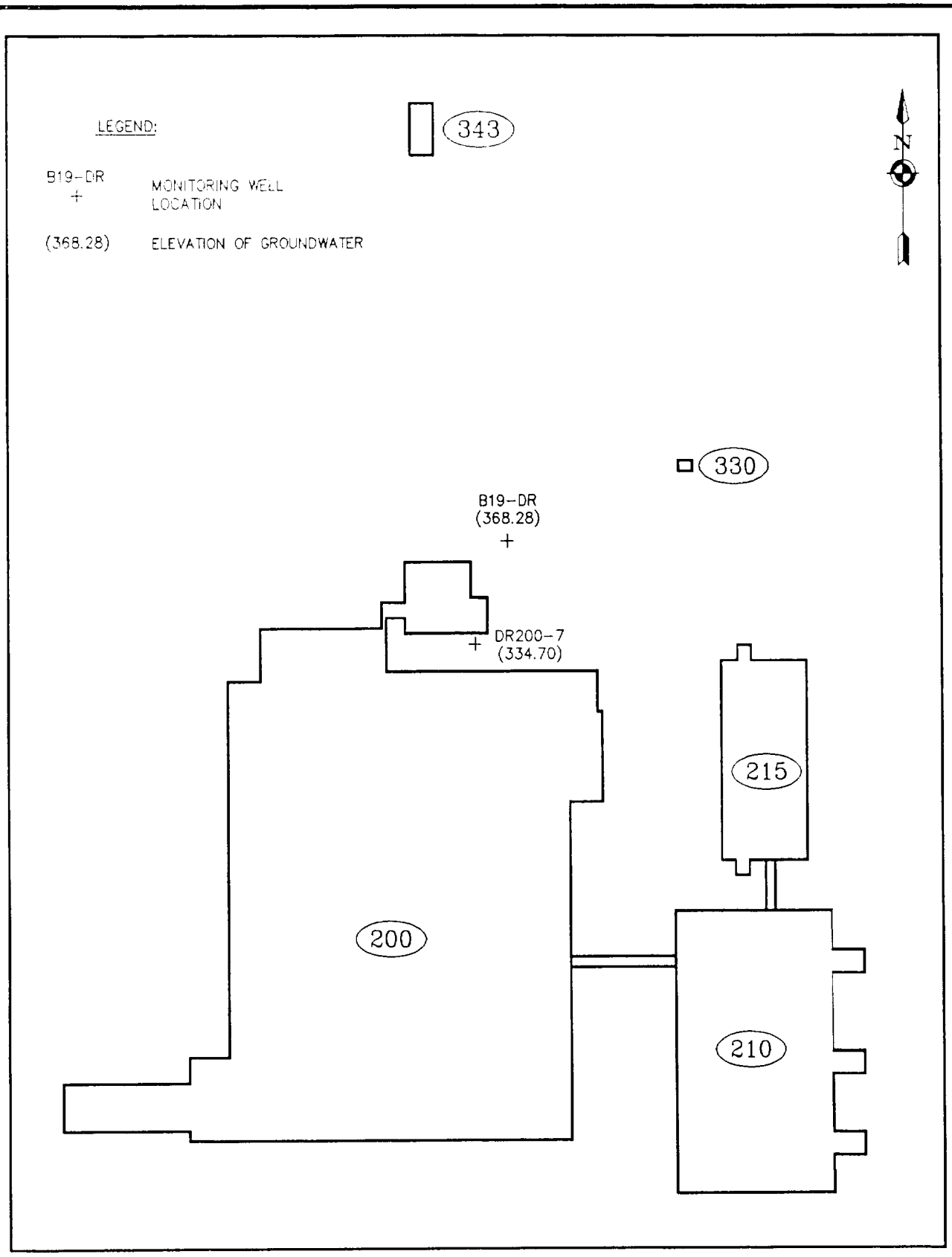
XEROX CORPORATION
BUILDING 200 INVESTIGATION

INTERMEDIATE BEDROCK ZONE GROUNDWATER CONTOUR PLAN SEPTEMBER 1993

SCALE: 1 IN. = 300 FT. DECEMBER 1993

FILE NO. 70092-44

FIGURE 8



NOTES:

1. GROUNDWATER ELEVATIONS BASED ON WATER LEVELS MEASURED BY GENERAL TESTING PERSONNEL ON 21-22 SEPTEMBER 1993.

2. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H&A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

XEROX CORPORATION
BUILDING 200 INVESTIGATION

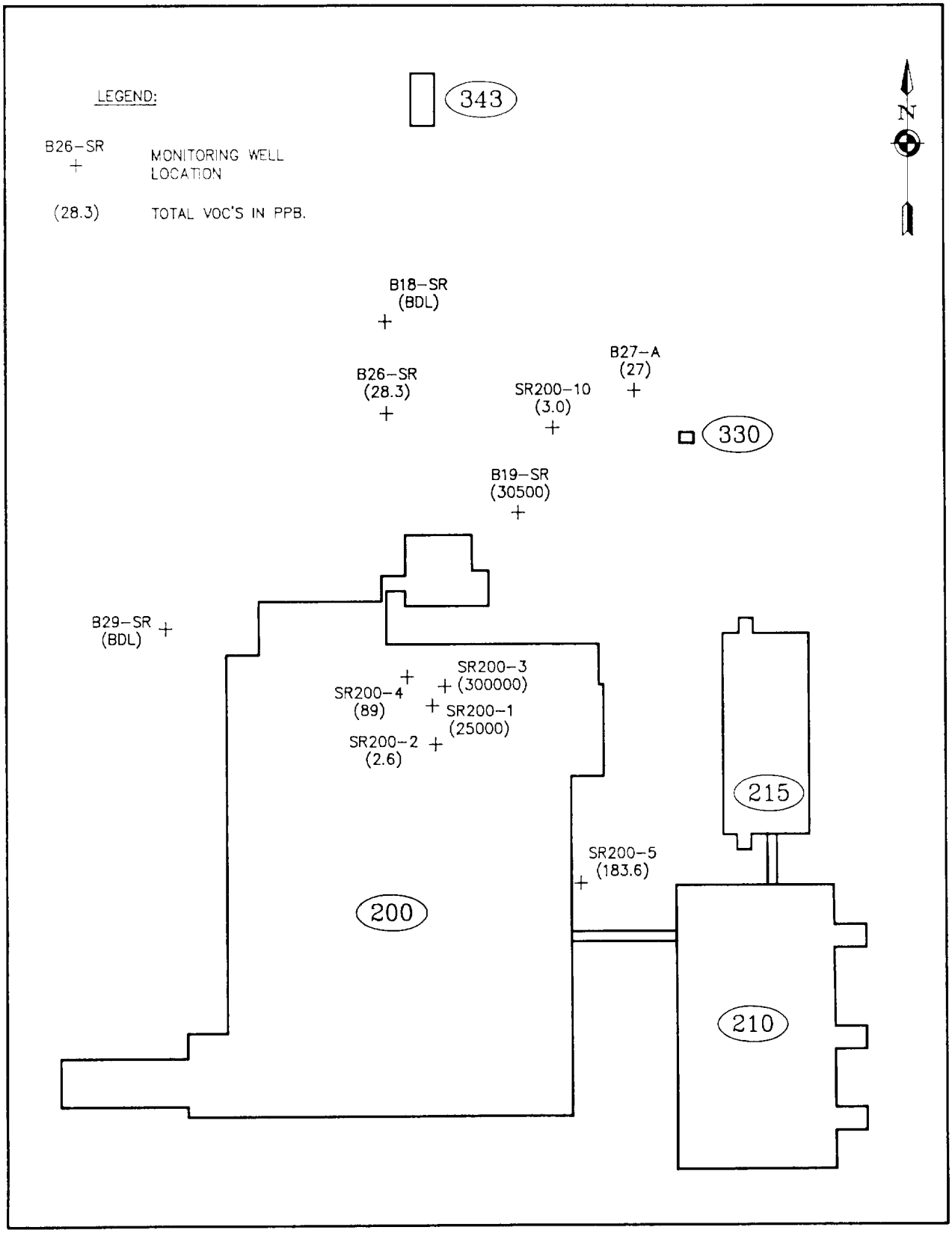
DEEP BEDROCK ZONE GROUNDWATER ELEVATIONS

SCALE: 1 IN. = 300 FT.

DECEMBER 1993

FILE NO. 70092-44

FIGURE 9



NOTES:

1. GROUNDWATER SAMPLING AND ANALYSIS PERFORMED BY GENERAL TESTING PERSONNEL ON 21-22 SEPTEMBER 1993.
2. SEE TABLE 5 AND APPENDIX D FOR ANALYTICAL DATA.
3. ABBREVIATION:
   BDL - BELOW DETECTION LIMIT.
4. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

XEROX CORPORATION
BUILDING 200 INVESTIGATION

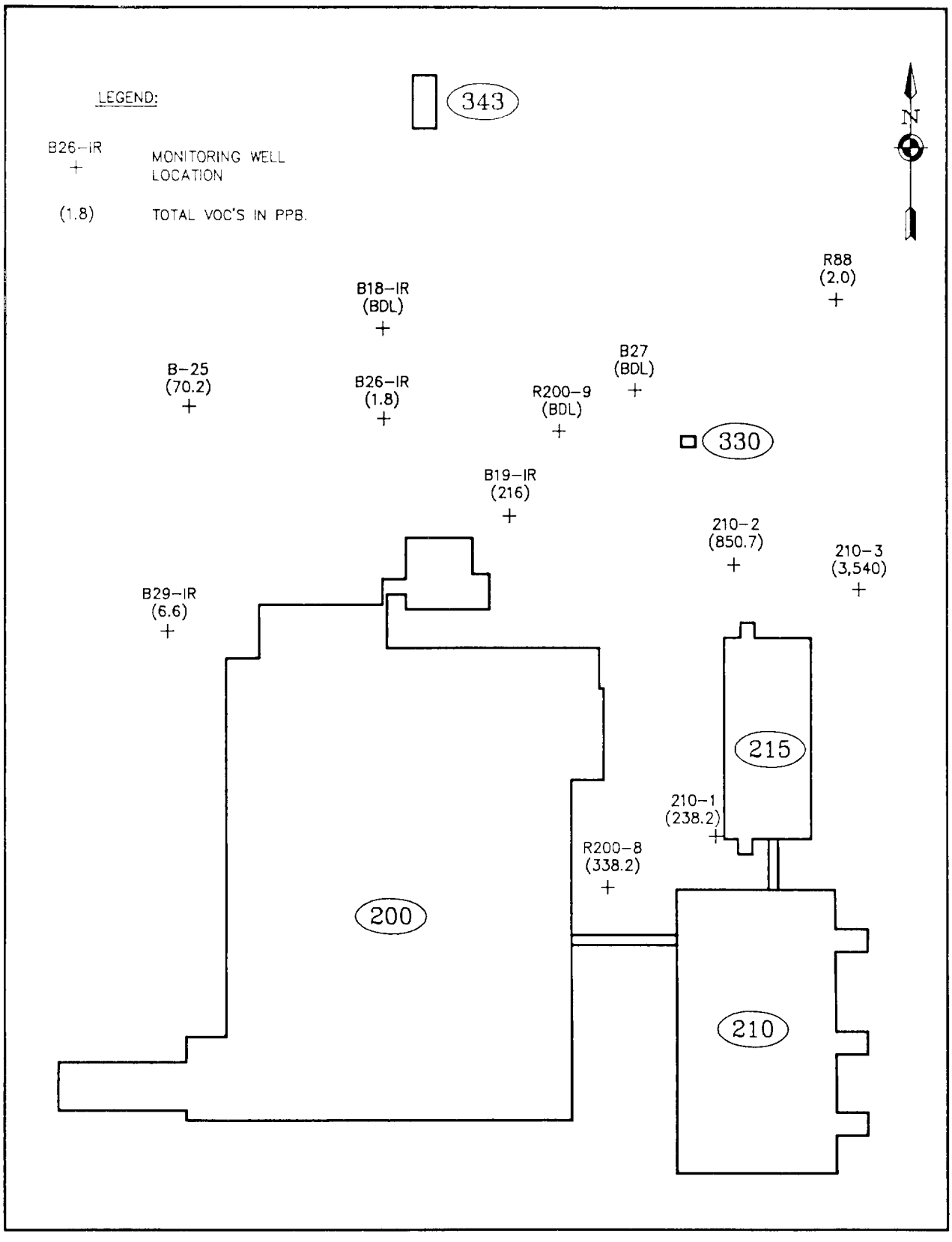
TOTAL VOC'S
SHALLOW BEDROCK ZONE
SEPTEMBER 1993

SCALE: 1 IN. = 300 FT.

DECEMBER 1993

FILE NO. 70092-44

FIGURE 10



NOTES:

1. GROUNDWATER SAMPLING AND ANALYSIS PERFORMED BY GENERAL TESTING PERSONNEL ON 21-22 SEPTEMBER 1993, EXCEPT R88, AND 210-1, 2, 3 ON 14 OCTOBER 1993.
2. SEE TABLE 5 AND APPENDIX D FOR ANALYTICAL DATA.
3. ABBREVIATION:
   BDL - BELOW DETECTION LIMIT.
4. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

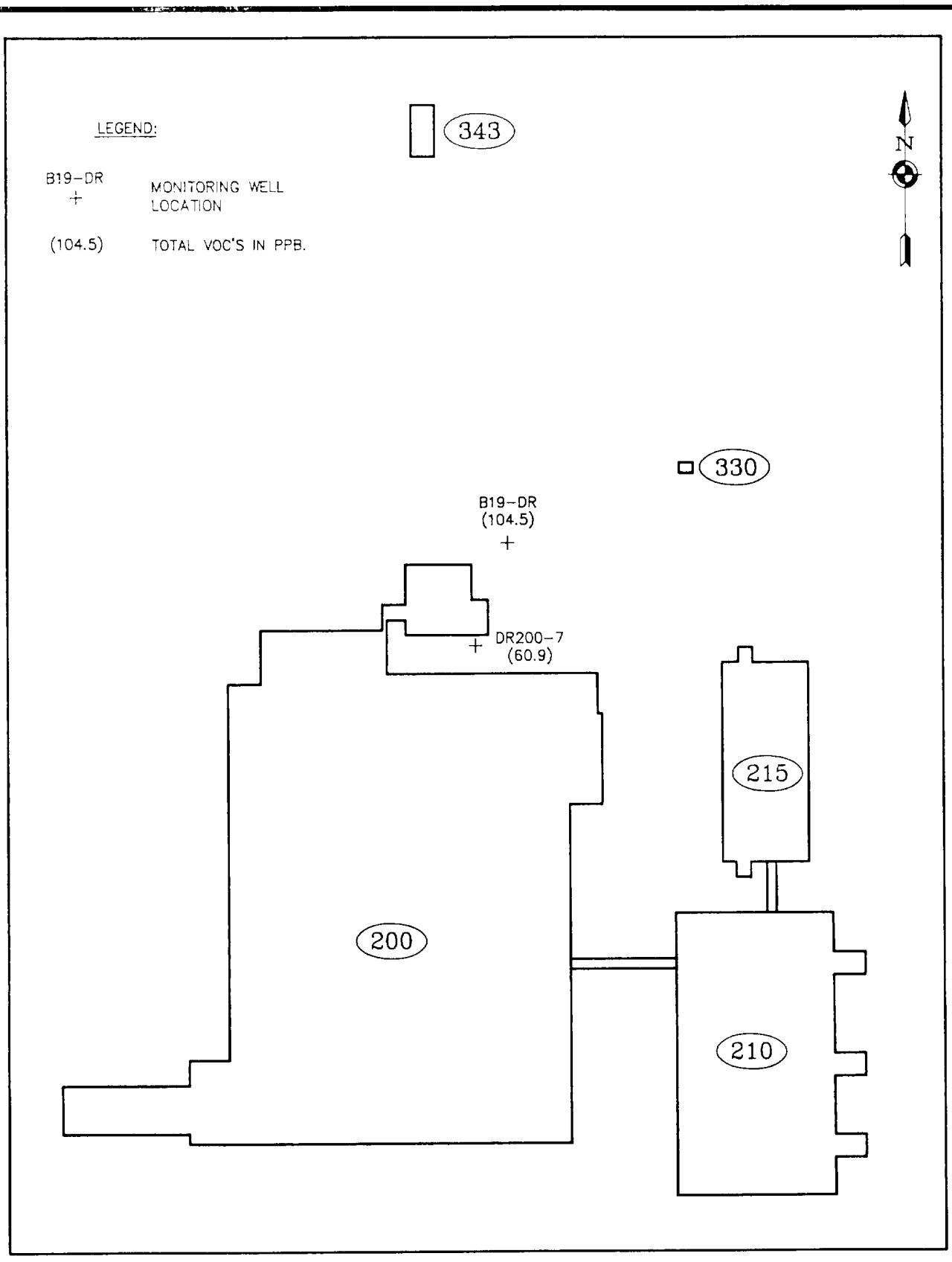
XEROX CORPORATION
BUILDING 200 INVESTIGATION

TOTAL VOC'S
INTERMEDIATE BEDROCK ZONE
SEPTEMBER-OCTOBER 1993

SCALE: 1 IN. = 300 FT. DECEMBER 1993

FILE NO. 70092-44

FIGURE 11



NOTES:

1. GROUNDWATER SAMPLING AND ANALYSIS PERFORMED BY GENERAL TESTING PERSONNEL ON 21-22 SEPTEMBER 1993.
2. SEE TABLE 5 AND APPENDIX D FOR ANALYTICAL DATA.
3. ABBREVIATION:
   BDL - BELOW DETECTION LIMIT.
4. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

XEROX CORPORATION
BUILDING 200 INVESTIGATION

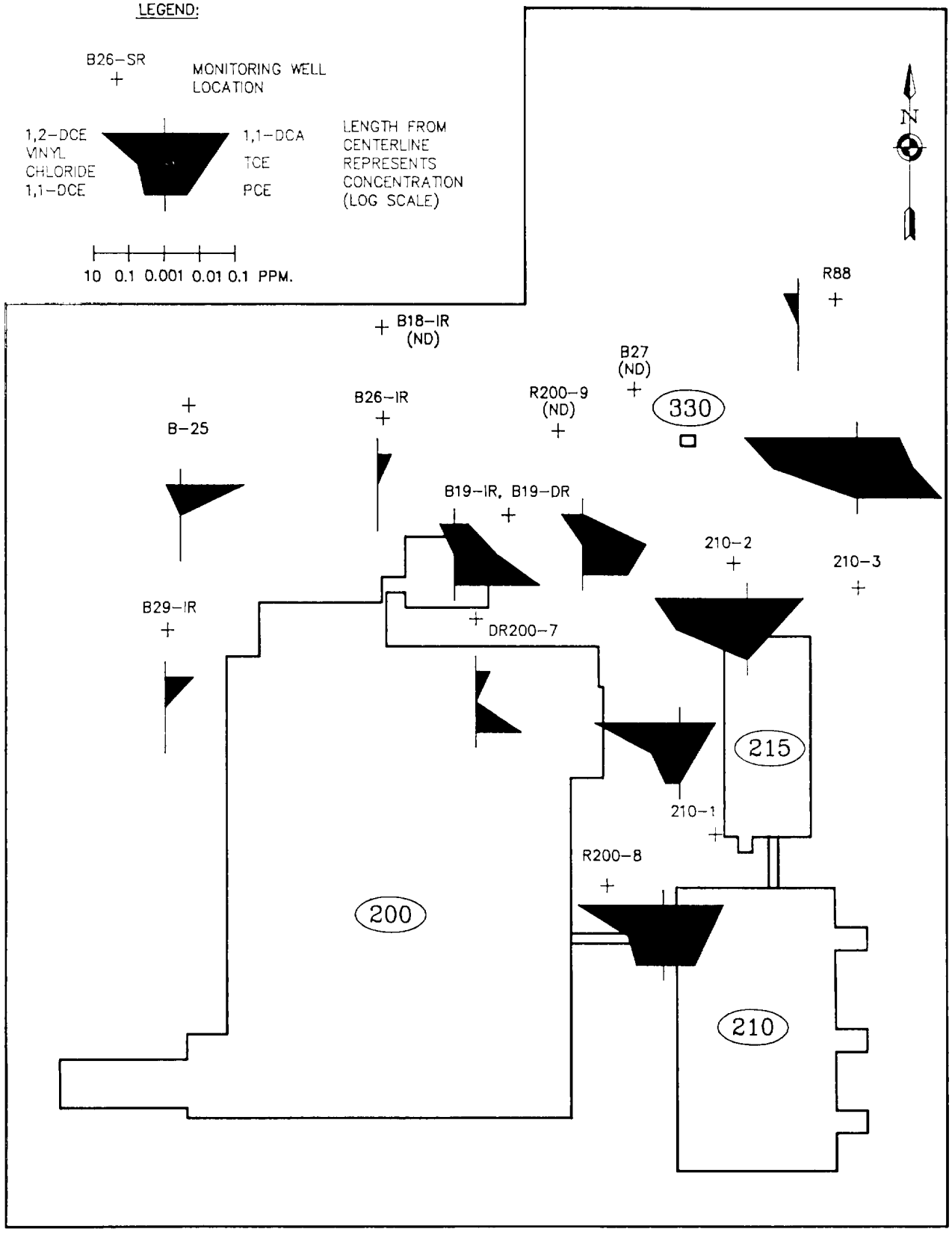
TOTAL VOC'S
DEEP BEDROCK ZONE
SEPTEMBER 1993

SCALE: 1 IN. = 300 FT.

DECEMBER 1993

FILE NO. 70092-44

FIGURE 12



NOTES:

1. GROUNDWATER SAMPLING AND ANALYSIS PERFORMED BY GENERAL TESTING PERSONNEL ON 21-22 SEPTEMBER 1993. AND 210-1, 2, 3 ON 14 OCTOBER 1993.
2. SEE TABLE 5 AND APPENDIX D FOR ANALYTICAL DATA.
3. ND INDICATES NON-DETECT.
4. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H&A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

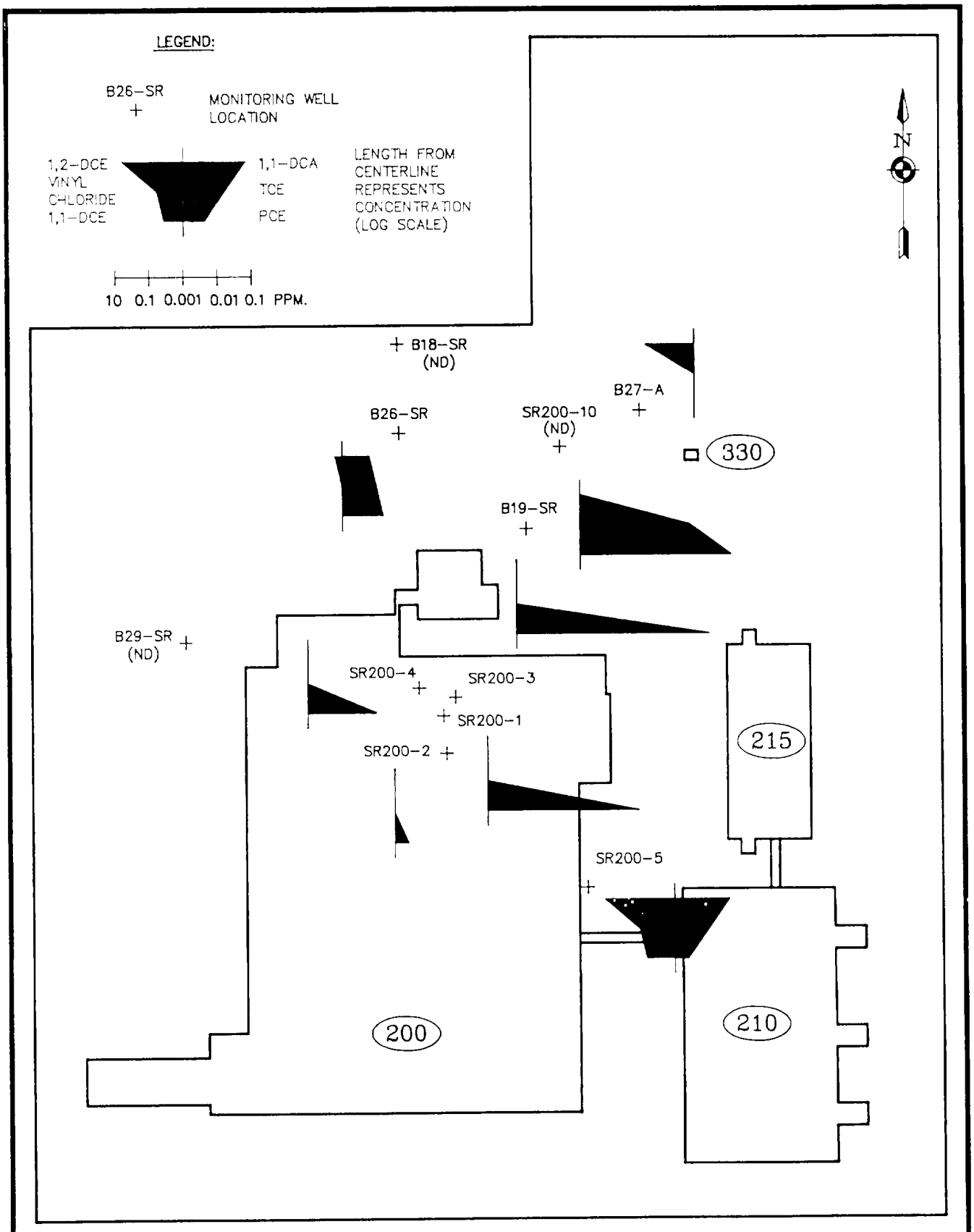
XEROX CORPORATION
BUILDING 200 INVESTIGATION

CONTAMINANT CHARACTERIZATION PLAN INTERMEDIATE AND DEEP BEDROCK ZONE SEPTEMBER-OCTOBER 1993

SCALE: 1 IN. = 300 FT. DECEMBER 1993

FILE NO. 70092-44

FIGURE 14



NOTES:

1. GROUNDWATER SAMPLING AND ANALYSIS PERFORMED BY GENERAL TESTING PERSONNEL ON 21-22 SEPTEMBER 1993.
2. SEE TABLE 5 AND APPENDIX D FOR ANALYTICAL DATA.
3. ND INDICATES NON-DETECT.
4. REFER TO TEXT FOR ADDITIONAL INFORMATION.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

XEROX CORPORATION
BUILDING 200 INVESTIGATION

CONTAMINANT CHARACTERIZATION PLAN SHALLOW BEDROCK ZONE SEPTEMBER 1993

SCALE: 1 IN. = 300 FT. DECEMBER 1993

FILE NO. 70092-44

FIGURE 13

APPENDIX A

Test Boring Reports

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	TEST BORING REPORT	BORING NO. DR200-7

PROJECT: Xerox Building 200 RFI
CLIENT: Xerox Corporation
CONTRACTOR: Penn Drilling

FILE NO. 70092-44
SHEET NO. 1 OF 3
LOCATION: 2698.4 N
2199.0 E
ELEVATION: 383.6
DATUM: NGVD
START: 14 June 1993
FINISH: 22 June 1993
DRILLER: D. Miller
H&A REP: D. Nostrant

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Steel	SS	NX
INSIDE DIAMETER (IN)	4.0	1-3/8	2-1/8
HAMMER WEIGHT (LB)	---	140	---
HAMMER FALL (IN)	---	30	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Acker AD-11 truckmount
BIT TYPE: Auger, NX Core
DRILL MUD: Water
OTHER: Advanced augers to refusal at 12.0 ft., NX core to 57.1 ft.

DEPTH (FT)	OVA READING (PPM)	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
	ND	3 6 16 17	S1 15"/24"	0.0 2.0	0.6	Medium dense brown sandy SILT, trace fine gravel, trace grass and rootlets, damp. -FILL-
	ND	6 20 20 25	S2 18"/24"	2.0 4.0	3.4	Medium dense red-brown SILT, little coarse to fine sand, trace coarse to fine gravel, damp. -FILL-
5	ND	8 24 34 20	S3 22"/24"	4.0 6.0	5.1	Very dense brown SILT, trace coarse to fine sand, occasional interbedded fine sand and silt partings, damp. -LACUSTRINE-
	ND	11 18 20 34	S4 18"/24"	6.0 8.0	8.0	Very dense brown fine SAND, little silt, damp. Same, except dense, and with trace coarse to medium sand. -LACUSTRINE-
10	ND	8 21 33 39	S5 24"/24"	8.0 10.0		Very dense red-brown SILT, some coarse to fine sand, with weathered sandstone fragments, moist to damp. -WEATHERED BEDROCK-
	ND	50/0.0	S6 0"/0"	10.0		Split spoon refusal at 10.0 ft. No recovery on sample S6. Advanced augers to 12.0 ft.
15					12.0	Auger Refusal on Hard Bedrock at 12.0 ft.
20						
25						

Notes:

1. Soil samples headspace screened under laboratory conditions using a Foxboro 128 GC OVA. Samples heated in 40 degree C water bath prior to screening. Sample S3 submitted to General Testing Corporation for 8010/8020 analysis.

2. See Core Boring Report.

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	DEPTH (FT) TO: BOTTOM OF HOLE	DEPTH (FT) TO: WATER
See Groundwater Level Monitoring Report					

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT):	12.0 ft.
ROCK CORED (LIN FT):	45.1 ft.
SAMPLES:	6S, 8R
BORING NO.	DR200-7

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. DR200-7 FILE NO. 70092-44 SHEET NO. 2 OF 3

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. / DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
							Began Coring at 12.0 ft.
	7	12.0					Hard, slightly weathered red-brown fine grained thick to thin bedded SANDSTONE with occasional gray-green banding and mottling.
	7						
	8						
15	8						
	7	R1	116/114	97/95	SL		-GRIMSBY SANDSTONE-
	8						
	6						
	6						
20	4						
	3	22.0					Moderately weathered shale interbed at 21.8 ft.
	7	22.0					Same, with occasional bioturbated zones from 22.6 to 29.7 ft.
	12	R2	36/36	100/100	SL		-GRIMSBY SANDSTONE-
	19	25.0					
25	16	25.0					Same.
	10	R3	22/21	64/61	SL		
	27	27.8					-GRIMSBY SANDSTONE-
	12	27.8					
	17	R4	36/18	78/39	SL	29.7	Hard, slightly weathered light gray-brown medium to fine grained, thin bedded SANDSTONE with frequent bioturbation and medium to very thin siltstone and shale interbeds.
30	15						-GRIMSBY SANDSTONE-
	14	31.6					
	18	31.6 R5 32.5	9/8	83/74	SL		Same, except short core run due to blockage in core barrel sampler.
	3	32.5					Same.
	3						
35	3	R6	54/54	98/98	SL		Shallow crossbedding from 35.7 to 37.1 ft.
	3	37.1					
	5	37.1					
	3						
	3						
40	2						
	3						
	3	R7	101/47	84/39	SL		Same, except brown-gray occasional gray-green banding.
	4						-GRIMSBY SANDSTONE-
	4						
45						44.9	

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. DR200-7 FILE NO. 70092-44 SHEET NO. 3 OF 3

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. — DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
	4	R7	101/47	84/39			Very hard, slightly weathered gray-brown mottled and gray-green coarse to fine grained thin bedded CONGLOMERATE with closely spaced green gypsum seams.
	5	47.1				47.1	-GRIMSBY SANDSTONE-
	5	47.1					Moderately hard, slightly weathered red-brown fine grained thick to thin bedded SANDSTONE with frequent gray-green mottling and banding.
	5						
	5						-GRIMSBY SANDSTONE-
50	5						
	5	R8	112/103	93/86	SL		Gray-green gypsum partings at 47.1 and 56.7 ft.
	6						
	6						
	5						
	5						
55	5						Moderately weathered shaley interbed from 55.3 to 56.0 ft.
	5	57.1					-GRIMSBY SANDSTONE-
							Bottom of Boring at 57.1 ft.
60							Notes: 1. Informed by driller of core-blocks at 27.8, 30.7, 31.6 and 32.5 ft. 2. Noted approximately 50 gallons water lost while drilling monitoring interval from 47.1 to 57.1 feet. 3. Foxboro OVA used to monitor organic vapors during drilling. All readings non-detect. 4. See Deep Bedrock Monitoring Well Installation Report.
65							
70							
75							
80							

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	TEST BORING REPORT	BORING NO. R200-8

PROJECT: Xerox Building 200 RFI
CLIENT: Xerox Corporation
CONTRACTOR: Penn Drilling

FILE NO. 70092-44
SHEET NO. 1 OF 2
LOCATION: 2173.2 N
2477.0 E
ELEVATION: 392.8
DATUM: NGVD
START: 4 June 1993
FINISH: 8 June 1993
DRILLER: D. Miller
H&A REP: S. Phillips/
D. Nostrant

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Steel	---	NX
INSIDE DIAMETER (IN)	8	---	2-1/8
HAMMER WEIGHT (LB)	---	---	---
HAMMER FALL (IN)	---	---	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Acker AD.11 truckmount
BIT TYPE: 7-1/8 in. air hammer
DRILL MUD: --- button bit
OTHER: Advance 8-1/4 in. augers to 5.3 ft. without split spoon sampling.

DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
						Advanced augers without sampling.
5						Auger refusal on apparent top of bedrock at 5.3 ft.
10						Notes: 1. See core boring report.
15						
20						
25						

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	DEPTH (FT) TO: BOTTOM OF HOLE	DEPTH (FT) TO: WATER
See Groundwater Level Monitoring Report					

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT): 6.0 ft.
ROCK CORED (LIN FT): 25.0 ft.
SAMPLES: OS, 4R
BORING NO. R200-8

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. R200-8 FILE NO. 70092-44 SHEET NO. 2 OF 2

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
5							Begin Coring at 5.3 ft.
	4	5.3					Hard, slightly weathered red-brown medium to fine grained, medium to very thin bedded SANDSTONE with occasional gray-green mottling and bandings, bioturbated.
	4						
	3	R1	55/26	77/37	MOD		Close to very close shale and clay partings from 5.5 to 10.5 ft.
	4						
10	3						-GRIMSBY SANDSTONE-
	3	11.2				10.6	
	3	11.2					Very hard to hard, slightly weathered light gray-brown medium to fine grained, medium to thin bedded SANDSTONE, bioturbated throughout.
	5	R2	47/32	117/68	SL		
	4						-GRIMSBY SANDSTONE-
	4	14.5					Moderately weathered red-brown shaley partings from 13.9 to 14.7 ft.
15		14.8					
	7						
	4						
	3	R3	51/39	77/59	SL		Moderately weathered partly open discontinuous vertical fractures from 17.2 to 18.0 ft.
	2						
	3						-GRIMSBY SANDSTONE-
20		20.3					Very close shaley partings from 20.2 to 20.3 ft.
	4					20.2	
	4	20.3					Hard, slightly weathered red-brown medium to fine grained, medium bedded SANDSTONE with occasional gray green mottling and banding.
	4						
	5						-GRIMSBY SANDSTONE-
	4						Slickensides noted at 20.2 ft.
25							
	5	R4	124/118	103/95	SL		Moderately close to close shaly partings from 20.2 to 22.2 ft.
	5						
	4						Same.
	4						
	4						-GRIMSBY SANDSTONE-
30		30.3					
	4						
	3						Bottom of Boring at 30.3 ft.
							Notes: 1. Noted core blocks at 11.2 and 14.8 ft. 2. Foxboro OVA used to monitor organic vapors during drilling. All readings non-detect. 3. Approximately 50 gallons of water lost while coring the monitoring interval from 20.3 to 30.3 ft.
35							

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	TEST BORING REPORT	BORING NO. R200-9

PROJECT: Xerox Building 200 RFI
CLIENT: Xerox Corporation
CONTRACTOR: Penn Drilling

FILE NO. 70092-44
SHEET NO. 1 OF 3
LOCATION: 3068.6 N
2373.7 E
ELEVATION: 377.2
DATUM: NGVD
START: 27 May 1993
FINISH: 2 June 1993
DRILLER: D. Miller
H&A REP: D. Nostrant

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Steel	SS	NX
INSIDE DIAMETER (IN)	4.0	1-3/8	2-1/8
HAMMER WEIGHT (LB)	---	140	---
HAMMER FALL (IN)	---	30	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Acker AD-11 truckmount
BIT TYPE: 7-1/8 in. air hammer
DRILL MUD: --- button bit
OTHER:

DEPTH (FT)	OVA READING (PPM)	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
		15 20			0.4	
	ND	14 16	S1 17"/24"	0.4 2.4	0.6	Dense medium brown fine SAND, trace silt, damp. -FILL-
	ND	19 35 39	S2 19"/18"	2.4 3.9	3.6	Very dense red-brown weathered SANDSTONE fragments, some coarse to fine sand, little silt, damp to dry. -WEATHERED BEDROCK-
	ND	100/.05				
5		100/.1	S3 1"/1"	4.4 4.5		Very dense medium brown-red mottled SILT, some highly weathered sandstone fragments, little sand, trace clay, damp. -WEATHERED BEDROCK- Same, except red-brown.
		100/.1				
	ND		S4	6.4-6.5		S4-No Recovery, split spoon refusal.
		100/.4				
	ND		S5 5"/5"	8.0 8.4		Very dense slightly weathered red SANDSTONE fragments, dry. -WEATHERED BEDROCK- Advanced augers to 9.5 ft.
10						Auger Refusal on Hard Bedrock at 9.5 ft.
15						
20						
25						

Notes:

1. Soil samples headspace screened under laboratory conditions using a Foxboro 128 GC OVA. Samples heated in 40 degree C water bath prior to screening. All readings were non-detect. Sample S2 submitted to General Testing Corporation for 8010/8020 analysis.

2. See Core Boring Report.

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	DEPTH (FT) TO: BOTTOM OF HOLE	DEPTH (FT) TO: WATER
See Groundwater Level Monitoring Report					

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT): 9.5 ft.
ROCK CORED (LIN FT): 27.3 ft.
SAMPLES: 5S, (S4-NR),4R
BORING NO. R200-9

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. R200-9 FILE NO. 70092-44 SHEET NO. 2 OF 3

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
							Began Core Boring at 9.5 ft.
10	4	9.5			SL		Hard, slighlty weathered red-brown fine grained thin bedded SANDSTONE, with occasional gray-green mottling. -GRIMSBY SANDSTONE-
	4					12.1	
	3						Hard, slightly weathered gray to red-brown, medium to fine grained thin to very thin bedded SANDSTONE with frequent bioturbation. -GRIMSBY SANDSTONE-
	3	R1	99/91	94/86	SL		
	3						
15	3						
	2						
	2	18.3			SL		
	2	18.3					Same. -GRIMSBY SANDSTONE-
20	3						
	3						
	3	R2	74/67	99/90	SL		Thin bedded red-brown shale interbeds at 19.5, 21.4 and 22.3 ft.
	4						Moderately weathered vertical fracture from 21.6 to 22.3 ft.
	4	24.5					
	3	24.5					
25	2						Close to very close horizontal joints from 26.2 to 27.8 ft.
	2						
	2						
	3						Non-distinct unconformities at 29.5 and 31.3 ft.
	5	R3	110/80	92/67	SL		
30	5						
	5						
	6						
	8	34.5			SL	34.0	
	5	34.5					Hard slightly weathered light gray and red-brown mottled very coarse to fine grained thin bedded CONGLOMERATE with occasional gypsum-filled joints. -GRIMSBY SANDSTONE-
35	4	R4	27/26	98/94	SL	36.2	
	4	36.8					Hard, slightly weathered red-brown fine-grained thin bedded SHALE with tight horizontal to undulating joints. -QUEENSTONE SHALE-
							Bottom of Boring at 36.8 ft.
40							

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. R200-9 FILE NO. 70092-44 SHEET NO. 3 OF 3

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS

Notes:

1. Installed monitoring well R200-9 in completed borehole. See Intermediate Bedrock Well Installation Report for details.
2. No apparent loss of water while drilling monitoring interval.
3. Foxboro OVA used to monitor work area for organic vapors during drilling. All readings non-detect.
4. Core run R4 advanced to locate Grimsby/Queenston lithologic contact.

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	TEST BORING REPORT	BORING NO. SR200-10

PROJECT: Xerox Building 200 RFI
CLIENT: Xerox Corporation
CONTRACTOR: Penn Drilling

FILE NO. 70092-44
SHEET NO. 1 OF 2
LOCATION: 3068.6 N
2361.5 E
ELEVATION: 377.2
DATUM: NGVD
START: 3 June 1993
FINISH: 3 June 1993
DRILLER: D. Miller
H&A REP: S. Phillips

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Augers	---	---
INSIDE DIAMETER (IN)	8-1/4	---	---
HAMMER WEIGHT (LB)	---	---	---
HAMMER FALL (IN)	---	---	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Acker AD-11 truckmount
BIT TYPE: 5-7/8 in. tricone roller
DRILL MUD: --- bit
OTHER: Advance 8-1/4 augers to 9.0 ft without sampling; advance 5-7/8 in. tricone roller bit to 14.0 ft.

DEPTH (FT)	OVA READING (PPM)	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
0	ND					
5	ND					Advanced augers to 9.0 ft. without sampling. Auger refusal at 9.0 ft. on apparent top-of-bedrock.
10						Apparent Top of Bedrock at 9.0 ft.
15						Note: 1. See Core Boring Report.
20						
25						

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	DEPTH (FT) TO: BOTTOM OF HOLE	DEPTH (FT) TO: WATER
6/3/93	13:45	1.0	After Well Was Set 1.14		

See Groundwater Level Monitoring Report

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT): 9.0 ft.
ROCK CORED (LIN FT): 5.0 ft.
SAMPLES: ---
BORING NO. SR200-10

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. SR200-10 FILE NO. 70092-44 SHEET NO. 2 OF 2

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. — DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
							Apparent Top of Bedrock at 9.0 ft.
10		9.0					Advanced 5-7/8-in. tricone roller bit to 14.0 ft. without core sampling.
		14.0					
15							Bottom of Boring at 14.0 ft.
20							Notes: 1. Installed Monitoring Well SR200-10 in completed borehole. See Shallow Bedrock Well Installation Report for details. 2. Foxboro OVA used to monitor organic vapors during drilling. All readings non-detect. 3. See R200-9 boring log for soil and bedrock descriptions.
25							
30							
35							
40							

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	TEST BORING REPORT	BORING NO. B-18SR

PROJECT: Xerox Building 200 RFI
CLIENT: Xerox Corporation
CONTRACTOR: Penn Drilling

FILE NO. 70092-44
SHEET NO. 1 OF 2
LOCATION: 3278.3 N
2007.7 E
ELEVATION: 379.2
DATUM: NGVD
START: 25 May 1993
FINISH: 27 May 1993
DRILLER: A. Revold
H&A REP: D. Nostrant

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Auger	SS	---
INSIDE DIAMETER (IN)	4-1/4	1-3/8	---
HAMMER WEIGHT (LB)	---	140	---
HAMMER FALL (IN)	---	30	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Acker AD-11 truckmount
BIT TYPE: 5-7/8, 7-7/8 in. downhole
DRILL MUD: --- air hammer
OTHER: Advance 4-1/4 and 7-7/8 in. augers to 14.5 ft. with continuous soil sampling.

DEPTH (FT)	OVA READING (PPM)	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
	ND	1 4 5 10	S1 15"/24"	0.0 2.0	1.2	Loose brown SILT, some fine sand, trace grass and rootlets, damp. -TOPSOIL-
	ND	10 23 41 54	S2 19"/24"	2.0 4.0		Very dense red-brown fine SAND, some silt, little coarse to medium sand, trace fine gravel, damp. -FILL-
						Same, except moist from 2.0 to 2.9 ft.
5	ND	17 24 24 33	S3 23"/24"	4.0 6.0		-FILL- Same, except medium brown, and with apparent cobbles. -FILL-
	ND	47 48 82/.3	S4 16"/16"	6.0 7.3	6.9	
	ND	25 29 33 44	S5 24"/24"	8.0 10.0		Very dense light brown silty fine SAND, little coarse to medium sand, trace medium to fine gravel with occasional weakly interbedded sand partings, damp. -LACUSTRINE-
10					10.0	Same, except with little medium to fine subangular gravel.
	ND	39 86 100/.4	S6 17"/17"	10.0 10.4		Very dense light brown sandy SILT, little medium to fine gravel, little clay, damp. -GLACIAL TILL-
	ND	124/.5	S7 6"/6"	12.0 12.5		Same.
	ND	100/.4	S8 5"/5"	14.0 14.4		Same.
15						Auger Refusal at 14.5 ft.
20						
25						

Notes:

1. Drove split spoon sampler through cobble in sample No. S3 at 4.6 ft.
2. Soil samples headspace screened under laboratory conditions using a Foxboro Century 128 GC OVA (N/D = Non Detect). Sample jars heated in 40 Degree C water bath prior to screening. Sample S7 and drilling water sample submitted to General Testing Corporation for 8010/8020 analysis.
3. See Core Boring Report.

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	DEPTH (FT) TO: BOTTOM OF HOLE	DEPTH (FT) TO: WATER
See Groundwater Level Monitoring Report					

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT): 14.5 ft.
ROCK CORED (LIN FT): ---
SAMPLES: 8S
BORING NO. B-18SR

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. B-18SR FILE NO. 70092-44 SHEET NO. 2 OF 2

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
							Apparent Top of Bedrock at 14.5 ft.
15		14.5					Advanced 7-7/8-in. air hammer drill bit from 14.5 to 20.0 ft. without core sampling.
		20.0					
20							Bottom of Boring at 20.0 ft.
							Notes: 1. Installed Monitoring Well B-18SR in completed borehole. See Shallow Bedrock Well Installation Report for details. 2. OVA readings non-detect in work area breathing zone. 3. See B-18 core boring report for bedrock description.
25							
30							
35							
40							
45							

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	TEST BORING REPORT	BORING NO. B-19IR

PROJECT: Xerox Building 200 RFI
CLIENT: Xerox Corporation
CONTRACTOR: Penn Drilling

FILE NO. 70092-44
SHEET NO. 1 OF 2
LOCATION: 2901.7 N
2267.9 E
ELEVATION: 379.4
DATUM: NGVD
START: 9 June 1993
FINISH: 10 June 1993
DRILLER: D. Miller
H&A REP: D. Nostrant

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Steel	SS	NX
INSIDE DIAMETER (IN)	4.0	1-3/8	2-1/8
HAMMER WEIGHT (LB)	---	140	---
HAMMER FALL (IN)	---	30	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Acker AD-11 truckmount
BIT TYPE: 7-1/8 in. air hammer
DRILL MUD: --- button bit
OTHER: Advanced augers to refusal at 5.0 ft., NX core to 30.0 ft.

DEPTH (FT)	OVA READING (PPM)	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
	ND	1 3 13 39	S1 19"/24"	0.0 2.0	0.9	Medium dense brown SILT, some fine sand, with grass and rootlets, damp. -TOPSOIL-
	ND	26 63 100/.5	S2 14"/18"	2.0 3.5		Medium dense light brown fine SAND, some coarse to medium sand, trace fine gravel, damp. Same, except very dense. -FILL- Advanced augers to 4.0 ft.
	ND	100/.4	S3	4.0 4.4	4.0 5.0	Very dense brown SILT, some coarse to fine sand, trace gravel, trace clay, damp. -GLACIAL TILL-
5						Auger Refusal on Apparent Top of Bedrock at 5.0 ft.
10						Note: 1. Split-spoon refusal on apparent cobble at 3.2 ft., obstructed split spoon sampler and auger. 2. See Core Boring Report.
15						
20						
25						

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	BOTTOM OF HOLE	WATER
See Groundwater Level Monitoring Report					

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT):	5.0 ft.
ROCK CORED (LIN FT):	25.0 ft.
SAMPLES:	3S, 4R
BORING NO.	B-19IR

H & A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	CORE BORING REPORT	BORING NO. B-191R FILE NO. 70092-44 SHEET NO. 2 OF 2

DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO. / DEPTH(FT)	RECOVERY/RQD IN.	RECOVERY/RQD %	WEATHERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
							Began Coring at 5.0 ft.
5	5	5.0			SL-MOD		Hard, moderate to slightly weathered red brown medium to fine grained medium bedded SANDSTONE, bioturbated, with occasional light gray and green-gray mottling and banding.
	4						
	4						-GRIMSBY SANDSTONE-
	4						
	4	R1	73/55	74/56	SL-MOD		Highly fractured from 6.0 to 10.8 ft. and from 11.3 to 11.7 ft.
10	3						
	4						
	3	13.2			SL-MOD		Soft, severely weathered siltstone seam from 12.4 to 12.6 ft.
	5	13.2			SL		
	6						
15	5	R2	56/54	106/96		15.1	Very hard to hard slightly weathered light gray-red, medium to fine grained, medium to very thin bedded SANDSTONE.
	5	17.6			SL		-GRIMSBY SANDSTONE-
	17	17.6					Bioturbated from 15.1 to 23.8 ft.
		R3	29/28	100/97	SL		
20		20.0					Slightly weathered vertical fractures from 20.8 to 21.7 ft., 25.0 to 26.2 ft., and 28.5 to 28.8 ft.
					SL		-GRIMSBY SANDSTONE-
		R4	88/69	73/58	SL		Highly fractured from 26.2 to 28.5 ft.
25							
							Hard slightly weathered light gray-brown mottled, fine to coarse grained, thin bedded CONGLOMERATE.
		30.0			SL		-GRIMSBY STANDSTONE-
30							Bottom of Boring at 30.0 ft.
							Notes: 1. Installed Monitoring Well B-191R at completed borehole. See Intermediate Bedrock Well Installation Report for details. 2. Foxboro OVA used to monitor for organic vapors during drilling. All readings non-detect. 3. No apparent loss of water while drilling monitoring interval. 4. Core-block at 17.6 ft.
35							

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists	TEST BORING REPORT	BORING NO. VE200-1

PROJECT: BUILDING 200 VES WELL INSTALLATIONS
CLIENT: XEROX CORPORATION
CONTRACTOR: NOTHNAGLE DRILLING INC.

FILE NO. 70092-47
SHEET NO. 1 OF 1
LOCATION: 4 ft. South of Well SR200-1

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Augers	---	---
INSIDE DIAMETER (IN)	10-1/4	---	---
HAMMER WEIGHT (LB)	---	---	---
HAMMER FALL (IN)	---	---	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Gus Peck GP-750C
BIT TYPE: Auger
DRILL MUD: None used.
OTHER: Advanced augers to 17.9 ft.

ELEVATION: 393.00
DATUM: NGVD
START: 23 July 1993
FINISH: 23 July 1993
DRILLER: K. Busch
H&A REP: S. Phillips

DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
						-OPEN TRENCH-
					2.0	
					2.6	-CONCRETE SLAB-
						Advanced augers without sampling to 17.9 ft.
5						
10						
15						
					17.9	Auger Refusal on Apparent Top of Bedrock at 17.9 ft.
20						
25						

Notes:
1. At borehole depth of approximately 5 ft. below concrete floor slab, upgraded to Level C personnel protection. Remained in Level C until screen, riser, and sandpack installed.
2. Noted dry soil conditions during auger advancement to top of bedrock.
3. Installed Vacuum Extraction Well in completed borehole. See Overburden Vacuum Extraction Well Report.

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	DEPTH (FT) TO: BOTTOM OF HOLE	DEPTH (FT) TO: WATER
Groundwater Not Encountered					

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT):	17.9
ROCK CORED (LIN FT):	---
SAMPLES:	---
BORING NO.	VE200-1

H&A OF NEW YORK, ROCHESTER, NEW YORK
Consulting Geotechnical Engineers,
Geologists and Hydrogeologists

TEST BORING REPORT

BORING NO. VE200-3

PROJECT: BUILDING 200 VES WELL INSTALLATIONS
CLIENT: XEROX CORPORATION
CONTRACTOR: NOTHNAGLE DRILLING INC.

FILE NO. 70092-47
SHEET NO. 1 OF 1
LOCATION: 4 ft. South of Well SR200-3

ITEM	CASING	DRIVE SAMPLER	CORE BARREL
TYPE	Augers	---	---
INSIDE DIAMETER (IN)	10-1/4	---	---
HAMMER WEIGHT (LB)	---	---	---
HAMMER FALL (IN)	---	---	---

DRILLING EQUIPMENT & PROCEDURES

RIG TYPE: Gus Peck GP-750C
BIT TYPE: Auger
DRILL MUD: None used.
OTHER: Advance 10-1/4 in. augers to apparent top of bedrock at 19.1 ft.

ELEVATION: 393.00
DATUM: NGVD
START: 24 July 1993
FINISH: 24 July 1993
DRILLER: S. Loranty
H&A REP: D. Nostrant

DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
						-OPEN TRENCH-
					2.0	-CONCRETE SLAB-
					3.0	Advanced augers without sampling to 19.1 ft.
5						
10						
15						
					19.1	Auger Refusal on Apparent Top of Bedrock at 19.1 ft.
20						
25						

Notes:

1. Noted driller add potable water to control dust during advancement of augers to top of bedrock.
2. Installed Vacuum Extraction Well in completed borehole. See Overburden Vacuum Extraction Well Report.

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	BOTTOM OF HOLE	WATER
No Measurements Obtained					

SAMPLE IDENTIFICATION

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon

SUMMARY

OVERBURDEN (LIN FT):	19.1
ROCK CORED (LIN FT):	---
SAMPLES:	---
BORING NO.	VE200-3

APPENDIX B

Well Installation Reports

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

DEEP BEDROCK MONITORING WELL REPORT

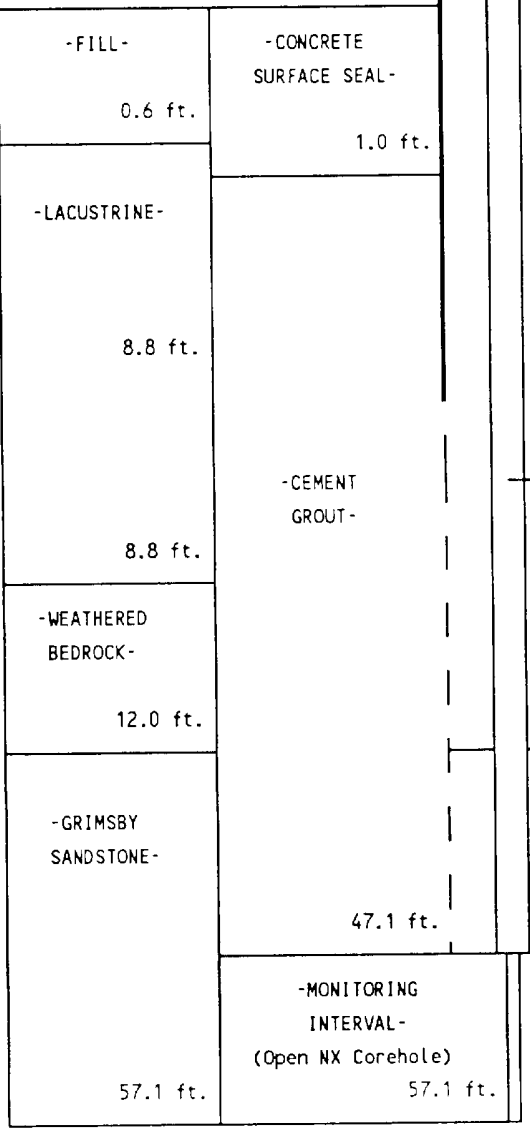
PROJECT:	BUILDING 200 RFI WORK PLAN
LOCATION:	WEBSTER, NEW YORK
CLIENT:	XEROX CORPORATION
CONTRACTOR:	PENNSYLVANIA DRILLING
DRILLER:	D. Miller RIG TYPE: Acker AK-11
INSTALLATION DATE:	14 June to 22 June 1993

FILE NO.:	70092-44
WELL NO.:	DR200-7
LOCATION:	2698.42 N
	2199.03 E
SHEET:	1 OF 1
INSPECTOR:	D. Nostrant

Survey Datum NGVD

Ground Elevation: 383.6

SUMMARIZE SOIL CONDITIONS



Stickup above ground surface of protective casing.	2.52 ft.
Stickup above ground surface of well casing.	2.37 ft.
Thickness of Surface Seal	0.2 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Concrete
Type of Protective Casing	Steel
Inside Diameter of Protective Casing	6.0 in.
Depth of Bottom of Protective Casing	2.48 ft.
Type of Well Casing	Steel
Inside Diameter of Well Casing	4.0 in.
Type of Backfill Around Casing	Cement Grout
Diameter of Borehole in Overburden	13 in. +/-
Depth of Top of Bedrock	12.0 ft.
Depth of Borehole in Bedrock	7-7/8 in.
Depth of Bottom of Casing	47.1 ft.
Diameter of Open Rock Hole	3.0 in.
Depth of Bottom of Open Rock Hole	57.1 ft.

Method and Materials used to grout casings: Haliburton Single Plug method with cement/calcium chloride grout.

Remarks:

Well No. DR200-7

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

INTERMEDIATE BEDROCK MONITORING WELL REPORT

PROJECT:	BUILDING 200 RFI WORK PLAN	FILE NO.:	70092-44
LOCATION:	WEBSTER, NEW YORK	WELL NO.:	R200-8
CLIENT:	XEROX CORPORATION	LOCATION:	2173.21 N
CONTRACTOR:	PENNSYLVANIA DRILLING		2476.99 E
DRILLER:	D. Miller RIG TYPE: Acker AK-11	SHEET:	1 OF 1
INSTALLATION DATE:	4-8 June 1993	INSPECTOR:	D. Nostrant

Survey
Datum NGVD

Ground
Elevation: 392.8

SUMMARIZE SOIL CONDITIONS

-CONCRETE SURFACE SEAL- 2.3 ft.

-ADVANCED AUGERS WITHOUT SAMPLING- 5.3 ft.

-CEMENT GROUT- 19.7 ft.

-GRIMSBY SANDSTONE- 30.3 ft.

-MONITORING INTERVAL- (Open NX Corehole) 30.3 ft.

Stickup above ground surface of protective casing.	2.66 ft.
Stickup above ground surface of well casing.	2.55 ft.
Thickness of Surface Seal	2.3 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Concrete
Type of Protective Casing	Steel
Inside Diameter of Protective Casing	6.0 in.
Depth of Bottom of Protective Casing	2.25 ft.
Type of Well Casing	Steel
Inside Diameter of Well Casing	4.0 in.
Type of Backfill Around Casing	Cement Grout
Diameter of Borehole in Overburden	11 in. +/-
Depth of Top of Bedrock	5.3 ft.
Diameter of Borhole in Bedrock	7-7/8 in.
Depth of Bottom of Casing	19.7 ft.
Diameter of Open Rock Hole	3.0 in.
Depth of Bottom of Open Rock Hole	30.3 ft.

Method and Materials used to grout casings: Haliburton Single Plug method with cement/calcium chloride grout.

Remarks:

Well No. R200-8

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

INTERMEDIATE BEDROCK MONITORING WELL REPORT

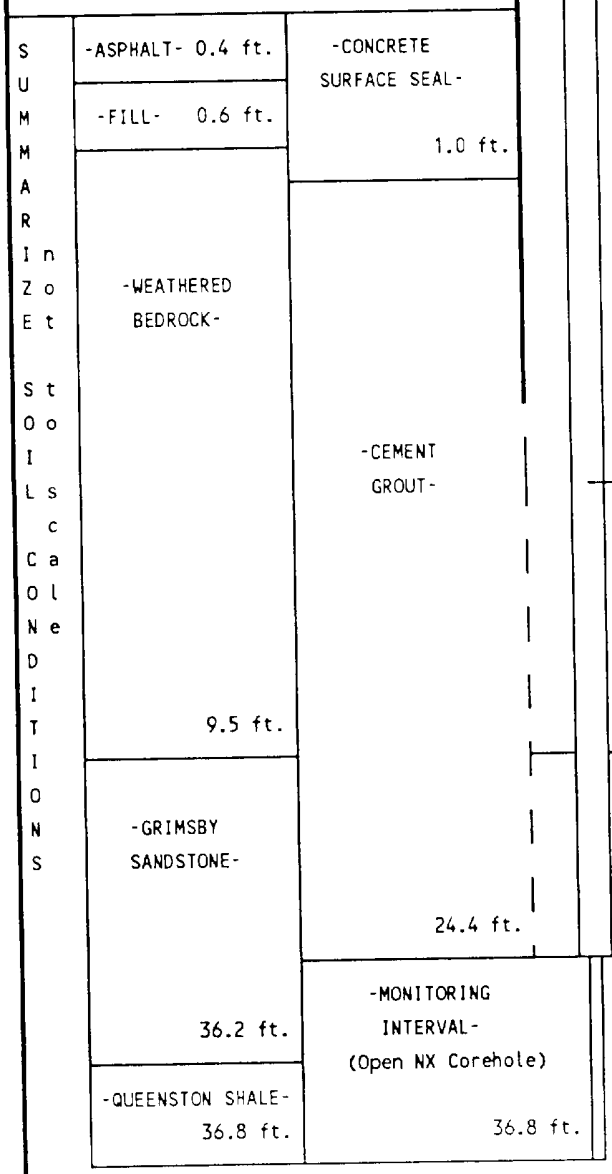
PROJECT:	BUILDING 200 RFI WORK PLAN
LOCATION:	WEBSTER, NEW YORK
CLIENT:	XEROX CORPORATION
CONTRACTOR:	PENNSYLVANIA DRILLING
DRILLER:	D. Miller RIG TYPE: Acker AD-11
INSTALLATION DATE:	27 May to 2 June 1993

FILE NO.:	70092-44
WELL NO.:	R200-9
LOCATION:	3068.59 N 2373.72 E
SHEET:	1 OF 1
INSPECTOR:	D. Nostrant

Survey Datum NGVD

Ground Elevation: 377.2

SUMMARIZED SOIL CONDITIONS



Stickup above ground surface of protective casing.	2.59 ft.
Stickup above ground surface of well casing.	2.47 ft.
Thickness of Surface Seal	1.0 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Concrete
Type of Protective Casing	Steel
Inside Diameter of Protective Casing	6.0 in.
Depth of Bottom of Protective Casing	2.3 ft.
Type of Well Casing	Steel
Inside Diameter of Well Casing	4.0 in.
Type of Backfill Around Casing	Cement Grout
Diameter of Borehole in Overburden	13 in. +/-
Depth of Top of Bedrock	9.5 ft.
Diameter of Borehole in Bedrock	7-7/8 in.
Depth of Bottom of Casing	24.4 ft.
Diameter of Open Rock Hole	3.0 in.
Depth of Bottom of Open Rock Hole	36.8 ft.

Method and Materials used to grout casings: Haliburton Single Plug method with cement grout.

Remarks:

Well No. R200-9

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

SHALLOW BEDROCK MONITORING WELL REPORT

PROJECT:	XEROX BUILDING 200 RFI WORK PLAN	FILE NO.:	70092-44
LOCATION:	WEBSTER, NEW YORK	WELL NO.:	SR200-10
CLIENT:	XEROX CORPORATION	LOCATION:	3068.62 N
CONTRACTOR:	PENNSYLVANIA DRILLING		2361.49 E
DRILLER:	D. Miller RIG TYPE: Acker AD-11	SHEET:	1 OF 1
INSTALLATION DATE:	3 June 1993	INSPECTOR:	S. Phillips

Survey Datum NGVD

Ground Elevation: 377.2

SUMMARIZED SOIL CONDITIONS

Soil Cale

-FILL/ OVERBURDEN- 3.0 ft.

-CEMENT/BENTONITE GROUT-

-BENTONITE PELLETS- 5.0 ft.

-4Q QUARTZ SAND- 9.0 ft.

-GRIMSBY SANDSTONE- 13.0 ft.

-BENTONITE PELLETS- 14.0 ft.

14.0 ft.

Stickup above ground surface of protective casing.	2.59 ~~2.46~~ ft.
Stickup above ground surface of riser pipe.	2.47 ~~2.34~~ ft.
Thickness of Surface Seal	5.0 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Cement-Bentonite Grout; Bentonite Pellets
Type of Protective Casing	Steel
Inside Diameter of Protective Casing	6.0 in.
Depth of Bottom of Protective Casing	2.54 ft.
Inside Diameter of Riser Pipe	2.0 in.
Type of Backfill Around Riser	Grout
Diameter of Borehole	11 in. +/- Overburden 5-7/8 in. Bedrock
Type of coupling (threaded, welded, etc.)	Welded
Depth of Bottom of Riser	7.1 ft.
Type of Wellscreen	304 Stainless Steel
Screen Slot Size	0.010 in.
Diameter of Wellscreen	2.0 in.
Type of Backfill Around Wellscreen	#4Q Quartz Sand
Depth of Bottom of Wellscreen	12.1 ft.
Depth of Bottom of Borehole	14.0 ft.

Remarks:

Well No. SR200-10

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

OVERBURDEN VACUUM EXTRACTION WELL REPORT

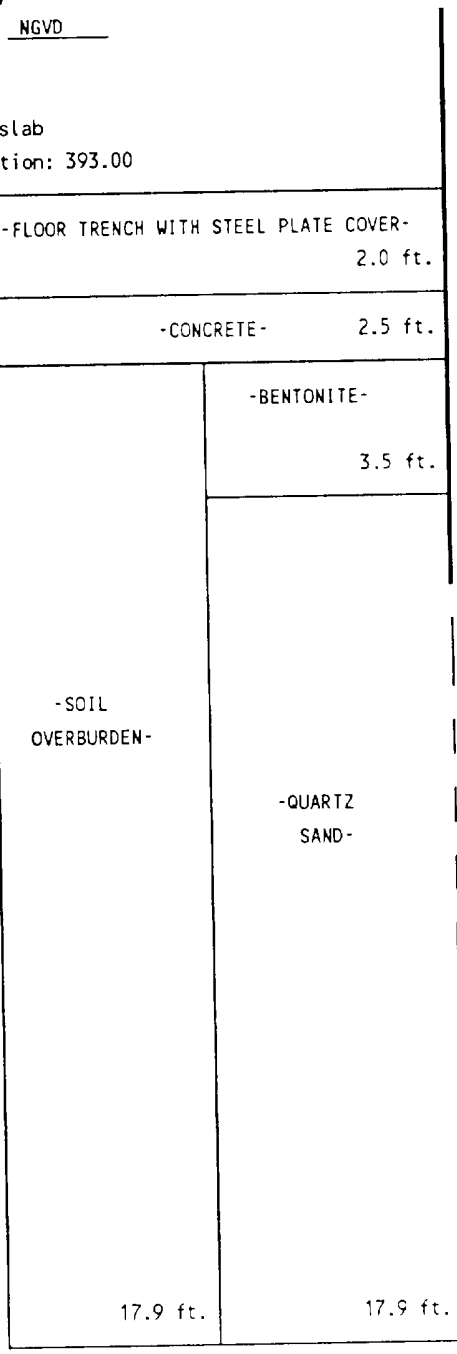
PROJECT:	XEROX BUILDING 200 VES WELL INSTALLATION
LOCATION:	XEROX BUILDING 200
CLIENT:	XEROX CORPORATION
CONTRACTOR:	NOTHNAGLE DRILLING
DRILLER:	S. Loranty RIG TYPE: Gus Peck 750-C
INSTALLATION DATE:	23 July 1993

FILE NO.:	70092-47
WELL NO.:	VE200-1
LOCATION:	4 ft. South of Well SR200-1
SHEET:	1 OF 1
INSPECTOR:	D. Nostrant

Survey Datum NGVD

Floorslab Elevation: 393.00

SUMMARIZE SOIL CONDITIONS



Depth below ground surface of riser pipe.	0.9 ft.
Thickness of Surface Seal	0.5 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Concrete
Type of Protective Casing	Not Required
Inside Diameter of Protective Casing	---
Depth of Bottom of Protective Casing	---
Inside Diameter of Riser Pipe	4 in.
Type of Backfill Around Riser	Bentonite Pellets
Diameter of Borehole	14 in.
Type of coupling (threaded, welded, etc.)	Threaded
Depth of Bottom of Riser	5.6 ft.
Type of Wellscreen	304 Stainless
Screen Slot Size	0.020 in.
Diameter of Wellscreen	4.0 in.
Type of Backfill Around Wellscreen	No. 0 Graded Quartz Sand
Depth of Bottom of Wellscreen	17.4 ft.
Depth of Bottom of Borehole	17.9 ft.

Remarks: Installed shield points in sand pack at depths of 6 feet, 10 feet and 15 feet.

Well No. VE200-1

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

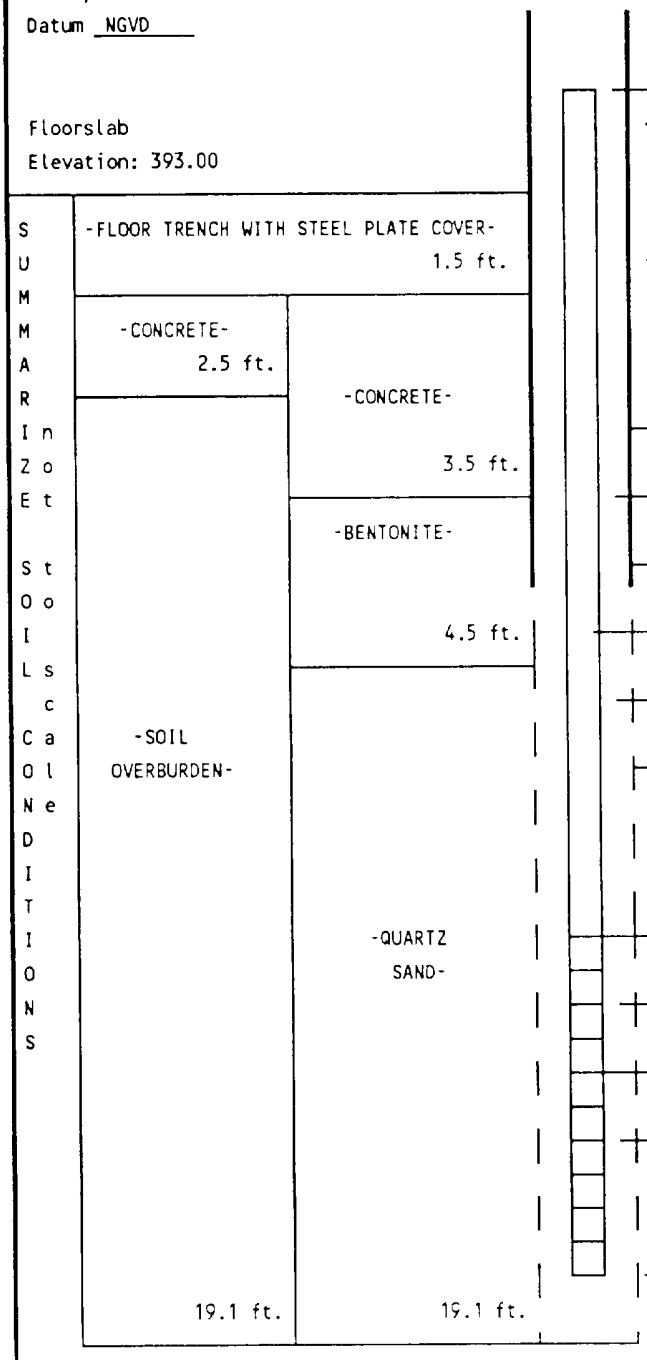
OVERBURDEN VACUUM EXTRACTION WELL REPORT

PROJECT:	XEROX BUILDING 200 VES WELL INSTALLATION	FILE NO.:	70092-47
LOCATION:	XEROX BUILDING 200	WELL NO.:	VE200-3
CLIENT:	XEROX CORPORATION	LOCATION:	See Plan
CONTRACTOR:	NOTHNAGLE DRILLING		
DRILLER:	S. Loranty RIG TYPE: Gus Peck 750-C	SHEET:	1 OF 1
INSTALLATION DATE:	24 July 1993	INSPECTOR:	D. Nostrant

Survey
Datum NGVD

Floorslab
Elevation: 393.00

SUMMARIZED SOIL CONDITIONS



Depth below ground surface of riser pipe.	0.8 ft.
Thickness of Surface Seal	2.0 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Concrete
Type of Protective Casing	Not Required
Inside Diameter of Protective Casing	---
Depth of Bottom of Protective Casing	---
Inside Diameter of Riser Pipe	4 in.
Type of Backfill Around Riser	Bentonite Pellets
Diameter of Borehole	14 in.
Type of coupling (threaded, welded, etc.)	Threaded
Depth of Bottom of Riser	6.7 ft.
Type of Wellscreen	304 Stainless
Screen Slot Size	0.020 in.
Diameter of Wellscreen	4.0 in.
Type of Backfill Around Wellscreen	No. 0 Graded Quartz Sand
Depth of Bottom of Wellscreen	18.5 ft.
Depth of Bottom of Borehole	19.1 ft.

Remarks: Installed shield points in sand pack at depths of 6 feet, 10 feet, and 13 feet. Shield point at 10 foot depth lost during well installation.

Well No. VE200-3

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

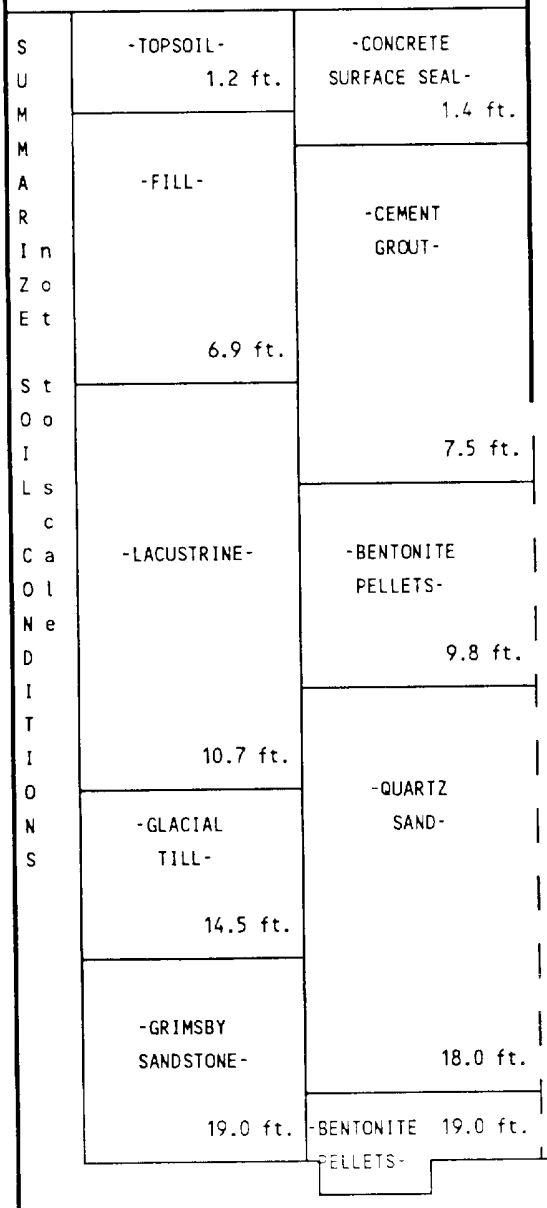
SHALLOW BEDROCK MONITORING WELL REPORT

PROJECT:	XEROX BUILDING 200 RFI WORK PLAN
LOCATION:	WEBSTER, NEW YORK
CLIENT:	XEROX CORPORATION
CONTRACTOR:	PENNSYLVANIA DRILLING
DRILLER:	A. Revold RIG TYPE: Acker AD-11
INSTALLATION DATE:	25 May - 27 May 1993

FILE NO.:	70092-44
WELL NO.:	B-18SR
LOCATION:	3278.32 N 2007.70 E
SHEET:	1 OF 1
INSPECTOR:	D. Nostrant

Survey Datum NGVD

Ground Elevation: 379.2



Stickup above ground surface of protective casing.	2.21 ft.
Stickup above ground surface of riser pipe.	1.92 ft.
Thickness of Surface Seal	1.4 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Concrete
Type of Protective Casing	Steel
Inside Diameter of Protective Casing	4.0 in.
Depth of Bottom of Protective Casing	2.82 ft.
Inside Diameter of Riser Pipe	2.0 in.
Type of Backfill Around Riser	Cement Grout
Diameter of Borehole	11 in. +/- Overburden 7-7/8 in. Bedrock
Type of coupling (threaded, welded, etc.)	Threaded
Depth of Bottom of Riser	11.8 ft.
Type of Wellscreen	304 Stainless Steel
Screen Slot Size	0.010 in.
Diameter of Wellscreen	2.0 in.
Type of Backfill Around Wellscreen	Quartz Sand
Depth of Bottom of Wellscreen	16.8 ft.
Depth of Bottom of Borehole	19.0 ft.

Remarks:

Well No. B-18SR

H&A OF NEW YORK
CONSULTING GEOTECHNICAL ENGINEERS
GEOLOGISTS AND HYDROGEOLOGISTS

INTERMEDIATE BEDROCK MONITORING WELL REPORT

PROJECT:	BUILDING 200 RFI WORK PLAN	FILE NO.:	70092-44
LOCATION:	WEBSTER, NEW YORK	WELL NO.:	B-19IR
CLIENT:	XEROX CORPORATION	LOCATION:	2901.69 N
CONTRACTOR:	PENNSYLVANIA DRILLING		2267.91 E
DRILLER:	D. Miller RIG TYPE: Acker AK-11	SHEET:	1 OF 1
INSTALLATION DATE:	9 June to 10 June 1993	INSPECTOR:	D. Nostrant

Survey
Datum NGVD

Ground
Elevation: 379.4

SUMMARIZED SOIL CONDITIONS

-FILL-
4.0 ft.

-GLACIAL TILL-
5.0 ft.

-GRIMSBY SANDSTONE-
30.0 ft.

-CONCRETE SURFACE SEAL-
1.0 ft.

-CEMENT GROUT-
20.0 ft.

-MONITORING INTERVAL-
(Open NX Corehole)
30.0 ft.

Stickup above ground surface of protective casing.	2.96 ft.
Stickup above ground surface of well casing.	2.58 ft.
Thickness of Surface Seal	1.0 ft.
Type of Surface Seal [indicated all seals showing depth, thickness and type]	Concrete
Type of Protective Casing	Steel
Inside Diameter of Protective Casing	6.0 in.
Depth of Bottom of Protective Casing	2.47 ft.
Type of Well Casing	Steel
Inside Diameter of Well Casing	4.0 in.
Type of Backfill Around Casing	Cement Grout
Diameter of Borehole in Overburden	11 in. +/-
Depth of Top of Bedrock	5.0 ft.
Diameter of Borehole in Bedrock	7-7/8 in.
Depth of Bottom of Casing	20.0 ft.
Diameter of Open Rock Hole	3.0 in.
Depth of Bottom of Open Rock Hole	30.3 ft.

Method and Materials used to grout casings: Haliburton Single Plug method with cement/calcium chloride grout.

Remarks:

Well No. B-19IR

H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS	GROUNDWATER LEVEL MONITORING REPORT

WELL NUMBER: DR200-7	TOP OF INNER CASING ELEVATION: 385.97	FILE NO. 70092-44 PAGE NO. 1 OF 1

DATE	TIME	ELAPSED TIME	DEPTH OF WATER FROM INNER CASING	ELEVATION OF WATER	REMARKS	READ BY
6/24/93	10:00	2 Days	11.41	374.56	Depth immediately prior to development	DN
6/24/93	11:15	2 Days	58.70	327.27	Depth immediately following development	DN
6/28/93	14:20	6 Days	57.97	328.00		DN
6/29/93	12:30	7 Days	58.19	327.78		DN
7/13/93	13:54	21 Days	56.65	329.32		RF
9/22/93	10:20	90 Days	51.27	334.70	Groundwater sample collected for analysis.	GTC
11/12/93	---	140 Days	56.28	329.69		MGB
12/21/93	10:40	179 Days	54.32	331.65	Groundwater sample collected for analysis.	GTC

H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS	GROUNDWATER LEVEL MONITORING REPORT

WELL NUMBER: R200-8	TOP OF INNER CASING ELEVATION: 395.35	FILE NO. 70092-44 PAGE NO. 1 OF 1

DATE	TIME	ELAPSED TIME	DEPTH OF WATER FROM INNER CASING	ELEVATION OF WATER	REMARKS	READ BY
6/09/93	17:45	1 Day	13.15	382.20	Depths prior to development Depth to bottom 33.11	DN
6/11/93	09:35	3 Days	13.23	382.12	Depth prior to development Depth to bottom 33.11	DN
6/15/93	08:09	7 Days	13.32	382.03	Depth prior to development Depth to bottom 33.11	DN
6/24/93	08:15	16 Days	13.36	381.99	Depth immediately prior to development	DN
6/24/93	10:00	16 Days	20.20	375.15	Depth immediately following development	DN
6/28/93	14:50	20 Days	13.45	381.90		DN
6/29/93	13:00	21 Days	13.45	381.90		DN
6/29/93	13:37	21 Days	13:45	381.90		DN
7/13/93	13:51	35 Days	13.51	381.84		RF
9/22/93	10:50	104 Days	13.55	381.80	Groundwater sample collected for analysis	GTC
12/21/93	11:05	193 Days	13.35	382.00	Groundwater sample collected for analysis	GTC

H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS	GROUNDWATER LEVEL MONITORING REPORT

WELL NUMBER: R200-9	TOP OF INNER CASING ELEVATION: 379.67	FILE NO. 70092-44 PAGE NO. 1 OF 1

DATE	TIME	ELAPSED TIME	DEPTH OF WATER FROM INNER CASING	ELEVATION OF WATER	REMARKS	READ BY
6/08/93	16:10	6 Days	6:15	373.52	Before Development DTB-38.96	DN
6/09/93	16:10	7 Days	6.07	373.60	Before development	DN
6/11/93	10:05	9 Days	6.06	373.61	Before development	DN
6/15/93	09:36	13 Days	6.00	373.67	Before development	DN
6/24/93	13:00	22 Days	6.40	373.27	Depth immediately prior to development	DN
6/24/93	14:00	22 Days	38.78	340.89	Depth immediately following development	DN
6/28/93	15:45	26 Days	6.08	373.59		DN
6/30/93	09:10	28 Days	5.99	373.68		DN
6/30/93	16:20	28 Days	6.04	373.63		DN
7/13/93	14:26	41 Days	5.72	373.95		RF
9/22/93	9:00	109 Days	4.76	374.91	Groundwater sample collected for analysis	GTC
12/20/93	12:52	198 Days	6.06	373.61	Groundwater sample collected for analysis	GTC

H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS	GROUNDWATER LEVEL MONITORING REPORT

WELL NUMBER: SR200-10	TOP OF INNER CASING ELEVATION: 379.67	FILE NO. 70092-44 PAGE NO. 1 OF 1

DATE	TIME	ELAPSED TIME	DEPTH OF WATER FROM INNER CASING	ELEVATION OF WATER	REMARKS	READ BY
6/08/93	08:29	5 Days	4.35	375.32	Depths prior to development Depth to bottom 14.41	DN
6/09/93	---	6 Days	4.27	375.40	Depths prior to development Depth to bottom 14.41	DN
6/11/93	10:08	8 Days	4.36	375.31	Depths prior to development Depth to bottom 14.41	DN
6/15/93	09:35	12 Days	4.35	375.32	Depths prior to development Depth to bottom 14.41	DN
6/24/93	13:20	21 Days	4.50	375.17	Depth immediately prior to development	DN
6/24/93	14:50	21 Days	13.79	365.88	Depth immediately following development	DN
6/28/93	16:10	25 Days	5.56	374.11		DN
6/30/93	09:45	27 Days	5.50	374.17		DN
7/13/93	14:24	40 Days	5.06	374.61		RF
9/22/93	08:50	109 Days	5.04	374.63	Groundwater sample collected for analysis	GTC
12/20/93	12:45	197 Days	4.62	375.05	Groundwater sample collected for analysis	GTC

H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS	GROUNDWATER LEVEL MONITORING REPORT

WELL NUMBER: B-18SR	TOP OF INNER CASING ELEVATION: 381.12	FILE NO. 70092-44 PAGE NO. 1 OF 1

DATE	TIME	ELAPSED TIME	DEPTH OF WATER FROM INNER CASING	ELEVATION OF WATER	REMARKS	READ BY
5/28/93	---	1 Day	5.79	375.33	DTW-before development Depth to bottom 19.04	DN
6/02/93	---	5 Days	5.79	375.33	DTW-before development	DN
6/02/93	---	5 Days	17.38	363.74	DTW-immediately following development ~15 gallons removed	DN
6/08/93	08:05	11 Days	5.57	375.55	DTB-19.06	DN
6/09/93	16:10	12 Days	5.46	375.66		DN
6/11/93	09:55	14 Days	5.71	375.41		DN
6/15/93	09:29	18 Days	5.86	375.26		DN
6/28/93	15:20	31 Days	6.01	375.11		DN
6/29/93	14:25	32 Days	6.01	375.11		DN
6/29/93	16:30	32 Days	6.15	374.97		DN
7/13/93	14:09	46 Days	6.31	374.81		RF
9/21/93	10:45	114 Days	6.12	375.00	Groundwater sample collected for analysis	GTC
12/20/93	11:03	203 Days	6.16	374.96	Groundwater sample collected for analysis	GTC

H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS	GROUNDWATER LEVEL MONITORING REPORT

WELL NUMBER: B-19IR	TOP OF INNER CASING ELEVATION: 391.98	FILE NO. 70092-44 PAGE NO. 1 OF 1

DATE	TIME	ELAPSED TIME	DEPTH OF WATER FROM INNER CASING	ELEVATION OF WATER	REMARKS	READ BY
6/11/93	09:59	1 Day	8.33	383.65	Depths prior to development Depth to bottom 33.00	DN
6/15/93	09:32	5 Days	8.50	383.48	Depths prior to development Depth to bottom 33.00	DN
6/24/93	15:00	14 Days	8.41	383.57	Same, immediately prior to development	DN
6/24/93	16:00	14 Days	31.71	360.27	Depth immediately following development	DN
6/28/93	16:40	18 Days	8.70	383.28		RF
6/30/93	10:40	20 Days	8.56	383.42		DN
6/30/93	17:35	20 Days	8.60	383.38		DN
7/13/93	14:20	33 Days	8.41	383.57		RF
9/22/93	9:45	102 Days	8.21	383.77	Groundwater sample collected for analysis	GTC
12/20/93	13:40	190 Days	9.32	382.66	Groundwater sample collected for analysis	GTC

H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS	GROUNDWATER LEVEL MONITORING REPORT

WELL NUMBER: B-19DR	TOP OF INNER CASING ELEVATION: 381.21	FILE NO. 70092-44 PAGE NO. 1 OF 1

DATE	TIME	ELAPSED TIME	DEPTH OF WATER FROM INNER CASING	ELEVATION OF WATER	REMARKS	READ BY
12/03/91	12:43	6 yrs. 136 Days	12.32	368.89	Groundwater sample collected for analysis	GTC
6/11/92	10:15	6 yrs. 324 Days	10.32	370.89	Groundwater sample collected for analysis	GTC
9/29/92	11:25	7 yrs. 72 Days	10.00	371.21	Groundwater sample collected for analysis	GTC
12/16/92	9:45	7 yrs. 149 days	8.27	372.94	Groundwater sample collected for analysis	GTC
6/16/93	9:45	7 yrs. 334 Days	10.42	370.79		DN
9/21/93	13:05	8 yrs. 64 Days	12.93	368.28		DN
12/20/93	13:49	8 yrs. 153 Days	10.63	370.58	Groundwater sample collected for analysis	GTC

APPENDIX C

Hydraulic Conductivity Testing Results

RISING HEAD TEST SUMMARY

WELL NAME:B-18

DATE OF TEST: 30-SEP-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

Test Section Diameter (D), in ft.:	0.25
Casing Diameter (d), in ft.:	0.25
Test Length Section (L),in ft.:	12.3
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	30
t2 in min.:	90
H1:	0.90
H2:	0.85
Kh (cm/sec) =	1.8E-06
Kh (ft/min) =	3.5E-06
Kh (ft/day) =	5.0E-03

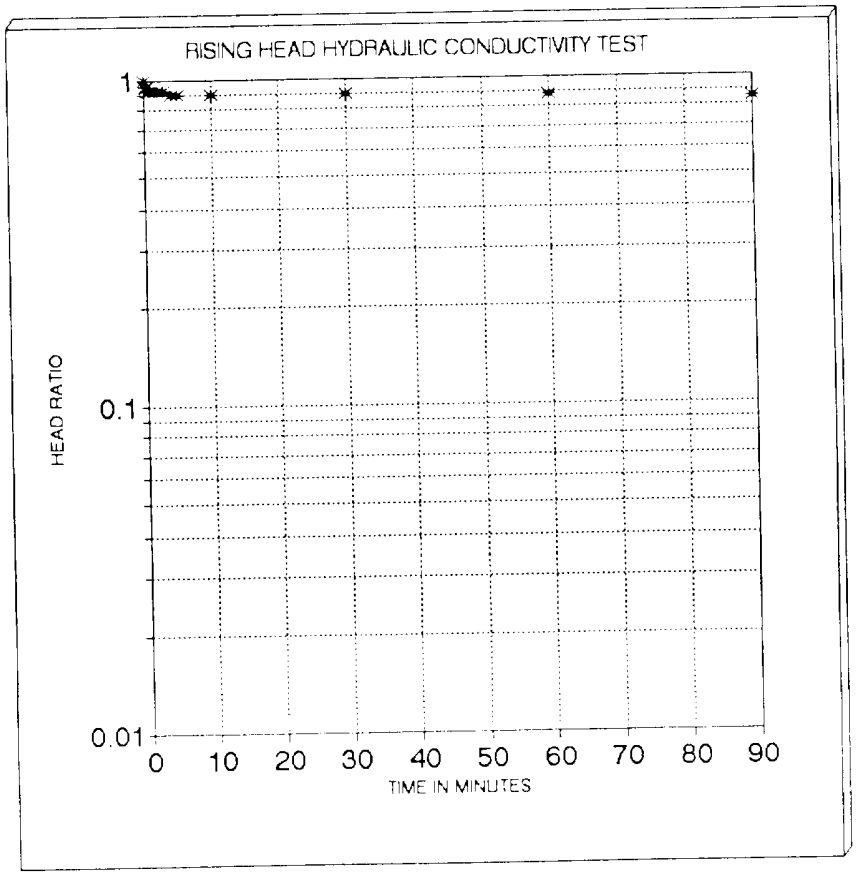
Rising Head Test Field Data

Static Water 29.20

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
29.68	0.0	1.00	0.48
29.65	0.25	0.94	0.45
29.65	0.5	0.94	0.45
29.64	0.75	0.92	0.44
29.64	1	0.92	0.44
29.64	2	0.92	0.44
29.64	3	0.92	0.44
29.63	4	0.90	0.43
29.63	5	0.90	0.43
29.63	10	0.90	0.43
29.63	30	0.90	0.43
29.62	60	0.88	0.42
29.61	90	0.85	0.41

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.



RISING HEAD TEST SUMMARY

WELL NAME:B-18A

DATE OF TEST:30-SEP-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

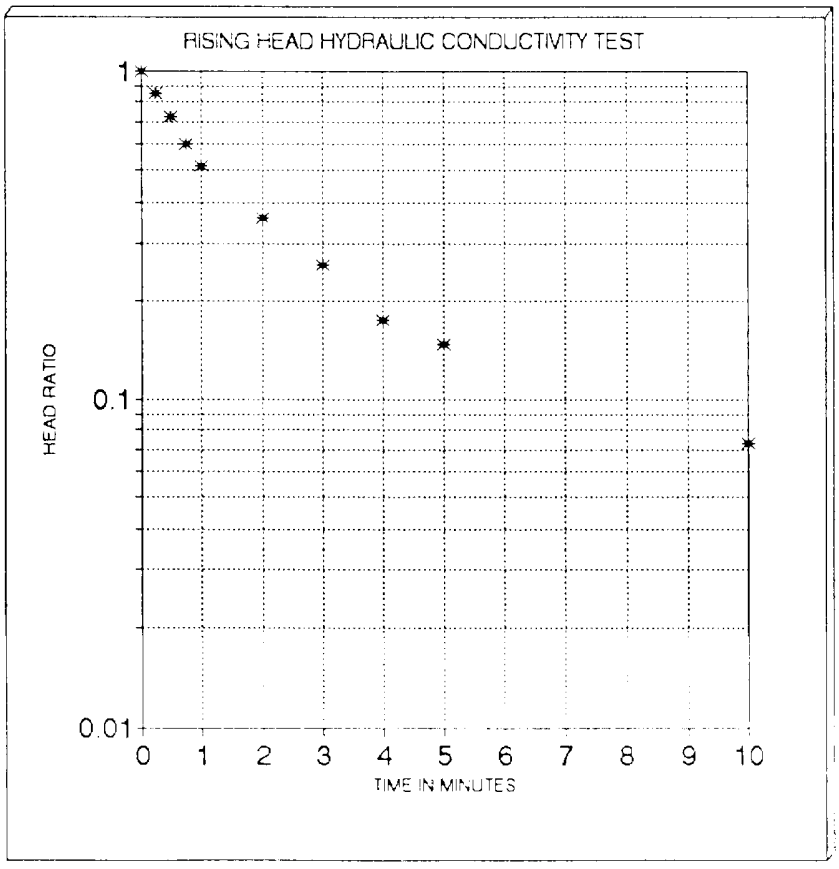
Test Section Diameter (D), in ft.:	0.60
Casing Diameter (d), in ft.:	0.10
Test Length Section (L),in ft.:	4.3
m = (Kh/Kv)**0.5:	1
t1 in min.:	2
t2 in min.:	4
H1:	0.36
H2:	0.17
Kh (cm/sec) =	1.6E-04
Kh (ft/min) =	3.1E-04
Kh (ft/day) =	4.5E-01

Rising Head Test Field Data Static Water 5.70

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
6.79	0.0	1.00	1.09
6.63	0.25	0.85	0.93
6.49	0.5	0.72	0.79
6.35	0.75	0.60	0.65
6.26	1	0.51	0.56
6.09	2	0.36	0.39
5.98	3	0.26	0.28
5.89	4	0.17	0.19
5.86	5	0.15	0.16
5.78	10	0.07	0.08

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.



File No. 70092-44

RISING HEAD TEST SUMMARY

WELL NAME: B-18SR

DATE OF TEST: 02-JUN-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

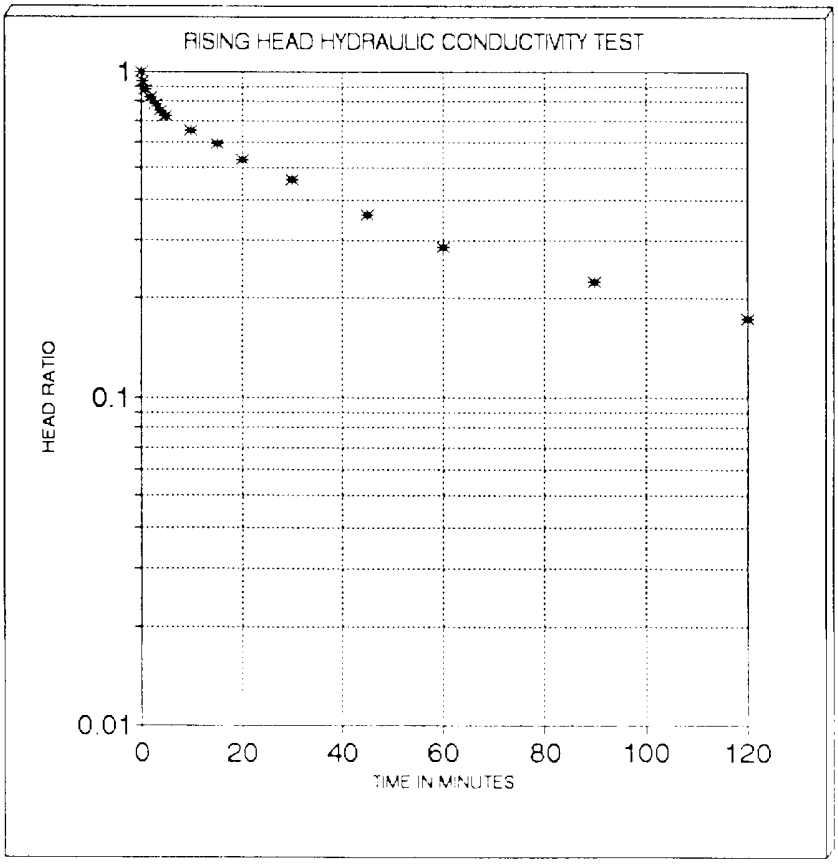
Test Section Diameter (D), in ft.:	0.67
Casing Diameter (d), in ft.:	0.17
Test Length Section (L),in ft.:	7
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	60
t2 in min.:	120
H1:	0.28
H2:	0.17
Kh (cm/sec) =	9.1E-06
Kh (ft/min) =	1.8E-05
Kh (ft/day) =	2.6E-02

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Rising Head Test Field Data Static Water 6.01

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
6.82	0.0	1.00	0.81
6.76	0.5	0.93	0.75
6.72	1	0.88	0.71
6.68	2	0.83	0.67
6.65	3	0.79	0.64
6.62	4	0.75	0.61
6.60	5	0.73	0.59
6.54	10	0.65	0.53
6.49	15	0.59	0.48
6.44	20	0.53	0.43
6.38	30	0.46	0.37
6.30	45	0.36	0.29
6.24	60	0.28	0.23
6.19	90	0.22	0.18
6.15	120	0.17	0.14



FILE NO. 70092-44

RISING HEAD TEST SUMMARY

WELL NAME: B-19IR

DATE OF TEST:24-JUN-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

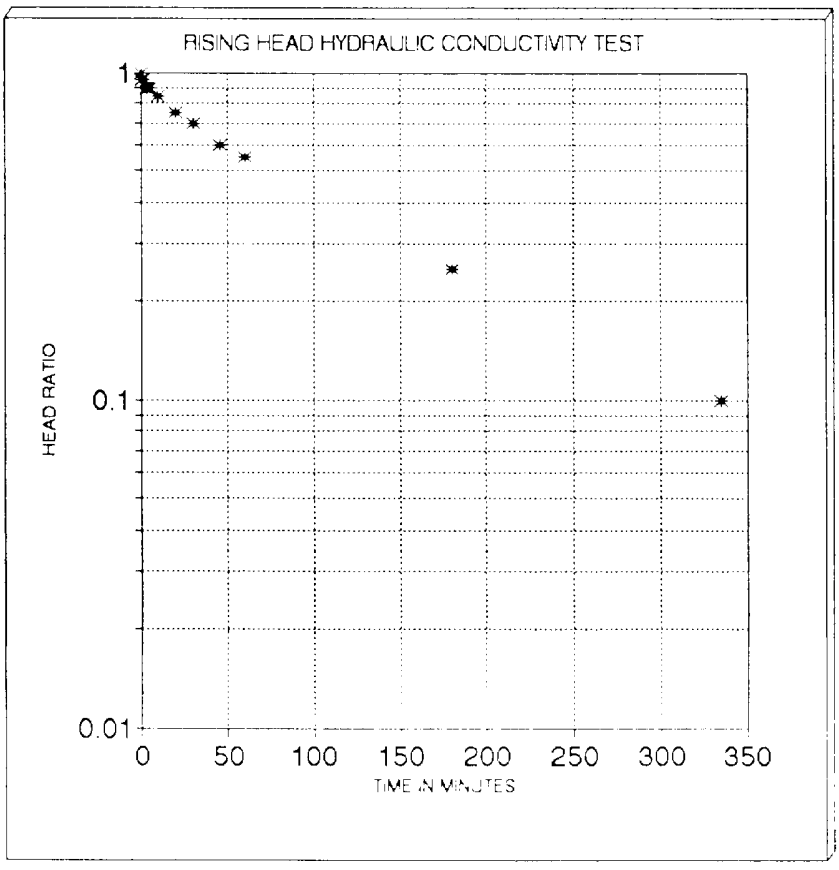
Test Section Diameter (D), in ft.:	0.25
Casing Diameter (d), in ft.:	0.33
Test Length Section (L),in ft.:	10.3
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	180
t2 in min.:	335
H1:	0.25
H2:	0.10
Kh (cm/sec) =	2.3E-05
Kh (ft/min) =	4.4E-05
Kh (ft/day) =	6.4E-02

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Rising Head Test Field Data Static Water 8.56

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
8.96	0.0	1.00	0.40
8.94	0.25	0.95	0.38
8.94	0.5	0.95	0.38
8.94	1	0.95	0.38
8.93	2	0.92	0.37
8.92	3	0.90	0.36
8.92	4	0.90	0.36
8.92	5	0.90	0.36
8.90	10	0.85	0.34
8.86	20	0.75	0.30
8.84	30	0.70	0.28
8.80	45	0.60	0.24
8.78	60	0.55	0.22
8.66	180	0.25	0.10
8.60	335	0.10	0.04



FILE NO 70092-44

RISING HEAD TEST SUMMARY

WELL NAME: B-25

DATE OF TEST: 30-JUN-93E

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

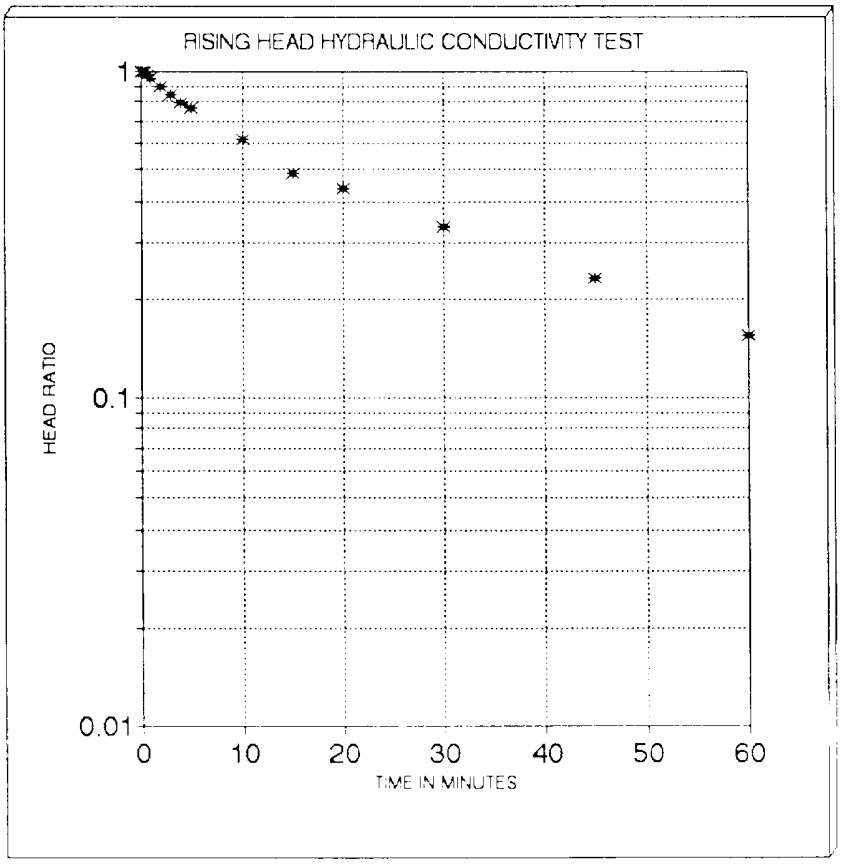
Test Section Diameter (D), in ft.:	0.25
Casing Diameter (d), in ft.:	0.33
Test Length Section (L),in ft.:	10.0
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	30
t2 in min.:	60
H1:	0.33
H2:	0.15
Kh (cm/sec) =	1.0E-04
Kh (ft/min) =	2.0E-04
Kh (ft/day) =	2.9E-01

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Rising Head Test Field Data Static Water 6.93

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
7.32	0.0	1.00	0.39
7.32	0.25	1.00	0.39
7.32	0.5	1.00	0.39
7.31	0.75	0.97	0.38
7.30	1	0.95	0.37
7.28	2	0.90	0.35
7.26	3	0.85	0.33
7.24	4	0.79	0.31
7.23	5	0.77	0.30
7.17	10	0.62	0.24
7.12	15	0.49	0.19
7.10	20	0.44	0.17
7.06	30	0.33	0.13
7.02	45	0.23	0.09
6.99	60	0.15	0.06



FILE NO. 70092-44

RISING HEAD TEST SUMMARY

WELL NAME: B-25A

DATE OF TEST: 30-JUN-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

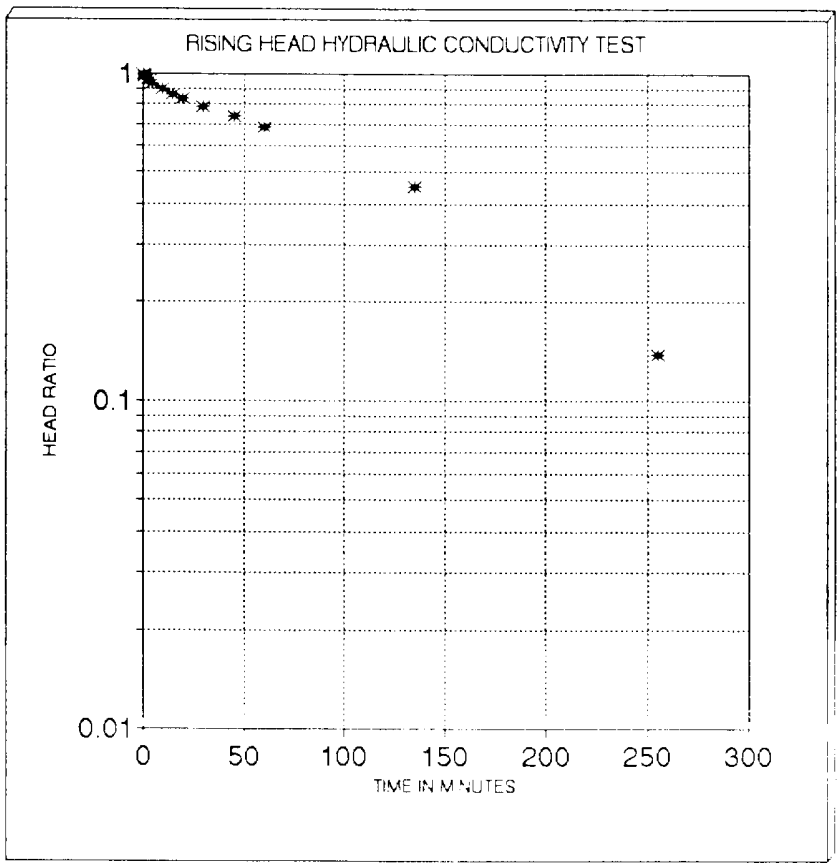
Test Section Diameter (D), in ft.:	0.59
Casing Diameter (d), in ft.:	0.17
Test Length Section (L),in ft.:	6.1
m = (Kh/Kv)**0.5:	1
t1 in min.:	135
t2 in min.:	255
H1:	0.45
H2:	0.14
Kh (cm/sec) =	8.5E-06
Kh (ft/min) =	1.7E-05
Kh (ft/day) =	2.4E-02

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Rising Head Test Field Data Static Water 5.39

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
6.34	0.0	1.00	0.95
6.33	0.25	0.99	0.94
6.32	0.5	0.98	0.93
6.31	1	0.97	0.92
6.30	2	0.96	0.91
6.29	3	0.95	0.90
6.27	5	0.93	0.88
6.24	10	0.89	0.85
6.21	15	0.86	0.82
6.18	20	0.83	0.79
6.14	30	0.79	0.75
6.09	45	0.74	0.70
6.04	60	0.68	0.65
5.82	135	0.45	0.43
5.52	255	0.14	0.13



FILE NO. 70092-44

RISING HEAD TEST SUMMARY

WELL NAME:B-27

DATE OF TEST: 01-JUL-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

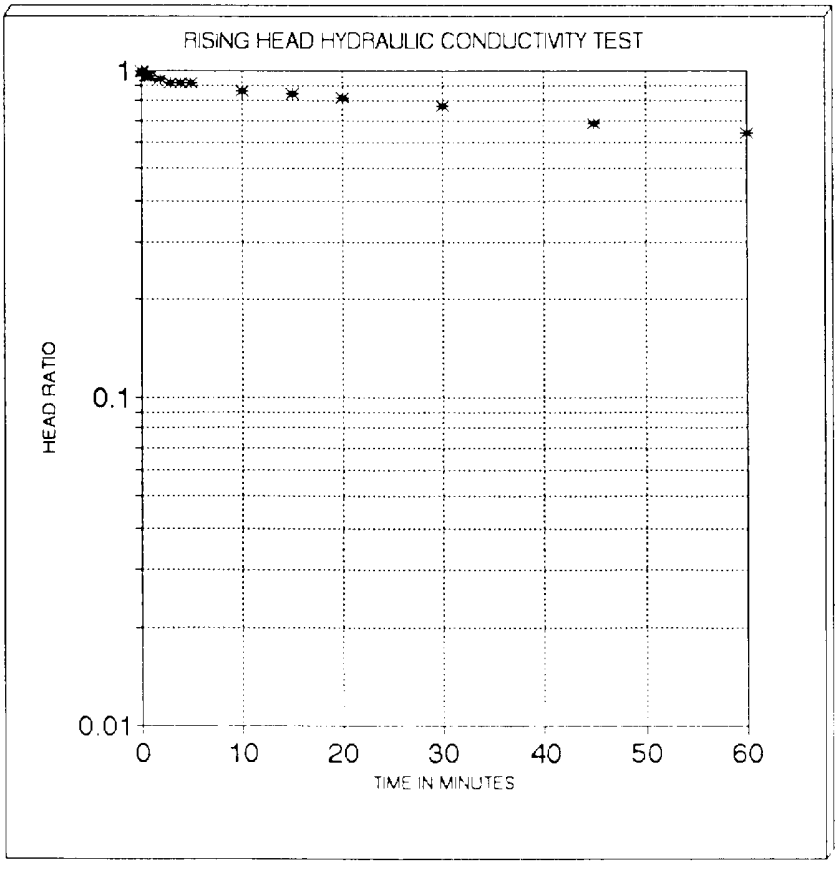
Test Section Diameter (D), in ft.:	0.33
Casing Diameter (d), in ft.:	0.25
Test Length Section (L),in ft.:	10.2
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	30
t2 in min.:	60
H1:	0.77
H2:	0.64
Kh (cm/sec) =	1.3E-05
Kh (ft/min) =	2.5E-05
Kh (ft/day) =	3.6E-02

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Rising Head Test Field Data Static Water 13.16

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
13.60	0.0	1.00	0.44
13.59	0.25	0.98	0.43
13.58	0.5	0.95	0.42
13.58	0.75	0.95	0.42
13.58	1	0.95	0.42
13.57	2	0.93	0.41
13.56	3	0.91	0.40
13.56	4	0.91	0.40
13.56	5	0.91	0.40
13.54	10	0.86	0.38
13.53	15	0.84	0.37
13.52	20	0.82	0.36
13.50	30	0.77	0.34
13.46	45	0.68	0.30
13.44	60	0.64	0.28



FILE NO. 70092-44

FALLING HEAD TEST SUMMARY

WELL NAME: B-27A

DATE OF TEST: 30-JUN-93

Falling Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

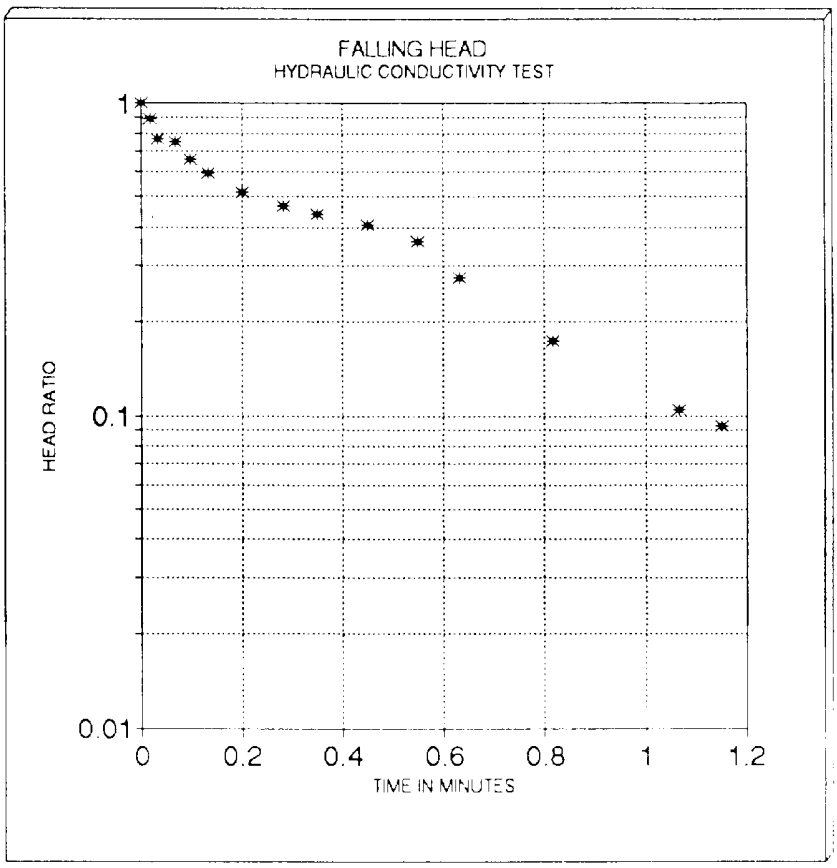
Test Section Diameter (D), in ft.:	0.59
Casing Diameter (d), in ft.:	0.17
Test Length Section (L),in ft.:	2.8
m = (Kh/Kv)**0.5:	1
t1 in min.:	0.55
t2 in min.:	1.067
H1:	0.36
H2:	0.10
Kh (cm/sec) =	3.7E-03
Kh (ft/min) =	7.2E-03
Kh (ft/day) =	1.0E+01

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Falling Head Test Field Data Static Water 17.24

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
15.51	0.0	1.00	-1.73
15.70	0.017	0.89	-1.54
15.92	0.033	0.76	-1.32
15.96	0.067	0.75	-1.29
16.10	0.1	0.66	-1.14
16.21	0.133	0.60	-1.03
16.34	0.2	0.52	-0.90
16.43	0.283	0.47	-0.81
16.48	0.35	0.44	-0.76
16.54	0.45	0.40	-0.70
16.62	0.55	0.36	-0.62
16.75	0.633	0.28	-0.48
16.94	0.817	0.17	-0.30
17.05	1.067	0.10	-0.18
17.08	1.15	0.09	-0.16



FILE NO 70092-44

RISING HEAD TEST SUMMARY

WELL NAME: DR-200-7

DATE OF TEST: 24-JUN-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

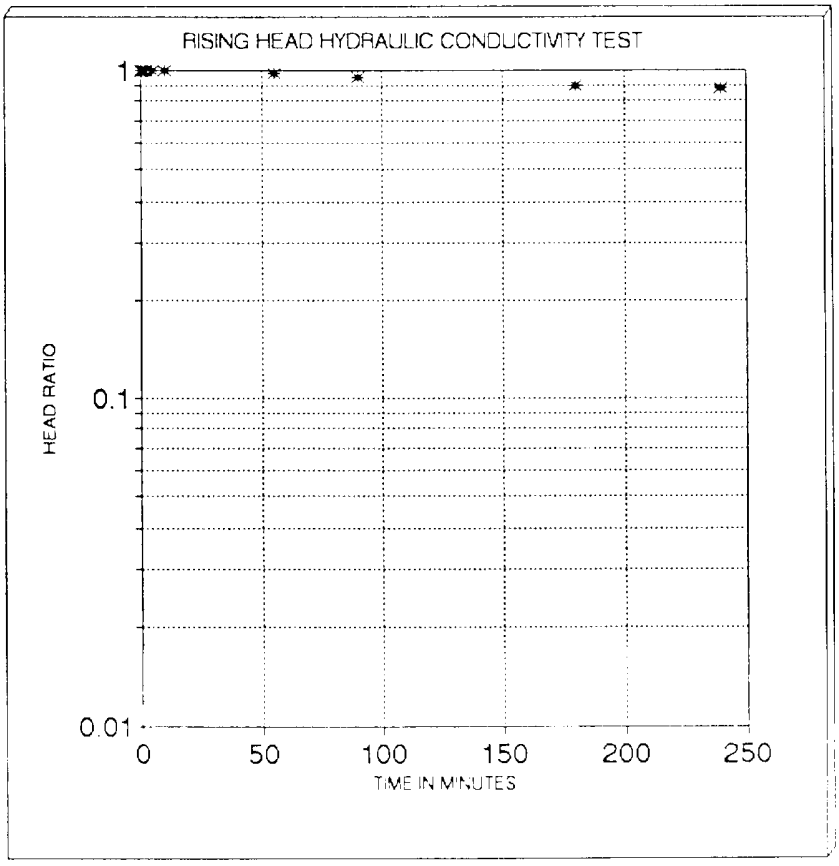
Test Section Diameter (D), in ft.:	0.25
Casing Diameter (d), in ft.:	0.25
Test Length Section (L),in ft.:	3.4
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	90
t2 in min.:	240
H1:	0.95
H2:	0.87
Kh (cm/sec) =	3.0E-06
Kh (ft/min) =	5.9E-06
Kh (ft/day) =	8.6E-03

Rising Head Test Field Data Static Water 56.06

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
56.45	0.0	1.00	0.39
56.45	1	1.00	0.39
56.45	2	1.00	0.39
56.45	5	1.00	0.39
56.45	10	1.00	0.39
56.44	55	0.97	0.38
56.43	90	0.95	0.37
56.41	180	0.90	0.35
56.40	240	0.87	0.34

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.



FILE NO 70092-44

RISING HEAD TEST SUMMARY

WELL NAME: R200-8

DATE OF TEST: 24-JUN-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

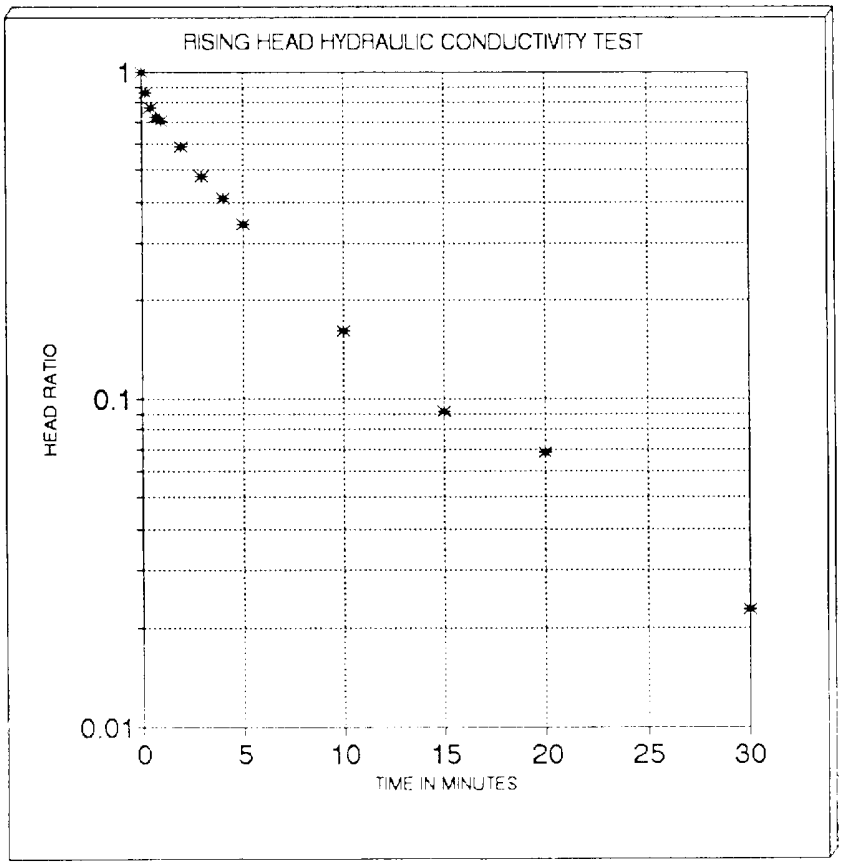
Test Section Diameter (D), in ft.:	0.25
Casing Diameter (d), in ft.:	0.33
Test Length Section (L),in ft.:	10.6
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	5
t2 in min.:	15
H1:	0.34
H2:	0.09
Kh (cm/sec) =	4.8E-04
Kh (ft/min) =	9.5E-04
Kh (ft/day) =	1.4E+00

Rising Head Test Field Data Static Water 13.45

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
13.89	0.0	1.00	0.44
13.83	0.25	0.86	0.38
13.79	0.5	0.77	0.34
13.77	0.75	0.73	0.32
13.76	1	0.70	0.31
13.71	2	0.59	0.26
13.66	3	0.48	0.21
13.63	4	0.41	0.18
13.60	5	0.34	0.15
13.52	10	0.16	0.07
13.49	15	0.09	0.04
13.48	20	0.07	0.03
13.46	30	0.02	0.01

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.



FILE NO. 70092-44

RISING HEAD TEST SUMMARY

WELL NAME: R200-9

DATE OF TEST: 24-JUN-93

Rising Head Permeability Calculation

Hvorslev Method

$Kh=[((d*d)\ln((2*m*L)/D))\ln(H1/H2)] / 8L(t2-t1)$

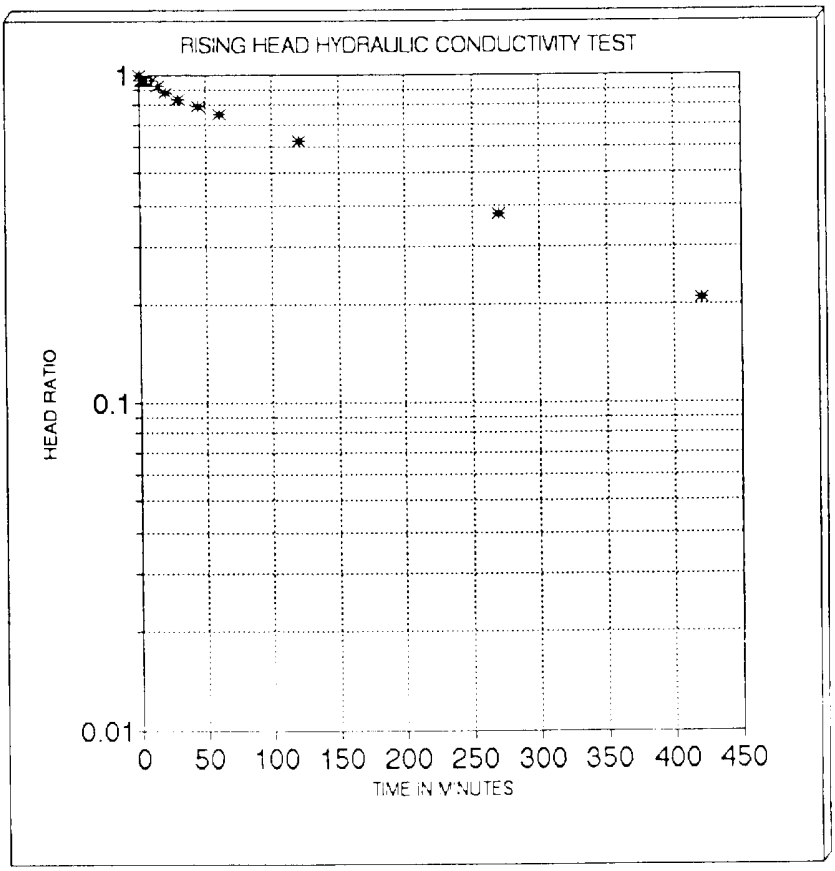
Test Section Diameter (D), in ft.:	0.25
Casing Diameter (d), in ft.:	0.33
Test Length Section (L),in ft.:	12.4
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	270
t2 in min.:	420
H1:	0.37
H2:	0.21
Kh (cm/sec) =	1.2E-05
Kh (ft/min) =	2.4E-05
Kh (ft/day) =	3.4E-02

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Rising Head Test Field Data Static Water 5.99

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
6.23	0.0	1.00	0.24
6.22	1	0.96	0.23
6.22	2	0.96	0.23
6.22	3	0.96	0.23
6.22	4	0.96	0.23
6.22	5	0.96	0.23
6.22	10	0.96	0.23
6.21	15	0.92	0.22
6.20	20	0.87	0.21
6.19	30	0.83	0.20
6.18	45	0.79	0.19
6.17	60	0.75	0.18
6.14	120	0.62	0.15
6.08	270	0.37	0.09
6.04	420	0.21	0.05



FILE NO 70092-44

RISING HEAD TEST SUMMARY

WELL NAME SR-200-10

DATE OF TEST: 24-JUN-93

Rising Head Permeability Calculation

Hvorslev Method

Kh=[((d*d)ln((2*m*L)/D))ln(H1/H2)] / 8L(t2-t1)

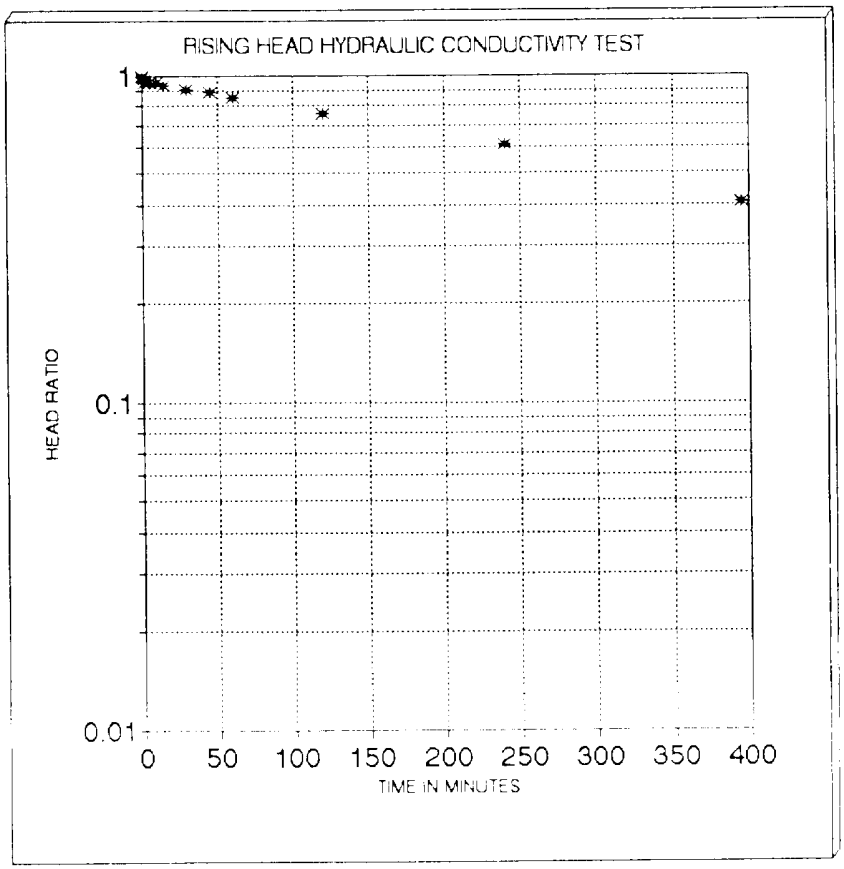
Test Section Diameter (D), in ft.:	0.5
Casing Diameter (d), in ft.:	0.17
Test Length Section (L),in ft.:	7.1
m = (Kh/Kv)**0.5:	3.16
t1 in min.:	120
t2 in min.:	395
H1:	0.76
H2:	0.40
Kh (cm/sec) =	2.7E-06
Kh (ft/min) =	5.3E-06
Kh (ft/day) =	7.7E-03

NOTES

1. m is the square root of the ratio of horizontal to vertical permeability.
2. Test Section Diameter (D) is equal to the borehole diameter.
3. Method taken from Hvorslev, 1951.

Rising Head Test Field Data Static Water 5.50

Depth Water (ft)	Elapsed Time (min)	Head Ratio	Residual Head (ft)
6.34	0.0	1.00	0.84
6.33	0.25	0.99	0.83
6.32	0.5	0.98	0.82
6.31	1	0.96	0.81
6.30	2	0.95	0.80
6.30	4	0.95	0.80
6.30	5	0.95	0.80
6.29	10	0.94	0.79
6.28	15	0.93	0.78
6.26	30	0.90	0.76
6.24	45	0.88	0.74
6.22	60	0.86	0.72
6.14	120	0.76	0.64
6.01	240	0.61	0.51
5.84	395	0.40	0.34



FILE NO. 700/92-44

APPENDIX D

Laboratory Analytical Data Reports

General Testing Corporation

A Full Service Environmental Laboratory

October 7, 1993

Mr. Dave Gianturco
Radian Corporation
155 Corporate Woods
Rochester, NY 14623

Re: Xerox Corp.-Bldg. 200 3rd Quarter Wells
R93/3637

Dear Mr. Gianturco:

Enclosed are the results of the analysis requested on the above referenced facility. Samples were taken by General Testing Corporation September 21 and 22, 1993. A total of 25 monitoring wells, 2 trip blanks, 1 equipment blank, 1 bailer blank and 2 field duplicates were collected. All data has been reviewed prior to report submission.

Please contact me if you have any questions, please contact me. Thank you for letting us provide this service.

Sincerely,
GENERAL TESTING CORPORATION

Cindy Toomey

Cindy Toomey
Customer Service Representative

Enc.

cc: Mr. Jeff Loney, H&A of New York

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019

General Testing Corporation

A Full Service Environmental Laboratory

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

CASE NARRATIVE

COMPANY: XEROX CORPORATION
BLDG 200-QUARTERLY WELLS
3rd Quarter 1993
JOB #: R93/03637

VOLATILE ORGANICS

Xerox water samples were analyzed for priority pollutant volatile organics and xylene using EPA methods 8010/8020 from SW-846.

The initial calibration criteria of 20% RSD was met for all analytes.

The continuing calibration criteria of 15% D was met for all analytes in all daily calibration check standards.

All surrogate standard recoveries were within acceptance limits for all samples.

All matrix spike, matrix spike duplicate, reference check standard recoveries, and precision data were within QC acceptance limits.

The Equipment Blank R93/3637-030 was free of contamination.

Both Trip Blanks (R93/03637-031 and 032) were free of contamination.

All Laboratory Blanks were free of contamination.

All required analysis holding times were met.

Samples R93/03637-013, 014, 019 and 020 were analyzed at dilutions to bring target analytes within the calibration range of the method.

The Chloroethylvinyl ether results have been flagged with a "J" as being estimated due to very erratic results obtained from the GC purge and trap system. None has been detected in any of the samples.

No other analytical or QC problems were encountered.

General Testing Corporation

GTC REPORT #: R93/03637

Sample Reference: Bldg. 200 Quarterly Wells

ANALYTICAL DATA

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data herein.

Units: Inorganics = mg/l
Organics = ug/l

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

(X) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 9/86.

( ) Other:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: 4 OCT., 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-001	-002	-003	-004	-005	-006	-007	-008
Location:	B29-SR	B29-A	B29-A DUPLICATE	B29-IR	B25-A	B25	B18-A	B18-SR
Date Collected:	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93
Time Collected:	09:15	09:25	09:25	10:42	10:05	10:30	10:55	10:59
Date Analyzed:	09/23/93	09/23/93	09/23/93	09/23/93	09/23/93	09/23/93	09/23/93	09/23/93
Dilution:	1	1	1	1	1	1	1	1
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	6.6	1.0 U	68	1.0 U	1.0 U
1,2-Dichloroethene(Cis&Trans)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene-Trans	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (Cis)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	13	2.0 U
Ethylbenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Xylene (o,m,p)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Volatiles	ND	ND	ND	6.6	ND	70.2	13	ND

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: OCT. 4 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-001	-002	-003	-004	-005	-006	-007	-008
Location:	B29-SR	B29-A	B29-A DUPLICATE	B29-IR	B25-A	B25	B18-A	B18-SR
Date Collected:	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93
Time Collected:	09:15	09:25	09:25	10:42	10:05	10:30	10:55	10:59
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane (Acceptance Limits: 60-138%)	72	98	89	84	88	93	94	95
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-121%)	87	86	62	91	97	75	106	116
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	71	75	60	77	87	81	97	108

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: 4 OCT., 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-009	-010	-011	-012	-013	-014	-015	-016
Location:	B18-IR	B26-SR	B26-A	B26-IR	B19-SR	B19-SR DUPLICATE	B19-DR	BAILER BLANK
Date Collected:	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93
Time Collected:	11:20	11:40	11:50	11:58	13:22	13:22	14:00	13:40
Date Analyzed:	09/23/93	09/23/93	09/23/93	09/23/93	09/25/93	09/27/93	09/23/93	09/23/93
Dilution:	1	1	1	1	250	250	1	1
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	1300 U	1300 U	5.0 U	5.0 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	1300 U	1300 U	5.0 U	5.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Methylene Chloride	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	5.0	1.0 U	1.8	250 U	250 U	1.2	1.0 U
1,2-Dichloroethene(Cis&Trans)	1.0 U	1.6	1.0 U	1.0 U	250 U	250 U	4.3	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
1,3-Dichloropropene-Trans	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Trichloroethene	1.0 U	7.7	1.0 U	1.0 U	1500	1500	79	1.0 U
1,3-Dichloropropene (Cis)	1.0 U	1.0 U	1.0 U	1.0 U	250 U	250 U	1.0 U	1.0 U
Dibromochloromethane	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	500 UJ	500 UJ	2.0 UJ	2.0 UJ
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Tetrachloroethene	1.0 U	14	1.0 U	1.0 U	29000	29000	20	1.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
1,3-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
1,2-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
1,4-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Total Xylene (o,m,p)	2.0 U	2.0 U	2.0 U	2.0 U	500 U	500 U	2.0 U	2.0 U
Total Volatiles	ND	28.3	ND	1.8	30500	30500	104.5	ND

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: OCT. 4 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-009	-010	-011	-012	-013	-014	-015	-016
Location:	B18-IR	B26-SR	B26-A	B26-IR	B19-SR	B19-SR DUPLICATE	B19-DR	BAILER BLANK
Date Collected:	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93	09/21/93
Time Collected:	11:20	11:40	11:50	11:58	13:22	13:22	14:00	13:40
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane (Acceptance Limits: 60-138%)	107	90	99	106	89	83	105	109
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-121%)	108	103	86	95	100	105	101	91
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	100	97	91	88	103	98	101	87

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: 4 OCT., 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-017	-018	-019	-020	-021	-022	-023	-024
Location:	SR-200-2	SR-200-3	SR-200-4	SR-200-1	SR-200-10	R-200-9	B19-IR	DR-200-7
Date Collected:	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93
Time Collected:	04:55	05:05	05:20	05:30	09:25	09:40	10:10	10:40
Date Analyzed:	09/23/93	09/25/93	09/25/93	09/25/93	09/23/93	09/24/93	09/24/93	09/24/93
Dilution:	1	1000	20	100	1	1	1	1
Chloromethane	5.0 U	5000 U	100 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0 U	5000 U	100 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	1.0 U	1000 U	20 U	100 U	1.1	1.0 U	1.0 U	9.1
Trichlorofluoromethane	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	2.7	2.2
1,2-Dichloroethene(Cis&Trans)	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	2.3	1.0 U
Chloroform	1.0 U	1000 U	20 U	100 U	1.9	1.0 U	1.0 U	3.5
1,2-Dichloroethane	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene-Trans	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	11	1.0 U
1,3-Dichloropropene (Cis)	1.0 U	1000 U	20 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethylvinyl Ether	2.0 UJ	2000 UJ	40 UJ	200 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Bromoform	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	2.6	300000	89	25000	1.0 U	1.0 U	200	20
Chlorobenzene	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.1
Toluene	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	24
Total Xylene (o,m,p)	2.0 U	2000 U	40 U	200 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Volatiles	2.6	300000	89	25000	3.0	ND	216.0	60.9

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: OCT. 4 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:

Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-017	-018	-019	-020	-021	-022	-023	-024
Location:	SR-200-2	SR-200-3	SR-200-4	SR-200-1	SR-200-10	R-200-9	B19-1R	DR-200-7
Date Collected:	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93
Time Collected:	04:55	05:05	05:20	05:30	09:25	09:40	10:10	10:40
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	114	99	112	92	112	101	87	105
(Acceptance Limits: 60-138%)								
1-Chloro-3-Fluorobenzene	97	107	107	74	96	95	80	83
(Acceptance Limits: 60-121%)								
a,a,a-Trifluorotoluene	97	121	102	92	91	95	106	119
(Acceptance Limits: 60-134%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: 4 OCT., 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-025	-026	-027	-028	-029	-030	-031	-032
Location:	R-200-8	SR-200-5	B27	B27-A	B19-A	EQUIPMENT BLANK	TRIP BLANK	TRIP BLANK
Date Collected:	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/21/93	09/22/93
Time Collected:	11:15	11:25	11:50	11:45	NO SAMPLE	12:00	07:40	03:30
Date Analyzed:	09/24/93	09/24/93	09/24/93	09/28/93		09/25/93	09/28/93	09/25/93
Dilution:	5	1	1	10		1	1	1
Chloromethane	25 U	5.0 U	5.0 U	50 U		5.0 U	5.0 U	5.0 U
Bromomethane	25 U	5.0 U	5.0 U	50 U		5.0 U	5.0 U	5.0 U
Vinyl Chloride	11	7.5	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Chloroethane	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Methylene Chloride	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5.0	4.4	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	54	50	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,2-Dichloroethene(Cis&Trans)	240	110	1.0 U	27		1.0 U	1.0 U	1.0 U
Chloroform	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
Bromodichloromethane	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,3-Dichloropropene-Trans	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Trichloroethene	20	10	1.0 U	10 U		1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (Cis)	5.0 U	1.0 U	1.0 U	10 U		1.0 U	1.0 U	1.0 U
Dibromochloromethane	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
2-Chloroethylvinyl Ether	10 UJ	2.0 UJ	2.0 UJ	20 UJ		2.0 UJ	2.0 UJ	2.0 UJ
Bromoform	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Tetrachloroethene	8.2	1.7	1.0 U	10 U		1.0 U	1.0 U	1.0 U
Chlorobenzene	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Benzene	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Toluene	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Ethylbenzene	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Total Xylene (o,m,p)	10 U	2.0 U	2.0 U	20 U		2.0 U	2.0 U	2.0 U
Total Volatiles	338.2	183.6	ND	27		ND	ND	ND

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: OCT. 4 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-025	-026	-027	-028	-029	-030	-031	-032
Location:	R-200-8	SR-200-5	B27	B27-A	B19-A	EQUIPMENT BLANK	TRIP BLANK	TRIP BLANK
Date Collected:	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/22/93	09/21/93	09/22/93
Time Collected:	11:15	11:25	11:50	11:45	NO SAMPLE	12:00	07:40	03:30
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane (Acceptance Limits: 60-138%)	84	95	85	84		98	85	104
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-121%)	93	98	60	64		74	65	68
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	98	103	79	83		83	64	85

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

GTC REPORT #: R93/03637

Sample Reference: Bldg. 200 Quarterly Wells

LABORATORY QUALITY CONTROL

Presented in this section is Quality Control Associated with the analytical data of this report.

Quality Control Explanations:

(1) RUN QUALITY CONTROL - Selected QC data from the analytical run in which your sample(s) were involved.

(2) JOB SPECIFIC QUALITY CONTROL - QC data specific to your set of samples.

(3) DUPLICATES - Replicate analyses of a given sample used to monitor precision. Relative Percent Difference is calculated as the difference divided by the average x 100.

(4) MATRIX SPIKES - Addition of a known amount of analyte to a sample. Recovery is calculated by subtracting original value attributable to the sample from the combined value. The difference is then divided by the amount added to calculate % recovery. Poor recoveries may indicate analytical interference due to the matrix of the sample. Any other samples of this matrix may also have been affected, high or low as indicated by the % recovery.

(5) LABORATORY CONTAMINANTS - Laboratory De-ionized water used to monitor for contamination during analysis.

(6) BLANK SPIKES - Same as item #4 but analyte is added to laboratory de-ionized water. This indicates the accuracy of analysis.

(7) REFERNCE CHECK SAMPLES - Samples from an outside source having a known concentration of analyte. Used as a measure of analytical accuracy.

When possible, all components of the above listed QC protocol are performed during an analytical run. The resulting data is compared to historical records when evaluating the quality of analytical runs. The data provided in your report has passed our Quality Assurance review.

Quality Control Notes:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: 4 OCT., 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-033	-034	-035	-036	-037			
Location:	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK			
Date Collected:	--	--	--	--	--			
Time Collected:	--	--	--	--	--			
Date Analyzed:	09/23/93	09/23/93	09/24/93	09/27/93	09/28/93			
Dilution:	1	1	1	1	1			
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U			
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U			
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Methylene Chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,2-Dichloroethene(Cis&Trans)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
Carbon Tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,3-Dichloropropene-Trans	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
1,3-Dichloropropene (Cis)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
Dibromochloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ			
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
1,3-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
1,2-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
1,4-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Ethylbenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Total Xylene (o,m,p)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U			
Total Volatiles	ND	ND	ND	ND	ND			

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/03637 Date: OCT. 4 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Wells

Collected : 09/21-22/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-033	-034	-035	-036	-037			
Location:	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK			
Date Collected:	--	--	--	--	--			
Time Collected:	--	--	--	--	--			
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane (Acceptance Limits: 60-138%)	97	106	104	98	111			
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-121%)	92	97	92	90	96			
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	73	92	105	91	86			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

3A - WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No. : R93/03637 -001

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENT. (ug/l)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	21.6	0	21.2	98	28-167
Trichloroethene	21.4	0	20.4	95	35-146
Benzene	21.8	0	15.4	70	39-150
Toluene	22.4	0	16.4	73	46-148
Chlorobenzene	22.4	0	19.6	87	38-150

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	21.6	20.4	94	4	30	28-167
Trichloroethene	21.4	18.9	88	7	30	35-146
Benzene	21.8	14.2	65	8	30	39-150
Toluene	22.4	14.9	67	9	30	46-148
Chlorobenzene	22.4	18.1	81	8	30	38-150

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA-1
NYSDEC B-85

General Testing Corporation

A Full Service Environmental Laboratory

3A - WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No. : R93/03637 -011

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENT. (ug/l)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	21.6	0	27.2	126	28-167
Trichloroethene	21.4	0	25.3	118	35-146
Benzene	21.8	0	22.7	104	39-150
Toluene	22.4	0	23.6	106	46-148
Chlorobenzene	22.4	0	23.7	106	38-150

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	21.6	24.4	113	11	30	28-167
Trichloroethene	21.4	22.3	104	13	30	35-146
Benzene	21.8	20.0	92	13	30	39-150
Toluene	22.4	20.9	93	13	30	46-148
Chlorobenzene	22.4	23.9	107	1	30	38-150

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA-1
NYSDEC B-85

General Testing Corporation

A Full Service Environmental Laboratory

3A - WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No. : R93/03637 -026

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENT. (ug/l)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	54.0	4.37	58.8	101	28-167
Trichloroethene	53.5	10.4	62.6	98	35-146
Benzene	54.5	0	64.7	119	39-150
Toluene	56.0	0	62.6	112	46-148
Chlorobenzene	56.0	0	56.8	101	38-150

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	54.0	58.4	100	1	30	28-167
Trichloroethene	53.5	56.6	86	10	30	35-146
Benzene	54.5	60.8	112	6	30	39-150
Toluene	56.0	59.3	106	5	30	46-148
Chlorobenzene	56.0	52.7	94	7	30	38-150

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA-1
NYSDEC B-85

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Job No: R93/03637

Date: 4 OCT., 1993

EPA METHOD 8010/8020	REFERENCE CHECK TRUE VALUE	% RECOVERY	ACCEPTANCE LIMITS (%)
Date Analyzed: 09/23/93			
Chloromethane	20	66	D - 193
Bromomethane	20	106	D - 144
Vinyl Chloride	20	82	28 - 163
Chloroethane	20	83	46 - 137
Methylene Chloride	20	86	25 - 162
Trichlorofluoromethane	20	73	21 - 156
1,1-Dichloroethene	20	88	28 - 167
1,1-Dichloroethane	20	84	47 - 132
Total 1,2-Dichloroethene	20	87	38 - 155
Chloroform	20	88	49 - 133
1,2-Dichloroethane	20	99	51 - 147
1,1,1-Trichloroethane	20	93	41 - 138
Carbon Tetrachloride	20	89	43 - 143
Bromodichloromethane	20	92	42 - 172
1,2-Dichloropropane	20	94	44 - 156
1,3-Dichloropropene-Trans	20	+	22 - 178
Trichloroethene	20	90	35 - 146
1,3-Dichloropropene(Cis)	20	95	22 - 178
Dibromochloromethane	20	98	24 - 191
1,1,2-Trichloroethane	20	+	39 - 136
2-Chloroethylvinyl Ether	NA	NA	14 - 186
Bromoform	20	87	13 - 159
1,1,2,2-Tetrachloroethane	20	+	8 - 184
Tetrachloroethene	20	93	26 - 162
Chlorobenzene	20	78	38 - 150
1,3-Dichlorobenzene	20	62	7 - 187
1,2-Dichlorobenzene	20	+	D - 208
1,4-Dichlorobenzene	20	58	42 - 143
Benzene	20	63	39 - 150
Toluene	20	63	46 - 148
Ethylbenzene	20	60	32 - 160
Total Xylene (o,m,p)	60	52	45 - 148

NA - Not Added +Coelution

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Job No: R93/03637

Date: 7 OCT., 1993

EPA METHOD 8010/8020	REFERENCE CHECK TRUE VALUE	REFERENCE CHECK % RECOVERY	ACCEPTANCE LIMITS (%)
Date Analyzed: 09/23/93			
Chloromethane	20	169	D - 193
Bromomethane	40	114	D - 144
Vinyl Chloride	20	95	28 - 163
Chloroethane	NA	NA	46 - 137
Methylene Chloride	20	132	25 - 162
Trichlorofluoromethane	20	96	21 - 156
1,1-Dichloroethene	20	111	28 - 167
1,1-Dichloroethane	20	114	47 - 132
cis-1,2-Dichloroethene	20	122	27 - 165
1,1-Dichloroethane	20	114	47 - 132
Chloroform	20	128	49 - 133
1,2-Dichloroethane	20	118	51 - 147
1,1,1-Trichloroethane	20	115	41 - 138
Carbon Tetrachloride	20	117	43 - 143
Bromodichloromethane	20	116	42 - 172
1,2-Dichloropropane	20	118	44 - 156
1,3-Dichloropropene-Tran	20	128	22 - 178
Trichloroethene	20	118	35 - 146
1,3-Dichloropropene(Cis)	20	121	22 - 178
Dibromochloromethane	20	136	24 - 191
1,1,2-Trichloroethane	20	126	39 - 136
2-Chloroethylvinyl Ether	NA	NA	14 - 186
Bromoform	20	128	13 - 159
1,1,2,2-Tetrachloroethane	20	136	8 - 184
Tetrachloroethene	20	118	26 - 162
Chlorobenzene	20	112	38 - 150
1,3-Dichlorobenzene	20	130	7 - 187
1,2-Dichlorobenzene	20	118	D - 208
1,4-Dichlorobenzene	20	118	42 - 143
Benzene	20	100	39 - 150
Toluene	20	105	46 - 148
Ethylbenzene	20	106	32 - 160
Total Xylene (o,m,p)	62	88	45 - 148

NA - Not Added

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Job No: R93/03637

Date: 4 OCT., 1993

EPA METHOD 8010/8020	REFERENCE CHECK TRUE VALUE	% RECOVERY	ACCEPTANCE LIMITS (%)
Date Analyzed: 09/24/93			
Chloromethane	20	72	D - 193
Bromomethane	20	110	D - 144
Vinyl Chloride	20	79	28 - 163
Chloroethane	20	92	46 - 137
Methylene Chloride	20	91	25 - 162
Trichlorofluoromethane	20	76	21 - 156
1,1-Dichloroethene	20	93	28 - 167
1,1-Dichloroethane	20	91	47 - 132
Total 1,2-Dichloroethene	20	95	38 - 155
Chloroform	20	94	49 - 133
1,2-Dichloroethane	20	107	51 - 147
1,1,1-Trichloroethane	20	102	41 - 138
Carbon Tetrachloride	20	98	43 - 143
Bromodichloromethane	20	100	42 - 172
1,2-Dichloropropane	20	100	44 - 156
1,3-Dichloropropene-Trans	20	+	22 - 178
Trichloroethene	20	104	35 - 146
1,3-Dichloropropene(Cis)	20	110	22 - 178
Dibromochloromethane	20	106	24 - 191
1,1,2-Trichloroethane	20	+	39 - 136
2-Chloroethylvinyl Ether	NA	NA	14 - 186
Bromoform	20	91	13 - 159
1,1,2,2-Tetrachloroethane	20	+	8 - 184
Tetrachloroethene	20	108	26 - 162
Chlorobenzene	20	97	38 - 150
1,3-Dichlorobenzene	20	105	7 - 187
1,2-Dichlorobenzene	20	+	D - 208
1,4-Dichlorobenzene	20	95	42 - 143
Benzene	20	80	39 - 150
Toluene	20	89	46 - 148
Ethylbenzene	20	97	32 - 160
Total Xylene (o,m,p)	60	78	45 - 148

NA - Not Added +Coelution

General Testing Corporation

GTC REPORT #: R93/03637

Sample Reference: Bldg. 200 Quarterly Wells

FIELD DOCUMENTATION

Presented in this section is all support documentation requested.

Documentation Provided:

(X) Chain of Custody Forms

( ) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

( ) Other:

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. R93/3637

Client Project No. 1

Sample Origination & Shipping Information

Collection Site: Xerox 200 wells

Address: Webster NY (Street / City / State / Zip)

Collector: BRIAN MACKIN (Print) — Brian Mackin (Signature)

Bottles Prepared by: GTC — Rec'd by: Bjm

Bottles Shipped to Client via: ↓ — Seal/Shipping #:

Samples Shipped via: ↓ — Seal/Shipping #:

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign: Brian Mackin	1. Sign:	9/21/93
for: GTC	for:	14:30
2. Sign:	2. Sign:	/ /
for:	for:	:
3. Sign:	3. Sign:	/ /
for:	for:	:

Sample(s) Received in Laboratory by: DS/TGardner 9 21 93 @1430

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	1+QC / R93/3637-001	B29-SR / 9/21/93 0915	W	8010/8020 field parameters	X			X	1(3), 4
2	2+3 / -002 -003	B29-A / 9/21/93 0925	W		X			X	1, 4
3	4 / -004	B29-IR / 9/21/93 0942	W		X			X	1, 4
4	5 / -005	B25-A / 9/21/93 1005	W		X			X	1, 4
5	6 / -006	B25 / 9/21/93 1030	W		X			X	1, 4

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl		
# of each	2			1							

Additional Analytes: _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. 293/3637
Client Project No. /

Sample Origination & Shipping Information
Collection Site: Xerox 200 Wells
Address: Webster NY
(Street, City, State, Zip)
Collector: BRIAN MACKIN (Print) — Brian Mackin (Signature)

Bottles Prepared by: GTC
Rec'd by: BJm
Bottles Shipped to Client via: ↓
Seal/Shipping #:
Samples Shipped via: ↓
Seal/Shipping #:

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Brian Mackin	1. Sign	9/21/93
for GTC	for	14:30
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by: JS McGarther 9/21/93 @14:30

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	7 / -007	B18-A / 9/21/93 1055	W	8010/8020 FIELD PARA.	X			X	1, 4
2	8 / -008	B18-SR / 9/21/93 1059	W	↓	X			X	↓
3	9 / -009	B18-IR / 9/21/93 1120	W	↓	X			X	↓
4	10 / -010	B26-~~IR~~ SR 10/4/93 / 9/21/93 1140	W	↓	X			X	↓
5	11+QC / -011	B26-A / 9/21/93 1150	W	↓	X			X	↓

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each	2			1							

Additional Analytes ______

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), ______(X), ______(Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. 1293/3637

Client Project No. _____

Sample Origination & Shipping Information

Collection Site Xerox 200 Wells

Address Webster NY

Street City State Zip

Collector BRIAN MACKIN (Print) Brian Mackin (Signature)

Bottles Prepared by GTC Rec'd by BGM

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via ↓ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign Brian Mackin	1. Sign	9/21/93
for GTC	for	14:30
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by DS/TGardner 9/21/93 @1430

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	12 / -012	B26-IR / 9/21/93 1158	W	8010/8020 field para	X			X	1, 4
2	13+14 / -013 -014	B19-SR / 9/21/93 1322	W		X			X	
3	15 / -015	B19-DR / 9/21/93 1400	W		X			X	
4	16 / -016	Bailer Blank / 9/21/93 1340	X		X			X	
5	31 / -031	Trip Blanks / 9/21/93 0740	X	↓	X			X	↓

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each	2			1							

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), GTC DI water (X) _____ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. R93/3637

Client Project No. _____

Sample Origination & Shipping Information

Collection Site: Xerox Bldg 200 Wells

Address: Webster NY

Street / City / State / Zip

Collector: BRIAN MACKIN (Print) — Brian Mackin (Signature)

Bottles Prepared by: GTC — Rec'd by: BJM

Bottles Shipped to Client via: _____ — Seal/Shipping #: _____

Samples Shipped via: _____ — Seal/Shipping #: _____

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign Brian Mackin for GTC	1. Sign for	9/22/93 13:00
2. Sign	2. Sign for	/ / :
3. Sign	3. Sign for	/ / :

Sample(s) Received in Laboratory by: _____ 9/22/93 @ 13:00

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	17 / R93/3637-017	SR 200-2 / 9/22/93 0455	W	8010/8020 Fieldpara.	X			X	1, 4
2	18 / R93/3637-018	SR 200-3 / 9/22/93 0505	W		X			X	
3	19 / R93/3637-019	SR 200-4 / 9/22/93 0520	W		X			X	
4	20 / R93/3637-020	SR 200-1 / 9/22/93 0530	W		X			X	
5	21 / R93/3637-021	SR 200-10 / 9/22/93 0925	W		X			X	

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each	2			1							

Additional Analytes: _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No R93/3637

Client Project No. 1

Sample Origination & Shipping Information

Collection Site Leroy Bldg 200 wells

Address Webster NY
Street City State Zip

Collector BRIAN MACKIN
Print Signature

Bottles Prepared by GTC Rec'd by BJM

Bottles Shipped to Client via ↓ Seal/Shipping #

Samples Shipped via ↓ Seal/Shipping #

Sample(s) Relinquished by:		Received by:		Date//Time
1. Sign	Brian Mackin	1. Sign		9/22/93
for	GTC	for		13:00
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by A [illegible] 9/22/93 @ 1205

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	22 / R93/3637 -022	R 200-9 / 9/22/93 0940	W	8010/8020 fieldpara	X			X	1, 4
2	23 / R93/3637 -023	B19-IR / 9/22/93 1010	W		X			X	
3	24 / R93/3637 -024	DR 200-7 / 9/22/93 1040	W		X			X	
4	25 / R93/3637 -025	R 200-8 / 9/22/93 1115 ~~1050~~	W		X			X	
5	26 / R93/3637 -026	SR-200-5 / 9/22/93 1125	W	↓	X			X	↓

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each	2			1							

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. R93/3637
Client Project No. /

Sample Origination & Shipping Information

Collection Site: Kenyon Bldg 200 wells
Address: Webster NY
Street / City / State / Zip

Collector: BRIAN MACKIN (Print) — Brian Mackin (Signature)

Bottles Prepared by: GTC — Rec'd by: Lynn
Bottles Shipped to Client via: ↓ — Seal/Shipping #:
Samples Shipped via: ↓ — Seal/Shipping #:

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Brian Mackin	1. Sign	9/22/93
for GTC	for	13:00
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by: [illegible] 9/22/93 @ 13:00

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	27 / R93/3637-027	B27 / 9/22/93 11:50	W	8010/8020 field para.	X			X	1, 4
2	28 / R93/3637-028	B27-A / 9/22/93 11:45	W	↓	X			X	1, 4
3	29 / R93/3637-029	B19-A / 9/22/93 —	W	NO SAMPLE WELL DECOMMISSIONED					
4	30 / R93/3637-030	Equip Blank SWL Indicator / 9/22/93 12:00	X	8010/8020 field para	X			X	1, 4
5	32 / R93/3637-032	Trip Blank / 9/22/93 03:30	X	8010/8020	X			X	1

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each	7			1							

Additional Analytes: _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), GTC DI water (X), _____ (Y).

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox - 200 Job Number R93/3637

Well I.D. B-29-SR Lab Number 1+QC

PURGE INFORMATION Purge Method Fuji Pump

Well Depth (ft) 30.34

Static Water Level (ft)— 11.35

Depth of Water Column (gal/ft)x 18.99

Well Constant (gal/ft)x .16

Volume standing in well 3.04 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/21/93 Time 09:00 End Purge 09:03

Purge Observations clear

Total Volume Purged 3.0 gallons # of Volume Casings Purged 1V - dry

SAMPLING INFORMATION Sample Method Teflon Bailer

Sample Date: 9/21/93 Time: 09:15 Sample Depth: 19.23 ft.

Sample Appearance: Clear

Recharge Time 12 minutes Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.07	8.07
Cole Parmer	Spec. Cond.	umhos/cm	500	510
Beckman	Temp	°Celsius	12.7	12.7

S.C. 1413 set 1400

Crew Members BT, RJH, CC, BJM

Meter Calibration: Date/Time 9/21/93 09:00 7.00 set 7.01, 10.00 set 10.03, 4.00 reads 4.05

Weather 48 Hour History P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather P. Sunny 63°F, light winds

Surface seal cracked, otherwise in good condition

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/21/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox - 200 Job Number R93/3637

Well I.D. B29-A Lab Number 2+3

PURGE INFORMATION Purge Method Fug. Pump

Well Depth (ft) 22.78

Static Water Level (ft)— 10.11

Depth of Water Column (gal/ft)x 12.67

Well Constant (gal/ft)x .16

Volume standing in well 2.03 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9 / 21 / 93 Time 09 : 04 End Purge 09 : 05

Purge Observations clear

Total Volume Purged 2.0 gallons # of Volume Casings Purged 1V - dry

SAMPLING INFORMATION Sample Method 2" reflow bailer

Sample Date: 9 / 21 / 93 Time: 09 : 25 Sample Depth: 16.42 ft.

Sample Appearance: Clear

Recharge Time 20 min Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.53	8.57
Cole Parmer	Spec. Cond.	umhos/cm	530	520
Beckman	Temp	°Celsius	13.6	13.6

Crew Members BT, BM, RU, CC

Meter Calibration: Date/Time 9 / 21 / 93 09:00

Weather 48 Hour History P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather P. Sunny 63°F light winds
Surface seal cracked, otherwise in good condition

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9 / 21 / 93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox - 200 Job Number R93/3637

Well I.D. B29 - ER Lab Number 4

PURGE INFORMATION

Purge Method Fugi Pump + SS bailer

Well Depth (ft) 50.24

Static Water Level (ft)— 11.37

Depth of Water Column (gal/ft)x 38.87

Well Constant (gal/ft)x .16 X

Volume standing in well 6.22 gallons

HNU Meter Reading

Well Head BG

Breathing Zone BG

Start of Purge: Date 9 / 21 / 93 Time 09 : 05 End Purge 09 : 25

Purge Observations Rust tan tint

Total Volume Purged 9 gallons # of Volume Casings Purged 1.5 today

SAMPLING INFORMATION

Sample Method 2" teflon bailer

Sample Date: 9 / 21 / 93 Time: 09 : 42 Sample Depth: 43.20 ft.

Sample Appearance: Turbid rust brown

Recharge Time 17 min Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.99	9.00
Cole Parmer	Spec. Cond.	umhos/cm	1050	1040
Beckman	Temp	°Celsius	12.3	12.3

Crew Members BT, CC, BM, BJU

Meter Calibration: Date/Time 9 / 21 / 93 09 : 00

Weather 48 Hour History P. Cloudy, 60°F both days

FIELD OBSERVATIONS: Weather

Surface seal cracked, otherwise in good condition

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9 / 21 / 93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox-200 Job Number R93/3637

Well I.D. B25-A Lab Number 5

PURGE INFORMATION Purge Method Fuji Pump

Well Depth (ft) 28.92

Static Water Level (ft)— 6.86

Depth of Water Column (gal/ft)x 22.06

Well Constant (gal/ft)x .16

Volume standing in well 3.53 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9 / 21 / 93 Time 09 : 45 End Purge 09 : 48

Purge Observations Tan tint, turbid

Total Volume Purged 4 gallons # of Volume Casings Purged 1.2 today

SAMPLING INFORMATION Sample Method 2" reflow bailer

Sample Date: 9 / 21 / 93 Time: 10 : 05 Sample Depth: 26.35 ft.

Sample Appearance: Turbid, rust brown tint

Recharge Time 17 min Recharge Rate S

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	9.37	9.38
Cole Parmer	Spec. Cond.	umhos/cm	370	370
Beckman	Temp	°Celsius	15.5	15.5

Crew Members BJM, CC, BT, RJL

Meter Calibration: Date/Time 9 / 21 / 93 09 : 00

Weather 48 Hour History P. Cloudy, 63°F both days

FIELD OBSERVATIONS: Weather P. Cloudy 65°F, light NE winds
Well is labelled, locked and has a good seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9 / 21 / 93 Signature Brian Macki

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox - 200 Job Number R93/3637

Well I.D. B-25 Lab Number 6

PURGE INFORMATION Purge Method Fugi Pump/Bailer

Well Depth (ft) 42.40

Static Water Level (ft)— 7.72

Depth of Water Column (gal/ft)x 34.68

Well Constant (gal/ft)x .65

Volume standing in well 22.54 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9 / 21 / 93 Time 09 : 50 End Purge 10 : 15

Purge Observations Turbid, brown tint

Total Volume Purged 30 gallons # of Volume Casings Purged 1.3 today

SAMPLING INFORMATION Sample Method 2" teflon bailer

Sample Date: 9 / 21 / 93 Time: 10 : 30 Sample Depth: 29.89 ft.

Sample Appearance: Turbid, rust tan tint

Recharge Time 15 min Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.17	8.19
Cole Parmer	Spec. Cond.	umhos/cm	1150	1170
Beckman	Temp	°Celsius	14.1	14.1

Crew Members RJH, BT, BJM, CC

Meter Calibration: Date/Time 9 / 21 / 93 09 : 00

Weather 48 Hour History P. Sunny 60°F

FIELD OBSERVATIONS: Weather P. Sunny 65°F, light NE winds

Well is labelled, locked and has a good seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9 / 21 / 93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox - 203 Job Number R93/3637

Well I.D. B18-A Lab Number 7

PURGE INFORMATION Purge Method Fuji Pump

Well Depth (ft) 16.80

Static Water Level (ft)— 6.07

Depth of Water Column (gal/ft)x 10.73

Well Constant (gal/ft)x .04

Volume standing in well 0.43 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/21/93 Time 10:40 End Purge 10:42

Purge Observations Turbid, black tint

Total Volume Purged 1 gallons # of Volume Casings Purged 2 to dry

SAMPLING INFORMATION Sample Method Teflon Bailer

Sample Date: 9/21/93 Time: 10:55 Sample Depth: 8.58 ft.

Sample Appearance: Turbid, black tint

Recharge Time 13 min Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.32	8.31
Cole Parmer	Spec. Cond.	umhos/cm	2100	2090
Beckman	Temp	°Celsius	19.0	19.0

Crew Members BT, BJU, CC, BM

Meter Calibration: Date/Time 9/21/93 09:00

Weather 48 Hour History P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather P. Cloudy, 65°F

well labelled and locked, but no visable seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/21/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox - 200 Job Number R93/3637

Well I.D. B-18-SR Lab Number 8

PURGE INFORMATION Purge Method Fuji Pump

Well Depth (ft) 17.45

Static Water Level (ft)— 6.12

Depth of Water Column (gal/ft)x 13.33

Well Constant (gal/ft)x .16

Volume standing in well 2.13 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9 / 21 / 93 Time 10 : 45 End Purge 10 : 48

Purge Observations Rust tan tint

Total Volume Purged 6.5 gallons # of Volume Casings Purged 3

SAMPLING INFORMATION Sample Method 2" teflon bailer

Sample Date: 9 / 21 / 93 Time: 10 : 59 Sample Depth: 12.01 ft.

Sample Appearance: Turbid, brown tint

Recharge Time 11 min Recharge Rate F

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	7.87	7.86
Cole Parmer	Spec. Cond.	umhos/cm	1400	1400
Beckman	Temp	°Celsius	16.8	16.8

Crew Members BJM, CC, RJH, BT

Meter Calibration: Date/Time 9 / 21 / 93 09 : 00

Weather 48 Hour History P. Sunny, 60°F, both days

FIELD OBSERVATIONS: Weather P. Cloudy, 65°F, light NE winds

Well labelled and locked with good seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9 / 21 / 93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox - 200 Job Number R931 3637

Well I.D. B18 - IR Lab Number 9

PURGE INFORMATION Purge Method Fuji Pump

Well Depth (ft) 40.42

Static Water Level (ft)— 8.71

Depth of Water Column (gal/ft)x 31.71

Well Constant (gal/ft)x .65

Volume standing in well 20.61 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9 / 21 / 93 Time 10 : 55 End Purge 11 : 08

Purge Observations Turbid tan tint

Total Volume Purged 21 gallons # of Volume Casings Purged 1 to dry

SAMPLING INFORMATION Sample Method 2" teflon bailer

Sample Date: 9 / 21 / 93 Time: 11 : 20 Sample Depth: 40.21 ft.

Sample Appearance: Turbid, brown tint

Recharge Time 12 min Recharge Rate 5

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	9.10	9.13
Cole Parmer	Spec. Cond.	umhos/cm	940	940
Beckman	Temp	°Celsius	14.6	14.6

Crew Members BT, RJH, CC, BJM

Meter Calibration: Date/Time 9 / 21 / 93 09 : 00

Weather 48 Hour History P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather P. Cloudy 65°F, slight NE wind

Well labelled and locked with good seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9 / 21 / 93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: Xerox - 200 Job Number: R93 | 3637

Well I.D.: B26-SR Lab Number: 10

PURGE INFORMATION

Purge Method: Fugi Pump

Well Depth (ft): 20.20

Static Water Level (ft): 6.30

Depth of Water Column (gal/ft)x: 13.90

Well Constant (gal/ft)x: .16

Volume standing in well: 2.22 gallons

HNU Meter Reading
Well Head: BG
Breathing Zone: BG

Start of Purge: Date 9 / 21 / 93 Time 11 : 20 End Purge 11 : 22

Purge Observations: Turbid tan

Total Volume Purged: 2.2 gallons # of Volume Casings Purged: 1 today

SAMPLING INFORMATION

Sample Method: 2" teflon bailer

Sample Date: 9 / 21 / 93 Time: 11 : 40 Sample Depth: 7.12 ft.

Sample Appearance: Turbid, tan tint

Recharge Time: 18 min. Recharge Rate: M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	7.88	7.91
Cole Parmer	Spec. Cond.	umhos/cm	1800	1790
Beckman	Temp	°Celsius	19.0	19.0

S.C. STD 1413 set 1410

Crew Members: BJM, CC, RJH, BT

Meter Calibration: Date/Time 9 / 21 / 93 11 : 20

pH STD
7.00 set 7.01
10.00 set 10.02
4.00 set 4.05

Weather 48 Hour History: P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather: P. Cloudy, 65°F, light NE winds

Well labelled and locked with a good seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print): BRIAN MACKIN

Date: 9 / 21 / 93 Signature: Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: Xerox - 200 Job Number: R93/3637

Well I.D.: B26-A Lab Number: 11 + QC

PURGE INFORMATION Purge Method: Fuji Pump

Well Depth (ft): 16.72

Static Water Level (ft): 4.56

Depth of Water Column (gal/ft)x: 12.16

Well Constant (gal/ft)x: .16

Volume standing in well: 1.95 gallons

HNU Meter Reading
Well Head: BG
Breathing Zone: BG

Start of Purge: Date 9/21/93 Time 11:25 End Purge 11:28

Purge Observations: Turbid tan tint

Total Volume Purged: 2 gallons # of Volume Casings Purged: 1 to dry

SAMPLING INFORMATION Sample Method: Teflon bailer

Sample Date: 9/21/93 Time: 11:50 Sample Depth: 11.27 ft.

Sample Appearance: Clear

Recharge Time: 22 min Recharge Rate: M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	7.73	7.75
Cole Parmer	Spec. Cond.	umhos/cm	2200	2210
Beckman	Temp	°Celsius	18.7	18.7

Crew Members: BJM, BT, RJH, CC

Meter Calibration: Date/Time 9/21/93 11:20

Weather 48 Hour History: P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather P. Cloudy 65°F, light NE winds

Well labelled and locked, but no visible seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print): BRIAN MACKIN

Date: 9/21/93 Signature: Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: Xerox - 20 Job Number: R93/3637

Well I.D.: B26-IR Lab Number: 12

PURGE INFORMATION Purge Method: Fuji Pump/SS bailer

Well Depth (ft): 40.20

Static Water Level (ft)—: 3.37

Depth of Water Column (gal/ft)x: 36.83

Well Constant (gal/ft)x: .16

Volume standing in well: 5.89 gallons

HNU Meter Reading
Well Head: BG
Breathing Zone: BG

Start of Purge: Date 9/21/92 Time 11:30 End Purge 11:45

Purge Observations: Clear

Total Volume Purged: 6 gallons # of Volume Casings Purged: 1 to dry

SAMPLING INFORMATION Sample Method: Teflon Bailer

Sample Date: 9/21/93 Time: 11:58 Sample Depth: 36.27 ft.

Sample Appearance: Turbid, brown tint

Recharge Time: 13 min Recharge Rate: M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	9.11	9.11
Cole Parmer	Spec. Cond.	umhos/cm	1230	1250
Beckman	Temp	°Celsius	14.2	14.2

Crew Members: BJM, CC, RJN, BT

Meter Calibration: Date/Time 9/21/93 11:20

Weather 48 Hour History: P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather: Cloudy 65°F, light NE winds

Well labelled and locked, but no visible seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print): BRIAN MACKIN

Date: 9/21/93 Signature: Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox Bldg 200 wells Job Number R93/3637

Well I.D. B19-SR Lab Number 13+14

PURGE INFORMATION Purge Method Fugi Pump

Well Depth (ft) 20.20

Static Water Level (ft)— 11.63

Depth of Water Column (gal/ft)x 8.57

Well Constant (gal/ft)x 0.16

Volume standing in well 1.4 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/21/93 Time 12:45 End Purge 12:52

Purge Observations Turbid brown

Total Volume Purged 4.5 gallons # of Volume Casings Purged 3

SAMPLING INFORMATION Sample Method Teflon Bailer

Sample Date: 9/21/93 Time: 13:22 Sample Depth: 11.71 ft.

Sample Appearance: Turbid tan

Recharge Time 30 minutes Recharge Rate F

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	#13 Replicates 1	#14 Replicates 2
Bechman	pH	stnd	7.89 7.89	7.90 7.89
Cole Parmer	Spec. Cond.	umhos/cm	1540 1560	1550 1550
Bechman	Temp	°Celsius	17.1 17.1	17.1 17.1

Crew Members BJM, CC, RJH, BT

Meter Calibration: Date/Time 9/21/93 13:00 7.00 set 7.01

Weather 48 Hour History P. Cloudy 60°F both days

FIELD OBSERVATIONS: Weather Cloudy, 60°F, NE winds 5-10
Well in good condition

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/21/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Kerr 200 wells Job Number R93/3637

Well I.D. B-19 DR Lab Number 15

PURGE INFORMATION

Purge Method Fugi Pump/SS bailer

Well Depth (ft) 60.30

Static Water Level (ft)— 12.93

Depth of Water Column (gal/ft)x 47.37

Well Constant (gal/ft)x 0.16

Volume standing in well 7.6 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/21/93 Time 13:05 End Purge 13:45

Purge Observations Turbid tan tint

Total Volume Purged 10 gallons # of Volume Casings Purged 1.3 to dry

SAMPLING INFORMATION

Sample Method Teflon bailer

Sample Date: 9/21/93 Time: 14:00 Sample Depth: 54.81 ft.

Sample Appearance: RUST-TAN, TURBID

Recharge Time 15 MIN Recharge Rate S

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.52	8.50
Cole Parmer	Spec. Cond.	umhos/cm	4820	4850
Beckman	Temp	°Celsius	13.5	13.6

Crew Members BJM, BT, CC, RJH

Meter Calibration: Date/Time 9/21/93 13:00

Weather 48 Hour History P, Sunny 60°F both days

FIELD OBSERVATIONS: Weather Cloudy, 60°F, NE winds 5-10 mph

Surface seal needs repair

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/21/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox 200wells Job Number R93/3637

Well I.D. Bailer Blank Lab Number 16

PURGE INFORMATION Purge Method ———

Well Depth (ft) _____

Static Water Level (ft)— _____

Depth of Water Column (gal/ft)x _____

Well Constant (gal/ft)x _____

Volume standing in well _____ gallons

HNU Meter Reading

Well Head _____

Breathing Zone _____

Start of Purge: Date ____/____/____ Time ____:____ End Purge ____:____

Purge Observations _____

Total Volume Purged _____ gallons # of Volume Casings Purged _____

SAMPLING INFORMATION Sample Method Grab

Sample Date: 9/21/93 Time: 13:40 Sample Depth: ——— ft.

Sample Appearance: Clear

Recharge Time ——— Recharge Rate ———

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.91	8.90
Cole Parmer	Spec. Cond.	umhos/cm	10	10
Beckman	Temp	°Celsius	21.2	21.2

Crew Members BT, BJM, RJU, CC

Meter Calibration: Date/Time 9/21/93 13:00

Weather 48 Hour History P. Sunny 60°F both days

FIELD OBSERVATIONS: Weather Cloudy 60°F, light NE winds

Bailer blank taken by pouring DI off decon'd blg 200 bailer and into bottleset

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/21/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number R93/3637

Well I.D. SR 200-2 Lab Number 17

PURGE INFORMATION

Purge Method STAINLESS STEEL BAILER

Well Depth (ft) 22.33

Static Water Level (ft)— 13.20

Depth of Water Column (gal/ft)x 9.13

Well Constant (gal/ft)x .16

Volume standing in well 1.46 gallons

HNU Meter Reading

Well Head BG

Breathing Zone BG

Start of Purge: Date 9/22/93 Time 4:35 End Purge 4:45

Purge Observations RUST TINT, HIGHLY TURBID

Total Volume Purged 3 gallons # of Volume Casings Purged 2 TO D

SAMPLING INFORMATION

Sample Method TEFLON BAILER

Sample Date: 9/22/93 Time: 4:55 Sample Depth: 18 84

Sample Appearance: RUST TINT, MODERATELY TURBID

Recharge Time 10 MINS. Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.31	7.33
COLE PARMER	Spec. Cond.	umhos/cm	900	920
BECKMAN	Temp	°Celsius	21.5	21.6

Crew Members CC, BT

Meter Calibration: Date/Time 9/22/93 4:50 pH= 7.02, 10.02, 4 SC= 1410

Weather 48 Hour History 60°F, CLEAR, 65°F, CLEAR

FIELD OBSERVATIONS: Weather 50°F, P. CLOUDY - WELL INSIDE WELL COVERED, SEALED, LOCKED AND IN GOOD CONDIT

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Cordes

Date: 9/22/93 Signature Chris Cordes

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number R93/3637

Well I.D. SR 200-3 Lab Number 18

PURGE INFORMATION

Purge Method _____

Well Depth (ft) _____

Static Water Level (ft)— _____

Depth of Water Column (gal/ft)x _____

Well Constant (gal/ft)x _____

HNU Meter Reading

Well Head _____

Breathing Zone _____

Volume standing in well _____ gallons

Start of Purge: Date ___/___/___ Time ___:___ End Purge ___:___

Purge Observations _____

Total Volume Purged _____ gallons # of Volume Casings Purged _____

SAMPLING INFORMATION

Sample Method TEFLON BAILER

Sample Date: 9/22/93 Time: 5:05 Sample Depth: _____ ft.

Sample Appearance: RUST TINT, MODERATELY TURBID

Recharge Time _____ Recharge Rate _____

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.92	7.92
COLE PARMER	Spec. Cond.	umhos/cm	960	940
BECKMAN	Temp	°Celsius	20.1	20.1

Crew Members CC, BT

Meter Calibration: Date/Time 9/22/93 4:50

Weather 48 Hour History 65°F, CLEAR 60°F, CLEAR

FIELD OBSERVATIONS: Weather WELL INSIDE, 55°F CLEAR

WELL CONNECTED TO VES AND CURRENTLY RUNNING

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Cordes

Date: 9/22/93 Signature _____

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG. 700 Job Number 1293/3637

Well I.D. SR 700-4 Lab Number 19

PURGE INFORMATION Purge Method TEFLON BAILER

Well Depth (ft) 23.21

Static Water Level (ft)— 14.65

Depth of Water Column (gal/ft)x 8.56

Well Constant (gal/ft)x .16

Volume standing in well 1.37 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 5:12 End Purge 5:17

Purge Observations RUST TINT, MODERATELY TURBID

Total Volume Purged 2.7 gallons # of Volume Casings Purged 2 TO DRY

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 9/22/93 Time: 5:20 Sample Depth: _____ ft.

Sample Appearance: SLIGHT RUST TINT

Recharge Time 3 MINS Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.66	7.64
COLE PARMER	Spec. Cond.	umhos/cm	900	900
BECKMAN	Temp	°Celsius	18.5	18.6

Crew Members CC, BT

Meter Calibration: Date/Time 9/22/93 4:50

Weather 48 Hour History 60°F CLEAR 65°F, CLEAR

FIELD OBSERVATIONS: Weather 55°F, CLEAR, WELL INSIDE
WELL CONNECTED TO VES BUT NOT CURRENTLY RUNNING
WELL PURGED PRIOR TO SAMPLING

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Cordes

Date: 9/22/93 Signature Chris Cordes

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number R93/3637

Well I.D. SR 200-1 Lab Number 20

PURGE INFORMATION

Purge Method _____

Well Depth (ft) _____

Static Water Level (ft) _____

Depth of Water Column (gal/ft)x _____

Well Constant (gal/ft)x _____

Volume standing in well _____ gallons

HNU Meter Reading

Well Head _____

Breathing Zone _____

Start of Purge: Date ___/___/___ Time ___:___ End Purge ___:___

Purge Observations _____

Total Volume Purged _____ gallons # of Volume Casings Purged _____

SAMPLING INFORMATION

Sample Method TEFLON BAILER

Sample Date: 9/22/93 Time: 5:30 Sample Depth: _____ ft.

Sample Appearance: RUST TINT, MODERATELY TURBID

Recharge Time _____ Recharge Rate _____

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	8.28	8.23
COLE PARMER	Spec. Cond.	umhos/cm	920	960
BECKMAN	Temp	°Celsius	20.8	20.8

Crew Members CC, BT

Meter Calibration: Date/Time 9/22/93 4:50

Weather 48 Hour History 60°F, CLEAR, 65°F, CLEAR

FIELD OBSERVATIONS: Weather 55°F, CLEAR, WELL INSIDE WELL CONNECTED TO VES AND CURRENTLY RUNNING

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Cordes

Date: 9/22/93 Signature [signature]

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox Job Number R93/3637

Well I.D. SR-200-10 Lab Number 21

PURGE INFORMATION Purge Method Fuji Pump

Well Depth (ft) 14.50

Static Water Level (ft)— 5.04

Depth of Water Column (gal/ft)x 9.46

Well Constant (gal/ft)x .16

Volume standing in well 1.51 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 08:50 End Purge 08:55

Purge Observations Turbid brown

Total Volume Purged 4.5 gallons # of Volume Casings Purged 3

SAMPLING INFORMATION Sample Method 2" teflon bailer

Sample Date: 9/22/93 Time: 09:25 Sample Depth: 9.11 ft.

Sample Appearance: Turbid, brown tint

Recharge Time 30 min Recharge Rate F

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	7.39	7.41
Cole Palmer	Spec. Cond.	umhos/cm	1540	1520
Beckman	Temp	°Celsius	20.2	20.2

S.C. 1413 set 1410

Crew Members BJM, BT, CC, RJU

Meter Calibration: Date/Time 9/22/93 09:00

7.00 set 7.02
10.00 set 10.03
4.00 reads 4.01

Weather 48 Hour History P. Cloudy, 60°F both days

FIELD OBSERVATIONS: Weather Sunny, 65°F

Well labelled and locked with a good seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox Job Number R93/3637

Well I.D. R-200-7 Lab Number 22

PURGE INFORMATION Purge Method Fug: Pump/SS bailer

Well Depth (ft) 39.35

Static Water Level (ft) 4.76

Depth of Water Column (gal/ft)x 34.59

Well Constant (gal/ft)x .65

Volume standing in well 22.48 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 09:00 End Purge 09:25

Purge Observations Turbid brown, strong odor

Total Volume Purged 23 gallons # of Volume Casings Purged 1 today

SAMPLING INFORMATION Sample Method 2" teflon bailer

Sample Date: 9/22/93 Time: 09:40 Sample Depth: 37.21 ft.

Sample Appearance: Turbid, brown tint

Recharge Time 15 min Recharge Rate S

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	9.35	9.38
Cole Palmer	Spec. Cond.	umhos/cm	2730	2740
Beckman	Temp	°Celsius	14.8	14.8

Crew Members BJM, RJH, BT, CC

Meter Calibration: Date/Time 9/22/93 09:00

Weather 48 Hour History P. Cloudy, 60°F both days

FIELD OBSERVATIONS: Weather Sunny, 65°F, light winds

Well labelled and locked with a good seal

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature BRIAN MACKIN

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox Bldg. 200 wells Job Number R93/3637

Well I.D. B19-IR Lab Number 23

PURGE INFORMATION Purge Method Fugi Pump

Well Depth (ft) 33.00

Static Water Level (ft) 8.21

Depth of Water Column (gal/ft)x 24.79

Well Constant (gal/ft)x 0.65

Volume standing in well 16 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 09:45 End Purge 09:55

Purge Observations Turbid, tan

Total Volume Purged 16 gallons # of Volume Casings Purged 1 today

SAMPLING INFORMATION Sample Method Teflon Bailer

Sample Date: 9/22/93 Time: 10:10 Sample Depth: 23.2 ft.

Sample Appearance: Turbid brown, odor

Recharge Time 15 min Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.86	8.89
Cole Parmer	Spec. Cond.	umhos/cm	1640	1650
Beckman	Temp	°Celsius	15.4	15.4

Crew Members BJM, CC, RJU, BT

Meter Calibration: Date/Time 9/22/93 09:00

Weather 48 Hour History P. Cloudy, 60°F both days

FIELD OBSERVATIONS: Weather Sunny, 65°F, light winds
Well in good condition

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox 200 wells Job Number R93/3637

Well I.D. DR 200-7 Lab Number 24

PURGE INFORMATION Purge Method SS bailer

Well Depth (ft) 59.35

Static Water Level (ft)— 51.27

Depth of Water Column (gal/ft)x 8.08

Well Constant (gal/ft)x 0.65

Volume standing in well 5.2 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 10:20 End Purge 10:30

Purge Observations Turbid brown

Total Volume Purged 3.5 gallons # of Volume Casings Purged 1 to dry (may be 3rd casing don't know)

SAMPLING INFORMATION Sample Method Teflon bailer

Sample Date: 9/22/93 Time: 10:40 Sample Depth: 57.50 ft.

Sample Appearance: Turbid rust tan tint

Recharge Time 10 minutes Recharge Rate S

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	12.45	12.47
Cole Parmer	Spec. Cond.	umhos/cm	9100	9100
Beckman	Temp	°Celsius	15.6	15.6

Crew Members BT, RJH, CC, BJM

Meter Calibration: Date/Time 9/22/93 09:00

Weather 48 Hour History P. Cloudy, 60°F both days

FIELD OBSERVATIONS: Weather Sunny, 65°F, light winds
Well in good condition

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox Bldg 200 wells Job Number R93/3637

Well I.D. R 200-8 Lab Number 25

PURGE INFORMATION Purge Method Fugi

Well Depth (ft) 33.00

Static Water Level (ft)— 13.55

Depth of Water Column (gal/ft)x 19.45

Well Constant (gal/ft)x 0.65

Volume standing in well 12.6 ~~6.0~~ BJM 9/22 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 10 : 50 End Purge 11 : 05

Purge Observations Turbid brown

Total Volume Purged 29 gallons # of Volume Casings Purged 2.25 today

SAMPLING INFORMATION Sample Method Teflon bailer

Sample Date: 9/22/93 Time: 11 : 15 Sample Depth: 28.42 ft.

Sample Appearance: tan tint

Recharge Time 10 min. Recharge Rate slow

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	7.85	7.81
Cole Parmer	Spec. Cond.	umhos/cm	3100	3100
Beckman	Temp	°Celsius	17.0	17.0

Crew Members BJM, BT, CC, RJH

Meter Calibration: Date/Time 9/22/93 09:00

Weather 48 Hour History P. Cloudy 60°F both days

FIELD OBSERVATIONS: Weather Sunny 65°F, light winds

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox Bldg 200 wells Job Number R93/3637

Well I.D. SR-200-5 Lab Number 26

PURGE INFORMATION Purge Method Fugi Pump

Well Depth (ft) 13.25

Static Water Level (ft) 9.84

Depth of Water Column (gal/ft)x 3.41

Well Constant (gal/ft)x 0.16

Volume standing in well 0.55 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 11 : 10 End Purge 11 : 12

Purge Observations Turbid tan

Total Volume Purged 1.7 gallons # of Volume Casings Purged 3

SAMPLING INFORMATION Sample Method Teflon Bailer

Sample Date: 9/22/93 Time: 11 : 25 Sample Depth: 10.21 ft.

Sample Appearance: Slight tan tint

Recharge Time 13 min Recharge Rate F

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	7.70	7.74
Cole Parmer	Spec. Cond.	umhos/cm	3000	3100
Beckman	Temp	°Celsius	19.8	19.8

S.C. 1413 std set 1410
10.00 set 10.01
7.00 set 7.03
4.00 reads 4.02

Crew Members BJM, RJH, CC, BT

Meter Calibration: Date/Time 9/22/93 11 : 00

Weather 48 Hour History P. Cloudy, 60°F both days

FIELD OBSERVATIONS: Weather Sunny, 65°F, light winds

Well in good condition

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox 200 Wells Job Number R93/3637

Well I.D. B27 Lab Number 27

PURGE INFORMATION Purge Method Fugi Pump

Well Depth (ft) 36.94

Static Water Level (ft)— 12.33

Depth of Water Column (gal/ft)x 24.61

Well Constant (gal/ft)x 0.65

Volume standing in well 16.0 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 11 : 35 End Purge 11 : 42

Purge Observations Turbid Tan

Total Volume Purged 16 gallons # of Volume Casings Purged 1 today

SAMPLING INFORMATION Sample Method Teflon Bailer

Sample Date: 9/22/93 Time: 11 : 50 Sample Depth: 30.17 ft.

Sample Appearance: slight tan tint

Recharge Time 8 min. Recharge Rate slow

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	9.15	9.14
Cole Parmer	Spec. Cond.	umhos/cm	1650	1640
Beckman	Temp	°Celsius	17.8	17.8

Crew Members BJM, BT, CG, RJL

Meter Calibration: Date/Time 9/22/93 11 : 00

Weather 48 Hour History P. Cloudy 60°F both days

FIELD OBSERVATIONS: Weather Sunny 65°F, light winds

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox 200 wells Job Number R93/3637

Well I.D. B27-A Lab Number 28

PURGE INFORMATION Purge Method Fuge Pump

Well Depth (ft) 20.62

Static Water Level (ft)— 17.37

Depth of Water Column (gal/ft)x 3.25

Well Constant (gal/ft)x 0.16

Volume standing in well .52 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 9/22/93 Time 11 : 40 End Purge 11 : 42

Purge Observations turbid brown

Total Volume Purged .5 gallons # of Volume Casings Purged 1V - dry

SAMPLING INFORMATION Sample Method Teflon Bailer

Sample Date: 9/22/93 Time: 11 : 45 Sample Depth: 19.36 ft.

Sample Appearance: rusty brown - turbid

Recharge Time 3 min. Recharge Rate slow

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	7.22	7.20
Cole Parmer	Spec. Cond.	umhos/cm	1900	1900
Beckman	Temp	°Celsius	19.7	19.7

Crew Members RJH, CC, BT, BJM

Meter Calibration: Date/Time 9/22/93 11 : 00

Weather 48 Hour History P. Cloudy, 60°F both days

FIELD OBSERVATIONS: Weather Sunny 65°F, light winds

Well labelled and locked, but seal is cracked

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Knox Bldg 200 wells Job Number R93/3637

Well I.D. B 19 A Lab Number 029

PURGE INFORMATION Purge Method

Well Depth (ft)

Static Water Level (ft)—

Depth of Water Column (gal/ft)x

Well Constant (gal/ft)x

Volume standing in well gallons

HNU Meter Reading

Well Head

Breathing Zone

Start of Purge: Date / / Time : End Purge :

Purge Observations

Total Volume Purged gallons # of Volume Casings Purged

SAMPLING INFORMATION Sample Method NO SAMPLE - WELL DECOMMISSIONED

Sample Date: / / Time: : Sample Depth:

Sample Appearance:

Recharge Time Recharge Rate

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
	pH	stnd		
	Spec. Cond.	umhos/cm		
	Temp	°Celsius		

Crew Members

Meter Calibration: Date/Time / / : :

Weather 48 Hour History

FIELD OBSERVATIONS: Weather

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location Xerox 200 wells Job Number R93/3637

Well I.D. Equip Blank on SWL ind Lab Number 30

PURGE INFORMATION Purge Method —

Well Depth (ft) _____

Static Water Level (ft) _____

Depth of Water Column (gal/ft)x _____

Well Constant (gal/ft)x _____

Volume standing in well _____ gallons

HNU Meter Reading

Well Head _____

Breathing Zone _____

Start of Purge: Date ___/___/___ Time ___:___ End Purge ___:___

Purge Observations _____

Total Volume Purged _____ gallons # of Volume Casings Purged _____

SAMPLING INFORMATION Sample Method Grab

Sample Date: 9/22/93 Time: 12:00 Sample Depth: — ft.

Sample Appearance: Clear

Recharge Time — Recharge Rate —

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
Beckman	pH	stnd	8.79	8.79
Cole Parmer	Spec. Cond.	umhos/cm	10	10
Beckman	Temp	°Celsius	20.5	20.5

Crew Members BT, CC, BJM, RJH

Meter Calibration: Date/Time 9/22/93 11:00

Weather 48 Hour History P. Cloudy 60°F Both Days

FIELD OBSERVATIONS: Weather Sunny, 65°F, light winds

Taken by pouring GTC DI over SWL indicator and into bottles

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BRIAN MACKIN

Date: 9/22/93 Signature Brian Mackin

General Testing Corporation

A Full Service Environmental Laboratory

JULY 21 1993

RECEIVED

JUL 26 1993

H & A OF NEW YORK

Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Re: Bldg. 200 - Investigation
70092-44

Dear Mr. Scott Huber

Enclosed are the results of the analysis requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Sue Lochner

Sue Lochner
Customer Service Representative

Enc.

cc: Mr. Denis Conley
H & A of New York

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019

General Testing Corporation

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

CASE NARRATIVE

COMPANY: XEROX CORPORATION
Bldg. 200
Investigation
JOB #: R93/02470

VOLATILE ORGANICS

Xerox water samples were analyzed for priority pollutant volatiles and Xylene by methods 8010/8020 from SW-846.

The initial calibration criteria of 20% RSD was met for all analytes.

The continuing calibration criteria of 15% D was met for all analytes in all daily calibration check standards.

All surrogate standard recoveries were within acceptance limits for all samples.

All matrix spike, matrix spike duplicate, reference check standard recoveries, and % RPD data were within QC acceptance limits.

The Trip Blank (R93/02470-008) was free of contamination.

All Laboratory Blanks were free from contamination.

All required analysis holding times were met.

The Chloroethylvinylether results have been flagged with a "J" as being estimated due to very erratic results obtained from the GC purge and trap system. None has been detected in any of the samples.

No other analytical or QC problems were encountered.

General Testing Corporation

GTC REPORT #: R93/02470

Sample Reference: Bldg. 200 - Investigation 70092-44

ANALYTICAL DATA

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data herein.

Units: Organics = ug/l

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

(X) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 9/86.

( ) Other:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02470 Date: 21 JULY, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 - Investigation
70092-44

Received : 06/29/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-001	-002	-003	-004	-005	-006	-007	-008
Location:	R200-8	SR200-10	FD-DR200-7	DR200-7	B18SR	R200-9	B19IR	TRIP BLANK
Date Collected:	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93
Time Collected:	15:20	14:50	14:20	15:45	16:10	14:25	16:40	NA
Date Analyzed:	06/30/93	06/30/93	06/30/93	07/01/93	07/01/93	07/02/93	07/02/93	07/02/93
Dilution:	1	1	1	1	1	1	1	1
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	4.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	3.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	29	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5	1.0 U
1,2-Dichloroethene(Cis&Trans)	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.4	1.0 U
Chloroform	1.0 U	6.9	8.4	8.4	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene-Trans	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	11	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.9	1.0 U
1,3-Dichloropropene (Cis)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	2.8	1.0 U	3.5	3.3	1.0 U	1.0 U	80	1.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	2.0 U	13	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U	3.5	4.9	2.0 U	2.0 U	2.0 U	2.0 U
Total Xylene (o,m,p)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Volatiles	250.6	19.9	16.6	16.6	ND	ND	92.8	ND

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02470 Date: JULY 21 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 - Investigation
70092-44

Received : 06/29/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-001	-002	-003	-004	-005	-006	-007	-008
Location:	R200-8	SR200-10	FD-DR200-7	DR200-7	B18SR	R200-9	B19IR	TRIP BLANK
Date Collected:	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93	06/28/93
Time Collected:	15:20	14:50	14:20	15:45	16:10	14:25	16:40	NA
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane (Acceptance Limits: 60-138%)	74	87	88	83	90	76	64	60
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-140%)	84	92	87	83	84	73	75	70
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	88	81	89	87	84	89	87	81

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02470 Date: 21 JULY, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 - Investigation
70092-44

Received : 06/29/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-009	-010						
Location:	LAB METH BLANK	LAB METH BLANK						
Date Collected:	--	--						
Time Collected:	--	--						
Date Analyzed:	06/30/93	07/01/93						
Dilution:	1	1						
Chloromethane	5.0 U	5.0 U						
Bromomethane	5.0 U	5.0 U						
Vinyl Chloride	2.0 U	2.0 U						
Chloroethane	2.0 U	2.0 U						
Methylene Chloride	1.0 U	1.0 U						
Trichlorofluoromethane	1.0 U	1.0 U						
1,1-Dichloroethene	1.0 U	1.0 U						
1,1-Dichloroethane	1.0 U	1.0 U						
1,2-Dichloroethene(Cis&Trans)	1.0 U	1.0 U						
Chloroform	1.0 U	1.0 U						
1,2-Dichloroethane	1.0 U	1.0 U						
1,1,1-Trichloroethane	1.0 U	1.0 U						
Carbon Tetrachloride	1.0 U	1.0 U						
Bromodichloromethane	1.0 U	1.0 U						
1,2-Dichloropropane	1.0 U	1.0 U						
1,3-Dichloropropene-Trans	2.0 U	2.0 U						
Trichloroethene	1.0 U	1.0 U						
1,3-Dichloropropene (Cis)	1.0 U	1.0 U						
Dibromochloromethane	2.0 U	2.0 U						
1,1,2-Trichloroethane	2.0 U	2.0 U						
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ						
Bromoform	2.0 U	2.0 U						
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U						
Tetrachloroethene	1.0 U	1.0 U						
Chlorobenzene	2.0 U	2.0 U						
1,3-Dichlorobenzene	2.0 U	2.0 U						
1,2-Dichlorobenzene	2.0 U	2.0 U						
1,4-Dichlorobenzene	2.0 U	2.0 U						
Benzene	2.0 U	2.0 U						
Toluene	2.0 U	2.0 U						
Ethylbenzene	2.0 U	2.0 U						
Total Xylene (o,m,p)	2.0 U	2.0 U						
Total Volatiles	ND	ND						

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02470 Date: JULY 21 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 - Investigation
70092-44

Received : 06/29/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020	ANALYTICAL RESULTS - %						
Sample:	-009	-010					
Location:	LAB METH BLANK	LAB METH BLANK					
Date Collected:	--	--					
Time Collected:	--	--					
SURROGATE STANDARD RECOVERIES							
% Recovery							
Bromochloromethane (Acceptance Limits: 60-138%)	76	66					
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-140%)	97	95					
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	90	93					

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

GTC REPORT #: R93/02470

Sample Reference: Bldg. 200 - Investigation 70092-44

FIELD DOCUMENTATION

Presented in this section is all support documentation requested.

Documentation Provided:

(X) Chain of Custody Forms

( ) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

( ) Other:

H & A OF NEW YORK
189 North Water Street
Rochester, New York 14604
(716) 232-7386

ANALYSIS REQUEST FORM AND CHAIN-OF-CUSTODY RECORD

Page 1 of 1 № 284
Delivery Date: 6/28/93

Project Name: Bldg 200 RFI Work Plan
H & A File No. 70092 - 44
H & A REP. D. Nostrant
WORK ORDER No.

Laboratory: General Testing Corporation
Address: 710 Exchange St
Rochester NY 14608
Client Rep.:

Project Manager: J. Loney
Final Report Due Date:
Turnaround Time: STD days

Sample Information / Analysis Requested / Preservative

H & A Sample ID.	Laboratory ID.	Sample Date	Sample Time	Sample Depth	Sample Matrix	8010/8020 PTL + xylenes	ID's on Btl					TOTAL	HNO3 (N)	HCl (C)	H2SO4 (S)	NaOH/ZA (Z)	4 C (T)
1. DR200-7		6/28/93	1420	58-59'	W	2	R200-8					2		2			
2. FD-DR200-7		6/28/93	1425	58-59'	W	2	SR 200-10					2		2			
3. R200-8		6/28/93	1450	22-32'	W	2	FD-DR200-7					2		2			
4. B-18SR		6/28/93	1520	14-19'	W	2	DR 200-7					2		2			
5. R200-9		6/28/93	1545	29-39'	W	2	B18SR					2		2			
6. SR200-10		6/28/93	1610	9-14'	W	2	R200-9					2		2			
7. B-19IR		6/28/93	1640	20-30'	W	2	B19IR					2		2			
8. Trip Blank		6/28/93	—	—	W	2	TB					2		2			
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	

(pH < 2.0: HNO3, HCl, H2SO4; pH > 10: NaOH/ZA; pH 7.0: 4 C)

SL 7/2/93

Sampler Comments/Site Observations

Sample Conditions
Custody Seal: Intact:
Cooler Temp.: C
Any Broken Containers ? NO

Broken Containers
List Type / Sample No.

Preservation
No. Of Samples: (N) 16 (C) (S) (Z) (T)
(List all pH measurements outside criteria in the Comments Section by H & A No. / Cont. / pres.)

Comments: HCL and icepacks used to preserve samples

Use ID's on bottle ... [illegible] 7/2/93

Sampled and Relinquished By: David M. Nostrant
Signature: [signature]
Company Name: H & A of NY
Date: 6/28/93 Time: 1715

Samples Received By: D. Solano
Signature: [signature]
Company Name: GTC
Date: 6/28 Time: 17:15 (6/29/93 8:00)

Samples Relinquished By:
Signature:
Company Name:
Date: Time:

Samples Received By:
Signature:
Company Name:
Date: Time:

Samples Relinquished By:
Signature:
Company Name:
Date: Time:

Samples Received By:
Signature:
Company Name:
Date: Time:

General Testing Corporation

A Full Service Environmental Laboratory

RECEIVED
JUL 06 1993
H & A OF NEW YORK

June 30, 1993

Mr. Dave Gianturco
Radian Corporation
155 Corporate Woods
Rochester, New York 14623

Re: Bldg. 200 Wells - 2nd Quarter 1993

Dear Mr. Gianturco:

Enclosed are analytical results from the above referenced site sampled by General Testing Corporation on June 16 and June 17, 1993. A total of thirteen wells, one field duplicate, two equipment blanks and one trip blank was sampled. Well B19-A produced no sample due to a well constriction.

All samples were analyzed for the PPL volatile organics and xylene using EPA method 8010/8020. This analytical data has been reviewed prior to report submission. Please review this data package and call should any questions arise.

Sincerely,
GENERAL TESTING CORP.

Sue Lochner
Customer Service Representative

Enc.
SL:db

cc: Jeff Loney, H&A of New York

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • Fax: (716) 454-1265
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14608 • Tele: (716) 634-0454 • Fax: (716) 634-9019

General Testing Corporation

CASE NARRATIVE

COMPANY: XEROX CORPORATION
BLDG 200-QUARTERLY WELLS
2nd Quarter 1993
JOB #: R93/02277

VOLATILE ORGANICS

Xerox water samples were analyzed for priority pollutant volatile organics and xylene using EPA methods 8010/8020 from SW-846.

The initial calibration criteria of 20% RSD was met for all analytes.

The continuing calibration criteria of 15% D was met for all analytes in all daily calibration check standards.

All surrogate standard recoveries were within acceptance limits for all samples.

All matrix spike, matrix spike duplicate, reference check standard recoveries, and precision data were within QC acceptance limits.

Both Equipment Blanks (R93/02277-033 and 035) contained 1.1 ug/l of Chloroform. However, no data was affected.

The Trip Blank (R93/02277-017) contained 1.0 ug/l of Chloroform. Again no sample data was affected.

All Laboratory Blanks were free of contamination except the Lab Blank from 06/22/93 contained 2.5 ug/l of Methylene Chloride. The Methylene Chloride detected in samples R93/02277-009, 010, and 015 was flagged with a "B" accordingly.

All required analysis holding times were met.

Samples R93/02277-001, 014, and 016 were analyzed at dilutions to bring target analytes within the calibration range of the method.

The Chloroethylvinylether results have been flagged with a "J" as being estimated due to very erratic results obtained from the GC purge and trap system. None has been detected in any of the samples.

No other analytical or QC problems were encountered.

General Testing Corporation

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

GTC REPORT #: R93/02277

Sample Reference: Bldg. 200 Quarterly Monitoring

ANALYTICAL DATA

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data herein.

Units: Organics = ug/l

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

(X) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 9/86.

( ) Other:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: 29 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-001	-002	-003	-004	-005	-006	-007	-008
Location:	B19-SR	B19-DR	B26-A	B26-A DUPLICATE	B26-SR	B26-IR	B29-A	B29-SR
Date Collected:	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93
Time Collected:	10:05	10:10	10:55	10:55	11:00	11:05	12:45	12:50
Date Analyzed:	06/23/93	06/23/93	06/18/93	06/18/93	06/19/93	06/21/93	06/21/93	06/21/93
Dilution:	100	1	1	1	1	1	1	1
Chloromethane	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	190	2.3	1.0 U	1.0 U	31	6.0	1.0 U	1.5
1,2-Dichloroethene(Cis&Trans)	130	2.9	1.0 U	1.0 U	5.4	1.0 U	1.0 U	1.0 U
Chloroform	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene-Trans	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	910	52	1.0 U	1.0 U	26	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (Cis)	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethylvinyl Ether	200 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Bromoform	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	19000	53	1.0 U	1.0 U	85	1.0 U	1.0 U	1.0 U
Chlorobenzene	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Xylene (o,m,p)	200 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Volatiles	20230	110.2	ND	ND	147.4	6.0	ND	1.5

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: JUNE 29 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-001	-002	-003	-004	-005	-006	-007	-008
Location:	B19-SR	B19-DR	B26-A	B26-A DUPLICATE	B26-SR	B26-IR	B29-A	B29-SR
Date Collected:	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93	06/16/93
Time Collected:	10:05	10:10	10:55	10:55	11:00	11:05	12:45	12:50
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane (Acceptance Limits: 60-138%)	68	68	84	80	65	70	80	70
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-140%)	79	72	80	77	80	83	85	73
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	92	83	89	87	85	87	89	86

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: 29 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-009	-010	-011	-012	-013	-014	-015	-016
Location:	B29-IR	EQUIPMENT BLANK	SR-200-5	EQUIPMENT BLANK	SR-200-2	SR-200-1	SR-200-4	SR-200-3
Date Collected:	06/16/93	06/16/93	06/16/93	06/16/93	06/17/93	06/17/93	06/17/93	06/17/93
Time Collected:	12:55	13:45	13:35	13:55	04:50	05:02	05:10	15:20
Date Analyzed:	06/22/93	06/22/93	06/21/93	06/22/93	06/22/93	06/24/93	06/22/93	06/24/93
Dilution:	1	1	1	1	1	1000	1	250
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5000 U	5.0 U	1300 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5000 U	5.0 U	1300 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
Methylene Chloride	1.2 B	1.0 B	1.0 U	1.0 U	1.0 U	1000 U	1.5 B	250 U
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
1,1-Dichloroethane	6.3	1.0 U	22	1.0 U	1.0 U	1000 U	1.0 U	250 U
1,2-Dichloroethene(Cis&Trans)	1.0 U	1.0 U	63	1.0 U	1.0 U	1000 U	1.0 U	250 U
Chloroform	1.0 U	1.1	1.0 U	1.1	1.0	1000 U	1.0 U	250 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
Carbon Tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
1,3-Dichloropropene-Trans	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
Trichloroethene	1.0 U	1.0 U	12	1.0 U	1.0 U	1000 U	1.0 U	250 U
1,3-Dichloropropene (Cis)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1000 U	1.0 U	250 U
Dibromochloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2000 UJ	2.0 UJ	500 UJ
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
Tetrachloroethene	1.0 U	1.0 U	3.1	1.0 U	1.0 U	210000	5.7	44000
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
1,3-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
1,2-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
1,4-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	3.9	500 U
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.8	500 U
Ethylbenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
Total Xylene (o,m,p)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2000 U	2.0 U	500 U
Total Volatiles	6.3	1.1	100.1	1.1	1.0	210000	12.4	44000

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: JUNE 29 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-009	-010	-011	-012	-013	-014	-015	-016
Location:	B29-IR	EQUIPMENT BLANK	SR-200-5	EQUIPMENT BLANK	SR-200-2	SR-200-1	SR-200-4	SR-200-3
Date Collected:	06/16/93	06/16/93	06/16/93	06/16/93	06/17/93	06/17/93	06/17/93	06/17/93
Time Collected:	12:55	13:45	13:35	13:55	04:50	05:02	05:10	15:20
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane (Acceptance Limits: 60-138%)	74	85	72	84	87	88	69	81
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-140%)	89	77	90	77	75	89	75	80
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	93	93	93	89	91	99	79	91

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: 29 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-017						
Location:	TRIP BLANK						
Date Collected:	06/16/93						
Time Collected:	07:15						
Date Analyzed:	06/23/93						
Dilution:	1						
Chloromethane	5.0 U						
Bromomethane	5.0 U						
Vinyl Chloride	2.0 U						
Chloroethane	2.0 U						
Methylene Chloride	1.0 U						
Trichlorofluoromethane	1.0 U						
1,1-Dichloroethene	1.0 U						
1,1-Dichloroethane	1.0 U						
1,2-Dichloroethene(Cis&Trans)	1.0 U						
Chloroform	1.0						
1,2-Dichloroethane	1.0 U						
1,1,1-Trichloroethane	1.0 U						
Carbon Tetrachloride	1.0 U						
Bromodichloromethane	1.0 U						
1,2-Dichloropropane	1.0 U						
1,3-Dichloropropene-Trans	2.0 U						
Trichloroethene	1.0 U						
1,3-Dichloropropene (Cis)	1.0 U						
Dibromochloromethane	2.0 U						
1,1,2-Trichloroethane	2.0 U						
2-Chloroethylvinyl Ether	2.0 UJ						
Bromoform	2.0 U						
1,1,2,2-Tetrachloroethane	2.0 U						
Tetrachloroethene	1.0 U						
Chlorobenzene	2.0 U						
1,3-Dichlorobenzene	2.0 U						
1,2-Dichlorobenzene	2.0 U						
1,4-Dichlorobenzene	2.0 U						
Benzene	2.0 U						
Toluene	2.0 U						
Ethylbenzene	2.0 U						
Total Xylene (o,m,p)	2.0 U						
Total Volatiles	1.0						

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: JUNE 29 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-017
Location:	TRIP BLANK
Date Collected:	06/16/93
Time Collected:	07:15

SURROGATE STANDARD RECOVERIES	
% Recovery	
Bromochloromethane (Acceptance Limits: 60-138%)	76
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-140%)	75
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	82

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

GTC REPORT #: R93/02277

Sample Reference: Bldg. 200 Quarterly Monitoring

LABORATORY QUALITY CONTROL

Presented in this section is Quality Control Associated with the analytical data of this report.

Quality Control Explanations:

(1) RUN QUALITY CONTROL - Selected QC data from the analytical run in which your sample(s) were involved.

(2) JOB SPECIFIC QUALITY CONTROL - QC data specific to your set of samples.

(3) DUPLICATES - Replicate analyses of a given sample used to monitor precision. Relative Percent Difference is calculated as the difference divided by the average x 100.

(4) MATRIX SPIKES - Addition of a known amount of analyte to a sample. Recovery is calculated by subtracting original value attributable to the sample from the combined value. The difference is then divided by the amount added to calculate % recovery. Poor recoveries may indicate analytical interference due to the matrix of the sample. Any other samples of this matrix may also have been affected, high or low as indicated by the % recovery.

(5) LABORATORY CONTAMINANTS - Laboratory De-ionized water used to monitor for contamination during analysis.

(6) BLANK SPIKES - Same as item #4 but analyte is added to laboratory de-ionized water. This indicates the accuracy of analysis.

(7) REFERNCE CHECK SAMPLES - Samples from an outside source having a known concentration of analyte. Used as a measure of analytical accuracy.

When possible, all components of the above listed QC protocol are performed during an analytical run. The resulting data is compared to historical records when evaluating the quality of analytical runs. The data provided in your report has passed our Quality Assurance review.

Quality Control Notes:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: 29 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:	-018	-019	-020	-021				
Location:	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK				
Date Collected:	--	--	--	--				
Time Collected:	--	--	--	--				
Date Analyzed:	06/18/93	06/21/93	06/22/93	06/23/93				
Dilution:	1	1	1	1				
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U				
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U				
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U				
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U				
Methylene Chloride	1.0 U	1.0 U	2.5	1.0 U				
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U				
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U				
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U				
1,2-Dichloroethene(Cis&Trans)	1.0 U	1.0 U	1.0 U	1.0 U				
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U				
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U				
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U				
Carbon Tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U				
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U				
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U				
1,3-Dichloropropene-Trans	2.0 U	2.0 U	2.0 U	2.0 U				
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U				
1,3-Dichloropropene (Cis)	1.0 U	1.0 U	1.0 U	1.0 U				
Dibromochloromethane	2.0 U	2.0 U	2.0 U	2.0 U				
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U				
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ				
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U				
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U				
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U				
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U				
1,3-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U				
1,2-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U				
1,4-Dichlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U				
Benzene	2.0 U	2.0 U	2.0 U	2.0 U				
Toluene	2.0 U	2.0 U	2.0 U	2.0 U				
Ethylbenzene	2.0 U	2.0 U	2.0 U	2.0 U				
Total Xylene (o,m,p)	2.0 U	2.0 U	2.0 U	2.0 U				
Total Volatiles	ND	ND	2.5	ND				

ND - Not Detectable

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02277 Date: JUNE 29 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Bldg. 200 Quarterly Monitoring

Collected : 06/16-17/93 P.O. #: C6446868

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-018	-019	-020	-021
Location:	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK
Date Collected:	--	--	--	--
Time Collected:	--	--	--	--
SURROGATE STANDARD RECOVERIES				
% Recovery				
Bromochloromethane (Acceptance Limits: 60-138%)	80	86	88	76
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-140%)	87	85	98	83
a,a,a-Trifluorotoluene (Acceptance Limits: 60-134%)	90	91	92	93

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

3A - WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No. : R93/02277 -001

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENT. (ug/l)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	4950	0	3960	80	28-167
Trichloroethene	4850	908	5260	90	35-146
Benzene	5100	0	4250	83	39-150
Toluene	5250	0	4440	85	46-148
Chlorobenzene	5600	0	4900	88	38-150

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	4950	3430	69	14	30	28-167
Trichloroethene	4850	4210	68	22	30	35-146
Benzene	5100	3970	78	7	30	39-150
Toluene	5250	4060	77	9	30	46-148
Chlorobenzene	5600	4740	85	3	30	38-150

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA-1
NYSDEC B-85

General Testing Corporation

A Full Service Environmental Laboratory

3A - WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No. : R93/02277 -011

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENT. (ug/l)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	19.8	0	19.4	98	28-167
Trichloroethene	19.4	12.4	29.7	89	35-146
Benzene	20.4	0	17.4	86	39-150
Toluene	21.0	0	18.7	89	46-148
Chlorobenzene	22.4	0	20.9	93	38-150

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	19.8	19.0	96	2	30	28-167
Trichloroethene	19.4	31.9	101	7	30	35-146
Benzene	20.4	17.8	87	2	30	39-150
Toluene	21.0	18.8	90	1	30	46-148
Chlorobenzene	22.4	21.6	96	3	30	38-150

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA-1
NYSDEC B-85

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Job No: R93/02277

Date: 29 JUNE, 1993

EPA METHOD 8010/8020	REFERENCE CHECK TRUE VALUE	% RECOVERY	ACCEPTANCE LIMITS (%)
Date Analyzed: 06/21/93			
Chloromethane	20	125	D - 193
Bromomethane	20	90	D - 144
Vinyl Chloride	20	96	28 - 163
Chloroethane	20	104	46 - 137
Methylene Chloride	20	100	25 - 162
Trichlorofluoromethane	20	72	21 - 156
1,1-Dichloroethene	20	94	28 - 167
1,1-Dichloroethane	20	80	47 - 132
Total 1,2-Dichloroethene	20	96	38 - 155
Chloroform	20	96	49 - 133
1,2-Dichloroethane	20	100	51 - 147
1,1,1-Trichloroethane	20	103	41 - 138
Carbon Tetrachloride	20	100	43 - 143
Bromodichloromethane	20	87	42 - 172
1,2-Dichloropropane	20	105	44 - 156
1,3-Dichloropropene-Trans	20	NA	22 - 178
Trichloroethene	20	104	35 - 146
1,3-Dichloropropene(Cis)	20	101	22 - 178
Dibromochloromethane	20	124	24 - 191
1,1,2-Trichloroethane	20	NA	39 - 136
2-Chloroethylvinyl Ether	20	NA	14 - 186
Bromoform	20	72	13 - 159
1,1,2,2-Tetrachloroethane	20	NA	8 - 184
Tetrachloroethene	40	111	26 - 162
Chlorobenzene	40	101	38 - 150
1,3-Dichlorobenzene	40	97	7 - 187
1,2-Dichlorobenzene	40	83	D - 208
1,4-Dichlorobenzene	40	95	42 - 143
Benzene	20	87	39 - 150
Toluene	20	92	46 - 148
Ethylbenzene	20	91	32 - 160
Total Xylene (o,m,p)	20	91	45 - 148

NA - Not Added

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Job No: R93/02277

Date: 29 JUNE, 1993

EPA METHOD 8010/8020	REFERENCE CHECK TRUE VALUE	% RECOVERY	ACCEPTANCE LIMITS (%)
Date Analyzed: 06/24/93			
Chloromethane	20	108	D - 193
Bromomethane	20	74	D - 144
Vinyl Chloride	20	76	28 - 163
Chloroethane	20	82	46 - 137
Methylene Chloride	20	78	25 - 162
Trichlorofluoromethane	20	66	21 - 156
1,1-Dichloroethene	20	77	28 - 167
1,1-Dichloroethane	20	70	47 - 132
Total 1,2-Dichloroethene	20	81	38 - 155
Chloroform	20	80	49 - 133
1,2-Dichloroethane	20	92	51 - 147
1,1,1-Trichloroethane	20	86	41 - 138
Carbon Tetrachloride	20	86	43 - 143
Bromodichloromethane	20	78	42 - 172
1,2-Dichloropropane	20	88	44 - 156
1,3-Dichloropropene-Trans	20	NA	22 - 178
Trichloroethene	20	84	35 - 146
1,3-Dichloropropene(Cis)	20	80	22 - 178
Dibromochloromethane	20	108	24 - 191
1,1,2-Trichloroethane	20	NA	39 - 136
2-Chloroethylvinyl Ether	20	NA	14 - 186
Bromoform	20	74	13 - 159
1,1,2,2-Tetrachloroethane	20	NA	8 - 184
Tetrachloroethene	40	93	26 - 162
Chlorobenzene	40	86	38 - 150
1,3-Dichlorobenzene	40	88	7 - 187
1,2-Dichlorobenzene	40	82	D - 208
1,4-Dichlorobenzene	40	82	42 - 143
Benzene	20	80	39 - 150
Toluene	20	83	46 - 148
Ethylbenzene	20	82	32 - 160
Total Xylene (o,m,p)	20	83	45 - 148

NA - Not Added

General Testing Corporation

GTC REPORT #: R93/02277

Sample Reference: Bldg. 200 Quarterly Monitoring

FIELD DOCUMENTATION

Presented in this section is all support documentation requested.

Documentation Provided:

(X) Chain of Custody Forms

( ) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

(X) Other: Field Forms

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. R93/2277

Client Project No. _____

Sample Origination & Shipping Information

Collection Site Xerox Bldg 209

Address _____ Street _____ City _____ State _____ Zip _____

Collector Bob Urban (Print) _____ (Signature)

Bottles Prepared by GTC Rec'd by GTC

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Bob Urban for GTC	1. Sign for	6/16/93 1504
2. Sign for	2. Sign for	
3. Sign for	3. Sign for	

Sample(s) Received in Laboratory by _____ 6/17/93 @ 07:00

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	1+QC / R93/2277-001	B19-SR / 6/16/93 10:05	W	BCH/BDCO	Y			N	1 (x2)
2	2 / -002	B-19-IR / 6/16/93 10:10	W						1
3	3+4 / -003, -004	B-26-A / 6/16/93 10:55	W						1, 1
4	5 / -005	B-26-SR / 6/16/93 11:00	W						1
5	6 / -006	B26-IR / 6/16/93 11:05	W						

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Ster. Pl.		
# of each	2										

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. R93/2277 Client Project No. _____

Sample Origination & Shipping Information

Collection Site Xerox Bldg 200

Address _____

Collector Street Bob City Urban State _____ Zip _____

Print _____ Signature _____

Bottles Prepared by GTC Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign _____	1. Sign _____	
for GTC	for _____	
2. Sign _____	2. Sign _____	
for _____	for _____	
3. Sign _____	3. Sign _____	
for _____	for _____	

Sample(s) Received in Laboratory by _____ 6 17 93 @ 07:00

	Client I.D. # / Lab #	Sample Location / Date Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	7 / R93/2277-007	B29-A / 6/16/93 12:45	W	B 200/300	Y			N N	1
2	8 / -008	B29-SR / 6/16/93 12:50	W						
3	9 / -009	B29-IR / 6/16/93 12:55	W						
4	10 / -010	EQUIPMENT BLANK - STAINLESS CUP / 6/16/93 13:45	X						
5	11+QC / -011	SR-200-5 / 6/16/93 13:35	W						

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl	Gal Pl	Sterile Pl	
# of each	2									

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. R93/2277
Client Project No. ________

Sample Origination & Shipping Information
Collection Site: XEROX BLDG 200
Address: ________ Street ________ City ________ State ________ Zip ________
Collector: BOB URBAN (Print) ________ (Signature)

Bottles Prepared by: GTC   Rec'd by: GTC
Bottles Shipped to Client via: ________   Seal/Shipping #: ________
Samples Shipped via: ________   Seal/Shipping #: ________

Sample(s) Relinquished by:	Received by:	Date Time
1. Sign (signature)	1. Sign	6/17/93 7:00
for GTC	for	
2. Sign	2. Sign	
for	for	
3. Sign	3. Sign	
for	for	

Sample(s) Received in Laboratory by: (signature) 6 17 93 @ 07:00

	Client I.D. # / Lab #	Sample Location / Date Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y N	Filtered Y N	Bottle Set(s) (see below)
1	12 / R93/2277-012	EQUIPMENT BLANK BAILER / 6/16/93 13:55	X	502/503.1C	Y	N	1
2	13 / -013	SR 200-2 / 6 17 93 : 4 50	W	↓	↓	↓	↓
3	14 / -014	SR 200-1 / 6 17 93 : 5 02	↓	↓	↓	↓	↓
4	15 / -015	SR 200-4 / 6 17 93 : 5 10	↓	↓	↓	↓	↓
5	16 / -016	SR 200-3 / 6 17 93 : 5 20	↓	↓	↓	↓	↓

*Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.	
# of each	2									

Additional Analytes ________

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), ________ (X), ________ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

10 Exchange Street Rochester, NY 14608	85 Trinity Place Hackensack, NJ 07601	435 Lawrence Bell Drive Amherst, NY 14221-7077	GTC Job. No. 1293/2277 Client Project No.

Sample Origination & Shipping Information

Collection Site XEROX BLDG 200

Address

Collector BOB ORBAN (Print) — Street — City — State — Zip — Bob Orban (Signature)

Bottles Prepared by GTC — Rec'd by

Bottles Shipped to Client via — Seal/Shipping #

Samples Shipped via — Seal/Shipping #

Sample(s) Relinquished by:	Received by:	Date Time
1. Sign Bob Orban	1. Sign	6/17/93
for GTC	for	7:00
2. Sign	2. Sign	
for	for	
3. Sign	3. Sign	
for	for	

Sample(s) Received in Laboratory by — 6/17/93 @ 0730

	Client I.D. # / Lab #	Sample Location / Date Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	17 1293/2277 -017	TRIP BLANK 6 16 93 : 715	X	SCIC 502-C	X			X	1
2		/ :							
3		/ :							
4		/ :							
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril Pl.	
# of each	2									

Additional Analytes

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: XEROX BLDG 200 Job Number: R93/2077

Well I.D.: B-19 SR Lab Number: 1+QC

PURGE INFORMATION Purge Method: FOOT PUMP

Well Depth (ft): 20.20

Static Water Level (ft): 11.62

Depth of Water Column (gal/ft)x: 8.58

Well Constant (gal/ft)x: 0.16

Volume standing in well: 1.4 gallons

HNU Meter Reading
Well Head: BG
Breathing Zone: BG

Start of Purge: Date 6/16/93 Time 09:40 End Purge 09:42

Purge Observations: RUST-TAN TINT

Total Volume Purged: 1.5 gallons # of Volume Casings Purged: 1VOL DLY

SAMPLING INFORMATION Sample Method: TEFLON BAILER

Sample Date: 6/16/93 Time: 10:05 Sample Depth: 11.62 ft.

Sample Appearance: RUST-TAN

Recharge Time: 23 MIN Recharge Rate: M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.81	7.83
COLE/PALMER	Spec. Cond.	umhos/cm	1620	1620
BECKMAN	Temp	°Celsius	15.1	15.2

Crew Members: FJU, BT

Meter Calibration: Date/Time 6/16/93 10:00 PH 7.01, 10.03, 4.01 COND = 1410

Weather 48 Hour History: SUNNY 80°, CLOUDY RAIN SHOWERS

FIELD OBSERVATIONS: Weather SUNNY 70°F 10-15 MPH WINDS

WELL LOCKED AND IN GOOD CONDITION

'v that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

'Print) BOB URBAN

_/16/93 Signature Bob Urban

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX Bldg. 200 Job Number R93/2277

Well I.D. B-19 DR Lab Number 2

PURGE INFORMATION

Purge Method FOG1 PUMP STAINLESS STEEL BAILER

Well Depth (ft) 60.28

Static Water Level (ft) 10.42

Depth of Water Column (gal/ft)x 49.86

Well Constant (gal/ft)x 0.16

Volume standing in well 8.0 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 6/16/93 Time 09:45 End Purge 09:55

Purge Observations CLEAR TO LIGHT TAN TINT

Total Volume Purged 12 gallons # of Volume Casings Purged 1.5 DRY

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6/16/93 Time: 10:10 Sample Depth: 49.37 ft.

Sample Appearance: LIGHT RUST-TAN TINT

Recharge Time 15 MIN Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	8.26	8.28
CORE/PALMER	Spec. Cond.	umhos/cm	4000	4000
BECKMAN	Temp	°Celsius	14.8	14.7

Crew Members RJU, BT

Meter Calibration: Date/Time 6/16/93 10:00

Weather 48 Hour History SUNNY 80°F, CLOUDY RAIN SHOWER

FIELD OBSERVATIONS: Weather SUNNY 70°F 10-15 MPH WINDS
WELL LOCKED AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BOB URBAN

Date: 6/16/93 Signature Bob Urban

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: XEROX BLDG 200 Job Number: 293/2277

Well I.D.: B-26-A Lab Number: 3+4

6/16/93

PURGE INFORMATION Purge Method: FOGI PUMP

Well Depth (ft): 16.72

Static Water Level (ft): 4.79

Depth of Water Column (gal/ft)x: 11.93

Well Constant (gal/ft)x: 0.16

Volume standing in well: 1.9 gallons

HNU Meter Reading
Well Head: BG
Breathing Zone: BG

Start of Purge: Date 6/16/93 Time 10:30 End Purge 10:32

Purge Observations: TAN TINT

Total Volume Purged: 2.0 gallons # of Volume Casings Purged: 1 VOL DIA

SAMPLING INFORMATION Sample Method: TEFLON BAILER

Sample Date: 6/16/93 Time: 10:55 Sample Depth: 11.32 ft.

Sample Appearance: GREY TINT

Recharge Time: 23 MIN Recharge Rate: S

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.91	7.92
CORE/PALINTRO	Spec. Cond.	umhos/cm	2700	2740
BECKMAN	Temp	°Celsius	14.5	14.5

Crew Members: ROD, BT

Meter Calibration: Date/Time 6/16/93 10:00

Weather 48 Hour History: SUNNY 80°, P. CLOUDY, RAIN SHOWERS

FIELD OBSERVATIONS: Weather: SUNNY 70°F 10-15 MPH WIND

WELL LOCATED AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print): BOB URBAN

Date: 6/16/93 Signature: Bob Urban

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number R93/227

Well I.D. B-26-SR Lab Number 5

PURGE INFORMATION Purge Method FOC-1 PUMP

Well Depth (ft) 20.20

Static Water Level (ft)— 5.80

Depth of Water Column (gal/ft)x 14.4

Well Constant (gal/ft)x 0.16

Volume standing in well 2.3 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 6/16/93 Time 10 : 33 End Purge 10 : 35

Purge Observations TAN TINT

Total Volume Purged 5 gallons # of Volume Casings Purged 2 VOL DISP

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6/16/93 Time: 11 : 00 Sample Depth: 10.31 ft.

Sample Appearance: RUST-TAN

Recharge Time 25 MIN Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.79	7.78
CORE/PALMER	Spec. Cond.	umhos/cm	2200	2200
BECKMAN	Temp	°Celsius	13.8	13.9

Crew Members RJU, BT

Meter Calibration: Date/Time 6/16/93 10 : 00

Weather 48 Hour History SUNNY 80°F, P. CLOUDY RAIN STORMS

FIELD OBSERVATIONS: Weather SUNNY 70°F 10-15 MPH WINDS

WELL LOCKED AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BOB URBAN

Date: 6/16/93 Signature Bob Urban

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number R93/22.72

Well I.D. B-26-IR Lab Number 60

PURGE INFORMATION

Purge Method FLOW PUMP / STAINLESS STEEL BAILER

Well Depth (ft) 40.20

Static Water Level (ft) 6.02

Depth of Water Column (gal/ft)x 34.18

Well Constant (gal/ft)x 0.16

Volume standing in well 5.5 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 6/16/93 Time 10:36 End Purge 10:45

Purge Observations RUST-BROWN

Total Volume Purged 7 gallons # of Volume Casings Purged 1.2 DIA

SAMPLING INFORMATION

Sample Method TEFLON BAILER

Sample Date: 6/16/93 Time: 11:05 Sample Depth: 25.72 ft.

Sample Appearance: RUST-BROWN

Recharge Time 20 MIN Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	8.85	8.83
COLE/PARMER	Spec. Cond.	umhos/cm	1490	1500
BECKMAN	Temp	°Celsius	14.5	14.5

Crew Members RJU, BT

Meter Calibration: Date/Time 6/16/93 10:00

Weather 48 Hour History SUNNY EXCEPT / PT. CLOUDY RAIN SHOWERS

FIELD OBSERVATIONS: Weather SUNNY 70°F 0-15 MPH WIND

WELL LOCKED AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BOB URBAN

Date: 6/16/93 Signature [signature]

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number 293/2277

Well I.D. B29-A Lab Number 7

PURGE INFORMATION Purge Method FLEX PUMP

Well Depth (ft) 22.78

Static Water Level (ft) 9.09

Depth of Water Column (gal/ft)x 13.69

Well Constant (gal/ft)x 0.16

Volume standing in well 2.2 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 6/16/93 Time 12:15 End Purge 12:17

Purge Observations CLEAR + ANY TINT

Total Volume Purged 2.5 gallons # of Volume Casings Purged 1.1 DRY

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6/16/93 Time: 12:45 Sample Depth: 17.73 ft.

Sample Appearance: CLEAR

Recharge Time 27 MIN Recharge Rate .5

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	8.69	8.72
CORNING	Spec. Cond.	umhos/cm	500	505
BECKMAN	Temp	°Celsius	12.8	12.9

Crew Members RJW, BT

Meter Calibration: Date/Time 6/16/93 12:36 7.01, 10.04, 4.00 COND=1410

Weather 48 Hour History SUNNY 80°F, P. CLOUDY RAIN SHOWERS

FIELD OBSERVATIONS: Weather SUNNY 70°F 10-15 MPH WINDS, WELL LOCKED AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BOB CLARK

Date: 6/16/93 Signature Bob Clark

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: XEROX BLDG. 200 Job Number: 293/2277

Well I.D.: B29-5R Lab Number: 8

PURGE INFORMATION Purge Method: FLOW PUMP

Well Depth (ft): 30.27

Static Water Level (ft): 10.66

Depth of Water Column (gal/ft)x: 19.56

Well Constant (gal/ft)x: 0.16

Volume standing in well: 3.1 gallons

HNU Meter Reading
Well Head: BG
Breathing Zone: BG

Start of Purge: Date 6/16/93 Time 12:20 End Purge 12:23

Purge Observations: TAN TINT

Total Volume Purged: 5 gallons # of Volume Casings Purged: 1.3 DRY

SAMPLING INFORMATION Sample Method: TEFLON BAILER

Sample Date: 6/16/93 Time: 12:50 Sample Depth: 23.18 ft

Sample Appearance: CLEAR

Recharge Time: 27 MIN Recharge Rate: S

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.92	7.90
COLE/PALMER	Spec. Cond.	umhos/cm	540	580
BECKMAN	Temp	°Celsius	12.8	12.9

Crew Members: RJC, BT

Meter Calibration: Date/Time 6/16/93 12:30

Weather 48 Hour History: SUNNY 80°F, PT CLOUDY RAIN SHOWERS

FIELD OBSERVATIONS: Weather: SUNNY 70°F 10-15 MPH WINDS

WELL LOCKED AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print): BOB CRAIN

Date: 6/16/93 Signature: Bob Crain

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 205 Job Number 093/2377

Well I.D. B29-IER Lab Number 9

PURGE INFORMATION

Purge Method FIXED PUMP / STAINLESS STEEL BAILER

Well Depth (ft) 50.24

Static Water Level (ft) 10.88

Depth of Water Column (gal/ft)x 39.36

Well Constant (gal/ft)x 0.16

Volume standing in well 6.3 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 6/16/93 Time 12 :25 End Purge 12 :40

Purge Observations RUST - THIN TINT

Total Volume Purged 9 gallons # of Volume Casings Purged 1.5 DIA

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6/16/93 Time: 12 :55 Sample Depth: 40.31 ft.

Sample Appearance: RUST - BROWN

Recharge Time 15 min Recharge Rate M

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	9.00	9.00
CHEMETRICS	Spec. Cond.	umhos/cm	1100	1120
BECKMAN	Temp	°Celsius	13.8	13.7

Crew Members RJW, BT

Meter Calibration: Date/Time 6/16/93 12 :30

Weather 48 Hour History SUNNY 80, CLOUDY RAIN SHOWERS

FIELD OBSERVATIONS: Weather SUNNY 70°F 10-15 MPH WINDS

WELL LOCKED AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BOB URBAN

Date: 6/16/93 Signature Bob Urban

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XENOX BLDG. DCC Job Number 293/2277

Well I.D. EQUIPMENT BLANK - SAMPLE CLIP Lab Number 10

PURGE INFORMATION Purge Method

Well Depth (ft)

Static Water Level (ft)—

Depth of Water Column (gal/ft)x

Well Constant (gal/ft)x

Volume standing in well gallons

HNU Meter Reading

Well Head

Breathing Zone

Start of Purge: Date / / Time : End Purge :

Purge Observations

Total Volume Purged gallons # of Volume Casings Purged

SAMPLING INFORMATION Sample Method - GRAB SAMPLE CLIP

Sample Date: 6/16/93 Time: 13 : 45 Sample Depth: ft.

Sample Appearance: CLEAR

Recharge Time Recharge Rate

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	6.91	6.95
COLE-PARMER	Spec. Cond.	umhos/cm	12.5	12.0
BECKMAN	Temp	°Celsius	18.4	18.5

Crew Members RJU, BT

Meter Calibration: Date/Time 6/16/93 12:30

Weather 48 Hour History

FIELD OBSERVATIONS: Weather SUNNY 75°F

SAMPLE TAKEN BY ROLLING DI FROM CLEAN OUTER SAMPLE CLIP, INTO BOTH SAMPLE VIALS

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) BOB URBAN

Date: 6/16/93 Signature

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: XEROX BLDG 200 — Job Number: R93/2277
Well I.D.: SR-200-5 — Lab Number: 11 +QC

PURGE INFORMATION — Purge Method: FOCH PUMP

Well Depth (ft): 13.25
Static Water Level (ft)—: 9.71
Depth of Water Column (gal/ft)x: 3.54
Well Constant (gal/ft)x: 0.16
Volume standing in well: .56 gallons

HNU Meter Reading
Well Head: BG
Breathing Zone: BG

Start of Purge: Date 6/16/93 Time 13:25 End Purge 13:28
Purge Observations: RUST - BROWN
Total Volume Purged: 1.6 gallons — # of Volume Casings Purged: 3

SAMPLING INFORMATION — Sample Method: TEFLON BAILER
Sample Date: 6/16/93 Time: 13:35 Sample Depth: 9.77 ft.
Sample Appearance: RUST - BROWN
Recharge Time: 7 MIN Recharge Rate: F

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	Replicates 2
BECKMAN	pH	stnd	7.50	7.53
COLE/PARMER	Spec. Cond.	umhos/cm	1560	1556
BECKMAN	Temp	°Celsius	18.6	18.5

Crew Members: RJU, BT
Meter Calibration: Date/Time 6/16/93 12:30
Weather 48 Hour History: SUNNY 80°F ; P. CLOUDY RAIN SHOWERS

FIELD OBSERVATIONS: Weather SUNNY 75°F
WATER IN ANNULUS

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print): BOB URBA

Date: 6/16/93 Signature: Bob Urba

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location: XEROX BLDG-200 Job Number: E93/2077

Well I.D.: EQUIPMENT BLANK Lab Number: 12

PURGE INFORMATION Purge Method: ---

Well Depth (ft): ---

Static Water Level (ft): ---

Depth of Water Column (gal/ft)x: ---

Well Constant (gal/ft)x: ---

Volume standing in well: ---gallons

HNU Meter Reading

Well Head: ---

Breathing Zone: ---

Start of Purge: Date: ---/---/--- Time: ---:--- End Purge: ---:---

Purge Observations: ---

Total Volume Purged: ---gallons # of Volume Casings Purged: ---

SAMPLING INFORMATION Sample Method: GRAB - TEFLON BAILER

Sample Date: 6/16/93 Time: 13:55 Sample Depth: ---ft.

Sample Appearance: CLEAR

Recharge Time: --- Recharge Rate: ---

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	6.95	6.97
CIBA/CORNING	Spec. Cond.	umhos/cm	12.0	12.8
BECKMAN	Temp	°Celsius	18.4	19.5

Crew Members: RJW, BT

Meter Calibration: Date/Time 6/16/93 12:30

Weather 48 Hour History: ---

FIELD OBSERVATIONS: Weather SUNNY 75°F 10-15 MPH WINDS SAMPLE TAKEN BY ROBERT DE FILLIPS OF CARLSON INTO A TEFLON BAILER, THEN INTO EACH SAMPLE VIAL.

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print): BOB OKRAN

Date: 6/16/93 Signature: Bob Okran

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number R93/2277

Well I.D. SIR 200-2 Lab Number 13

PURGE INFORMATION Purge Method SS BAILER

Well Depth (ft) 22.20

Static Water Level (ft)— 13.12

Depth of Water Column (gal/ft)x 9.08

Well Constant (gal/ft)x .16

Volume standing in well 1.45 gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date 6 / 17 / 93 Time 4 : 39 End Purge 4 : 46

Purge Observations RUST TINT, HIGHLY TURBID

Total Volume Purged 3 gallons # of Volume Casings Purged 2 TO DRY

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6 / 17 / 93 Time: 4 : 50 Sample Depth: 17.56 ft

Sample Appearance: RUST TINT, HIGHLY TURBID

Recharge Time 4 MINS Recharge Rate MEDIUM

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.48	7.44
COLE PARMER	Spec. Cond.	umhos/cm	970	970
BECKMAN	Temp	°Celsius	21.6	21.6

Crew Members CC, BT

Meter Calibration: Date/Time 6 / 17 / 93 4 : 45 pH = 7.03, 10.04, 4.02 SC = 1410

Weather 48 Hour History 80°F, LIGHT RAIN/SUNNY, 75°F, P. CLOUDY

FIELD OBSERVATIONS: Weather WELL INSIDE

WELL COVERED, LOCKED, AND IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Condes

Date: 6 / 17 / 93 Signature Chfld

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG. 200 Job Number R93/2277

Well I.D. SR 200-1 Lab Number 14

PURGE INFORMATION

Purge Method

Well Depth (ft)

Static Water Level (ft)—

Depth of Water Column (gal/ft)x

Well Constant (gal/ft)x

Volume standing in well gallons

HNU Meter Reading

Well Head 0-12.5 PPM

Breathing Zone BG

Start of Purge: Date / / Time : End Purge :

Purge Observations

Total Volume Purged gallons # of Volume Casings Purged

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6/17/93 Time: 5:02 Sample Depth: — ft.

Sample Appearance: RUST TINT, HIGHLY TURBID

Recharge Time — Recharge Rate —

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.94	7.95
COLE PARMER	Spec. Cond.	umhos/cm	1170	1150
BECKMAN	Temp	°Celsius	19.9	19.9

Crew Members CC, BT

Meter Calibration: Date/Time 6/17/93 4:45

Weather 48 Hour History 80°F, LIGHT RAIN, SUNNY / 75°F, P. CLOUDY

FIELD OBSERVATIONS: Weather WELL INSIDE

WELL CONNECTED TO VES. WELL IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Cordes

Date: 6/17/93 Signature

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG. 200 Job Number R93/2277

Well I.D. SR 200-4 Lab Number 15

PURGE INFORMATION Purge Method

Well Depth (ft)

Static Water Level (ft)—

Depth of Water Column (gal/ft)x

Well Constant (gal/ft)x

Volume standing in well gallons

HNU Meter Reading
Well Head BG
Breathing Zone BG

Start of Purge: Date / / Time : End Purge :

Purge Observations

Total Volume Purged gallons # of Volume Casings Purged

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6/17/93 Time: 5:10 Sample Depth: — ft.

Sample Appearance: SLIGHT RUST TINT

Recharge Time — Recharge Rate —

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.46	7.49
COLE PARMER	Spec. Cond.	umhos/cm	930	910
BECKMAN	Temp	°Celsius	21.4	21.4

Crew Members CC, BT

Meter Calibration: Date/Time 6/17/93 4:45

Weather 48 Hour History 80°F, LIGHT RAIN, SUNNY / 75°F, SUNNY

FIELD OBSERVATIONS: Weather WELL INSIDE

WELL CONNECTED TO VES. WELL IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Conder

Date: 6/17/93 Signature

GENERAL TESTING CORPORATION
GROUNDWATER MONITORING FIELD FORM

Site Location XEROX BLDG 200 Job Number R93/3277

Well I.D. SR 200-3 Lab Number 16

PURGE INFORMATION Purge Method

Well Depth (ft)

Static Water Level (ft)—

Depth of Water Column (gal/ft)x

Well Constant (gal/ft)x

Volume standing in well gallons

HNU Meter Reading
Well Head BG-2.0
Breathing Zone BG

Start of Purge: Date / / Time : End Purge :

Purge Observations

Total Volume Purged gallons # of Volume Casings Purged

SAMPLING INFORMATION Sample Method TEFLON BAILER

Sample Date: 6/17/93 Time: 5:20 Sample Depth: — ft.

Sample Appearance: RUST TINT, MODERATELY TURBID

Recharge Time — Recharge Rate —

FIELD MEASUREMENTS

Meter Number	Parameter	Unit Stnd.	Replicates 1	2
BECKMAN	pH	stnd	7.84	7.84
COLE PARMER	Spec. Cond.	umhos/cm	1030	1070
BECKMAN	Temp	°Celsius	20.1	20.0

Crew Members CC, BT

Meter Calibration: Date/Time 6/17/93 4:45

Weather 48 Hour History 80°F, LIGHT RAIN, SUNNY / 75°F, P. SUNNY

FIELD OBSERVATIONS: Weather WELL INSIDE

WELL CONNECTED TO VES. WELL IN GOOD CONDITION

I certify that sampling procedures were in accordance with all apllicable EPA, state and corporate protocols.

Sampler (Print) Chris Cordes

Date: 6/17/93 Signature

General Testing Corporation

A Full Service Environmental Laboratory

JUNE 24 1993

Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Re: Xerox - Bldg. 200 Borings
70092-44

Dear Mr. Scott Huber

Enclosed are the results of the analysis requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Sue Lochner
Customer Service Representative

Enc.

cc: Mr. Denis Conley - H&A of New York

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019

General Testing Corporation

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

Sample Reference: Xerox - Bldg. 200 Borings
70092-44

ANALYTICAL DATA

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data herein.

Units: Inorganics = %
Organics = Soils - ug/kg Dry Wt.
Waters - ug/l

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

(X) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 9/86.

( ) Other:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93 P.O. #:

ANALYTICAL UNITS - %

Sample:	-001						
Location:	B-18SR-S7						
Date Collected:	05/25/93						
Time Collected:	14:00						
Date Analyzed:	05/27/93						
Solids, %	90.4						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001
Location:		B-18SR-S7
Date Collected:		05/25/93
Time Collected:	PQL	14:00
Date Analyzed:		06/03/93
Dilution:		5
Chloromethane	5.0	28 U
Bromomethane	5.0	28 U
Vinyl Chloride	2.0	11 U
Chloroethane	2.0	11 U
Methylene Chloride	1.0	19
Trichlorofluoromethane	1.0	5.5 U
1,1-Dichloroethene	1.0	5.5 U
1,1-Dichloroethane	1.0	5.5 U
1,2-Dichloroethene(Cis&Trans)	1.0	5.5 U
Chloroform	1.0	5.5 U
1,2-Dichloroethane	1.0	5.5 U
1,1,1-Trichloroethane	1.0	60
Carbon Tetrachloride	1.0	5.5 U
Bromodichloromethane	1.0	5.5 U
1,2-Dichloropropane	1.0	5.5 U
1,3-Dichloropropene-Trans	2.0	11 U
Trichloroethene	1.0	86
1,3-Dichloropropene (Cis)	1.0	5.5 U
Dibromochloromethane	2.0	11 U
1,1,2-Trichloroethane	2.0	11 U
2-Chloroethylvinyl Ether	2.0	11 U
Bromoform	2.0	11 U
1,1,2,2-Tetrachloroethane	2.0	11 U
Tetrachloroethene	1.0	85
Chlorobenzene	2.0	11 U
1,3-Dichlorobenzene	2.0	11 U
1,2-Dichlorobenzene	2.0	11 U
1,4-Dichlorobenzene	2.0	11 U
Benzene	2.0	11 U
Toluene	2.0	11 U
Ethylbenzene	2.0	11 U
Total Xylene (o,m,p)	2.0	11 U
Total Volatiles		250

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-001						
Location:		B-18SR-S7						
Date Collected:		05/25/93						
Time Collected:	LIMITS	14:00						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	66-128%	69						
1-Chloro-3-Fluorobenzene	50-141%	77						
a,a,a-Trifluorotoluene	55-131%	91						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-002	-003					
Location:		DRILLWATER	TRIP BLANK					
Date Collected:		05/26/93	05/25/93					
Time Collected:	PQL	15:10	NA					
Date Analyzed:		05/27/93	05/27/93					
Dilution:		1	1					
Chloromethane	5.0	5.0 U	5.0 U					
Bromomethane	5.0	5.0 U	5.0 U					
Vinyl Chloride	2.0	2.0 U	2.0 U					
Chloroethane	2.0	2.0 U	2.0 U					
Methylene Chloride	1.0	1.2 B	1.5 B					
Trichlorofluoromethane	1.0	1.0 U	1.0 U					
1,1-Dichloroethene	1.0	1.0 U	1.0 U					
1,1-Dichloroethane	1.0	1.0 U	1.0 U					
1,2-Dichloroethene(Cis&Trans)	1.0	1.0 U	1.0 U					
Chloroform	1.0	22	1.0 U					
1,2-Dichloroethane	1.0	1.0 U	1.0 U					
1,1,1-Trichloroethane	1.0	1.0 U	1.0 U					
Carbon Tetrachloride	1.0	1.0 U	1.0 U					
Bromodichloromethane	1.0	2.8	1.0 U					
1,2-Dichloropropane	1.0	1.0 U	1.0 U					
1,3-Dichloropropene-Trans	2.0	2.0 U	2.0 U					
Trichloroethene	1.0	1.0 U	1.0 U					
1,3-Dichloropropene (Cis)	1.0	1.0 U	1.0 U					
Dibromochloromethane	2.0	2.0 U	2.0 U					
1,1,2-Trichloroethane	2.0	2.0 U	2.0 U					
2-Chloroethylvinyl Ether	2.0	2.0 U	2.0 U					
Bromoform	2.0	2.0 U	2.0 U					
1,1,2,2-Tetrachloroethane	2.0	2.0 U	2.0 U					
Tetrachloroethene	1.0	1.0 U	1.0 U					
Chlorobenzene	2.0	2.0 U	2.0 U					
1,3-Dichlorobenzene	2.0	2.0 U	2.0 U					
1,2-Dichlorobenzene	2.0	2.0 U	2.0 U					
1,4-Dichlorobenzene	2.0	2.0 U	2.0 U					
Benzene	2.0	2.0 U	2.0 U					
Toluene	2.0	2.0 U	2.0 U					
Ethylbenzene	2.0	2.0 U	2.0 U					
Total Xylene (o,m,p)	2.0	2.0 U	2.0 U					
Total Volatiles		24.8	ND					

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93

P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-002	-003				
Location:		DRILLWATER	TRIP BLANK				
Date Collected:		05/26/93	05/25/93				
Time Collected:	LIMITS	15:10	NA				
SURROGATE STANDARD RECOVERIES							
% Recovery							
Bromochloromethane	60-138%	70	91				
1-Chloro-3-Fluorobenzene	60-134%	106	106				
a,a,a-Trifluorotoluene	60-134%	100	99				

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg. 200 Soil Borings #70092-44
CORRECTED COPY

Received : 05/29/93 P.O. #: C6446819

ANALYTICAL UNITS - %

Sample:	-001						
Location:	R200-9-S2						
Date Collected:	05/27/93						
Time Collected:	14:45						
Date Analyzed:	06/01/93						
Solids, %	92.5						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg. 200 Soil Borings #70092-44
CORRECTED COPY

Received : 05/29/93

P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001
Location:		R200-9-S2
Date Collected:		05/27/93
Time Collected:	PQL	14:45
Date Analyzed:		06/04/93
Dilution:		5
Chloromethane	5.0	27 U
Bromomethane	5.0	27 U
Vinyl Chloride	2.0	11 U
Chloroethane	2.0	11 U
Methylene Chloride	1.0	5.4 U
Trichlorofluoromethane	1.0	5.4 U
1,1-Dichloroethene	1.0	5.4 U
1,1-Dichloroethane	1.0	5.4 U
1,2-Dichloroethene(Cis&Trans)	1.0	5.4 U
Chloroform	1.0	5.4 U
1,2-Dichloroethane	1.0	5.4 U
1,1,1-Trichloroethane	1.0	5.4 U
Carbon Tetrachloride	1.0	5.4 U
Bromodichloromethane	1.0	5.4 U
1,2-Dichloropropane	1.0	5.4 U
1,3-Dichloropropene-Trans	2.0	11 U
Trichloroethene	1.0	8.6
1,3-Dichloropropene (Cis)	1.0	5.4 U
Dibromochloromethane	2.0	11 U
1,1,2-Trichloroethane	2.0	11 U
2-Chloroethylvinyl Ether	2.0	11 U
Bromoform	2.0	11 U
1,1,2,2-Tetrachloroethane	2.0	11 U
Tetrachloroethene	1.0	10
Chlorobenzene	2.0	11 U
1,3-Dichlorobenzene	2.0	11 U
1,2-Dichlorobenzene	2.0	11 U
1,4-Dichlorobenzene	2.0	11 U
Benzene	2.0	11 U
Toluene	2.0	11 U
Ethylbenzene	2.0	11 U
Total Xylene (o,m,p)	2.0	11 U
Total Volatiles		18.6

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg. 200 Soil Borings #70092-44
CORRECTED COPY

Received : 05/29/93

P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-001						
Location:		R200-9-S2						
Date Collected:		05/27/93						
Time Collected:	LIMITS	14:45						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	66-128%	77						
1-Chloro-3-Fluorobenzene	50-141%	77						
a,a,a-Trifluorotoluene	55-131%	89						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg. 200 Soil Borings #70092-44
CORRECTED COPY

Received : 05/29/93

P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-002
Location:		TRIP BLANK
Date Collected:		05/27/93
Time Collected:	PQL	NA
Date Analyzed:		06/03/93
Dilution:		1
Chloromethane	5.0	5.0 U
Bromomethane	5.0	5.0 U
Vinyl Chloride	2.0	2.0 U
Chloroethane	2.0	2.0 U
Methylene Chloride	1.0	1.0 U
Trichlorofluoromethane	1.0	1.0 U
1,1-Dichloroethene	1.0	1.0 U
1,1-Dichloroethane	1.0	1.0 U
1,2-Dichloroethene(Cis&Trans)	1.0	1.0 U
Chloroform	1.0	1.0 U
1,2-Dichloroethane	1.0	1.0 U
1,1,1-Trichloroethane	1.0	1.0 U
Carbon Tetrachloride	1.0	1.0 U
Bromodichloromethane	1.0	1.0 U
1,2-Dichloropropane	1.0	1.0 U
1,3-Dichloropropene-Trans	2.0	2.0 U
Trichloroethene	1.0	1.0 U
1,3-Dichloropropene (Cis)	1.0	1.0 U
Dibromochloromethane	2.0	2.0 U
1,1,2-Trichloroethane	2.0	2.0 U
2-Chloroethylvinyl Ether	2.0	2.0 U
Bromoform	2.0	2.0 U
1,1,2,2-Tetrachloroethane	2.0	2.0 U
Tetrachloroethene	1.0	1.0 U
Chlorobenzene	2.0	2.0 U
1,3-Dichlorobenzene	2.0	2.0 U
1,2-Dichlorobenzene	2.0	2.0 U
1,4-Dichlorobenzene	2.0	2.0 U
Benzene	2.0	2.0 U
Toluene	2.0	2.0 U
Ethylbenzene	2.0	2.0 U
Total Xylene (o,m,p)	2.0	2.0 U
Total Volatiles		ND

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg. 200 Soil Borings #70092-44
CORRECTED COPY

Received : 05/29/93

P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-002						
Location:		TRIP BLANK						
Date Collected:		05/27/93						
Time Collected:	LIMITS	NA						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	76						
1-Chloro-3-Fluorobenzene	60-134%	85						
a,a,a-Trifluorotoluene	60-134%	99						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: JUNE 24 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference:
Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93 P.O. #: C6446819

ANALYTICAL UNITS - %

Sample:	-001						
Location:	DR200-7-S3						
Date Collected:	06/14/93						
Time Collected:	12:43						
Solids, %	84.4						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: 24 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference
Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001
Location:		DR200-7-S3
Date Collected:		06/14/93
Time Collected:	PQL	12:43
Date Analyzed:		06/16/93
Dilution:		5
Chloromethane	5.0	30 U
Bromomethane	5.0	30 U
Vinyl Chloride	2.0	12 U
Chloroethane	2.0	12 U
Methylene Chloride	1.0	5.9 U
Trichlorofluoromethane	1.0	5.9 U
1,1-Dichloroethene	1.0	5.9 U
1,1-Dichloroethane	1.0	5.9 U
1,2-Dichloroethene(Cis&Trans)	1.0	5.9 U
Chloroform	1.0	5.9 U
1,2-Dichloroethane	1.0	5.9 U
1,1,1-Trichloroethane	1.0	5.9 U
Carbon Tetrachloride	1.0	5.9 U
Bromodichloromethane	1.0	5.9 U
1,2-Dichloropropane	1.0	5.9 U
1,3-Dichloropropene-Trans	2.0	12 U
Trichloroethene	1.0	5.9 U
1,3-Dichloropropene (Cis)	1.0	5.9 U
Dibromochloromethane	2.0	12 U
1,1,2-Trichloroethane	2.0	12 U
2-Chloroethylvinyl Ether	2.0	12 UJ
Bromoform	2.0	12 U
1,1,2,2-Tetrachloroethane	2.0	12 U
Tetrachloroethene	1.0	5.9 U
Chlorobenzene	2.0	12 U
1,3-Dichlorobenzene	2.0	12 U
1,2-Dichlorobenzene	2.0	12 U
1,4-Dichlorobenzene	2.0	12 U
Benzene	2.0	12 U
Toluene	2.0	12 U
Ethylbenzene	2.0	12 U
Total Xylene (o,m,p)	2.0	12 U
Total Volatiles		ND

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: JUNE 24 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference:
Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-001						
Location:		DR200-7-S3						
Date Collected:		06/14/93						
Time Collected:	LIMITS	12:43						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	66-128%	69						
1-Chloro-3-Fluorobenzene	50-141%	69						
a,a,a-Trifluorotoluene	55-131%	90						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Powers

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: 24 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference
Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-002
Location:		TRIP BLANK
Date Collected:		06/14/93
Time Collected:	PQL	NA
Date Analyzed:		06/19/93
Dilution:		1
Chloromethane	5.0	5.0 U
Bromomethane	5.0	5.0 U
Vinyl Chloride	2.0	2.0 U
Chloroethane	2.0	2.0 U
Methylene Chloride	1.0	1.0 U
Trichlorofluoromethane	1.0	1.0 U
1,1-Dichloroethene	1.0	1.0 U
1,1-Dichloroethane	1.0	1.0 U
1,2-Dichloroethene(Cis&Trans)	1.0	1.0 U
Chloroform	1.0	1.0 U
1,2-Dichloroethane	1.0	1.0 U
1,1,1-Trichloroethane	1.0	1.0 U
Carbon Tetrachloride	1.0	1.0 U
Bromodichloromethane	1.0	1.0 U
1,2-Dichloropropane	1.0	1.0 U
1,3-Dichloropropene-Trans	2.0	2.0 U
Trichloroethene	1.0	1.0 U
1,3-Dichloropropene (Cis)	1.0	1.0 U
Dibromochloromethane	2.0	2.0 U
1,1,2-Trichloroethane	2.0	2.0 U
2-Chloroethylvinyl Ether	2.0	2.0 UJ
Bromoform	2.0	2.0 U
1,1,2,2-Tetrachloroethane	2.0	2.0 U
Tetrachloroethene	1.0	1.0 U
Chlorobenzene	2.0	2.0 U
1,3-Dichlorobenzene	2.0	2.0 U
1,2-Dichlorobenzene	2.0	2.0 U
1,4-Dichlorobenzene	2.0	2.0 U
Benzene	2.0	2.0 U
Toluene	2.0	2.0 U
Ethylbenzene	2.0	2.0 U
Total Xylene (o,m,p)	2.0	2.0 U
Total Volatiles		ND

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: JUNE 24 1993

Client:

Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference:

Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93

P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 — ANALYTICAL RESULTS - %

Sample:		-002						
Location:		TRIP BLANK						
Date Collected:		06/14/93						
Time Collected:	LIMITS	NA						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	78						
1-Chloro-3-Fluorobenzene	60-134%	71						
a,a,a-Trifluorotoluene	60-134%	86						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

Sample Reference: Xerox - Bldg. 200 Borings
70092-44

LABORATORY QUALITY CONTROL

Presented in this section is Quality Control Associated with the analytical data of this report.

Quality Control Explanations:

(1) RUN QUALITY CONTROL - Selected QC data from the analytical run in which your sample(s) were involved.

(2) JOB SPECIFIC QUALITY CONTROL - QC data specific to your set of samples.

(3) DUPLICATES - Replicate analyses of a given sample used to monitor precision. Relative Percent Difference is calculated as the difference divided by the average x 100.

(4) MATRIX SPIKES - Addition of a known amount of analyte to a sample. Recovery is calculated by subtracting original value attributable to the sample from the combined value. The difference is then divided by the amount added to calculate % recovery. Poor recoveries may indicate analytical interference due to the matrix of the sample. Any other samples of this matrix may also have been affected, high or low as indicated by the % recovery.

(5) LABORATORY CONTAMINANTS - Laboratory De-ionized water used to monitor for contamination during analysis.

(6) BLANK SPIKES - Same as item #4 but analyte is added to laboratory de-ionized water. This indicates the accuracy of analysis.

(7) REFERNCE CHECK SAMPLES - Samples from an outside source having a known concentration of analyte. Used as a measure of analytical accuracy.

When possible, all components of the above listed QC protocol are performed during an analytical run. The resulting data is compared to historical records when evaluating the quality of analytical runs. The data provided in your report has passed our Quality Assurance review.

Quality Control Notes:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg 200 Soil Borings - 70092-44
CORRECTED COPY

Received : 05/27/93 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-004
Location:		LAB METH BLANK
Date Collected:		--
Time Collected:	PQL	--
Date Analyzed:		05/27/93
Dilution:		1
Chloromethane	5.0	5.0 U
Bromomethane	5.0	5.0 U
Vinyl Chloride	2.0	2.0 U
Chloroethane	2.0	2.0 U
Methylene Chloride	1.0	2.0
Trichlorofluoromethane	1.0	1.0 U
1,1-Dichloroethene	1.0	1.0 U
1,1-Dichloroethane	1.0	1.0 U
1,2-Dichloroethene(Cis&Trans)	1.0	1.0 U
Chloroform	1.0	1.0 U
1,2-Dichloroethane	1.0	1.0 U
1,1,1-Trichloroethane	1.0	1.0 U
Carbon Tetrachloride	1.0	1.0 U
Bromodichloromethane	1.0	1.0 U
1,2-Dichloropropane	1.0	1.0 U
1,3-Dichloropropene-Trans	2.0	2.0 U
Trichloroethene	1.0	1.0 U
1,3-Dichloropropene (Cis)	1.0	1.0 U
Dibromochloromethane	2.0	2.0 U
1,1,2-Trichloroethane	2.0	2.0 U
2-Chloroethylvinyl Ether	2.0	2.0 U
Bromoform	2.0	2.0 U
1,1,2,2-Tetrachloroethane	2.0	2.0 U
Tetrachloroethene	1.0	1.0 U
Chlorobenzene	2.0	2.0 U
1,3-Dichlorobenzene	2.0	2.0 U
1,2-Dichlorobenzene	2.0	2.0 U
1,4-Dichlorobenzene	2.0	2.0 U
Benzene	2.0	2.0 U
Toluene	2.0	2.0 U
Ethylbenzene	2.0	2.0 U
Total Xylene (o,m,p)	2.0	2.0 U
Total Volatiles		2.0

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93

P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-004						
Location:		LAB METH						
		BLANK						
Date Collected:		--						
Time Collected:	LIMITS	--						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	84						
1-Chloro-3-Fluorobenzene	60-134%	103						
a,a,a-Trifluorotoluene	60-134%	99						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-005							
Location:		LAB METH							
		BLANK							
Date Collected:		--							
Time Collected:	PQL	--							
Date Analyzed:		06/03/93							
Dilution:		5							
Chloromethane	5.0	25 U							
Bromomethane	5.0	25 U							
Vinyl Chloride	2.0	10 U							
Chloroethane	2.0	10 U							
Methylene Chloride	1.0	5.0 U							
Trichlorofluoromethane	1.0	5.0 U							
1,1-Dichloroethene	1.0	5.0 U							
1,1-Dichloroethane	1.0	5.0 U							
1,2-Dichloroethene(Cis&Trans)	1.0	5.0 U							
Chloroform	1.0	5.0 U							
1,2-Dichloroethane	1.0	5.0 U							
1,1,1-Trichloroethane	1.0	5.0 U							
Carbon Tetrachloride	1.0	5.0 U							
Bromodichloromethane	1.0	5.0 U							
1,2-Dichloropropane	1.0	5.0 U							
1,3-Dichloropropene-Trans	2.0	10 U							
Trichloroethene	1.0	5.0 U							
1,3-Dichloropropene (Cis)	1.0	5.0 U							
Dibromochloromethane	2.0	10 U							
1,1,2-Trichloroethane	2.0	10 U							
2-Chloroethylvinyl Ether	2.0	10 U							
Bromoform	2.0	10 U							
1,1,2,2-Tetrachloroethane	2.0	10 U							
Tetrachloroethene	1.0	5.0 U							
Chlorobenzene	2.0	10 U							
1,3-Dichlorobenzene	2.0	10 U							
1,2-Dichlorobenzene	2.0	10 U							
1,4-Dichlorobenzene	2.0	10 U							
Benzene	2.0	10 U							
Toluene	2.0	10 U							
Ethylbenzene	2.0	10 U							
Total Xylene (o,m,p)	2.0	10 U							
Total Volatiles		ND							

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02035 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg 200 Soil
Borings - 70092-44
CORRECTED COPY

Received : 05/27/93 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-005					
Location:		LAB METH					
		BLANK					
Date Collected:		--					
Time Collected:	LIMITS	--					
SURROGATE STANDARD RECOVERIES							
% Recovery							
Bromochloromethane	66-128%	76					
1-Chloro-3-Fluorobenzene	50-141%	87					
a,a,a-Trifluorotoluene	55-131%	96					

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg. 200 Soil Borings #70092-44
CORRECTED COPY

Received : 05/29/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-003						
Location:		LAB METH						
		BLANK						
Date Collected:		--						
Time Collected:	PQL	--						
Date Analyzed:		06/02/93						
Dilution:		1						
Chloromethane	5.0	5.0 U						
Bromomethane	5.0	5.0 U						
Vinyl Chloride	2.0	2.0 U						
Chloroethane	2.0	2.0 U						
Methylene Chloride	1.0	1.0 U						
Trichlorofluoromethane	1.0	1.0 U						
1,1-Dichloroethene	1.0	1.0 U						
1,1-Dichloroethane	1.0	1.0 U						
1,2-Dichloroethene(Cis&Trans)	1.0	1.0 U						
Chloroform	1.0	1.0 U						
1,2-Dichloroethane	1.0	1.0 U						
1,1,1-Trichloroethane	1.0	1.0 U						
Carbon Tetrachloride	1.0	1.0 U						
Bromodichloromethane	1.0	1.0 U						
1,2-Dichloropropane	1.0	1.0 U						
1,3-Dichloropropene-Trans	2.0	2.0 U						
Trichloroethene	1.0	1.0 U						
1,3-Dichloropropene (Cis)	1.0	1.0 U						
Dibromochloromethane	2.0	2.0 U						
1,1,2-Trichloroethane	2.0	2.0 U						
2-Chloroethylvinyl Ether	2.0	2.0 U						
Bromoform	2.0	2.0 U						
1,1,2,2-Tetrachloroethane	2.0	2.0 U						
Tetrachloroethene	1.0	1.0 U						
Chlorobenzene	2.0	2.0 U						
1,3-Dichlorobenzene	2.0	2.0 U						
1,2-Dichlorobenzene	2.0	2.0 U						
1,4-Dichlorobenzene	2.0	2.0 U						
Benzene	2.0	2.0 U						
Toluene	2.0	2.0 U						
Ethylbenzene	2.0	2.0 U						
Total Xylene (o,m,p)	2.0	2.0 U						
Total Volatiles		ND						

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg. 200 Soil Borings #70092-44
CORRECTED COPY

Received : 05/29/93

P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020		ANALYTICAL RESULTS - %					
Sample:		-003					
Location:		LAB METH BLANK					
Date Collected:		--					
Time Collected:	LIMITS	--					
SURROGATE STANDARD RECOVERIES							
% Recovery							
Bromochloromethane	60-138%	67					
1-Chloro-3-Fluorobenzene	60-134%	80					
a,a,a-Trifluorotoluene	60-134%	102					

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: 9 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference

Xerox - Bldg. 200 Soil
Borings #70092-44
CORRECTED COPY

Received : 05/29/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-004
Location:		LAB METH
		BLANK
Date Collected:		--
Time Collected:	PQL	--
Date Analyzed:		06/03/93
Dilution:		5
Chloromethane	5.0	25 U
Bromomethane	5.0	25 U
Vinyl Chloride	2.0	10 U
Chloroethane	2.0	10 U
Methylene Chloride	1.0	5.0 U
Trichlorofluoromethane	1.0	5.0 U
1,1-Dichloroethene	1.0	5.0 U
1,1-Dichloroethane	1.0	5.0 U
1,2-Dichloroethene(Cis&Trans)	1.0	5.0 U
Chloroform	1.0	5.0 U
1,2-Dichloroethane	1.0	5.0 U
1,1,1-Trichloroethane	1.0	5.0 U
Carbon Tetrachloride	1.0	5.0 U
Bromodichloromethane	1.0	5.0 U
1,2-Dichloropropane	1.0	5.0 U
1,3-Dichloropropene-Trans	2.0	10 U
Trichloroethene	1.0	5.0 U
1,3-Dichloropropene (Cis)	1.0	5.0 U
Dibromochloromethane	2.0	10 U
1,1,2-Trichloroethane	2.0	10 U
2-Chloroethylvinyl Ether	2.0	10 U
Bromoform	2.0	10 U
1,1,2,2-Tetrachloroethane	2.0	10 U
Tetrachloroethene	1.0	5.0 U
Chlorobenzene	2.0	10 U
1,3-Dichlorobenzene	2.0	10 U
1,2-Dichlorobenzene	2.0	10 U
1,4-Dichlorobenzene	2.0	10 U
Benzene	2.0	10 U
Toluene	2.0	10 U
Ethylbenzene	2.0	10 U
Total Xylene (o,m,p)	2.0	10 U
Total Volatiles		ND

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02072 Date: JUNE 9 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, NY 14580

Sample(s) Reference:
Xerox - Bldg. 200 Soil
Borings #70092-44
CORRECTED COPY

Received : 05/29/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-004					
Location:		LAB METH BLANK					
Date Collected:		--					
Time Collected:	LIMITS	--					
SURROGATE STANDARD RECOVERIES							
% Recovery							
Bromochloromethane	66-128%	76					
1-Chloro-3-Fluorobenzene	50-141%	87					
a,a,a-Trifluorotoluene	55-131%	96					

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: 24 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference

Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-003
Location:		LAB METH
		BLANK
Date Collected:		--
Time Collected:	PQL	--
Date Analyzed:		06/15/93
Dilution:		5
Chloromethane	5.0	25 U
Bromomethane	5.0	25 U
Vinyl Chloride	2.0	10 U
Chloroethane	2.0	10 U
Methylene Chloride	1.0	5.0 U
Trichlorofluoromethane	1.0	5.0 U
1,1-Dichloroethene	1.0	5.0 U
1,1-Dichloroethane	1.0	5.0 U
1,2-Dichloroethene(Cis&Trans)	1.0	5.0 U
Chloroform	1.0	5.0 U
1,2-Dichloroethane	1.0	5.0 U
1,1,1-Trichloroethane	1.0	5.0 U
Carbon Tetrachloride	1.0	5.0 U
Bromodichloromethane	1.0	5.0 U
1,2-Dichloropropane	1.0	5.0 U
1,3-Dichloropropene-Trans	2.0	10 U
Trichloroethene	1.0	5.0 U
1,3-Dichloropropene (Cis)	1.0	5.0 U
Dibromochloromethane	2.0	10 U
1,1,2-Trichloroethane	2.0	10 U
2-Chloroethylvinyl Ether	2.0	10 UJ
Bromoform	2.0	10 U
1,1,2,2-Tetrachloroethane	2.0	10 U
Tetrachloroethene	1.0	5.0 U
Chlorobenzene	2.0	10 U
1,3-Dichlorobenzene	2.0	10 U
1,2-Dichlorobenzene	2.0	10 U
1,4-Dichlorobenzene	2.0	10 U
Benzene	2.0	10 U
Toluene	2.0	10 U
Ethylbenzene	2.0	10 U
Total Xylene (o,m,p)	2.0	10 U
Total Volatiles		ND

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: JUNE 24 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference:
Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-003						
Location:		LAB METH						
		BLANK						
Date Collected:		--						
Time Collected:	LIMITS	--						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	66-128%	75						
1-Chloro-3-Fluorobenzene	50-141%	93						
a,a,a-Trifluorotoluene	55-131%	90						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: 24 JUNE, 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference

Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93 P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-004	
Location:		LAB METH	
		BLANK	
Date Collected:		--	
Time Collected:	PQL	--	
Date Analyzed:		06/18/93	
Dilution:		1	
Chloromethane	5.0	5.0 U	
Bromomethane	5.0	5.0 U	
Vinyl Chloride	2.0	2.0 U	
Chloroethane	2.0	2.0 U	
Methylene Chloride	1.0	1.0 U	
Trichlorofluoromethane	1.0	1.0 U	
1,1-Dichloroethene	1.0	1.0 U	
1,1-Dichloroethane	1.0	1.0 U	
1,2-Dichloroethene(Cis&Trans)	1.0	1.0 U	
Chloroform	1.0	1.0 U	
1,2-Dichloroethane	1.0	1.0 U	
1,1,1-Trichloroethane	1.0	1.0 U	
Carbon Tetrachloride	1.0	1.0 U	
Bromodichloromethane	1.0	1.0 U	
1,2-Dichloropropane	1.0	1.0 U	
1,3-Dichloropropene-Trans	2.0	2.0 U	
Trichloroethene	1.0	1.0 U	
1,3-Dichloropropene (Cis)	1.0	1.0 U	
Dibromochloromethane	2.0	2.0 U	
1,1,2-Trichloroethane	2.0	2.0 U	
2-Chloroethylvinyl Ether	2.0	2.0 UJ	
Bromoform	2.0	2.0 U	
1,1,2,2-Tetrachloroethane	2.0	2.0 U	
Tetrachloroethene	1.0	1.0 U	
Chlorobenzene	2.0	2.0 U	
1,3-Dichlorobenzene	2.0	2.0 U	
1,2-Dichlorobenzene	2.0	2.0 U	
1,4-Dichlorobenzene	2.0	2.0 U	
Benzene	2.0	2.0 U	
Toluene	2.0	2.0 U	
Ethylbenzene	2.0	2.0 U	
Total Xylene (o,m,p)	2.0	2.0 U	
Total Volatiles		ND	

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R93/02308 Date: JUNE 24 1993

Client:
Mr. Scott Huber
Xerox Corporation
800 Phillips Road
Webster, New York 14580

Sample(s) Reference:
Xerox - Bldg. 200 Borings
70092-44

Received : 06/15/93

P.O. #: C6446819

ANALYSIS * BY GC METHOD 8010/8020 — ANALYTICAL RESULTS - %

Sample:		-004						
Location:		LAB METH BLANK						
Date Collected:		--						
Time Collected:	LIMITS	--						
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	80						
1-Chloro-3-Fluorobenzene	60-134%	87						
a,a,a-Trifluorotoluene	60-134%	90						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

Sample Reference: Xerox - Bldg. 200 Borings
70092-44

FIELD DOCUMENTATION

Presented in this section is all support documentation requested.

Documentation Provided:

(X) Chain of Custody Forms

( ) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

( ) Other:

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job. No. R9302035

Client Project No. 70092-44

Sample Origination & Shipping Information

Collection Site XEROX Building 200 (Boring B-185R)

Address 300 Phillips Rd (Street) Webster (City) NY (State) 14580 (Zip)

Collector David M. Nostrant (Print) (Signature)

Bottles Prepared by General Testing Corp — Rec'd by

Bottles Shipped to Client via H&A Pick-up — Seal/Shipping #

Samples Shipped via H&A Delivery — Seal/Shipping #

Sample(s) Relinquished by:	Received by:	Date	Time
1. Sign D M Nostrant for H&A	1. Sign Tom Hastings for GTC	5 27 93	07 30
2. Sign	2. Sign	/	:
for	for		
3. Sign	3. Sign	/	:
for	for		

Sample(s) Received in Laboratory by Tom Hastings 5 27 93 @ 0730

	Client I.D. # / Lab #	Sample Location / Date Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	H&A of NY / 2035.001	B-185R-S7 / 5 25 93 1400	S	8010/8020 - PPL & XYLENE	X				(1) bottle, No. 10
2	H&A of NY	B-185R-S7 / 5 25 93 1400	S	DWPS	X				(1) bottle, No. 10
3	H&A of NY / [illegible]	Drill Water / 002 5 26 93 15:10	W	8010/8020 - PPL & XYLENE	X				(2) bottle No. 1
4	H&A of NY / 003	Trip Blank / :	W	8010/8020 - PPL & XYLENE	X				(2) bottle No. 1
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.	40Z GLASS
# of each	4									2

tional Analytes Note: Preservative: ICE

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

K93/2072

H & A OF NEW YORK
189 North Water Street
Rochester, New York 14604
(716) 232-7386

ANALYSIS REQUEST FORM AND CHAIN-OF-CUSTODY RECORD

Page 1 of 1 — № 243
Delivery Date: 5/28/93

Project Name: BLDG 200 RFI Work Plan
H & A File No. 70092-44
H & A REP. D. Nostrant
WORK ORDER No.

Laboratory: General Testing Corp
Address: 710 Exchange St, Rochester, NY
Client Rep.: D. Cooley

Project Manager: J. Corey
Final Report Due Date:
Turnaround Time: STD days

Sample Information / Analysis Requested / Preservative

H & A Sample ID.	Laboratory ID.	Sample Date	Sample Time	Sample Depth	Sample Matrix	8010/8020 PPL+Xylene	DWPS					TOTAL	HNO3 (N) pH < 2.0	HCl (C) pH < 2.0	H_2SO_4 (S) pH < 2.0	NaOH/ZA (Z) pH > 10	4 C (T) pH 7.0
1. B200-9-S2	001	5/27/93	2:45	24-39	S	1	1					2					
2. TRIP Blank	002	—	—	—	W	2						2					
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	

Sampler Comments/Site Observations

Sample Conditions
Custody Seal: Intact:
Cooler Temp.: C
Any Broken Containers ? No
Preservation ICE
No. Of Samples: (N) (C) (S) (Z) (T)

Broken Containers
List Type / Sample No.

(List all pH measurements outside criteria in the Comments Section by H & A No. / Cont. / pres.)
Comments:

Sampled and Relinquished By: D. Nostrant	Samples Received By: Tom Hastings
Signature: [signature]	Signature: Tom Hastings
Company Name: H&A of NY	Company Name: General Testing Corp
Date: 5/28/93 Time: 16:30	Date: 5/28/93 Time: 16:30
Samples Relinquished By:	Samples Received By:
Signature:	Signature:
Company Name:	Company Name:
Date: Time:	Date: Time:
Samples Relinquished By:	Samples Received By: B. Bowe
Signature:	Signature: B. Bowe
Company Name:	Company Name: GTC
Date: Time:	Date: 5/29/93 Time: 08:00

H & A OF NEW YORK
189 North Water Street
Rochester, New York 14604
(716) 232-7386

ANALYSIS REQUEST FORM AND CHAIN-OF-CUSTODY RECORD

Page 1 of 1 № 283
Delivery Date: 6/15/93

Project Name: Building 200 RFI Work Plan
H & A File No. 70092 - 44
H & A REP. D. Nostrant
WORK ORDER No.

Laboratory: General Testing Corporation
Address: 710 Exchange St
Rochester NY 14608
Client Rep.:

Project Manager: J. Loney
Final Report Due Date:
Turnaround Time: STD days

H & A Sample ID.	Laboratory ID.	Sample Date	Sample Time	Sample Depth	Sample Matrix	8010/8020 PPL+XYLENE	DWPS					TOTAL	HNO3 (N)	HCl (C)	H_2SO_4 (S)	NaOH/ZA (Z)	4 C (T)
1. DR200-7-53	-[illegible]	6/14/93	1243	4-6'	S	1	1					2					
2. Trip Blank	-[illegible]	—	—	—	W	2						2					
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	

(Analysis Requested; Preservative: pH < 2.0 — HNO3, HCl, H_2SO_4; pH > 10 — NaOH/ZA; pH 7.0 — 4 C)

Sampler Comments/Site Observations

Sample Conditions
Custody Seal: Intact:
Cooler Temp.: C
Any Broken Containers ? NO
Broken Containers
List Type / Sample No.
Preservation ICE
No. Of Samples: (N) (C) (S) (Z) (T)
(List all pH measurements outside criteria in the Comments Section by H & A No. / Cont. / pres.)
Comments:

Sampled and Relinquished By: D. Nostrant
Signature: [signature]
Company Name: H&A of NY
Date: 6/15/93 Time: 0727

Samples Recieved By: D. S[illegible]
Signature: [signature]
Company Name: General Testing Corp
Date: 6/15 Time: 07:30

Samples Relinquished By:
Signature:
Company Name:
Date: Time:

Samples Recieved By:
Signature:
Company Name:
Date: Time:

Samples Relinquished By:
Signature:
Company Name:
Date: Time:

Samples Recieved By:
Signature:
Company Name:
Date: Time: