
PRESTOLITE ELECTRIC SITE

WYOMING COUNTY, NEW YORK

Site Management Plan

NYSDEC Site Number: 961009

Prepared for:

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SITE MANAGEMENT PLAN

1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This document is required as an element of the remedial program at the Prestolite Electric Site (hereinafter referred to as the “Site”) in Arcade, New York as administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Order on Consent Index # B9-0468-94-11 which was signed by the NYSDEC Commissioner on January 30, 1995 (effective date; see Appendix A).

1.1.1 General

Motorola Solutions, Inc. (formerly Motorola, Inc.) and Prestolite Leese-Neville (formerly Prestolite Electric) as Responsible Parties entered into an Order on Consent with the NYSDEC to investigate and remediate subsurface impacts resulting from historical plant operations which occurred during, or prior to, Motorola’s ownership of the property. The following terminology will be used when discussing specific portions of the Site or the Site as a whole:

- Site – The overall Site includes the entire current Prestolite property which is approximately 22 acres in size. It is bounded to the east by Prospect Street, to the north by Main Street, to the west by Arcade Lumber and to the north by agricultural property. Cemetery Creek and a set of railroad tracks traverse the southern third of the Site from southeast to northwest.
- Former Run-off Receiving Area – The off-site low lying area immediately east of the existing waste water treatment building on the south side of Cemetery Creek.
- Former Chemical Storage Building – A former structure that was used for storage of drummed chemicals, including solvents, for use in plant operations.
- Former Subsurface Weir Structure – A former subsurface structure that was associated with the old plant discharge system that accumulated sludges prior to discharge.

- Degreaser Areas 1 and 2 – Areas within the manufacturing plant where degreasing operations occur.

A figure showing the Site location and boundaries subject to this plan is provided in Figure 1. The boundaries of the Site are more fully described in the metes and bounds Site description (see Appendix B for metes and bounds).

After completion of the remedial work, some impacts remained in the subsurface, hereafter referenced as “remaining impacts.” This Site Management Plan (SMP) was prepared to manage remaining impacts until the deed restrictions contained within the Declaration of Covenants and Restrictions referenced below and within this SMP are extinguished in accordance with ECL Article 71, Title 36 (see Appendix C). All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

This SMP was prepared by KPRG and Associates, Inc. (KPRG), on behalf of Motorola Solutions, in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May, 2010 (DER-10), the guidelines provided by NYSDEC and the New York State Department of Health’s (NYSDOH) “Guidance for Evaluating Soil Vapor Intrusion in the State of New York”. This SMP addresses the means for implementing the Institutional Controls (ICs) that are required by the deed restriction(s) for the Site contained within the December 31, 2000 Declaration of Covenants and Restrictions for the Site.

1.1.2 Purpose

Portions of the Site contain potential residual impacts remaining after completion of the remedial action. ICs have been incorporated into the Site remedy to control exposure to remaining potential impacts during the use of the Site to ensure protection of public health and the environment. The Declaration of Covenants and Restrictions (Declaration) agreed to by the NYSDEC and recorded with the Wyoming County Clerk, will require compliance with this SMP and all ICs placed on the Site. The ICs place restrictions on Site use, and mandate monitoring and reporting measures. This SMP specifies the methods necessary to ensure compliance with all ICs required by the Declaration for impacts that remain at the Site. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the deed restriction and the grantor’s successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

This SMP provides a detailed description of all procedures required to manage residual impacts at the Site after completion of the Remedial Action, including: (1) implementation and management of all ICs; (2) media monitoring; and (3) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports.

To address these needs, this SMP includes two plans: (1) an Institutional Control Plan for implementation and management of ICs; and (2) a Monitoring Plan for implementation of Site monitoring.

This plan also includes a description of Periodic Review Reports for the periodic submittal of data, information, recommendations, and certifications to NYSDEC.

It is important to note that:

- This SMP details the Site-specific implementation procedures. Failure to properly implement the SMP is a violation of the Declarations;
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the Order on Consent (Index # B9-0468-94-11; Site #961009) for the Site, and thereby subject to applicable penalties.

1.1.3 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. The NYSDEC will provide notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files. This is Revision 1 of the SMP to include the additional sub-slab depressurization systems (SSDSs) that were installed at three neighboring properties that were requested by the NYSDEC as part of the vapor intrusion study.

1.2 SITE BACKGROUND

1.2.1 Site Location and Description

The affected property is located at 400 Main Street within the Village of Arcade, County of Wyoming, New York and is identified as Parcel Number 183.13-2-14.1 on the Wyoming County Tax Map. The Site, as defined in Section 1.1.1 above, is approximately 22 acres in size (see Figure 1). The boundaries of the Site are more fully described in Appendix B – Metes and Bounds.

1.2.2 Site History

The Site was originally used as a lumber breakout yard in the 1920's. A number of minor businesses occupied the Site from the 1920's to the 1940's including a machine shop. From 1952 to 1955 Sylvania, Inc. managed the Site and produced car radio parts and push button timers. Motorola, Inc. (currently known as Motorola Solutions) purchased the Site in 1955 and started motor vehicle alternator production in 1958. In 1988, Prestolite Electric, Inc. (currently known as Prestolite Leese-Neville) purchased the property and continued production of alternators and other automotive parts.

In June/July 1991, Prestolite performed a Phase I Site Investigation (SI) which included limited monitoring well installations, groundwater sampling, test pit

excavation/sampling and soil gas screening for total organic vapors. Results of the sampling indicated local areas of impacted soils and groundwater. The main constituents of concern were metals (cadmium, chromium and lead) and volatile organic compounds (VOCs), primarily trichloroethene (TCE) and 1,1,1-trichloroethane (TCA).

Based on the results of the initial site investigation work, Motorola voluntarily initiated an expanded Phase II SI. The additional work included a soil gas survey, additional monitoring well installations/sampling, in-situ hydraulic conductivity testing, surface and subsurface soil sampling, subsurface structure liquid/sludge sampling and a groundwater use survey. The results of the expanded SI are summarized in Section 1.3.

Since the expanded Phase II SI work, additional environmental sampling was performed in support of various interim remedial measures (IRMs) performed as part of overall site remediation. In addition, a soil vapor intrusion study was initiated in 2008 and continued soil vapor probe monitoring is ongoing.

The site was remediated through the implementation of a series of IRMs performed during the various stages of site investigation. The IRMs were focused on three Areas of Concern. The Areas of Concern and the associated IRMs are summarized as follows:

- Area 1 – Waste Water Treatment Plant Area/Cemetery Creek
 - Excavation and proper disposal of metals impacted soils from the Former Run-off Receiving Area.
 - Drum excavation and removal.
 - In-situ stabilization and capping of metals impacted soils around the wastewater treatment plant.
 - Cemetery Creek sediment excavation and disposal.
- Area 2 – Former Chemical Storage Building
 - In-situ treatment of metals and VOC impacted soil with capping.
 - Installation and sampling of overburden groundwater monitoring wells.
- Area 3 – Subsurface Weir Structure and Degreaser Units
 - Subsurface weir structure and plant sump sampling, cleaning and decommissioning.
 - Soil vapor extraction beneath the two degreasers.
 - Installation and sampling of overburden groundwater monitoring wells.

In its Record of Decision (ROD) dated March 30, 2000, the NYSDEC stated:

“Based on the success of the above IRMs, the findings of the investigations at this site indicate that the site no longer poses a threat to human

health or the environment, therefore No Further Remedial Action with continued long term overburden groundwater monitoring and land use restrictions was selected as the remedy for this site. In addition, the Department will also reclassify the site to a Class 4 site on the New York State Registry of Inactive Hazardous Waste Disposal Sites.”

In 2008, the NYSDEC reopened the site investigation file requiring additional characterization work to be performed to address the new soil vapor intrusion pathway evaluation guidelines. The subsequent soil vapor study indicated that soil vapor intrusion was potentially an issue in the vicinity of the administration wing of the Prestolite facility. A sub-slab depressurization system consisting of 12 depressurization points was subsequently installed in March 2009 around the administration portion of the facility to mitigate this potential exposure pathway.

The Site is currently in monitoring mode using an approved environmental monitoring plan. The groundwater monitoring program includes monitoring of wells MW-01, MW-01DA, MW-02A, MW-03, MW-05, MW-06A, MW-06DA, MW-07, MW-09, MW-09D, MW-11, MW-12, MW-13 and MW-14. The soil vapor monitoring currently includes soil vapor probes VP-8 through VP-14 however, these points may be subject to change as the soil vapor intrusion study is currently ongoing. These monitoring points are included on Figure 2. At this time, based on discussions with the NYSDEC project manager, continued soil vapor monitoring will no longer be required since SSDSs installs were installed at three off-site properties as directed by NYSDEC.

1.2.3 Geologic Conditions

The topography and surface geology of the Arcade area is largely shaped by Pleistocene glaciation. The facility is situated on the southern site of the Cattaraugus Creek valley. Cemetery Creek transects the southern portion of the site from southeast to northwest. The unconsolidated glacial deposits overlie bedrock consisting of the Gowanda Shale member of the Canadaway Formation. Depth to bedrock beneath the site is unknown.

The overlying unconsolidated deposits are fluvioglacial in origin and are comprised of sand and gravel horizons separated by thick sequences of silts and clays. The general stratigraphy of the unconsolidated units beneath the site to a depth of approximately 65 feet is:

- Unit 1 – Silt: Brown to gray, weathered, may locally contain sandy, clayey or gravelly lenses, moderately sorted. This unit is generally 15 feet thick across the site.
- Unit 2 – Sand: Gray and brown, locally contains silt and/or gravel, moderately to poorly sorted. Thickness encountered ranged from 5 to 10 feet. The unit pinches out to the south.

- Unit 3 – Silt: Gray to grayish brown, may locally contain sandy and clayey horizons, well sorted, thinly laminated in places. Thickness encountered ranged for 20 to 37 feet.
- Unit 4 – Sand: Gray to grayish brown, some silt, locally some gravel, generally well sorted. Thickness ranged from 2 to 15 feet.
- Unit 5 – Clay: Reddish gray, plastic, massive, dry. The base of the unit was not penetrated. It is at least 10 feet thick.

Geologic sections from the Phase II Site Investigation dated May 4, 1992 are provided in Appendix D.

The regional and local hydrogeology in the area is topographically driven with groundwater flow from areas of higher elevation at the top of hills and ridges toward valleys and associated surface drainage features. Depth to groundwater beneath the Site ranges from approximately 45 feet at well MW-05 which is located at the top of a hill to approximately 7.5 feet at well location MW-12 at the northwest corner of the Site. Horizontal groundwater flow beneath the site is in a north-northwesterly direction and has been observed to be consistent over the course of 21 years of monitoring. A typical groundwater flow map is provided on Figure 3. Relative to vertical flow, there is an upward gradient between the lower and upper aquifer units.

1.3 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS

The overall site characterization was performed in a series of studies. The results can be found in the following documents:

- NUS Corporation, Superfund Division, August 1988, Site Inspection Report.
- IT Corporation, 1991. Phase I Site Investigation, Prestolite Arcade Plant, New York.
- Simon Hydro-Search, May 4, 1992. Phase II Site Investigation, Prestolite Plant, Arcade, New York.
- Simon Hydro-Search, June 23, 1992. Addendum No. 1 to the Phase II Site Investigation, Prestolite Plant, Arcade, New York.
- Hydro-Search, Inc., 1995. Groundwater Characterization Status Report, Prestolite Plant Site, Arcade, New York.
- Hydro-Search, Inc., August 15, 1995. Cemetery Creek Sediment Sampling and Analysis and Removal Action Plan, Prestolite Plant, Arcade, New York.
- Hydro-Search, Inc., August 23, 1995. Additional Site Characterization, Prestolite Site, Arcade, New York.

- Hydro-Search, Inc., June 1996. Memorandum: 3-Dimensional Soil Sampling of VOC and Metals Impacted Soils, Prestolite Plant Site, Arcade, New York.
- HSI GeoTrans, 1995-1997. Quarterly Groundwater Monitoring and Progress Reports.
- HSI GeoTrans, 1998-2001. Semi-annual Groundwater Monitoring and Progress Reports.
- KPRG and Associates, Inc., 2002-Present. Semi-annual Groundwater Monitoring and progress Reports.
- KPRG and Associates, Inc., October 3, 2008. Summary Letter Report – Soil Vapor Intrusion Study – Prestolite Plant Site.
- KPRG and Associates, Inc., November 25, 2009. Summary Letter Report – Expanded Soil Vapor Intrusion Study – Prestolite Plant Site.
- KPRG and Associates, Inc., 2010-Present. Data Summary Letters – Soil Vapor Monitoring – Prestolite Plant Site.
- KPRG and Associates, Inc. July 2, 2014 and July 16, 2014. Sub-slab Depressurization System Installations and Responses to Comments.

The results of the various phases of site investigation are summarized as follows:

- The groundwater system beneath the Site is comprised of two water bearing units. The upper aquifer (Units 1 and 2 noted in Section 1.2.3) is unconfined with its lower boundary marked by a low permeability silt layer (Unit 3). The lower aquifer (Unit 4) is semi-confined by this silt and is underlain by an impermeable red clay (Unit 5). An upward hydraulic gradient exists between the upper and lower aquifer units.
- Groundwater within the upper aquifer has been locally impacted by VOCs and metals associated with the historical manufacturing operations.
- Groundwater flow beneath the Site within the upper aquifer is to the north and northwest.
- The lower aquifer has generally not been impacted by Site activities. The semi-confining silt layer and the presence of an upward hydraulic gradient between the two aquifer units generally preclude the downward migration of impacts.
- The low level of VOC impacts in groundwater indicates that the impacts are strictly dissolved phase (i.e., no free-phase product within the groundwater system).

- There were no groundwater use receptors downgradient of the Site. The nearest municipal well is located approximately 0.25 miles to the northeast. Sampling of this well indicated no impacts.
- The soils beneath the plant foundation in the vicinity of Degreaser Areas 1 and 2 are impacted by chlorinated hydrocarbons.
- Soils in the vicinity of the Former Chemical Storage Building have been impacted with VOCs (both chlorinated and aromatic hydrocarbons).
- Soils in the Former Run-off Receiving Area and the Wastewater Treatment Building are impacted by various metals (primarily cadmium, chromium and lead).
- Sediments in Cemetery Creek were impacted with metals (primarily cadmium, chromium, copper and lead).
- The former subsurface weir structure included liquids and sediment/sludges impacted with VOCs and metals.
- There is a potential for soil vapor migration into the administrative offices portion of the facility.

Below is a summary of Site conditions based on the investigation work performed from 1992 through 2009, prior to the phased implementation of the various IRMs.

Soil

Summary data tables and sample location maps are provided in Appendix E and the results are described as follows:

Former Chemical Storage Building – VOC soil impacts with maximum concentrations of: acetone -14 mg/kg, methylene chloride – 2.2 mg/kg, 1,2-dichloroethene – 2.6 mg/kg, toluene – 130 mg/kg, trichloroethene – 27 mg/kg, ethylbenzene – 600 mg/kg and total xylenes – 3,500 mg/kg. Metals soil impacts with maximum concentrations of: cadmium – 9,210 mg/kg, chromium – 2,420 mg/kg and lead – 796 mg/kg.

Wastewater Treatment Plant Area – Metals soil impacts with maximum concentrations of: cadmium – 1,110 mg/kg, chromium – 56 mg/kg and lead 233 mg/kg.

Former Run-off Receiving Area – Metals soil impacts with maximum concentrations of: cadmium – 8,420 mg/kg, chromium – 38 mg/kg and lead – 241 mg/kg.

Degreaser Areas 1 and 2 (beneath concrete floor) – VOC soil impacts with maximum concentrations of: trichloroethene – 23 mg/kg and 1,2-dichloroethene – 33 mg/kg.

Sediments

Summary data tables and sample location maps are provided in Appendix E and the results are described as follows:

Former Subsurface Weir Structure – VOC sediment impacts with maximum concentrations of: chloroform – 70 mg/kg and trichloroethene – 7.1 mg/kg.

Cemetery Creek – Metals sediment impacts with maximum concentrations of: cadmium – 79 mg/kg and copper – 197 mg/kg.

Site Related Groundwater

Summary data tables and sample location maps are provided in Appendix E and the results are described as follows:

The upper aquifer groundwater (stratigraphic Units 1 and 2) – VOC impacts with maximum concentrations of: acetone – 440 ug/l, toluene – 180 ug/l, 1,2-dichloroethene – 62 ug/l, trichloroethene – 300 ug/l, 1,1,1-trichloroethane – 19 ug/l, ethylbenzene – 380 ug/l and total xylenes – 1,400 ug/l. Total metals impacts with maximum concentrations of: cadmium – 7.9 mg/l, chromium, 191 mg/l, and lead – 0.680 ug/l.

The maximum VOC detections were associated with monitoring wells downgradient of either the Former Chemical Storage Building or Degreaser Areas 1 and 2 and the Former Subsurface Weir Structure. It is noted that there was a spike in TCE concentrations at well location MW-9 of 13,000 ug/l during the June 1995 sampling. The well was found to be unlocked and it was believed based on previous and subsequent sampling data that some TCE was introduced into the well by either a disgruntled employee and/or union member.

The maximum total metals detections were associated with monitoring wells immediately downgradient of the Wastewater Treatment Building and Former Chemical Storage Building.

Site-Related Soil Vapor

Soil vapor sampling summary data tables and sample location maps are provided in Appendix E. The main VOCs of concern noted by the NYSDEC and NYSDOH were TCE and 1,1,1-TCA. The impacts with maximum concentrations were: trichloroethene – 1,100 ug/m³ and 1,1,1-trichloroethane – 290 ug/m³. Both of these maximum readings were associated with vapor probe VP-4 in the vicinity of the administrative offices portion of the Prestolite facility.

1.4 SUMMARY OF REMEDIAL ACTIONS

Between 1991 and 2014, various IRMs were implemented for the defined source areas of environmental impacts. The following IRMs were successfully completed, in the order provided, from first to most recent.

- Metals impacted soil removal from the Run-off Receiving Area for proper off-site disposal.
- Removal of VOC and metals impacted sediments/sludge for proper off-site disposal from a former subsurface weir structure located beneath the north parking lot. The structure was then cleaned and decommissioned.
- Removal of VOC impacted soils for proper off-site disposal within a former subsurface vault beneath northwest portion of the manufacturing building.
- Remediation of VOC impacted subsurface soils beneath the manufacturing building in the vicinity of two former degreaser using soil vapor extraction (SVE). The system was in operation for approximately 5 years at which time verification soil samples were collected and determined that established cleanup objectives were met. The SVE system was decommissioned in 1999.
- Remediation of metals impacted soils in the vicinity of the waste water treatment building using on-site stabilization and capping.
- Remediation of VOC and metals impacted soils in the vicinity of the former chemical storage building using in-situ thermally enhanced VOC stripping followed by metals stabilization and capping.
- Metals impacted sediment removal from Cemetery Creek for proper off-site disposal.
- Installation of a sub-slab depressurization system around the administration wing of the facility.
- Installation of sub-slab depressurization systems at three off-site properties to the north of the Prestolite site.

Separate IRM reports were issued for each source area remediation documenting the effectiveness of the action(s) and that the established NYSDEC cleanup criteria were met. The NYSDEC issued a ROD in March, 2000 which identified the combined IRMs as constituting the final site remedy and that no further remedial action was necessary. Since that time there were two exceptions, both being associated with new soil vapor intrusion regulations being promulgated by New York. One exception was the installation of the sub-slab depressurization system around the administration wing of the facility which was installed in March 2009. Documentation of the installation was provided to the NYSDEC and subsequently approved as complete. The second exception was the installation of three sub-slab depressurization systems at three properties

immediately north of the Prestolite facility. The as-built report for these installations was submitted to the NYSDEC on July 2, 2014 and responses to NYSDEC comments were submitted on July 16, 2014. The site is currently in groundwater monitoring mode to monitor the effectiveness of the various IRMs and track ongoing natural attenuation progress. In addition, a soil vapor intrusion study is ongoing.

1.4.1 Removal of Impacted Materials from the Site

Former Run-off Receiving Area

A removal action was performed within the off-site low area, just east of the wastewater treatment building. Soil Cleanup Objectives (SCOs) for this area are summarized in Table 1 for the main constituents of concern (COCs):

Table 1: SCOs for Former Run-off Receiving Area

CONSTITUENT	SOIL CLEANUP OBJECTIVE (mg/kg)
Cadmium	10
Chromium	18
Lead	50

Approximately 2,984 tons of soils were removed and transported to Heritage Environmental Services in Indianapolis, Indiana for proper treatment and disposal. The base of the excavation extended to the water table. The area was backfilled with clean fill, graded and seeded. The area of excavation and backfilling is noted on Figure 4.

Drum Excavation and Removal

Based on anecdotal information, a magnetic survey was conducted in the area surrounding the wastewater treatment building to investigate the potential presence of buried drums/containers. Based on the results of the survey, a series of test trenches were excavated in areas of magnetic anomaly. The trenches revealed the presence of various metallic debris as well as the remnants of six 55-gallon drums and 5 to 10 one-gallon pails. The debris and drums were located on the north and east sides of the building. The empty containers were steam cleaned, crushed and sent off-site for recycling. Approximately two cubic yards of impacted soils and debris were also removed and sent to Heritage Environmental Services for proper disposal as D006 characteristic hazardous waste.

Subsurface Weir Structure

The subsurface weir structure and associated sump (see Figure 4) were cleaned out. Approximately 3,400 gallons of water and 500 gallons of sludge were removed from the structures and properly disposed of at LWD, Inc. in Calvert City, Kentucky. The base and sidewalls were pressure washed twice. All pipelines leading to the structures were flushed with high pressure water and grouted. The steel plumbing and supports within the structures, once cleaned, were removed for recycling. The water from the cleaning operations was collected for disposal and is included in the volume estimate above. The base and sidewalls were wipe-sampled for VOCs, metals and cyanide. The walls of the structures were then cut to a depth of approximately eight inches below grade. The structure was backfilled to grade with clean gravel and the area was paved.

Cemetery Creek Sediment Removal

Based on the results of the sediment sampling program within Cemetery Creek, a sediment removal action was performed to address identified metals impacts (see Figure 4). In setting SCOs for the sediment, the nature of the habitat in the creek was considered through discussions and inspection by the local NYSDEC Division of Fish and Wildlife office. Also considered was a review of local background levels and a comparison to established sediment criteria from the NYSDEC Technical Guidance for Screening Contaminated Sediments (July 1994). Table 2 summarizes the SCOs set for the sediment removal action:

Table 2: SCOs for Cemetery Creek Remediation

CONSTITUENT	SEDIMENT CLEANUP OBJECTIVE (mg/kg)
Cadmium	5
Copper	87

A total of approximately 4,620 tons of metals impacted sediment were removed and properly disposed of as non-hazardous waste at the BFI Niagara Falls landfill facility. Upon completion of removal activities, the areas of excavation within the creek were reconstructed to approximate original grade with approved, clean imported soils of similar grain size to that of the material removed.

1.4.2 Site-Related Treatment Systems

Degreaser Areas 1 and 2 Soil Vapor Extraction System

Unsaturated zone soils beneath the concrete floor in the areas of Degreasers No. 1 and No. 2 inside the Prestolite facility were determined to be impacted by chlorinated

VOCs and ethylbenzene. A soil vapor extraction (SVE) system was installed in the vicinity of the degreasers (see Figure 4). A total of 31 vapor extraction points were installed between the two degreasers and the extracted vapors were directed through granular activated carbon (GAC) canisters prior to exhausting to the atmosphere. SCOs for the organic COCs were established per the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 and are summarized in Table 3.

Table 3: SCOs for Degreaser Areas 1 and 2

CONSTITUENTS	SOIL CLEANUP OBJECTIVES (mg/kg)
1,2-Dichloroethene	0.3
Methylene chloride	0.1
Trichloroethene	0.7
Ethylbenzene	5.5

After four years of continuous operation, verification soil sampling in the vicinity of Degreaser No. 2 indicated that the SCOs were met and that portion of the SVE system was decommissioned. The SVE system around Degreaser No. 1 was reconfigured to optimize extraction and five additional extraction points were installed. After another year of operation, confirmation soil sampling in the vicinity of Degreaser No. 1 indicated that SCOs were met and the SVE system was decommissioned.

Wastewater Treatment Plant Area

Unsaturated soils around the wastewater treatment plant were documented to be impacted by metals, primarily cadmium, chromium and lead. Due to the estimated volume of impacted soils (approximately 16,591 cubic yards), the selected remedial alternative was to perform on-site stabilization of the soils using Portland cement to bind the metals within the soil matrix to preclude leaching to groundwater. A Waste Analysis Plan was developed and approved by the NYSDEC allowing for on-site treatment of the materials within 20-cubic yard roll-off boxes. SCOs for this area are summarized in Table 4 for the main COCs:

Table 4: SCOs for Wastewater Treatment Plant Area Soil Stabilization

CONSTITUENT	SOIL CLEANUP OBJECTIVE (mg/kg)
Cadmium	10
Chromium	18
Lead	30

The treatment objective for excavated soils was to pass the Toxicity Characteristic Leaching Procedure (TCLP) standards for cadmium, chromium and lead. A total of 24,894 tons of soil were treated to meet TCLP standards. Due to the bulking factor (i.e., increase in volume) associated with the stabilization process, approximately 5,567 tons of stabilized soil were sent for proper off-site disposal as non-hazardous waste to BFI Niagara Falls landfill. The remainder of the soil, once treated was placed back into the excavation, compacted and graded. This material was then covered with approximately 4,243 tons of clean, approved off-site fill to bring the excavation to within one-foot of original grade. Twelve inches of topsoil was then placed, graded to promote run-off and seeded.

Former Chemical Storage Building Area

Based on SI data, approximately 4,500 cubic yards of unsaturated zone soils around and beneath the Former Chemical Storage Building were impacted by a mixture of VOCs and metals. The area is shown on Figure 4. The building was removed to access the underlying soils. The soils in this area were treated in-situ. The VOCs were treated by a combination of mechanical mixing and thermal stripping using a Mobile Injection Treatment Unit (MITU). The MITU is a modified trenching machine outfitted with a thermal hood over the trenching arm that heated soils as they were mixed to thermally strip the VOCs. There was a vacuum attachment to the hood which would route the stripped VOC vapors through a granular activated carbon canister mounted on the back of the machine. The unit was also concurrently used to mix in a proprietary metals stabilization compound consisting of magnesium oxide and calcium phosphate. The SCOs and treatment goals for the metals impacts were the same as defined above. The SCOs for the volatile COCs are summarized in Table 5.

Table 5: SCOs for Soil Around Former Chemical Storage Building

CONSTITUENTS	SOIL CLEANUP OBJECTIVES (mg/kg)
Trichloroethene	0.7
Ethylbenzene	5.5
Toluene	1.5
Total Xylenes	1.2

Once the in-situ treatment was successfully complete, the area was regraded, and capped with an imported clean soil cover. The soil cover was graded to promote runoff and seeded.

Sub-slab Depressurization System

As a result of the new vapor intrusion regulations, in 2008 a soil vapor intrusion study determined that there is a potential for VOC vapor intrusion into the administrative office portion of the Prestolite facility. In February 2009, a pressure extension field study was performed beneath the concrete floor of the administrative offices space. This data was used to design a proper sub-slab depressurization system to mitigate the potential soil vapor intrusion pathway. A sub-slab depressurization system consisting of 12 depressurization points was subsequently installed in March 2009 around the administration portion of the facility. The system has been operating continuously since that time. Documentation of the system design and installation was provided to the NYSDEC in a letter report dated June 1, 2009.

In addition, three sub-slab depressurizations systems were installed at three properties immediately north of the Prestolite facility in 2014. The systems have been continuously operational since installation. The as-built documentation was provided to NYSDEC in a report dated July 2, 2014 and comment responses to questions were submitted on July 16, 2014.

1.4.3 Remaining Impacts

Former Run-off Receiving Area

Residual soil impacts may exist at depth at the water table interface in the Former Run-off Receiving Area. Verification sample data and an associated map are provided in Appendix F-1.

Degreaser Areas 1 and 2 Soil Vapor Extraction System

Residually impacted soils may exist beneath the floor slab of the Prestolite facility in the area of Degreasers 1 and 2. Verification sample data and an associated map are provided in Appendix F-2.

Wastewater Treatment Plant Area Soil Stabilization

Residually impacted soils exist beneath the soil cover in the vicinity of the Wastewater Treatment Plant. There is no formal demarcation layer, however, the stabilized soil mass will generally be graying in color and hardpan. Verification sample data and an associated map are provided in Appendix F-3.

Former Chemical Storage Building Area

Residually impacted soils exist beneath the soil cover in the vicinity of the Former Chemical Storage Building. There is no formal demarcation layer, however, the stabilized soil mass will generally be graying in color and hardpan. Verification sample data and an associated map are provided in Appendix F-4..

2.0 INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Since remaining impacted soil, groundwater and potential soil vapor exists beneath portions of the Site, ICs are required to protect human health and the environment. This Institutional Control Plan describes the procedures for the implementation and management of all ICs at the Site. The IC Plan is one component of the SMP as required under Section 6.2.1 of DER-10, and is subject to revision by NYSDEC.

2.1.2 Purpose

This plan provides:

- A description of all ICs on the Site;
- The basic implementation and intended role of each IC;
- A description of the key components of the ICs set forth in the deed restriction(s); and
- Any other provisions necessary to identify or establish methods for implementing the ICs required by the Site remedy, as determined by the NYSDEC.

2.2 ENGINEERING CONTROLS

2.2.1 Engineering Control Systems

2.2.1.1 Sub-slab Depressurization Systems

A sub-slab depressurization (SSD) system is installed around the administrative office portion of the Prestolite facility. As designed, a total of twelve extraction points were cored through the footer wall and into the aggregate below the floor slab. Four-inch diameter schedule 40 PVC pipe was run from each of the twelve extraction points to the centrally located fans with the overall system layout shown in the As-Built drawings in Appendix G. A total of six RadonAway GP501 fans were installed with two extraction points manifolded into each fan. This yielded a total of six individual subsystems working together to depressurize the entire footprint of the administration/office wing of the facility. PVC pipe was run from each fan for venting above the roof line. The system

was wired with 12/2 wire in exterior-rated conduit. The wire and conduit runs from fan to fan and is wired into the existing power for the building, running in two circuits. The subsystems on the east side of the building are wired separately from the subsystems on the west side of the building.

Once the complete SSD system was installed and all six fans turned on for several days, an Infiltec Micromanometer was used to collect readings of the amount of vacuum created by each of the six subsystems. Good air draw was documented from beneath the floor slab and the data indicated that the system is working and achieving the goal of depressurizing the floor slab beneath the administration/office wing of the Prestolite facility. The operation of this system mitigates the potential vapor intrusion exposure pathway for this facility.

Sub-slab depressurization systems were also installed at three properties immediately north of the Prestolite facility. Each installation includes a single fan connected to three to four extraction points. The operation of these systems mitigates the potential vapor intrusion exposure pathway for these properties.

Procedures for operating and maintaining the SSD systems are documented in the Operation and Maintenance Plan (Section 4 of this SMP). Procedures for monitoring of the systems are included in the Monitoring Plan (Section 3 of this SMP). The Monitoring Plan also addresses severe condition inspections in the event that a severe condition occurs which may affect controls at the site.

2.2.1.2 Soil Cover

Exposure to remaining impacts in soil/fill at the site is prevented by a soil cover system placed over the Wastewater Treatment Plant and Former Chemical Storage Building soil treatment areas. This cover system is comprised of a minimum of 12 inches of clean soil and 6 inches of topsoil. The access road to the Wastewater Treatment Building consists of 0.75-inch crushed aggregate. The Excavation Work Plan that appears in Appendix H outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining impacts are disturbed. Procedures for the inspection and maintenance of this cover are provided in the Monitoring Plan included in Section 4 of this SMP.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

2.2.2.1 Sub-slab Depressurization System

The SSD systems are intended to be continuously operated. The active SSD systems will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicate that the SSD systems are no longer required, a proposal to discontinue the SSD system operations will be submitted to the NYSDEC and NYSDOH.

2.2.2.2 Soil Cover System

The soil cover system over the stabilized soils in the vicinity of the Wastewater Treatment Building and the Former Chemical Storage Building is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity (see Section 3.2).

2.2.2.3 Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater impact levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

2.3 INSTITUTIONAL CONTROLS

A series of ICs are required to: (1) prevent future exposure to the remaining plume; and, (2) limit the use and development of the Site. Adherence to these ICs on the Site is required by the Declaration and will be implemented under this SMP. These ICs are:

- Groundwater use restriction;
- There shall be no construction of new buildings on the property;
- Compliance with the deed restriction(s) and this SMP by the Grantor and the Grantor's successors and assigns;
- Groundwater and other environmental monitoring must be performed as defined in this SMP; and
- Data and information pertinent to Site management must be reported at the frequency and in a manner defined in this SMP.

ICs identified in the Declaration and SMP may not be discontinued without NYSDEC approval.

The Site has a series of ICs, as noted above, in the form of Site restrictions. Adherence to these ICs is required by the Declaration. Restrictions that apply to this Site are:

- The use of groundwater beneath the Site as a source of potable or process water is prohibited unless water quality treatment, as determined to be necessary by the NYSDOH, is first implemented and only after having given prior notice to, and having received prior written approval from, the NYSDEC or other Relevant Agency;
- New building construction on the Site is prohibited.
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.3.1 Excavation Work Plan

The site has been remediated for restricted industrial use. Any future intrusive work that will penetrate the soil cover, or encounter or disturb the remaining impacts, including any modifications or repairs to the existing cover system will be performed in compliance with the Excavation Work Plan (EWP) that is attached as Appendix H to this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) prepared for the Site. A sample HASP is attached as Appendix I to this SMP that is in current compliance with DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP will be updated and re-submitted with the notification provided in Section H-1 of the EWP. Any intrusive construction work will be performed in compliance with the EWP and HASP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (See Section 5).

The site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining impacts, and for structures that may be affected by excavations (such as building foundations and

bridge footings). The Site owner will ensure that Site development activities will not interfere with, or otherwise impair or compromise, the engineering controls described in this SMP.

2.3.2 Soil Vapor Intrusion Evaluation

At this time, new construction on the Site is prohibited by the Declaration. If construction of new structures is required, the NYSDEC will need to be notified, the Declaration will need to be modified, and an SVI study in the proposed construction area will need to be performed to determine whether vapor intrusion controls will need to be included as part of building design. This will also be reflected in a modification to this SMP.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York". Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary SVI sampling data will be forwarded to the NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. If the property is owned by a third party, include the following: Validated SVI data will be transmitted to the property owner within 30 days of validation. SVI sampling results, evaluations, and follow-up actions will also be summarized in the next Periodic Review Report.

2.4 INSPECTIONS AND NOTIFICATIONS

2.4.1 Inspections

Inspections of all remedial components installed at the Site will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether Engineering Controls continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If site records are complete and up to date; and

- Changes, or needed changes, to the remedial or monitoring system.

Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3). The reporting requirements are outlined in the Periodic Review Reporting section of this plan (Section 5).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the site by a qualified environmental professional as determined by NYSDEC.

2.4.2 Notifications

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Order on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law.
- 15-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of other Engineering Controls and likewise any action to be taken to mitigate the damage or defect.
- Notice within 48-hours of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the site, including a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Order on Consent, and all approved work plans and reports, including this SMP
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing.

2.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

2.5.1 Emergency Telephone Numbers

In the event of any environmentally related situation or unplanned occurrence requiring assistance the Owner or Owner's representative(s) should contact the appropriate party from the contact list below. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to Ms. Terry Lockwood of Motorola Solutions at 602-760-4763 and Mr. James Bodensteiner of Prestolite at 585-492-1700 x520. This emergency contact list is provided in Table 6 and must be maintained in an easily accessible location at the Site.

Table 6: Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center:	(800) 272-4480 (3 day notice required for utility mark out)
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362
Ms. Terry Lockwood, Motorola Solutions.	(602) 760-4763
Mr. Richard Gnat, KPRG and Associates	(262) 781-0475
Mr. James Bodensteiner, Prestolite	(585) 492-1700 x520

* Note: Contact numbers subject to change and should be updated as necessary

2.5.2 Map and Directions to Nearest Health Facility

Site Location: 400 Main Street, Arcade, NY

Nearest Hospital Name: Bertrand Chaffee Hospital

Hospital Location: 224 E. Main Street, Springville, NY 14141

Hospital Telephone: 716-592-2871

Directions to the Hospital:

1. West on Main Street (Route 39) to Route 16 about 2.5 miles
2. Right on Route 16 (Route 39 also turns right) to Route 39/Scutt Road about 0.8 miles
3. Turn left onto Route 39/Schutt Road. Follow Route 39 to Springville where Route 39 also becomes Main Street about 10.1 miles
4. Hospital – 224 E. main Street will be on right.

A map showing the route to hospital is provided in Appendix I as part of the Health and Safety Plan (HASP) for the Site.

2.5.3 Response Procedures

As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency. The emergency telephone number list is found in the Table 6 at the beginning of this Contingency Plan.

3.0 SITE MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate residual impacts at the Site, the soil cover system, and all affected site media identified below. Monitoring of other Engineering Controls is described in Chapter 4, Operation, Monitoring and Maintenance Plan. This Monitoring Plan may only be revised with the approval of NYSDEC.

3.1.2 Purpose and Schedule

This Monitoring Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Assessing achievement of the remedial performance criteria.
- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Semi-annual monitoring of the performance of the remedy and overall reduction in impacts on-site will be conducted for the first two years after submittal of this SMP.

The frequency thereafter will be determined by NYSDEC. Trends in impact levels in groundwater in the affected areas, will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. The monitoring program is summarized in Table 7 and outlined in detail in Sections 3.2 and 3.3 below.

Table 7: Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Groundwater	Semi-annual	Water	VOCs and total/dissolved cadmium, chromium and lead

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

3.2 SOIL COVER SYSTEM MONITORING

The general boundary of the soil cover system to be inspected is shown on Figure 5. The inspector will also briefly focus on items such as the fence line and identify potential peripheral issues that may eventually impact the cover area itself. Site inspections will be performed by a designated employee of Prestolite Leese-Neville. This designated person will be a permanent employee at the facility and will be trained with regard to the remedial work performed and what to look for during the inspections.

The inspector will record all pertinent observations on site inspection forms which are provided in Appendix J. Information will be recorded in indelible ink and retained in a three-ring binder record book. The record book will be kept at a permanent secure location at the Prestolite facility. It will be accessible to any representative of a visiting agency during normal business hours.

Inspections are to be performed on a semi-annual basis in the Spring (after snow melt) and Fall of each year. Additional inspections may need to be performed due to severe weather such as flooding or tornadoes. The use of pre-established transect lines is discouraged and should be random, thus more of the entire inspection area will be examined over the course of several inspections as opposed to rigid transect routes. However, each inspection should always include a traverse of the drainage swale to the south and the entire length of Cemetery Creek where run-off may enter from the stabilized soil area.

In the walkover, the inspector will be cognizant of the following possible conditions that could affect the integrity of the soil cover:

- Evidence of settlement which could manifest itself as:
 - tension cracks in the ground surface,
 - escarpments, bulges or other such features,
 - ponding of water,
 - soft spots or ruts where mowing equipment sank excessively,
 - excessive erosion or gullying
- Evidence of large burrowing animals.
- Areas of vegetation problems (either stressed vegetation or the growth of brush and trees).
- Evidence of maintenance needed for site security (e.g., integrity of fencing, signage, etc.).

Any problems found during the inspection which require maintenance will be recorded and brought to the attention of the Prestolite Plant Manager. Any required maintenance activities, as discussed below, will be implemented in a timely and effective manner.

Maintenance will include repair of any of the following: security control devices, erosion or substantial cracking of the soil cover, settlement depressions and storm water runoff structure impediments such as breached swales. If during the course of the inspection a problem is discovered, Prestolite will assess the situation and initiate necessary remedial responses in an appropriate timeframe. Prestolite will also assess the severity of the situation and determine if notification of the NYSDEC is warranted. The method and results of the maintenance activity will be recorded in the semi-annual or annual inspection report, submitted to the NYSDEC as follow-up documentation along with groundwater monitoring results.

The following is a description of the potential preventative and corrective maintenance needs for the various portions of the soil cover system and drainage control structures.

Repair of Security Control Devices – Damaged security control devices including signs, fencing and locks will be replaced or fixed promptly as warranted.

Repair of Erosion or Cracks of Soil Cover – The surface soil cover system has been graded and seeded to prevent erosion. Erosion of the surface soil is prevented through the maintenance of a dense vegetative cover over the entire area as well as proper design of side slopes entering Cemetery Creek. Eroded portions of the surface soil cover, or those areas where surface cracking has occurred, will be repaired promptly through the placement of clean soil material capable of promoting vegetative growth. The repaired area will be reseeded and maintained so that dense vegetative growth is promoted. Any other area of the cover system that is found to be lacking sufficient vegetation will be reseeded.

Repairs should always be undertaken with hand tools if at all practical. If larger repairs are necessary, the inspector should enlist the aid of a competent engineer to properly design the repair and oversee its implementation.

Repair of Settlement Depressions – Based on the physical nature of the stabilized soil mass and the recompaction that was performed upon completion of remedial activities, differential settlement is not expected to be a significant issue. If settlement depressions should occur, the affected area of cover should be repaired promptly. Repairs will include additions of clean earthen materials to match the adjacent land surface and regrading, as necessary, to promote runoff and prevent further ponding. The earthen material used should be capable of promoting vegetative growth. The area should be reseeded.

Repair of Storm water Control Structures – A drainage swale has been constructed south (uphill) of the stabilized soil area to intercept and route storm water sheet-flow around the area. Potential breaches and damage in the swale will be repaired promptly upon discovery. Repairs will include regrading, removal of excessive siltation or obstructions to flow, repair of the channel bottom, additions of earthen materials and/or stone to eliminate eroded areas, and revegetation as necessary to prevent disruption of the storm water management system.

Control of Vegetation – Periodic mowing of the site is recommended. Mowing height should be sufficient to preclude excessive drying of the vegetal cover which may increase erosion potential.

3.2 MEDIA MONITORING PROGRAM

Groundwater monitoring at the Site has been ongoing since 1992. A formal groundwater monitoring program will continue as part of post-remediation activities until approval to discontinue is granted in writing by the NYSDEC through a No Further Action letter or other relevant documentation. The purpose of the environmental monitoring program will be to monitor the continued effectiveness of remedial activities. The groundwater monitoring program is detailed below.

3.2.1 Groundwater Monitoring

Groundwater monitoring will be performed on a periodic basis to assess the performance of the remedy. The wells used in the monitoring program are summarized on Table K-1 in Appendix K along with the rationale used for choosing each well. A well construction summary is provided on Table K-2. The well locations are shown on Figure 2. All samples collected will be analyzed for VOCs and total and dissolved cadmium, chromium and lead. Specific analytical protocols are provided in Section 3.2.1.1. Monitoring well construction logs are included in Appendix L.

The monitoring well network will provide continued monitoring of the effectiveness of the remediation performed at the Site. At this time, monitoring/sampling will be performed on a semi-annual basis. The sampling frequency may be modified with the approval of NYSDEC. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.

All submissions, including data, must comply with the Department's "Electronic Data Deliverables" policy. All groundwater monitoring data will also be provided to the NYSDEC in an annual Periodic Review Report. If monitoring data suggests a significant unexpected deviation in results from previous monitoring, the NYSDEC will be notified within 10 days of receipt of the analytical report.

3.2.1.1 Sampling Protocol

All monitoring well sampling activities will be recorded on field log sheets. The well sampling log will serve as the inspection form for the groundwater monitoring well network. Groundwater samples will be collected from all monitoring wells using the following procedures:

- Depth to water will be determined using an electric water level indicator. The bottom of each well will be sounded for the potential buildup of sediment in the well. The volume of water in the well casing will then be calculated.
- A minimum of three well volumes of water will be purged from the well with a PVC or Teflon bailer prior to sampling. The purge water will be released on the ground at the well location.
- Purging will continue until three successive pH, specific conductance and temperature measurements show stable conditions to ensure that the sample is representative of formation water. If the well bails dry before removing three complete well volumes, the well will be allowed to recharge for up to 30 minutes, and sample collection will be initiated. If the well is found to be "dry", no sample will be collected from the well during that sampling event.
- The sample will be collected using a PVC or Teflon bailer. Sample water will be poured directly into laboratory prepared containers.
- The bailers will be cleaned between each use by scrubbing with an Alconox solution, followed by thoroughly rinsing the bailer with distilled water. Dedicated or disposable sampling equipment may also be used precluding the need for cleaning between samples.

3.2.1.2 Monitoring Well Repairs, Replacement and Decommissioning

If biofouling or silt accumulation occurs in the monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, a monitoring well will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the well unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent periodic report. Well decommissioning without replacement will be done only with the prior approval of NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by the NYSDEC.

3.3 MONITORING QUALITY ASSURANCE/QUALITY CONTROL

All sampling and analyses will be performed in accordance with the following quality assurance/quality control (QA/QC) procedures:

3.3.1 Field QC Samples

Two types of QC samples will be collected and analyzed as part of the monitoring program. These are:

- Trip blanks; and
- Duplicates

The sample collection procedures for each QC sample type are detailed below.

3.3.1.1 Trip Blanks

For this monitoring program, one trip blank per sampling event will accompany the sample bottles to and from the Site. The Trip Blank will be analyzed for VOCs. It will be prepared in the lab using Ultra-Pure water (HPLC-grade water) poured into prepared 40-millileter vials.

3.3.1.2 Duplicates

One duplicate will be collected for each sampling event for field QA/QC purposes. Sampling procedures for duplicate samples will be identical to those used to collect the monitoring samples. Additionally, if necessary for laboratory QA/QC purposes, extra sample volume will be collected for matrix spike, matrix spike duplicate and matrix spike blank analysis.

3.3.2 Sample Numbering System

All samples for chemical analysis, including QC samples, will be given a unique sample number. A listing of samples numbers will be maintained on the chain-of-

custody and on the field logs. The samples will be number based on the well sampled. For example MW-1 will be the groundwater sample from well MW-1.

The QC duplicate sample will be assigned a specific sample number and submitted to the laboratory blind.

3.3.3 Sample Handling

3.3.3.1 Sample Containers and Sample Preservation

Samples will be handled and shipped as low-concentration environmental samples. The containers used to collect samples for chemical analysis will be provided by the contracted laboratory. These containers will be specific to the analysis and volume requirements of a particular sample matrix. Table K-3 in Appendix K summarizes the sample containers to be utilized, a preservation techniques and holding time requirements.

3.3.3.2 Sample Packaging and Shipment

Sample packaging and shipping procedures are based on U.S. EPA specifications, as well as Department of Transportation (DOT) regulations. The procedures vary according to samples concentration and matrix, and are designed to provide optimum protection of samples and the public.

3.3.4 Sample Documentation

Field observations and other information pertinent to the collection of samples will be recorded on field sheets. The data to be recorded for each sample will include date, time, sample number, sample description, field measurements and the person collecting the sample. Notes and documentation will also be made relative to the integrity and condition of the monitoring well (e.g., condition of protector casing, runoff apron, etc.). A general Site inspection will also be made during each sampling. The inspection will be focused on the condition of the monitoring wells including the runoff aprons and locks. The field logbook/notes will be maintained by the sampling contractor and copies will be provided to Motorola Solutions and/or its designated consultant.

3.3.5 Analytical Program

All samples collected as part of this monitoring program will be analyzed for Target Compound List (TCL) VOCs and total and dissolved cadmium, chromium and lead in accordance with the methods specified in the NYSDEC Analytical Services Protocol (ASP) dated June, 2005.

3.4 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular monitoring events and inspections will be kept on file. All forms, and other relevant reporting formats used during the monitoring/inspection events, will be (1) subject to approval by NYSDEC and (2) submitted as part of the annual Periodic Review Report.

All submissions, including data, must comply with the Department's "Electronic Data Deliverables" policy. A summary of the monitoring program deliverables are summarized in Table 8 below.

Table 8: Schedule of Monitoring/Inspection Reports

Task	Reporting Frequency*
Groundwater Monitoring	Semi-Annually
Reporting	Annual

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC. Electronic submittal of analytical data will be provided in accordance with the Department's "Electronic Data Deliverables" policy.

If monitoring data suggests a significant unexpected deviation in results from previous monitoring, the NYSDEC will be notified within 10 days of receipt of the analytical report.

4.0 OPERATION AND MAINTENANCE PLAN

4.1 INTRODUCTION

This Operation and Maintenance Plan describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the Site. This Operation and Maintenance Plan:

- includes the steps necessary to allow individuals unfamiliar with the site to operate and maintain the SSD system;
- includes an operation and maintenance contingency plan; and,
- will be updated periodically to reflect changes in site conditions or the manner in which the SSD system is operated and maintained.

Information on non-mechanical Engineering Controls (i.e. soil cover system) is provided in Section 3 - Engineering and Institutional Control Plan. A copy of this Operation and Maintenance Plan, along with the complete SMP, will be kept at the site. This Operation and Maintenance Plan is not to be used as a stand-alone document, but as a component document of the SMP.

4.2 ENGINEERING CONTROL SYSTEM OPERATION AND MAINTENANCE

Full scale SSD system installation for the administrative wing of the Prestolite facility was initiated at the beginning of March, 2009 and completed on March 17, 2009. As designed, a total of twelve extraction points were cored through the footer wall and into the aggregate below the floor slab. Four-inch diameter schedule 40 PVC pipe was run from each of the twelve extraction points to the centrally located fans with the overall system layout and construction shown on the As-Built drawings in Appendix G. A total of six RadonAway GP501 fans were installed with two extraction points manifolded into each fan. This yielded a total of six individual subsystems working together to depressurize the entire footprint of the administration/office wing of the facility. PVC pipe was run from each fan for venting above the roof line. The system was wired with 12/2 wire in exterior-rated conduit. The wire and conduit runs from fan to fan and is wired into the existing power for the building, running in two circuits. The subsystems on the east side of the building are wired separately from the subsystems on the west side of the building.

Once the complete sub-slab depressurization system was installed and all six fans turned on for several days, an Infiltec Micromanometer was used to collect readings of the amount of vacuum created by each of the six subsystems. The resulting measurements (see Section 4.3.1) documented a good air draw from beneath the floor

slab. A review of the data indicated that the system is working and achieving the goal of depressurizing the floor slab beneath the administration/office wing of the Prestolite facility. The operation of this system mitigates the potential vapor intrusion exposure pathway for this facility. The As-Built drawings are provided in Appendix G.

In addition, three SSD systems were installed at properties immediately north of the Prestolite facility in June 2014. The as-built documentation was submitted to NYSDEC on July 2, 2014 and responses to comments were submitted on July 16, 2014. The as-built documentation is also included within Appendix G.

4.2.1 Scope

The operation and maintenance requirements for the systems are minimal. Annual checks that the fans are running, piping is in good condition and that the manometers for each of the systems are showing consistent draw. If a portion of the systems indicates that maintenance is necessary, a qualified SSD system installer should be contacted to inspect and repair the issue. The installer of the existing SSD system was Certified Radon Systems (contact Mr. Scott Bacon at 716-713-8098).

4.2.2 System Start-Up and Testing

In February 2009, system start-up and testing was performed to document proper operation for the Prestolite SSD system. The same testing occurred with the installation of the three off-site SSD systems. System(s) restart and testing will need to be performed if, in the course of the SSD system(s) lifetime, significant changes are made to the system, and the system must be restarted. This should only be performed by either the installer of the existing SSD system(s) or another qualified installer. The contact information for the installer of the existing systems is provided in Section 4.2.1 above.

4.2.3 System Operation: Routine Operation Procedures

The systems are designed to operate continually with no operational requirements outside of routine inspections discussed below.

4.2.4 System Operation: Routine Equipment Maintenance

The systems are designed to operate continually with minimal maintenance requirements. System inspections are limited to making sure that the fans are operational, piping is in good condition and checking the manometers to verify that vacuum continues to be pulled. If a portion of the system(s) indicate that maintenance is necessary, a qualified SSD system installer should be contacted to inspect and repair the issue. The installer of the existing SSD system was Certified Radon Systems (contact Mr. Scott Bacon at 716-713-8098).

The schedule for SSD system inspection is a routine annual check of the fans and piping and to record manometer readings to document that the system is operating.

4.3 ENGINEERING CONTROL SYSTEM PERFORMANCE MONITORING

The only engineering control system is the SSD system. A description of the system and start date of operations is provided as an introduction to Section 4.0 above. It was installed to mitigate possible soil vapor intrusion into occupied buildings.

4.3.1 Monitoring Schedule

The baseline manometer readings at the startup of the system at the Prestolite facility are provided in the Table 9 below.

Table 9: Baseline Readings of Manometers

SUBSYSTEM NO.	LOCATION	MEASUREMENT OF WATER COLUMN (IN.)
Subsystem #1	NE corner of building	-0.350
Subsystem #2	Center of east wall of building	-.0670
Subsystem #3	SE corner of building	-0.785
Subsystem #4	NW corner of building	-0.267
Subsystem #5	Center of west wall of building	-0.460
Subsystem #6	SW corner of building	-0.480

The inspection frequency of the Prestolite and off-site SSD systems will be annual. The inspection is to check that the fans are running, piping is intact and to record manometer readings to document ongoing effectiveness.

Inspection frequency is subject to change with the approval of the NYSDEC. Unscheduled inspections and/or sampling may take place when a suspected failure of the SSD system has been reported or an emergency occurs that is likely to affect the operation of the system. Monitoring deliverables for the SSD system are specified later in this Plan.

4.3.2 General Equipment Monitoring

A visual inspection of the complete systems will be conducted during the monitoring event. SSD system components to be monitored include, but are not limited to, the fans, piping and manometer readings.

A complete list of components to be checked is provided in the Inspection Checklist, presented in Appendix G. If any equipment readings are not within their typical range, any equipment is observed to be malfunctioning, or the system is not performing within specifications, maintenance and repair as per the Operation and Maintenance Plan are required immediately, and the SSD system(s) restarted per Sections 4.2.2 through 4.2.4.

4.4 MAINTENANCE AND PERFORMANCE MONITORING REPORTING REQUIREMENTS

Maintenance reports and any other information generated during regular operations at the site will be kept on-file on-site. All reports, forms, and other relevant information generated will be available upon request to the NYSDEC and submitted as part of the Periodic Review Report, as specified in the Section 5 of this SMP.

4.4.1 Routine Maintenance Reports

Checklists or forms (see Appendices G) will be completed during each routine maintenance event. Checklists/forms will include, but not be limited to the following information:

- Date;
- Name, company, and position of person(s) conducting maintenance activities;
- Maintenance activities conducted;
- Any modifications to the system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and,
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

4.4.2 Non-Routine Maintenance Reports

During each non-routine maintenance event, a form will be completed which will include, but not be limited to, the following information:

- Date;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Presence of leaks;

- Date of leak repair;
- Other repairs or adjustments made to the system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and,
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

5. INSPECTIONS, REPORTING AND CERTIFICATIONS

5.1 SITE INSPECTIONS

5.1.1 Inspection Frequency

All inspections will be conducted at the frequency specified in the schedules provided in Section 3 Monitoring Plan and Section 4 Operation and Maintenance Plan of this SMP. At a minimum, a site-wide inspection will be conducted annually. Inspections of remedial components will also be conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

5.1.2 Inspection Forms, Sampling Data, and Maintenance Reports

All inspections and monitoring events will be recorded on the appropriate forms for their respective systems. These forms are found in Appendices G and J.

All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the site during the reporting period will be provided in electronic format in the Periodic Review Report.

5.1.3 Evaluation of Records and Reporting

The results of the inspection and site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- Operation and maintenance activities are being conducted properly; and, based on the above items,
- The site remedy continues to be protective of public health and the environment and is performing as designed in the RAWP and FER.

5.2 CERTIFICATION OF ENGINEERING AND INSTITUTIONAL CONTROLS

After the last inspection of the reporting period, a qualified environmental professional will prepare the following certification:

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program; and
- The information presented in this report is accurate and complete.
- I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, (designated Motorola Solutions representative), of Motorola Solutions, am certifying as Owner's Designated Site Representative for the Site.

The signed certification will be included in the Periodic Review Report described below.

Since the NYSDEC has determined that the Site does not represent a significant threat to public health or the environment, however residual impacts in groundwater exist which exceed drinking water standards, the following additional statements will be included in the above noted certification:

- No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to

indicate that the assumptions made in the qualitative exposure assessment of off-site impacts are no longer valid; and

- Every five years the following certification will be added:
- The assumptions made in the qualitative exposure assessment remain valid.

The signed certification will be included in the Periodic Review Report described below.

5.3 PERIODIC REVIEW REPORT

A Periodic Review Report will be submitted to the Department every year. In the event that the Site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the Site described in Appendix B (Metes and Bounds). The report will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format;
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations (if appropriate) of constituents of concern by media (groundwater, soil vapor), which include a listing of all compounds analyzed. These will include a presentation of past data as part of an evaluation of constituent concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the site-specific ROD or Decision Document;
 - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;

- o Any new conclusions or observations regarding site impacts based on inspections or data generated by the Monitoring Plan for the media being monitored;
- o Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
- o The overall performance and effectiveness of the remedy.

The Periodic Review Report will be submitted, in electronic and hard-copy format, to the NYSDEC Regional Office in which the Site is located.

5.4 CORRECTIVE MEASURES PLAN

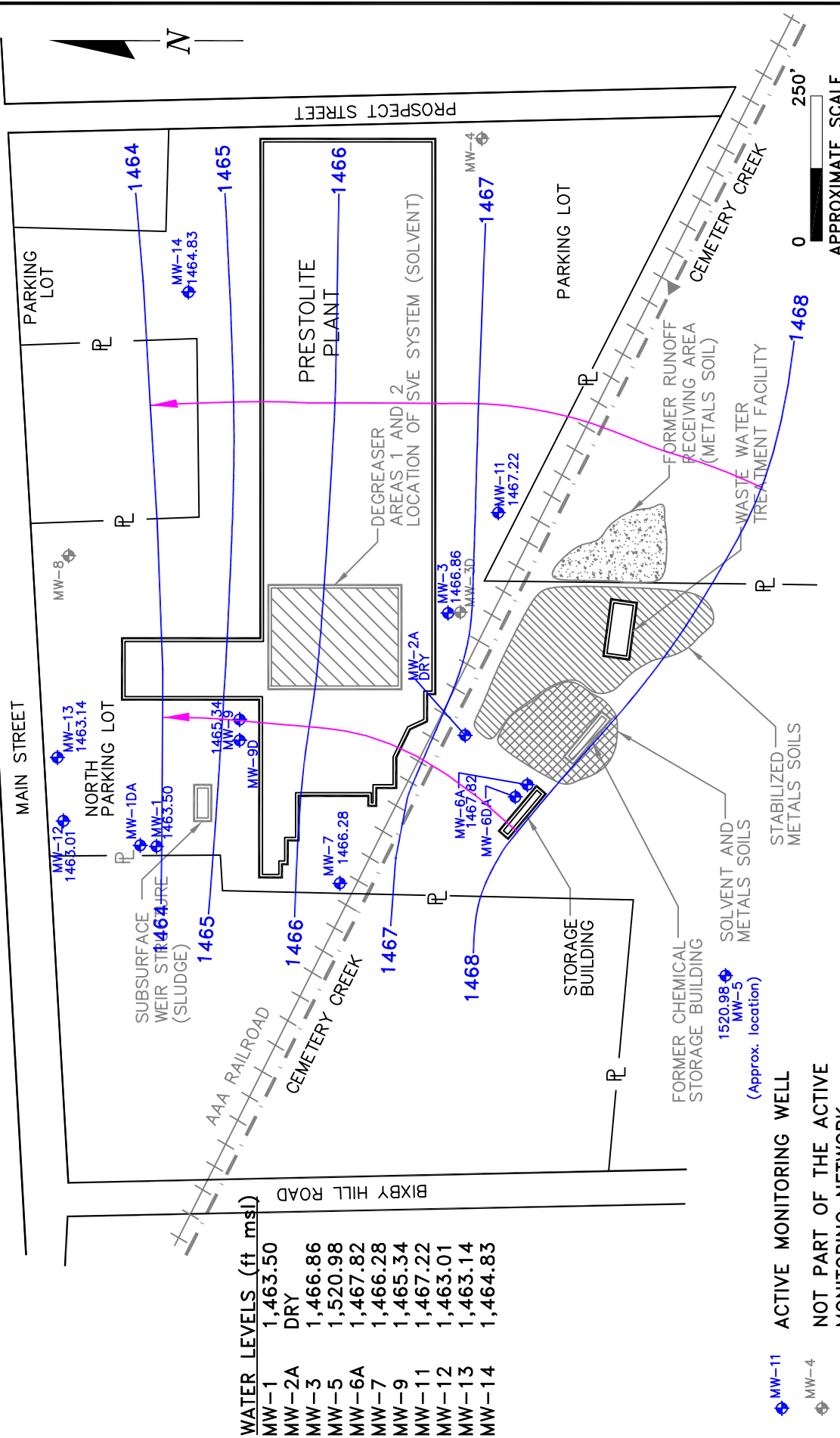
If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a corrective measures plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the corrective measures plan until it is approved by the NYSDEC.

FIGURES



ENVIRONMENTAL CONSULTATION & REMEDIATION		SITE AREA MAP	
K P R G KPRG and Associates, Inc. 14665 West Libon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1933		Prestolite Leece – Neville Site Arcade, New York	
		Scale: 1" = 300'	Date: June 28, 2010
		KPRG Project No. 21803.8	
			FIGURE 1

w:\c\p\p\projects\motorola\arcade 2012\gw 8-2012.dwg



WATER LEVELS (ft msl)	
MW-1	1,463.50
MW-2A	DRY
MW-3	1,466.86
MW-5	1,520.98
MW-6A	1,467.82
MW-7	1,466.28
MW-9	1,465.34
MW-11	1,467.22
MW-12	1,463.01
MW-13	1,463.14
MW-14	1,464.83

- MW-11
- MW-4
- 1468
- GROUNDWATER CONTOUR
- FLOWLINE
- ACTIVE MONITORING WELL
- NOT PART OF THE ACTIVE MONITORING NETWORK

All locations and dimensions are approximate.

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R C

KPRG and Associates, inc.

14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

GROUNDWATER CONTOUR MAP 8/2012

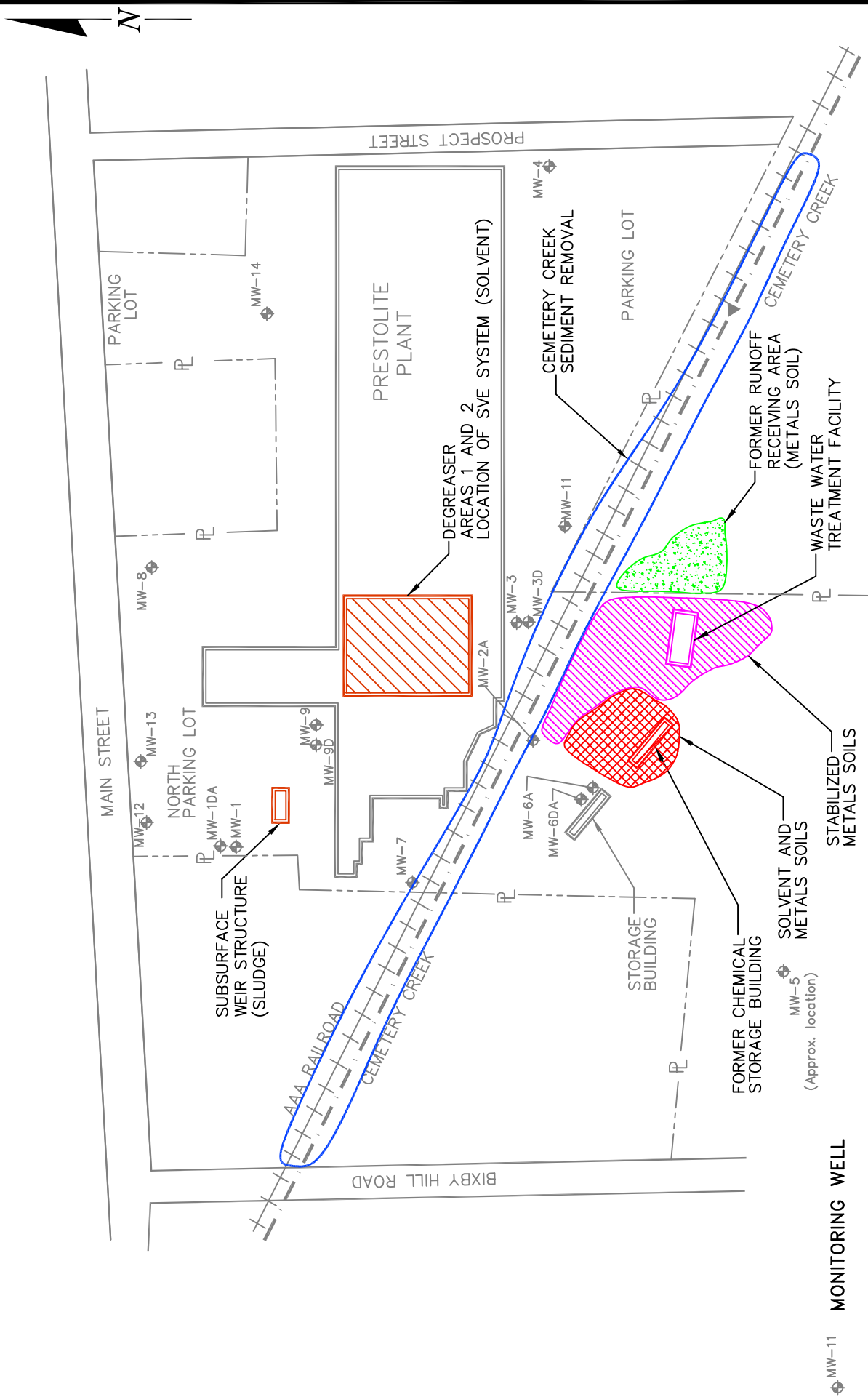
Motorola Solutions, Inc.
Prestolite Plant
Arcade, New York

Scale: 1" = 250'

Date: September 24, 2012

KPRG Project No. 21803.10

FIGURE 3



0 250'
APPROXIMATE SCALE

APPROXIMATE SCALE

All locations and dimensions are approximate.

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, inc.

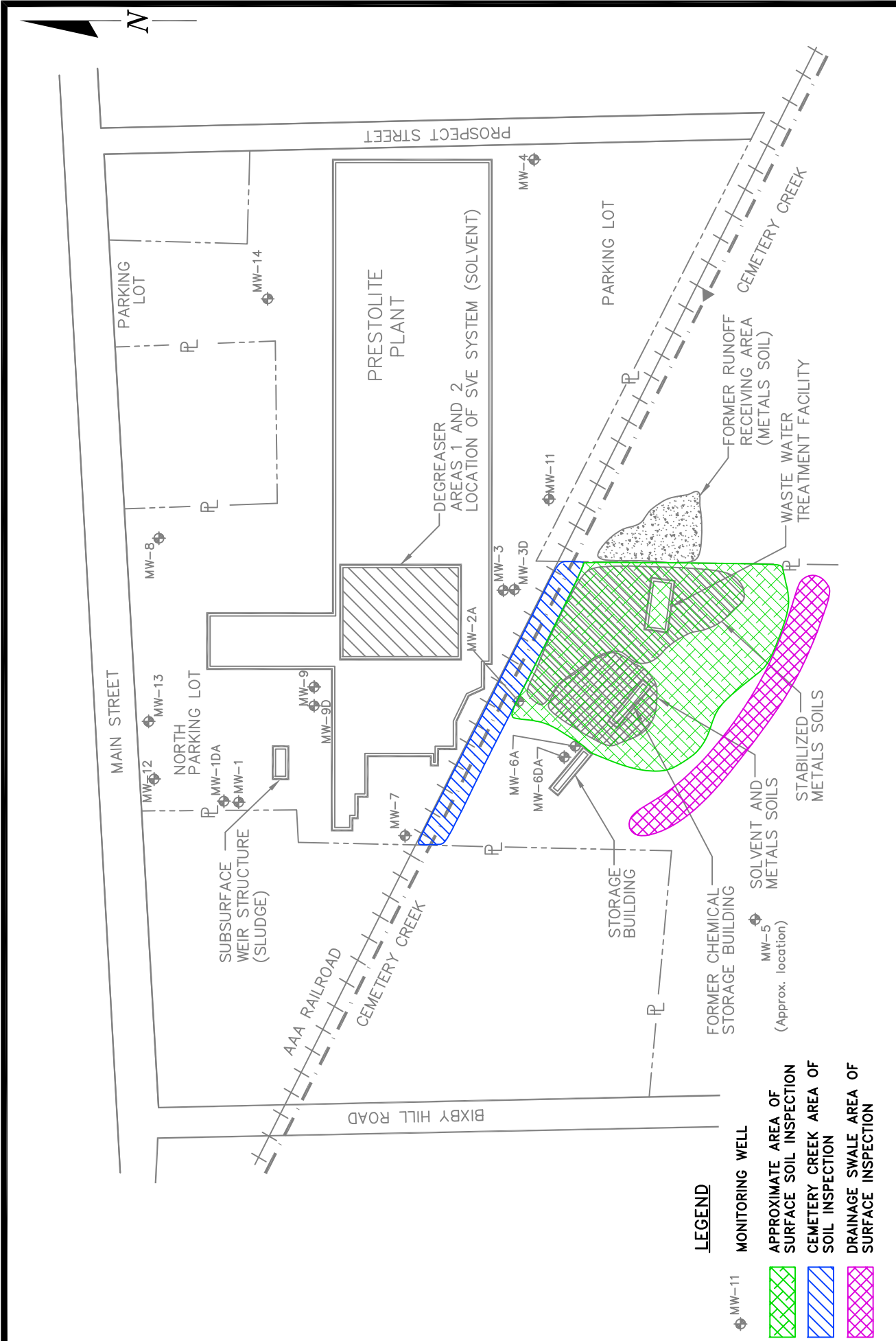
14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

IRM LOCATION MAP

**Motorola Solutions, Inc; Prestolite Plant
Arcade, New York**

Scale: 1" = 250'	Date: February 1, 2013

KPRG Project No. 21803.10	FIGURE 4



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, Inc.
 14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478
 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

GENERAL BOUNDARY OF COVER SYSTEM TO BE INSPECTED

Motorola Solutions, Inc; Prestolite Plant Arcade, New York

Scale: 1" = 250'

Date: February 1, 2013

KPRG Project No. 21803.10

FIGURE 5

0 250'

APPROXIMATE SCALE

All locations and dimensions are approximate.

APPENDIX A
Order on Consent

2-9-95

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Consent Order

In the Matter of the
Development and Implementation
of an Interim Remedial Measure Program
for an Inactive Hazardous Waste Disposal
Site, Under Article 27, Title 13,
and Article 71, Title 27 of the
Environmental Conservation Law
of the State of New York
by
MOTOROLA, INC. AND PRESTOLITE ELECTRIC INC.
Respondents.

ORDER
ON
CONSENT
INDEX # B9-0468-94-11

WHEREAS,

1. The New York State Department of Environmental Conservation (the "Department") is responsible for enforcement of Article 27, Title 13 of the Environmental Conservation Law of the State of New York ("ECL"), entitled "Inactive Hazardous Waste Disposal Sites." This Order is entered into pursuant to the Department's authority under ECL Article 27, Title 13 and ECL 3-0301.

2. Motorola, Inc. ("Motorola"), and Prestolite Electric, Inc. ("Prestolite"), are foreign corporations organized and existing under the laws of the State of Delaware and are authorized to do business in the State of New York.

3. Motorola and Prestolite will hereafter be referred to jointly as "Respondents".

4. Motorola formerly owned and Prestolite presently owns certain real property located at 400 Main Street, Town of Arcade, Wyoming County, State of New York (the "Site") and have entered into an agreement between them (Motorola and Prestolite) to

undertake various remedial activities at the Site. Except as otherwise specifically provided herein Prestolite is a party to this Order solely as a result of the corporations' ownership of the property comprising the Site. Prestolite's primary obligation under this Order is to provide access to the Site.

5. Motorola has also held discussions with the Department concerning the various remedial activities at the Site and to offer reassurance to the Department that these activities would be performed in accordance with the standards required by the ECL and accompanying regulations in the event Respondents proceeded with these remedial activities.

6. Based upon available information, although the Department suspects that a hazardous waste has been disposed at the site, the Site has not been listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

7. A. Pursuant to ECL 27-1313.3.a, whenever the Commissioner of Environmental Conservation (the "Commissioner") "finds that hazardous wastes at an inactive hazardous waste disposal site constitute a significant threat to the environment, he may order the owner of such site and/or any person responsible for the disposal of hazardous wastes at such site (i) to develop an inactive hazardous waste disposal site remedial program, subject to the approval of the Department, at such site, and (ii) to implement such program within reasonable time limits specified in the order."

B. Any person under order pursuant to ECL 27-1313.3.a

has a duty imposed by ECL Article 27, Title 13 to carry out the remedial program committed to under order. ECL 71-2705 provides that any person who fails to perform any duty imposed by ECL Article 27, Title 13 shall be liable for civil, administrative and/or criminal sanctions.

C. The Department also has the power, inter alia, to provide for the prevention and abatement of all water, land, and air pollution. ECL 3-0301.1.i.

8. Motorola has submitted, and the Department has approved, a Work Plan for an Interim Remedial Measure for on-site soil stabilization and other activities at a portion of the site which is incorporated into this Order as Appendix "A". This Work Plan implements activities consistent with 40 C.F.R. Part 300 and the National Contingency Plan.

9. Motorola shall also submit to the Department a Scope of Work for the development and implementation of the following Work Plans: (a) Cemetery Creek Characterization and Remediation Plan, (b) a Ground Water Characterization Plan and (c) a Volatile Organic Compound Impacted Soil Characterization and Remediation Plan for the Site. The Scope of Work ("SOW"), upon review and approval by the Department, shall be attached to and incorporated into this Order as Appendix "B".

10. The Department and Respondents agree that the goals of this Order are that Respondents (a) implement an Interim Remedial Measure Program ("IRM Program") at a portion of the Site pursuant to Appendix "A", (b) shall develop and perform the tasks set

forth in the SOW as approved by the Department, within the time limits specified therein and (c) reimburse the State's administrative costs.

11. Respondents, having waived their right to a hearing herein as provided by law, and having consented to the issuance and entry of this Order, agree to be bound by its terms. Respondents consent to and agree not to contest the authority or jurisdiction of the Department to issue or enforce this Order, and agree not to contest the validity of this Order or its terms other than as provided in Paragraph XIII herein. This Order does not relieve Respondents of any obligations they may have to perform any further investigation of Site conditions, including a Remedial Investigation and Feasibility Study, and if necessary, additional remedial activities at the Site.

NOW, having considered this matter and being duly advised, IT IS ORDERED THAT:

I. Information Submittal

Within 60 days after the effective date of this Order, Motorola shall submit to the Department all data within their possession or control regarding the presence or suspected presence of hazardous wastes at the Site, to the extent that such data has not been previously been provided to the Department. The data shall include:

a) a brief history and description of the Site to the extent known, an identification of the types, estimated quantities, physical state, location and dates of disposal of hazardous

waste, as well as the names of "responsible parties" and their relationship to the waste and to the Site; and

b) a description of the results of any previous environmental investigations of the Site performed by or on behalf of the Respondents together with copies of topographic surveys, property surveys, engineering studies and aerial photographs in the possession of the Respondents.

II. Performance and Reporting of IRM Program

A. Pursuant to the schedule in Appendix "A", Motorola shall commence and perform the IRM Program.

B. During the performance of the IRM Program, Motorola must have on-Site a full-time representative who is qualified to supervise the work done.

C. Within the time frame set forth in the IRM Work Plan, Motorola must prepare an IRM report that includes all data generated and all other information obtained during the IRM Program and identifies any additional data relevant to the remediation of the Site that must be collected ("IRM Report"). The IRM Report shall be prepared by and have the signature and seal of a professional engineer who shall certify that the IRM Report was prepared in accordance with this Order. ✓

III. Progress Reports

A. If the IRM field work requires more than two months for completion, Motorola shall submit to the parties identified in subparagraph XI in the numbers specified therein copies of written monthly progress reports that: (i) describe the actions

which have been taken toward achieving compliance with this Order during the previous month; (ii) include all results of sampling and tests and all other data relevant to the remediation of the Site generated by Motorola or Motorola's contractors or agents in the previous month, including quality assurance/quality control information, whether conducted pursuant to this Order or conducted independently by Respondents; (iii) identify all work plans, reports, and other deliverables required by this Order that were completed and submitted during the previous month; (iv) describe all actions, including, but not limited to, data collection and implementation of work plans, that are scheduled for the next month and provide other information relating to the progress at the Site; (v) include information regarding percentage of completion, unresolved delays encountered or anticipated that may affect the future schedule for implementation of Respondents' obligations under the Order, and efforts made to mitigate those delays or anticipated delays; and (vi) include any modifications to any work plans that Motorola has proposed to the Department or that the Department has approved. Motorola shall submit these progress reports to the Department by the tenth day of every month following the effective date of this Order in the event that the foregoing requirements of subparagraph III(A) of this Order are brought into effect by performance of IRM field work requiring more than two (2) months for completion.

B. Respondents shall allow the Department to attend, and

Motorola shall provide the Department at least seven days advance notice herein of the occurrence of, any of the following, if any such meetings or inspections take place: prebid meetings, job progress meetings, substantial completion meeting and inspection, and final inspection and meeting.

IV. Scope of Work

A. Within 90 days of the effective date of this Order, Motorola shall submit to the Department for its review and approval the SOW for development and implementation of the Work Plans described below:

(1) Cemetery Creek Characterization/Remediation Plan

Motorola shall develop a Work Plan, based upon the SOW for submittal to the Department, detailing a sediment sampling program to determine the potential extent of cadmium impacts for Cemetery Creek. The Work Plan shall be prepared in accordance with Department requirements and submitted to the Department within 30 days after the Department's approval of the SOW. Upon approval, Motorola shall commence and perform the Work Plan.

Within a time frame set forth in the approved Work Plan, Motorola shall prepare a Cemetery Creek Characterization/Interim Remedial Measures Plan ("Creek IRM") that includes all data generated and all other pertinent information obtained during implementation of the Work Plan. Upon approval, Motorola shall commence with implementation of the Creek IRM, as necessary.

(2) Groundwater Characterization Plan

Motorola shall prepare a Groundwater Characterization

submittal which shall summarize all groundwater data to date, provide details regarding the soil vapor extraction (SVE) system installed beneath the slab floor of the Prestolite facility to address suspect VOC source(s) and an evaluation of the current effectiveness of the remedy. The submittal shall include engineering backup justifying why the SVE option was selected and shall include proposed remediation criteria for the soils. In addition, recommendations shall be made for any additional groundwater characterization necessary to define the extent of groundwater impacts and provide contaminant migration pathway analysis along with a schedule for implementation of remediation, if necessary.

(3) Volatile Organic Compound (VOC) Impacted Soil Characterization/Remediation Plan

Motorola shall prepare a VOC Soil Characterization/Interim Remedial Measures Plan ("Soil IRM") for VOC impacted soils in the vicinity of the former chemical storage building. The Soil IRM Plan shall be prepared in accordance with Department requirements and submitted for Department review and approval. Upon approval, Motorola shall implement the Soil IRM Plan.

B. The review and approval of the SOW, and each of the required submittals, shall be in accordance with paragraph V of this Order. The submittals shall be prepared by and have the signature and seal of a professional engineer who shall certify that the submittals were prepared in accordance with this Order.

C. Any Work Plans required by the approved SOW, must

describe the remedial objectives of the IRM Program and the methods and procedures to be implemented to achieve the objectives. Accordingly, it must include, but not be limited to, the following:

1. To the best of Respondents' current understanding, a brief history and description of the Site, including the types, quantities, physical state, location, and dates of disposal of hazardous waste, including methods of disposal and spillage of such wastes, Site physiology, geology, and ground and surface water hydrology;
2. Identification of the initial data quality objectives. If sufficient information does not presently exist to identify those objectives, the IRM Work Plan must define the technical data needed and the timetable to be followed to gather the necessary information to identify those objectives;
3. A chronological description of the anticipated IRM activities together with a schedule for the performance of those activities. The activities described must include, at a minimum:
 - a. Site preparation (including clearing and grubbing, and development of access roads, office trailer(s), a field laboratory, utilities, consolidation tank(s), decontamination pad(s), drum staging area(s), and equipment);
 - b. detailed flow, construction and equipment diagrams and specifications;
 - c. excavation (including descriptions of

how it will be undertaken);

d. waste handling (including inventorying of the waste by quantity, physical state, labeling, and contents; and management of the soil);

e. preparing waste for transportation and disposal (including proper manifesting);

f. waste characterization and consolidation (including sampling methodology, chain of custody, classification, consolidation, and compatibility of hazardous waste groups);

g. disposal method and identification of the permitted treatment, storage, and disposal facilities proposed to receive the waste;

h. a sampling program to define residual contamination;

i. decontamination of personnel and equipment; and

j. Site restoration; and

4. A Sampling and Analysis Plan that must include:

a. A quality assurance project plan that describes the quality assurance and quality control protocols necessary to achieve the initial data quality objectives. This plan must designate a data validation expert and must describe such individual's qualifications and experience;

b. A field sampling plan that defines

sampling and data gathering methods in a manner consistent with the "Field Methods Compendium," OSWER Directive 9285.2-11 (draft June 1993), as supplemented by the Department;

c. Identification of the laboratory to be used for the analysis of the samples to be collected and the quality, assurance and quality control protocols the laboratory will use in analyzing those samples; and

d. Identification of the laboratory or individual to conduct data validation on all analytical results prepared by the laboratory conducting the analysis of samples collected at the Site:

5. A health and safety plan to protect persons at and in the vicinity of the Site during the performance of the IRM Program prepared by a certified health and safety professional in accordance with 29 CFR 1910 and all other applicable standards; and

6. A contingency plan to be implemented in the event that any element of the IRM Program fails to operate in accordance with the Department-approved IRM Work Plan.

D. Any Work Plans required by the approved SOW, upon review and approval of the Department, shall be attached to and incorporated into this Order as individual appendices.

E. The Work Plans resulting from the approved SOW shall be prepared and implemented in accordance with the appropriate USEPA and Department technical and administrative guidance documents.

F. Within 30 days after the Department's approval of each Work Plan, Motorola shall establish a mailing list and participate in any Citizen Participation activities.

V. Review of Submittals

A. (1) The Department shall review each of the submittals Motorola makes pursuant to this Order to determine whether it was prepared, and whether the work done to generate the data and other information in the submittal was done, in accordance with this Order and generally accepted technical and scientific principles. The Department shall notify Respondents in writing of its approval or disapproval of the submittal. All Department-approved submittals shall be incorporated into and become an enforceable part of this Order.

(2) (a) If the Department disapproves a submittal, it shall so notify Respondents in writing and shall specify the reasons for its disapproval. Within the period of time specified in the notice of disapproval, but not less than sixty (60) days, Motorola shall make a revised submittal to the Department that addresses and resolves all of the Department's stated reasons for disapproving the first submittal.

(b) After receipt of the revised submittal, the Department shall notify Respondents in writing of its approval or disapproval. If the Department disapproves the revised submittal, the Department shall notify Respondents in writing of the Department's objections and reasons therefore within the period of time specified in the notice of disapproval,

but in no event fewer than sixty (60) days, Motorola shall make a re-revised submittal to the Department that addresses and resolves all of the Department's stated reasons for disapproving the re-revised submittal. If the Department disapproves the re-revised submittal, Motorola shall be in violation of this Order and the Department may take any action or pursue whatever rights it has pursuant to any provision of statutory or common law unless Motorola invokes the dispute resolution mechanism provided in paragraph XIV herein within twenty (20) days of its receipt of the notice of disapproval of the re-revised submittal. If the Department approves the revised or re-revised submittal, it shall be incorporated into and become an enforceable part of this Order.

B. The Department may request in writing that Motorola modify and/or amplify and expand a submittal, and associated work, if the Department determines, as a result of reviewing data generated by an activity required under this Order or as a result of reviewing any other data or facts, that further work is necessary. Any request so made by the Department shall include an explanation of the basis for the request. In the event that Motorola refuses to undertake the request within the period of time specified therein, Motorola shall be in violation of this Order and the Department may take any action or pursue whatever rights it has pursuant to statutory or common law, unless Motorola invokes the dispute resolution mechanism provided in paragraph XIV herein within twenty (20) days of their receipt of

any Department written request to modify and/or amplify and expand a submittal and/or associated work.

VI. Penalties

A. Respondents' failure to comply with any term of this Order constitutes a violation of this Order and the ECL.

B. Respondents shall not suffer any penalty under this Order or be subject to any proceeding or action for any remedy or relief if it cannot comply with any scheduling requirements of this Order because of an act of God, war, or riot or because of any condition or event entirely beyond the control of Respondents or their agent or agents carrying out Respondents' obligations under this Order. Respondents shall immediately notify the Department in writing when they obtain knowledge of any such condition and request an appropriate extension or modification of this Order.

Increased costs or expenses of any work to be performed under this Order, the financial inability of Respondent to perform such work, the failure of Respondent to make complete and timely application for any required approval or permit, and nonattainment of the goals, standards and requirements of this Order do not constitute conditions or events warranting the relief set forth in this subparagraph.

C. (1) As long as Respondents comply with the terms of this Order and any Appendix thereto, the Department shall not bring any action relative thereto which seeks relief which is inconsistent with or duplicative of relief provided for in this

Order except as provided in subparagraph VIII.B.

(2) Upon the Department's approval of all submittals identified in paragraph IV herein, and upon payment of all monies specified in paragraph VIII herein, Respondents, shall have fulfilled their obligations pursuant to this Order, and their obligations under this Order shall terminate with the exception of paragraph IX herein.

VII. Entry upon Site

Respondents hereby consent following reasonable notice to Respondents to the entry upon the Site or areas in the vicinity of the Site which may be under the control of Respondents by any duly designated employee, consultant, contractor, or agent of the Department or any State agency for purposes of inspection, sampling, and testing and to ensure Respondents' compliance with this Order. Motorola shall provide the Department with suitable office space at the Site, including access to a telephone, and shall permit the Department full access to all records relating to matters addressed by this Order and job meetings.

VIII. Payment of State Costs

Within 30 days after receipt of an itemized invoice from the Department, Motorola shall pay to the Department a sum of money which shall not exceed \$15,000.00 and which shall represent reimbursement for the State's expenses including, but not limited to, direct labor, fringe benefits, indirect costs, travel, analytical costs, and contractor costs incurred by the State of New York for work performed at the Site to date, as well

as for negotiating this Order, reviewing and revising submittals made pursuant to this Order, overseeing activities conducted pursuant to this Order, collecting and analyzing samples, and administrative costs associated with this Order. Such payment shall be made by certified check payable to the Department of Environmental Conservation. Payment shall be sent to the Bureau of Program Management, Division of Hazardous Waste Remediation, N.Y.S.D.E.C., 50 Wolf Road, Albany, NY 12233-7010. Itemization of the costs shall include an accounting of personal services indicating the employee name, title, biweekly salary, and time spent (in hours) on the project during the billing period, as identified by an assigned time and activity code. This information shall be documented by quarterly reports of Direct Personal Service. Approved agency fringe benefit and indirect cost rates shall be applied. Non-personal service costs shall be summarized by category of expense (e.g., supplies, materials, travel, contractual) and shall be documented by the New York State Office of the State Comptroller's quarterly expenditure reports.

IX. Department Reservation of Rights

A. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's rights including, but not limited to nor exemplified by, the following:

1. the Department's right to bring any action or proceeding against anyone other than Respondents and/or any of

Respondents' directors, officers, employees, servants, agents, successors, and assigns;

2. the Department's right to enforce this Order against Respondents and/or any of Respondents' successors and assigns if Respondents fail to satisfy any of the terms of this Order;

3. the Department's right to bring any action or proceeding against Respondents and/or any of Respondents' successors and assigns with respect to claims for natural resources damages as a result of the release or threatened release of hazardous substances or constituents at or from the Site or areas in the vicinity of the Site;

4. the Department's right to bring any action or proceeding against Respondents and/or any of Respondents' directors, officers, employees, servants, agents, successors, and assigns with respect to hazardous substances that are present at the Site or that have migrated from the Site;

5. the Department's right to gather information and enter and inspect property and premises.

B. Nothing contained in this Order shall be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers.

X. Indemnification

Respondents shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless for all claims, suits, actions, damages, and costs of

every name and description arising out of or resulting from the fulfillment or attempted fulfillment of this Order by Respondents and/or any of Respondents' directors, officers, employees, servants, agents, successors, and assigns; provided however, that Respondents shall not be required to indemnify and hold the Department, the State of New York or their representatives and employees harmless for any claims, suits, actions, damages and costs of any name and description arising out of or resulting from the negligence of the Department or State of New York, or their representatives or employees.

XI. Public Notice

A. If Prestolite, proposes to convey the whole or any part of Respondent's ownership interest in the Site prior to the completion of the IRM Program, Prestolite shall, not fewer than 60 days before the date of conveyance, notify the Department in writing of the identity of the transferee and of the nature and proposed date of the conveyance and shall notify the transferee in writing, with a copy to the Department, of the applicability of this Order.

B. Within thirty days after the effective date of this Order, Prestolite shall file a deed notification with the Wyoming County Clerk to give all parties who may subsequently acquire any interest in the site notice of this Consent Order. Such notification may be withdrawn when the Site is delisted.

XII. Communications

A. All written communications required by this Order

shall be transmitted by United States Postal Service, by private courier service, or hand delivered as follows:

Communication from Respondents shall be sent to:

1. Regional Director, Region 9
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203
2. Director, Bureau of Environmental
Exposure Investigation
New York State Department of Health
2 University Place
Albany, New York 12203
3. Director, Division of Hazardous Waste
Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010
4. Joseph P. Ryan, Esq.
Division of Environmental Enforcement
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203

B. Copies of work plans and reports shall be submitted as follows:

1. Four copies (one unbound) to
Martin Doster, Region 9
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation, Buffalo, New York
2. Two copies to the Director, Bureau of
Environmental Exposure Investigation.
Cameron O'Connor
3. Director, Division of Hazardous
Waste Remediation
New York State Department of Environmental Conservation, Albany, NY 12233-7050

4. Joseph P. Ryan, Esq.
Division of Environmental Enforcement
New York State Department of Environmental
Conservation, Buffalo, New York

C. Communication to be made from the Department to

Respondents shall be sent to:

William Fairbank, Esq.
Motorola, Inc.
1301 East Algonquin Road
Schaumburg, Illinois 60196

Michael Loch
Project Manager
Motorola, Inc.
400 Commercial Avenue
Northbrook, Illinois 60062

Craig A. Slater, Esq.
Saperston & Day, P.C.
1100 M&T Center
Three Fountain Plaza
Buffalo, New York 14203-1486
Attorney for Motorola, Inc.

Len Mason
Prestolite Electric, Inc.
400 Main Street
Arcade, New York 14009

David P. Flynn, Esq.
Phillips, Lytle, Hitchcock, Blaine & Huber
3400 Marine Midland Center
Buffalo, New York 14203
Attorney for Prestolite Electric, Inc.

D. The Department and Respondent reserve the right to designate additional or different addressees for communication or written notice to the other.

E. Within 60 days of the Department's approval of any report submitted pursuant to this Order, Respondents shall submit to the Department a computer readable magnetic media copy of the approved report in American Standard Code for Information

Interchange (ASCII) format.

XIII. Contribution

A. Nothing in this Order shall be construed to create any rights in, or grant any cause of action to, any person not identified in this Order. The preceding sentence shall not be construed to waive or nullify any rights that any person not a signatory to this Order may have under applicable law. The Department and Respondents expressly reserve any and all rights (including, but not limited to, any right to contribution), defenses, claims, demands, and causes of action which each may have with respect to any matter, transaction, or occurrence relating in any way to the Site against any person not a party hereto.

B. With respect to potential actions or claims for contribution against Respondents for matters addressed in this Order, the Department agrees that Respondents are entitled to protection from any such contribution action and/or claim as provided by the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), §113(f)(2), 42 U.S.C. 9613(f)(2).

C. Respondents agree that with respect to any suit or claim for contribution brought against Respondents for matters related to this Order, Respondents will notify the Department in writing within ten (10) days of receipt of the complaint pursuant to paragraph XI herein. Respondents shall also notify the Department within ten (10) days of service or receipt of any

Motion For Summary Judgment, and within ten (10) days of receipt of any order from a court setting a case for trial.

XIV. Dispute Resolution

A. Unless otherwise expressly provided for in this Order, the dispute resolution procedures of this subparagraph shall be the exclusive mechanism to resolve any disputes arising under or with respect to this Order between Respondents and the Department. However, the procedures set forth in this subparagraph shall not apply to actions by the Department to enforce obligations of the Respondents that have not been disputed in accordance with this subparagraph.

B. Any dispute which arises under or with respect to this Order shall in the first instance subject to informal negotiations shall not exceed twenty (20) days from the time that the dispute arises, unless it is modified by written agreement. The dispute shall be considered to have arisen when one party sends to the other party a Written Notice of Dispute in accordance with subparagraph XI herein.

C. If the Department disapproves a re-revised submittal, Respondents shall be in violation of this Order unless, within 20 days of receipt of the Department's notice of disapproval, Respondents serve on the Department's Director of Hazardous Waste Remediation ("the Director") a written statement of the issues in dispute, the relevant facts upon which the dispute is based, and factual data, analysis or opinion supporting its position, and all supporting documentation on

which Respondents rely (hereinafter called the "Statement of Position"). The Department shall serve its Statement of Position, including supporting documentation no later than twenty (20) days after receipt of Respondents' Statement of Position. In the event that these 20-day time periods for exchange of Statements of Position may cause a delay in the work being performed under this Order, the time periods may be shortened upon and in accordance with notice by the Department as agreed to by Respondents.

An administrative record of any dispute under this Paragraph shall be maintained by the Department. The record shall include the Statement of Position of each party served pursuant to the preceding paragraph, and any relevant information. The record shall be available for review of all parties and the public.

Upon review of the administrative record as developed pursuant to this Paragraph, the Director shall issue a final decision and order resolving the dispute. Respondents shall revise the submittal in accordance with the Department's specific comments, as may be modified by the Director and except for those which have been withdrawn by the Director, and shall submit a revised submittal. The period of time within which the submittal must be revised as specified by the Department in its notice of disapproval shall control unless the Director revises the time frame in the Director's final decision and order resolving the dispute.

After receipt of the revised submittal, the Department shall

notify Respondents in writing of its approval or disapproval of the revised submittal.

If the revised submittal fails to address the Department's specific comments, as modified, and the Department disapproves the revised submittal for this reason, Respondent shall be in violation of this Order and the ECL.

In review by the Director of any dispute pursued under this Paragraph, Respondent shall have the burden of proving that there is no rational basis for the Department's position.

The invocation of the procedures stated in this Paragraph shall not extend, postpone, or modify Respondents' obligations under this Order with respect to any other nondisputed items, unless and until the Department agrees or a court determines otherwise. The Director's final decision issued pursuant to this paragraph shall serve as the final agency position for the purposes of any Article 78 action on that matter.

XV. Miscellaneous

A. All activities and submittals required by this Order shall address both on-Site and known off-Site contamination resulting from the disposal of hazardous waste at the Site.

B. Motorola shall retain professional consultants, contractors, laboratories, quality assurance/quality control personnel, and data validators acceptable to the Department to perform the technical, engineering, and analytical obligations required by this Order. The experience, capabilities, and qualifications of the firms or individuals selected by Motorola

have been and shall be submitted to the Department. The Department's approval of these firms or individuals shall be obtained before the start of any activities for which Motorola and such firms or individuals will be responsible. The responsibility for the performance of the professionals retained by Motorola shall rest solely with Motorola.

C. The Department shall have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled by Respondents, and the Department also shall have the right to take its own samples. Motorola shall make available to the Department the results of all sampling and/or tests or other data generated by Respondents with respect to implementation of this Order and shall submit these results in the progress reports required by this Order.

D. Motorola shall notify the Department at least ten (10) working days in advance of any field activities to be conducted pursuant to this Order.

E. Respondents shall obtain all permits, easements, rights-of-way, rights-of-entry, approvals, or authorizations necessary to perform Respondents' obligations under this Order. The Department shall assist the Respondents to the extent practicable in the event that such assistance is requested or required by Respondents to secure any such necessary permits, easements, right-of-way, rights-of-entry, approvals or authorizations needed to perform this Order.

F. Respondents and Respondents' successors and

assigns shall be bound by this Order. Any change in ownership or corporate status of Respondents including, but not limited to, any transfer of assets or real or personal property shall in no way alter Respondents' responsibilities under this Order.

Respondents' officers, directors, employees, servants, and agents shall be obliged to comply with the relevant provisions of this Order in the performance of their designated duties on behalf of Respondents.

G. Motorola shall provide a copy of this Order to each contractor hired to perform work required by this Order and to each person representing Respondents with respect to the Site and shall condition all contracts entered into in order to carry out the obligations identified in this Order upon performance in conformity with the terms of this Order. Motorola or Motorola's contractors shall provide written notice of this Order to all subcontractors hired to perform any portion of the work required by this Order. Motorola shall nonetheless be responsible for ensuring that Motorola's contractors and subcontractors perform the work in satisfaction of the requirements of this Order.

H. "Interim Remedial Measure" shall have the meaning set forth in the Department's "Division Technical and Administrative Guidance Memorandum: Interim Remedial Measures" (# HWR-91-4042, dated February 12, 1991) and 6 NYCRR 375-1.3(n) or modifications thereto.

I. All references to "professional engineer" in this Order are to an individual registered as a professional engineer

in accordance with Article 145 of the New York State Education Law.

J. All references to "days" in this Order are to calendar days unless otherwise specified.

K. The section headings set forth in this Order are included for convenience of reference only and shall be disregarded in the construction and interpretation of any of the provisions of this Order.

L. (1) The terms of this Order shall constitute the complete and entire Order between Respondents and the Department concerning the Site. No term, condition, understanding, or agreement purporting to modify or vary any term of this Order shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestion, or comment by the Department regarding any report, proposal, plan, specification, schedule, or any other submittal shall be construed as relieving Respondents of Respondents' obligation to obtain such formal approvals as may be required by this Order.

(2) If Respondents desire that any provision of this Order be changed, Respondents shall make timely written application, signed by the Respondents, to the Commissioner setting forth reasonable grounds for the relief sought. Copies of such written application shall be delivered or mailed by Respondents to the parties identified in subparagraph XI.A.

M. The effective date of this Order shall be the date it is signed by the Commissioner or his designee.

DATED: *Albany*, New York
January 30 1995

LANGDON MARSH
Commissioner
New York State Department
of Environmental Conservation

By:


Ann H. DeBarbieri
Deputy Commissioner

CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of this Order, waives Respondent's right to a hearing herein as provided by law, and agrees to be bound by this Order.

MOTOROLA, INC.

By: _____

Dave Melka

(Type Name of Signer)

Title: Corporate Vice President and General Manager

Date: December 16, 1994

Illinois
STATE OF ~~NEW YORK~~)

COUNTY OF Cook)

S.S.:

On this 16 day of December, 1994,
before me personally came Dave Melka, to me
known, who, being by me duly sworn, did depose and say that he
resides in Chicago, Illinois; that he is the
Senior Vice President and General Manager of the Motorola Corporation,
the corporation described in and which executed the foregoing
instrument; that he knew the seal of said corporation; that the
seal affixed to said instrument was such corporate seal; that it
was so affixed by the order of the Board of Directors of said
corporation, and that he signed his name thereto by like order.

Rose M. Shilskey
Notary Public



CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of this Order, waives Respondent's right to a hearing herein as provided by law, and agrees to be bound by this Order.

PRESTOLITE ELECTRIC, INC.

By: *S Ferguson*
S FERGUSON
(Type Name of Signer)

Title: *President*

Date: *Jan 12/95*

STATE OF NEW YORK)

COUNTY OF *Cattaraugus*) ss:

On this *12th* day of *January*, 1994⁵, before me personally came *Stephen Ferguson*, to me known, who, being by me duly sworn, did depose and say that he resides in *Arcade, N.Y. @ 400 Main Street* that he is the *President* of the *Prestolite Electric Inc.* the corporation described in and which executed the foregoing instrument; that he knew the seal of said corporation; that the seal affixed to said instrument was such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Suzanne McLam
Notary Public

SUZANNE McLAM NO. 4845640
NOTARY PUBLIC, STATE OF NEW YORK
QUALIFIED IN CATTARAUGUS CO.
MY COMMISSION EXPIRES *10/31/95*

SAPERSTON & DAY, P.C.

1100 M&T CENTER • THREE FOUNTAIN PLAZA • BUFFALO, NEW YORK 14203-1486

APPENDIX B
Metes and Bounds

ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of Arcade and in the Town of Arcade, County of Wyoming and State of New York, being part of Lot No. 22, Township 7, Range 4 of the Holland Land Company's Survey, bounded and described as follows:

BEGINNING in the center of Prospect Street at the northeast corner of land conveyed to Motorola, Inc. in Liber 383 of Deeds at page 684, said point being 367 feet south from the intersection of the centerline of Prospect Street with the centerline of West Main Street; thence southerly along the centerline of Prospect Street a distance of 898.27 feet to the northeast line of the Arcade and Attica Railroad, said point being 33 feet northeasterly measured at right angles from the centerline of said railroad, said point also being the southeast corner of land conveyed to Motorola, Inc. in Liber 339 of Deeds at page 821; thence northeasterly at an interior angle of $63^{\circ} 47' 55''$ and along said railroad line, a distance of 902.4 feet to the southwest corner of land conveyed to Motorola, Inc. in Liber 339 of Deeds at page 63; thence southerly at an interior angle of $294^{\circ} 35' 18''$, crossing the land of the Arcade and Attica Railroad and partially along the west line of land now or formerly belonging to the Arcade Rural Cemetery Association, a distance of 287.3 feet to the southeast corner of land conveyed to Motorola, Inc. in Liber 294 of Deeds at page 229; thence southerly at an interior angle of $180^{\circ} 31' 45''$, and along the west line of said Arcade Rural Cemetery Association, a distance of 180.15 feet to the southeast corner of land conveyed to Motorola, Inc. in Liber 468 of Deeds at page 167, said point also being the northeasterly corner of land now or formerly owned by Charles H. Drake; thence westerly at an interior angle of $89^{\circ} 56' 15''$, and along the north line of Drake's land, a distance of 940.37 feet to the centerline of Bixby Hill Road and the southwest corner of said Motorola's land; thence northerly along the centerline of Bixby Hill Road, a distance of 708.13 feet to the northwest corner of said Motorola's land, said point being 658.9 feet south from the intersection of the centerline of Bixby Hill Road with the centerline of West Main Street; thence easterly at an interior angle of $82^{\circ} 19' 05''$ and along the north line of said Motorola's land, said line also being the south line of land conveyed to Glen S. Peters in Liber 294 of Deeds at page 401, a distance of 462.89 feet to the southwest corner of said Motorola's land, also being the southeast corner of said Peter's land; thence northerly at an interior angle of $273^{\circ} 26'$, and along the east line of said Peter's land, a distance of 364.5 feet to the southwest line of the Arcade and Attica Railroad, said point being 50 feet southwest at right angles from the centerline of said railroad; thence northerly at an interior angle of $185^{\circ} 15'$, crossing said railroad and continuing along the east line of Peters' land, a distance of 299 feet to the south line of land conveyed to Motorola, Inc. in Liber 416 of Deeds at page 3; thence westerly at an interior angle of $271^{\circ} 43'$, a distance of 21.6 feet to the southwest corner of said Motorola's land; thence northerly at an interior angle of $88^{\circ} 17'$, a distance of 280.5 feet to the centerline of West Main Street and the northwest corner of said Motorola's land, said point being 433.37 feet east from the intersection of the centerline of West Main Street with the centerline of Bixby Hill Road; thence easterly along the centerline of West Main Street, a distance of 411.52 feet to the northwest corner of land conveyed to Frederick Riche in Liber 368 of Deeds at page 1809, said point being the northeast corner of land conveyed to Motorola, Inc. recorded in Liber 380 of Deeds at page 916; thence southerly at an interior angle of $89^{\circ} 57'$, a distance of 297.13 feet to the southwest corner of said Riche's land; thence easterly at an interior angle of $271^{\circ} 01'$, a distance of 301.9 feet to the southeast corner of land conveyed to W.S. Davis, Inc. in Liber 312 of Deeds at page 54; thence northerly at right angles a distance of 297 feet to the centerline of West Main Street, said point being the northeast corner of said W.S. Davis, Inc.'s land, said point also being the northwest corner of land conveyed to Motorola, Inc. in Liber 331 of Deeds at page 95; thence easterly along the centerline of West Main Street, a distance of 214.5 feet to the northeast corner of land conveyed to Motorola, Inc. in Liber 378 of Deeds at page 989, said point being 185.46 feet west from the intersection of the centerline of West Main Street with the centerline of Prospect Street; thence southerly at right angles, a distance of 264 feet to the southeast corner of the aforesaid Liber 378 of Deeds at page 989; thence easterly at right angles a distance of 4.04 feet; thence southerly at an interior angle of 91° a distance of 12.65 feet to the northwest corner of land conveyed to Motorola, Inc. in Liber 383 of Deeds at page 684; thence easterly at an interior angle of 169° a distance of 34.62 feet to the northwest corner of land conveyed to Iroquois Gas Corporation in Liber 383 of Deeds at page 716; thence southerly at an interior angle of $87^{\circ} 09'$, a distance of 23 feet to the southwest corner of said Iroquois Gas Corporation's land; thence easterly at an interior angle of $272^{\circ} 31'$, a distance of 133 feet to the point of beginning.

EXCEPTING THEREFROM land conveyed to of the Arcade and Attica Railroad.

TOGETHER with easements contained in an Agreement made between Arcade and Attica Railroad Corporation and Lee J. Brennan, Inc. recorded in Liber 136 of Deeds at page 182.

TOGETHER with the easement contained in an Agreement made between Lee J. Brennan and Motorola, Inc. recorded in Liber 294 of Deeds at page 211.

TOGETHER with all right, title and interest (if any) of, in and to any streets and roads abutting the above described premises.

LIBER 672 PAGE 696

ALSO EXCEPTING THEREFROM

ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of Arcade, Town of Arcade, County of Wyoming and State of New York, being part of Lot 22, Township 7, Range 4 of the Holland Land Company's Survey, bounded and described as follows:

BEGINNING at a point in the centerline of West Main Street, distant 185.46 feet west, measured along the centerline of West Main Street, from the centerline of Prospect Street, said point also being the northeast corner of land conveyed to Motorola, Inc. by deed recorded in Liber 378 at page 989; thence southerly at right angles, a distance of 282 feet; thence westerly at right angles, a distance of 214.5 feet to the east line of land conveyed to W. S. Davis, Inc. by deed recorded in Liber 312 of Deeds at page 54; thence northerly at right angles and along the east line of said W. S. Davis, Inc.'s. land, a distance of 282 feet to the centerline of West Main Street and northwest corner of land conveyed to Motorola, Inc. by deed recorded in Liber 331 of Deeds at page 95; thence easterly along the centerline of West Main Street, a distance of 214.5 feet to the point of beginning.

TOGETHER with all right, title and interest of, in and to any streets and roads abutting the above described premises; said premises contains 1.39 acres of land, more or less.

APPENDIX C

Declaration of Covenants and Restrictions

LIBER 672/PAGE 688

COUNTY OF WYOMING
OFFICE OF THE CLERK
JANET COVENY, COUNTY CLERK
143 NORTH MAIN STREET, WARSAW, N.Y. 14569

PHONE: (716) 786-8810

FAX: (716) 786-3703

WYOMING COUNTY CLERK RECORDING PAGE

INSTRUMENT # 1456 TYPE Declaration of Covenants & Restrictions

NUMBER OF PAGES 68
(INCLUDING THIS PAGE)

RETURN PRESTOLITE ELECTRIC
TO: 400 MAIN ST.
ARCADE, N.Y. 14009
ATTN: BILL KOCH

SPACE BELOW RESERVED FOR
COUNTY CLERK'S USE ONLY

Real Estate Transfer Tax
\$ _____
_____/_____/_____ Wyoming County

2001 APR 24 AM 9:59
WYOMING COUNTY CLERK
WARSAW, N.Y.

MORTGAGE AMOUNTS \$ _____

TAX DISTRICT _____
(Check if to be apportioned)

MORTGAGE # _____

STATE OF NEW YORK
COUNTY OF WYOMING

RECORDING TAX RECEIPT

Basic \$ _____ State of New York
County of Wyoming
Additional \$ _____ I do hereby certify that I have
received on the Mortgage being
Special \$ _____ the amount of the recording fees
Imposed therein and paid at recording

TOTAL \$ _____

Dated this _____ day of _____, 2001

Recorded on the 24 day of April, 2001

at 9:59 o'clock A.M.

on Liber 672 of Deeds

on page 688 and examined.

Janet Coveny
Wyoming County Clerk
Wyoming County Clerk

Recording Officer of Wyoming County

This sheet constitutes the Clerk's endorsement required by Section 319 of the Real Property Tax Law of the State of New York
DO NOT DETACH

DECLARATION OF COVENANTS AND RESTRICTIONS

THIS DECLARATION is made as of December 31, 2000 by WYOMING COUNTY INDUSTRIAL DEVELOPMENT AGENCY, with offices at 200 Allen Street, Warsaw, New York, 14569 ("IDA") and PRESTOLITE ELECTRIC INCORPORATED, a Delaware corporation, with offices at 400 Main Street, Arcade, New York 14009 ("Prestolite"). (IDA and Prestolite are sometimes collectively referred to herein as "Declarant").

Background

A. IDA is the owner of an industrial facility of approximately twenty-two (22) acres located at 400 Main Street between Bixby Hill Road and Prospect Street, as described in the legal description attached hereto as Exhibit "A" and as depicted on the site plan attached hereto as Exhibit "B" (the "Property"). Prestolite occupies the Property as tenant pursuant to a certain Agency Lease Agreement dated February 28, 1994 between IDA and Prestolite. The Property was formerly owned by Motorola, Inc. ("Motorola").

B. The Property is the subject of a certain Order on Consent (B9-0468-94-11) issued by the Commissioner of the New York State Department of Environmental Conservation ("NYSDEC"), which directed Motorola, as responsible party, to develop, implement, monitor and maintain a remedial program for the Property (the "Order"). The Order was effective on January 30, 1995 according to applicable law. A copy of the Order is attached hereto as Exhibit "C".

C. The requirements of the remedial program selected by the NYSDEC in accordance with the New York State Environmental Conservation Law, and consistent with the federal Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended by the Superfund Amendments and Reauthorization Act of 1986), were published in a Proposed Remedial Action Plan issued by the NYSDEC in April, 2000, a copy of which is attached hereto as Exhibit "D".

NOW, THEREFORE, Notice is hereby given:

1. The Order is binding upon Motorola and Prestolite.
2. This Declaration shall run with the Property and to the benefit of NYSDEC, and shall be binding upon all future owners of the portions of the Property affected by this Declaration, and upon each and every tenant, subtenant, invitee and licensee of thereof, and cannot be modified without the consent of the NYSDEC (or any New York State Department, Bureau or other entity replacing NYSDEC).
3. The Property, having been listed by NYSDEC as a Class 3 Site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State, is subject to applicable restrictions on the use of the Property, including those specified by § 375-1.2(c) of the

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Environmental Conservation regulations embodied in Title 6 of the New York Code of Rules and Regulations.

Use of the Property is thereby limited such that no person may engage in any activity:

(a) that will, or that is reasonably anticipated to, prevent to interfere significantly with any proposed, ongoing or completed remedial program affecting the Property, including any activity that will intrude into waste materials or will otherwise diminish the effectiveness of the remedy, or

(b) that will, or is reasonably likely to, expose the public health or the environment to a significantly increased threat of harm or damage to the Property.

In addition, (i) there shall be no wells drilled into any groundwater aquifer(s) beneath the Property and (ii) with respect to the portion of the Property lying southwest of the railroad tracks which includes the "wastewater treatment plant" and the "former chemical storage building" (as depicted on the Site Plan attached hereto as Exhibit "B"), there shall be no construction of new buildings, and any utility work shall be done in accordance with health and safety plans approved by NYSDEC. Except in emergency situations as determined by the applicable utility company, NYSDEC shall be provided with reasonable prior notice of any proposed utility work in these affected portions of the Property.

4. Use of the Property may be further restricted by applicable law and/or by other orders issued or to be issued according to applicable law.

5. Any deed of conveyance of the Property is subject to and encumbered by this Declaration.

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IN WITNESS WHEREOF, Declarant has caused this Declaration to be executed
as of the date first above written.

IDA:

WITNESSES:

WYOMING COUNTY INDUSTRIAL
DEVELOPMENT AGENCY

Eleanor Jackson
April Leibel

By: Richard L. Tindell
Richard L. Tindell, Executive Director

STATE OF NEW YORK)
) SS:
COUNTY OF WYOMING)

On the 24th day of APRIL in the year 2001, before me, the undersigned, a notary
public in and for said state, personally appeared RICHARD L. TINDELL, personally known to
me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is
(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the
same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the
individual (s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Amy S. Hoffmeister
(Signature and office of individual taking acknowledgment)

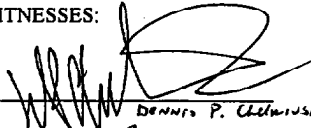
AMY S. HOFFMEISTER
Notary Public, State of New York
No. 01105068765
Qualified in Wyoming County
Commission Expires November 04, 2002

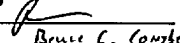
LIBER 672 PAGE 692

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PRESTOLITE:

WITNESSES:



Dennis P. Chelminski


Bruce C. Conybeare, Jr.

PRESTOLITE ELECTRIC
INCORPORATED, a Delaware corporation

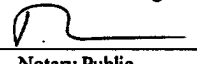
By: 

Kenneth C. Cornelius, Sr. Vice President

STATE OF MICHIGAN)
) SS.:
COUNTY OF WASHTENAW)

On the 16th day of April, in the year 2001 before me, the undersigned, personally appeared KENNETH C. CORNELIUS, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument, and that such individual made such appearance before the undersigned in the

(Insert the city or other political subdivision and the state the acknowledgment was taken).



Notary Public

Instrument drafted by and
when recorded return to:

Bruce C. Conybeare, Jr.
Bruce C. Conybeare, Jr., P.C.
1119 S. Main Street, Suite 103
Chelsea, Michigan 48118
734.443.0575 Telephone
734.433.0576 Fax

BFLO Doc # 1084058.1

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**Exhibit "A" to
DECLARATION OF COVENANTS AND RESTRICTIONS**

Legal Description of Property

See attached.

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ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of Arcade and in the Town of Arcade, County of Wyoming and State of New York, being part of Lot No. 22, Township 7, Range 4 of the Holland Land Company's Survey, bounded and described as follows:

BEGINNING in the center of Prospect Street at the northeast corner of land conveyed to Motorola, Inc. in Liber 183 of Deeds at page 684, said point being 302 feet south from the intersection of the centerline of Prospect Street with the centerline of West Main Street, thence southerly along the centerline of Prospect Street a distance of 894.27 feet to the northeast line of the Arcade and Attica Railroad, said point being 33 feet northeasterly measured at right angles from the centerline of said railroad, said point also being the southeast corner of land conveyed to Motorola, Inc. in Liber 339 of Deeds at page 821, thence northeasterly at an interior angle of $63^{\circ} 87' 15''$ and along said railroad line, a distance of 902.6 feet to the southwest corner of land conveyed to Motorola, Inc. in Liber 330 of Deeds at page 63; thence southerly at an interior angle of $294^{\circ} 33' 10''$, crossing the land of the Arcade and Attica Railroad and partially along the west line of land now or formerly belonging to the Arcade Rural Cemetery Association, a distance of 287.3 feet to the southeast corner of land conveyed to Motorola, Inc. in Liber 296 of Deeds at page 229; thence southerly at an interior angle of $180^{\circ} 32' 95''$, and along the west line of said Arcade Rural Cemetery Association, a distance of 180.15 feet to the southeast corner of land conveyed to Motorola, Inc. in Liber 448 of Deeds at page 167, said point also being the northeasterly corner of land now or formerly owned by Charles M. Drake; thence westerly at an interior angle of $89^{\circ} 56' 15''$, and along the north line of Drake's land, a distance of 940.57 feet to the centerline of Bixby Hill Road and the southwest corner of said Motorola's land, thence northerly along the centerline of Bixby Hill Road, a distance of 708.53 feet to the northwest corner of said Motorola's land, said point being 658.9 feet south from the intersection of the centerline of Bixby Hill Road with the centerline of West Main Street; thence easterly at an interior angle of $82^{\circ} 19' 05''$ and along the north line of said Motorola's land, said line also being the south line of land conveyed to Glen S. Peters in Liber 374 of Deeds at page 401, a distance of 467.89 feet to the southwest corner of said Motorola's land, also being the southeast corner of said Peter's land; thence northerly at an interior angle of $273^{\circ} 26''$, and along the east line of said Peter's land, a distance of 364.5 feet to the southwest line of the Arcade and Attica Railroad, said point being 50 feet southwest at right angles from the centerline of said railroad; thence northerly at an interior angle of $185^{\circ} 15''$, crossing said railroad and continuing along the east line of Peters' land, a distance of 299 feet to the south line of land conveyed to Motorola, Inc. in Liber 416 of Deeds at page 3; thence westerly at an interior angle of $271^{\circ} 43''$, a distance of 21.6 feet to the southwest corner of said Motorola's land; thence northerly at an interior angle of $88^{\circ} 17''$ a distance of 280.5 feet to the centerline of West Main Street and the northwest corner of said Motorola's land, said point being 455.57 feet east from the intersection of the centerline of West Main Street with the centerline of Bixby Hill Road; thence easterly along the centerline of West Main Street, a distance of 411.42 feet to the northwest corner of land conveyed to Frederick Riche in Liber 348 of Deeds at page 1809, said point being the northeast corner of land conveyed to Motorola, Inc. recorded in Liber 380 of Deeds at page 916; thence southerly at an interior angle of $89^{\circ} 57''$, a distance of 297.13 feet to the southwest corner of said Riche's land; thence easterly at an interior angle of $271^{\circ} 03''$ a distance of 301.9 feet to the southeast corner of land conveyed to W.S. Davis, Inc. in Liber 312 of Deeds at page 54; thence northerly at right angles a distance of 297 feet to the centerline of West Main Street, said point being the northwest corner of said W.S. Davis, Inc.'s land, said point also being the northwest corner of land conveyed to Motorola, Inc. in Liber 331 of Deeds at page 55; thence easterly along the centerline of West Main Street, a distance of 214.5 feet to the northeast corner of land conveyed to Motorola, Inc. in Liber 378 of Deeds at page 989, said point being 185.46 feet west from the intersection of the centerline of West Main Street with the centerline of Prospect Street; thence southerly at right angles, a distance of 264 feet to the southeast corner of the aforesaid Liber 378 of Deeds at page 989; thence easterly at right angles a distance of 4.06 feet; thence southerly at an interior angle of 91° a distance of 12.65 feet to the northwest corner of land conveyed to Motorola, Inc. in Liber 383 of Deeds at page 184; thence easterly at an interior angle of 249° a distance of 34.61 feet to the northwest corner of land conveyed to Iroquois Gas Corporation in Liber 383 of Deeds at page 716; thence southerly at an interior angle of $87^{\circ} 09''$ a distance of 25 feet to the southwest corner of said Iroquois Gas Corporation's land; thence easterly at an interior angle of $172^{\circ} 51''$, a distance of 133 feet to the point of beginning.

EXCEPTING THEREFROM land conveyed to of the Arcade and Attica Railroad.

TOGETHER with easements contained in an Agreement made between Arcade and Attica Railroad Corporation and Lee J. Brennan, Inc. recorded in Liber 186 of Deeds at page 182.

TOGETHER with the easement contained in an Agreement made between Lee J. Brennan and Motorola, Inc. recorded in Liber 296 of Deeds at page 211.

TOGETHER with all right, title and interest (if any) of, in and to any streets and roads abutting the above described premises.

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ALSO EXCEPTING THEREFROM

ALL THAT TRACT OR PARCEL OF LAND, situate in the Village of Arcade, Town of Arcade, County of Wyoming and State of New York, being part of Lot 22, Township 7, Range 4 of the Holland Land Company's Survey, bounded and described as follows:

BEGINNING at a point in the centerline of West Main Street, distant 185.46 feet west, measured along the centerline of West Main Street, from the centerline of Prospect Street, said point also being the northeast corner of land conveyed to Motorola, Inc. by deed recorded in Liber 378 at page 989; thence southerly at right angles, a distance of 282 feet; thence westerly at right angles, a distance of 214.5 feet to the east line of land conveyed to W. S. Davis, Inc. by deed recorded in Liber 312 of Deeds at page 54; thence northerly at right angles and along the east line of said W. S. Davis, Inc.'s. land, a distance of 282 feet to the centerline of West Main Street and northwest corner of land conveyed to Motorola, Inc. by deed recorded in Liber 331 of Deeds at page 95; thence easterly along the centerline of West Main Street, a distance of 214.5 feet to the point of beginning.

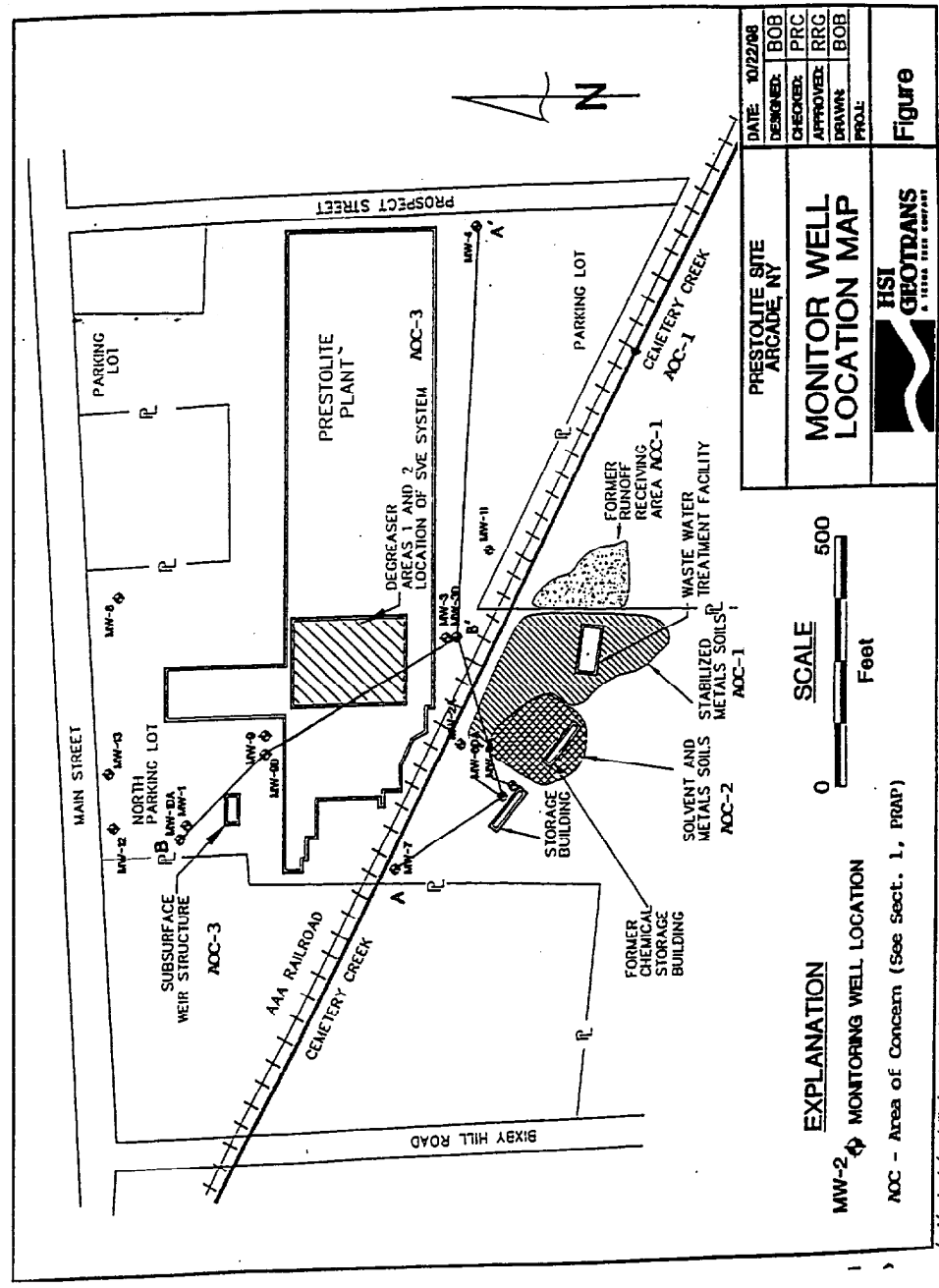
TOGETHER with all right, title and interest of, in and to any streets and roads abutting the above described premises; said premises contains 1.39 acres of land, more or less.

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Exhibit "B" to
DECLARATION OF COVENANTS AND RESTRICTIONS

Site Plan of Property

See attached.



11/13/98 Prestolite Plant, Arcade, NY

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Exhibit "D" to
DECLARATION OF COVENANTS AND RESTRICTIONS

Copy of Proposed Remedial Action Plan

See attached.

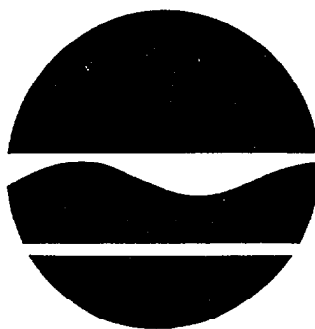
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PRESTOLITE PLANT SITE

Village of Arcade, Wyoming County, New York
Site No. 9-61-009

PROPOSED REMEDIAL ACTION PLAN

February 2000



Division of Environmental Remediation
New York State Department of Environmental Conservation

PROPOSED REMEDIAL ACTION PLAN

PRESTOLITE PLANT SITE

Village of Arcade, Wyoming County, New York

Site No. 961009

February 2000

**SECTION 1: SUMMARY AND PURPOSE
OF THE PROPOSED PLAN**

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health (NYSDOH), is proposing a remedy for the Prestolite Plant Site. As more fully described in Sections 3 and 4 of this document, the improper handling and disposal of sludge material from an on-site water treatment system and leakage of solvents from a storage facility and two degreasers, resulted in the release of a number of hazardous wastes. These wastes included metals (e.g. cadmium, chromium, copper, and lead), and volatile organic compounds (VOCs) such as trichloroethylene (TCE), 1,1,1-trichloroethane (TCA), and methylene chloride. The release of hazardous substances resulted in the following threats to public health and/or the environment:

- a threat to human health associated with the potential migration of solvents through site soils to a sole source aquifer, the principal source of drinking water for a community.
- an environmental threat associated with the potential impact of solvents on a nearby Class B stream.
- a threat to human health from solvents in soils under the main building which could cause solvent vapors to migrate into the building.
- an environmental and public health

threat associated with the impact of metals within site soils which represented a potential health concern through direct contact

- an environmental threat on sediments within a stream which flows across the site, which may cause erosion of metals into the nearby Class B stream.

During the course of the investigation certain actions, known as Interim Remedial Measures (IRMs), were undertaken at the Prestolite Plant Site in response to the environmental problems identified. An interim remedial measure is conducted when an obvious source of contamination or exposure pathway can be effectively addressed before or during the completion of a remedial investigation and feasibility study.

Due to the size of the site and the contamination present, the site was divided into three Areas of Concern. An Area of Concern (AOC) is defined as a discrete part of the entire site that produces a release, the threat of a release or a pathway of exposure. The IRMs undertaken within the areas of concern at this site include those listed below which can also be located on Figure 2.

Area of Concern No. 1 - Wastewater Treatment Plant Area/Cemetery Creek

Areas of metals contamination in soils and sediments.

- Excavation of metals impacted soils

from the Former Runoff Receiving Area,

- Drum excavation and removal,
- Stabilization/Solidification of soils around the wastewater treatment plant,
- Cemetery Creek sediment excavation.

Area of Concern No. 2 - Former Chemical Storage Building

Areas of metals and VOC contamination within soils and groundwater.

- In-situ treatment of metals and volatile organic impacted soils at the Former Chemical Storage Building site,
- Installation and sampling of overburden groundwater monitoring wells.

Area of Concern No. 3 - Sewer Weir Structure/Degreaser Units

Areas of VOC contamination in soils and groundwater.

- Process water weir structure and plant sump sampling, cleaning and decommissioning,
- Soil Vapor Extraction under two degreasers, within the plant,
- Installation and sampling of overburden groundwater monitoring wells.

Based upon the success of the above IRMs, the findings of the investigations at this site indicate that the site no longer poses a threat to human health or the environment. Therefore, No Further Action along with continued long term groundwater monitoring and land use restrictions is proposed as the remedy for this site. This Proposed Remedial Action Plan (PRAP) recommends long term monitoring of groundwater to ensure the IRMs were successful in mitigating the contaminant sources; and institutional controls, e.g. security and land use restrictions. The Department would also reclassify the site from a Class 3 to a Class 4 site

on the New York State Registry of Inactive Hazardous Waste Disposal Sites.

This Proposed Remedial Action Plan identifies the preferred remedy and discusses the reasons for this preference. The NYSDEC will select a final remedy for the site only after careful consideration of all comments received during the public comment period.

The NYSDEC has issued this PRAP as a component of the citizen participation plan developed pursuant to the New York State Environmental Conservation Law (ECL) and 6 NYCRR Part 375. This document is a summary of the information that can be found in greater detail in the reports listed in Table 2. These reports are available at the document repositories listed below. To better understand the site and the investigations conducted, the public is encouraged to review these project documents.

The following repositories are available:

Arcade Free Library, 365 Main Street
Arcade, New York 14009
Telephone: 492-1297
Hours: Mon., Tue., Thurs., 1 p.m. to 9 p.m.
Wed. 9 am to 1 p.m.
Fri. 11 am to 5 p.m., Sat. 10 am to 2 p.m.

or

NYSDEC, Region 9 Office
270 Michigan Avenue
Buffalo, New York 14203-2999
Contact: Mr. Gerald F. Pietraszek
Project Manager
716/851-7220 (by appointment only)

The NYSDEC seeks input from the community on all PRAPs. A public comment period has been set from February 24, 2000 to March 25, 2000, to provide an opportunity for public participation in the remedy selection process for this site. A public meeting is

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scheduled for March 15, 2000, 7 PM, at the Village Hall, 17 Church Street, Village of Arcade, New York.

At the meeting, the results of the investigations and IRMs at the site will be presented along with a summary of the proposed remedy. After the presentation, a question and answer period will be held, during which you can submit verbal or written comments on the PRAP.

The NYSDEC may modify the preferred alternative or select another based on new information or public comments. Therefore, the public is encouraged to review and comment on the information contained in and associated with this PRAP.

Comments will be summarized and responses provided in the Responsiveness Summary section of the Record of Decision. The Record of Decision is the NYSDEC's final selection of the remedy for this site. Written comments may be sent to Mr. Pietraszek at the above address.

SECTION 2: SITE LOCATION AND DESCRIPTION

The site is located on the west side of the Village of Arcade, at 400 Main Street (Route 39), within a mixed neighborhood of residences, commercial establishments, industrial businesses and agricultural operations within one mile of the site. It occupies approximately 22 acres on the south side of Route 39 (Figures 1 & 2). The site is approximately one-third of a mile southeast of Cattaraugus Creek, a Class B stream. The Arcade and Attica Railroad line is an active line, located immediately south of the manufacturing facility and divides the site into two pieces. Running parallel to and south of the rail line is Cemetery Creek, a Class D, low flow, intermittent drainage course, which flows east to west across the site. Site drainage is to either Cemetery Creek or local storm sewers.

Site Geology and Hydrogeology

Site stratigraphy consists of unconsolidated, stratified glacial deposits consisting of sand and gravel horizons, separated by silt and clay sequences, which may be several hundred feet thick within the Cattaraugus Creek basin. Bedrock beneath the site is the Gowanda Shale.

Two overburden aquifers are evident at this site. The upper aquifer is a sand and gravel unit which exists from 16 feet to 21 feet below ground surface and is directly over a thick clay and silt confining unit which separates the upper aquifer from a silty sand lower aquifer which exists from 34 feet to 61 feet below ground surface (Figure 3). Overburden groundwater movement in the upper aquifer is to the north at the rear of the site due to the elevated topography in this area, then it flows to the northwest as it crosses the flat topography at the plant site proper (Figure 4). Flow within the lower aquifer is north-northwest (Figure 5). At this site, the lower aquifer has an upward gradient indicating that groundwater moves from the lower aquifer up into the upper aquifer which creates an artesian condition at the site.

The Village uses groundwater from wells and springs as their water supply. One of these municipal wells is located approximately 1800 feet north-northeast of the site on Church Street. Another well is located farther up gradient of the Prestolite Plant, on Sullivan Street (Figure 1). Both of these wells draw water from the lower aquifer. The Wyoming County Health Department requires the Church Street well to be sampled annually for site-related compounds. The Sullivan Street well is sampled less frequently because it is not considered threatened by site contaminants. To date, neither well has shown any effects from the Prestolite Site.

SECTION 3: SITE HISTORY**Operational/Disposal History**

This site was originally used as a lumber breakout yard in the 1920's. A number of minor businesses occupied the site from the 1920's to the 1940's. A machine shop was located at the site in the mid 1940's. From 1952 to 1955 Sylvania Inc. managed the site and produced car radio parts and push button timers. Motorola Inc. purchased the site in 1955. In 1958, motor vehicle alternator production began. In 1988, Prestolite Inc. purchased the property and continued the same operations as previously carried out by Motorola.

The Prestolite facility now manufactures automobile and industrial products such as electro-mechanical charging systems (alternators, regulators, and voltmeters) and electric odometers and speedometers.

Processes involved in the manufacturing of the various electronic products include die casting, zinc phosphating, electroplating, solvent washing, detergent washing and finishing with paints or varnishes. As a result of the manufacturing processes at this plant, various volatile organic compounds such as solvents (trichloroethylene, methylene chloride), aromatic compounds (benzene) and inorganic compounds (cadmium, lead and zinc) were generated as waste.

Process waters are discharged to the Village of Arcade Waste Water Treatment Plant. Non contact cooling water is discharged through NYSDEC SPDES outfall 002 to Cemetery Creek which is the intermittent stream to the south of the plant. Metal sludges, derived from the on-site wastewater plant, were disposed of in the former runoff receiving area at the rear of the plant just south of the railroad line until 1976, but are now sent off site for proper disposal.

A storage building was located at the rear of the plant, south of the railroad tracks and was used for the storage of solvents and other materials used in manufacturing processes at the plant. Historically, leakage and spills of these materials in this building impacted soils at this location. This building was demolished in the early 1990's and the soils in this area have since been remediated.

Two degreasers within the plant were also noted as being a source of contamination from solvents seeping down through the floor and impacting the soils and shallow groundwater beneath the building (Figure 2). Beginning in 1991 a series of environmental investigations as well as remedial actions were conducted to address impacted areas.

SECTION 4: SITE CONTAMINATION

To evaluate and address the contamination present at the site, Motorola Inc. conducted an Environmental Investigation and Feasibility Study (FS) at the Prestolite Site.

4.1: Summary of the Remedial Investigations

The purpose of the environmental investigation was to define the nature and extent of contamination resulting from previous activities at the site. In 1988 Prestolite Inc. purchased the manufacturing facility from Motorola Inc. In 1991, Prestolite performed a Phase I Site Investigation. Initially, four monitoring wells were installed and sampled along with nine test pits and nine soil vapor test points. Results indicated areas of impacted soils and groundwater. The contaminants of concern were identified as volatile organic compounds (VOC's) and metals. In 1992, a Phase II Investigation was conducted by Motorola Inc. At that time a considerable amount of field work was done which included:

- Installation of soil borings and

monitoring wells for analysis of soils and groundwater as well as physical properties of soil and hydrogeologic conditions.

- sixty soil gas samples.
- Excavation of test pits to observe subsurface soil conditions and collect soil samples and also to investigate the potential for buried drums.
- three surface soil samples.
- permeability testing at various wells.
- surface water samples from on site and off site.
- sediment samples from on site and off site.
- Groundwater sampling from site wells and an evaluation of the Village of Arcade water supply wells. Village water was determined not to be impacted.

The Phase I and Phase II investigations identified the areas which needed additional investigations to clearly define limits of contamination at each area. Cleanup alternatives were evaluated for each affected area. In November 1996, this site was listed on the New York State Registry of Inactive Hazardous Waste Disposal Sites list, as a Class 3 site. A Class 3 designation indicates that waste disposal has been confirmed but this hazardous waste does not presently constitute a significant threat to the environment.

To determine which media (groundwater, soil, etc.) contained contamination at levels of concern, all available analytical data were compared to environmental Standards, Criteria, and Guidance (SCGs). Groundwater, drinking water and surface water SCGs identified for the Prestolite Plant site are based on NYSDEC Ambient Water Quality Standards & Guidance Values and Part 5 of the NYS Sanitary Code. For soils, NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 provides soil cleanup guidelines for the protection of groundwater; comparison

to background conditions; and health-based exposure scenarios. Guidance values for evaluating contamination in sediments are provided by the NYSDEC "Technical Guidance for Screening Contaminated Sediments".

Based upon a comparison of the results of the investigations to the SCGs and potential public health and environmental exposure routes, it was determined that certain areas and media at the site required remediation. Information relative to these areas is summarized below. More complete information can be found in the reports listed in Table 2.

Chemical concentrations are reported in parts per billion (ppb) and/or parts per million (ppm). For comparison purposes, where applicable, SCGs are provided for each medium.

4.1.1 Nature of Contamination:

As described in the remedial investigations at the site, many soil, groundwater, sediment and soil gas samples were collected to characterize the nature and extent of contamination. The main categories of contaminants which exceeded their SCGs were volatile organic compounds (VOCs) in soils and groundwater, and inorganics (metals) in soils and sediments.

The volatile organic compounds of concern were trichloroethylene, 1,1,1-trichloroethane, 1,2-dichloroethene, ethylbenzene and xylene. The inorganics of concern were cadmium, chromium, copper, and lead.

4.1.2 Extent of Contamination

Table 1 summarizes the extent of contamination for the contaminants of concern in soils, sediments and groundwater and compares the data with the SCGs for the Site. Following are the areas and media which were investigated. The highest values found at these areas are presented below. Post remedial levels, or the final levels remaining after remedial work was

completed, are noted in section 4.2 which follows.

Soil

The Former Chemical Storage Building area had VOCs at maximum concentrations of: acetone - 14 ppm, methylene chloride - 2.2 ppm, 1,2-dichloroethene - 2.6 ppm, toluene - 130 ppm, trichloroethylene - 27 ppm, ethylbenzene - 600 ppm, total xylenes - 3,500 ppm, and the metals cadmium - 9210 ppm, chromium - 2420 ppm, and lead - 796 ppm.

The area around the Water Treatment Plant had metals at maximum levels of: cadmium - 1110 ppm, chromium - 56 ppm, and lead - 233 ppm.

The Former Runoff Receiving Area was impacted by metals: cadmium - 8420 ppm, chromium - 38 ppm, and lead - 241 ppm.

Under the concrete floor at degreaser areas 1 & 2, soils were impacted by: trichloroethylene - 23 ppm, and 1,2-dichloroethene - 33 ppm.

Sediments

The outside weir structure contained: chloroform - 70 ppm, and trichloroethylene - 7.1 ppm.

Sediments in Cemetery Creek were impacted by: cadmium - 79 ppm, and copper - 197 ppm.

Groundwater

Groundwater in the upper aquifer had been impacted by acetone at 440 ppb, toluene at 180 ppb, 1,2-dichloroethene at 62 ppb, trichloroethylene (TCE) at 300 ppb, 1,1,1-trichloroethane (TCA) at 19 ppb, ethylbenzene at 160 ppb, total xylenes at 850 ppb, cadmium at 7,900 ppb, chromium at 191,000 ppb and lead at 680 ppb.

Groundwater sampling over the site since 1991

has not found any non aqueous phase liquids (NAPL). Excavations and soil borings over the entire site also did not find any NAPL. The lower overburden aquifer has not been impacted from site operations. It is a deeper, separate aquifer which is confined and there is an upward hydraulic gradient at the site, which means that groundwater moves from the lower aquifer up toward the shallow aquifer. As of the last reported sampling of July 1999, the following compounds were found: trichloroethylene at 130 ppb, total xylene at 320 ppb within the shallow aquifer, while the metals cadmium, chromium and lead were reported at 35 ppb, 83 ppb, and 195 ppb, respectively.

4.2 Interim Remedial Measures:

As noted in Section 1 above, remedial measures have already been performed at this site. These measures are noted as Area of Concern No.1, No.2 and No.3.

A brief description of each of these remedial measures is provided. Complete information can be found in the respective reports noted in Table 2.

Area of Concern No. 1 - Wastewater Treatment Plant/Cemetery Creek

Former Runoff Receiving Area

From July to November, 1992, a soil removal action was conducted in an off-site low area just northeast of the treatment plant (Figure 2). This area received runoff from the former filter cake storage areas and from the active filter press blowdown area within the treatment plant. These soils were contaminated with metals, specifically cadmium, chromium and lead at levels as high as 8420, 38 and 241 ppm, respectively. An area of contamination, approximately one half acre in size, was initially delineated, excavated and then confirmation soil samples were taken. Cleanup objectives for this

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area were set as: cadmium - 10 ppm, chromium - 18 ppm, and lead - 50 ppm, which are actually below NYSDEC SCGs, which increases the measure of safety. Approximately 2984 tons of soils were removed from the site and shipped to Heritage Environmental Services, in Indianapolis, Indiana for treatment and disposal. Final confirmation sampling indicated that twenty-two of the twenty-eight points sampled were below the cleanup objectives. Six of the sampled locations were above the cleanup objective only for cadmium, with those values ranging between 22 ppm and 67 ppm, and one value at 226 ppm. The fill material had been totally removed and what remained was natural soil. The final sample locations were at or just above the groundwater table and it was decided not to continue excavation below that point because of the difficulty of excavating within a saturated zone. Upon completion of the work the area was re-graded and re-seeded. Quarterly groundwater monitoring immediately downgradient of this area has confirmed the effectiveness of the removal action. Those analytical results indicate non-detect values for all of the metals of concern.

Drum Excavation and Removal

In July 1992 a magnetic survey was conducted in a one-half acre area around the wastewater treatment plant to identify the potential presence of buried drums. Test trenches were dug into areas which contained magnetic anomalies. The trenches revealed the presence of buried metal debris as well as the remnants of six 55-gallon drums and 5 to 10 one-gallon pails. The metal debris and drums were located north and to the east of the water treatment plant at an approximate depth of 5 feet below ground surface. Most of the excavated drums were empty and heavily corroded. As a result of the drum excavation two cubic yards of waste were generated. These drums were sampled for the characteristics of hazardous waste. Two samples showed cadmium levels essentially at or above the characteristic standard for

hazardous waste. Trace amounts of PCB 1254 were also found, but below regulatory levels.

Empty drums were steam cleaned, crushed and sent off site for recycling. The two cubic yards of waste were sent to Heritage Environmental Services for disposal as hazardous wastes (D006). The site was temporarily reclaimed by backfilling with clean soils. This area was later dug up entirely, as part of the soil stabilization/solidification remediation performed in May 1995.

Soil Stabilization/Solidification

In May 1995, metals impacted soils in the vicinity of the wastewater treatment plant were identified as a potential source of elevated metals to Cemetery Creek due to direct runoff. The metal of concern was cadmium with some elevated chromium and lead concentrations. Based on Phase II findings, an IRM plan was developed to better delineate the affected area; to stabilize the soils using Portland cement; and then to either place the soils back into the excavation or transport them for off-site disposal at an approved facility. The objective of this remedial activity was to mix excavated soils with Portland cement and water to form a stabilized matrix of soil which would prevent the leaching of metals into the groundwater.

An area approximately one acre in size was surveyed into 20-foot by 20-foot grids to accurately control the sampling and remedial activity (Figure 6). Surface water runoff and run-on controls were established and process areas were set up prior to the excavation effort.

All impacted soils were within the unsaturated zone. Limits of excavation were initially determined by visual observation, then followed by confirmation sampling for total metals using the action levels established in the work plan. The action levels for total metals were set at: cadmium - 10 ppm, chromium - 18 ppm, and lead - 50 ppm.

Four 20 cubic yard roll-off bins were used for the processing of the soils. Approximately 10 cubic yards of excavated soil was placed in a roll-off along with a mixture of between 15 and 20 percent (by volume) Portland cement and approximately 500 gallons of water. These soils were mixed thoroughly using the bucket of the trackhoe. After mixing, processed soil was transferred from the roll-off bin to a 100 cubic yard temporary stockpile, allowed to cure overnight, then process confirmation samples were collected. Process confirmation samples were analyzed using TCLP extraction followed by analysis for cadmium, chromium and lead. Process target levels were to meet groundwater standards for metals, (cadmium - 10 ppb, chromium - 18 ppb, and lead - 50 ppb). Confirmation samples were taken from at least 219 different locations from within the treated soils. Average values for the treated soils were: cadmium - 24 ppb, chromium - 16 ppb, and lead - 20 ppb. Although the cadmium value is elevated, only 19 of 219 samples were above the 10 ppb target level. Continued groundwater monitoring will confirm the effectiveness of the remedy despite the elevated metals noted above.

Upon the completion of excavation and stabilization activities, site restoration included grading of the stabilized soils, then covering these stabilized soils with approximately 4,243 tons of clean, approved fill, to a depth of 12 inches. Following that, approximately 2,270 tons of clean, approved topsoil was placed over the clean fill to a depth of 6 inches. Finally, the area was fertilized and seeded. Three replacement groundwater monitoring wells were installed downgradient of the work area and a perimeter fence was erected around the site.

In addition, soils in the vicinity of the Former Chemical Storage Building immediately on the west edge of the treated area were analyzed for VOCs. It was found that this area contained elevated levels of VOCs and metals. Since the metals stabilization process does not adequately reduce VOC concentrations, soils in this

portion of the site were not excavated at that time. Remediation of these soils was addressed in a later remedial action, as will be noted in AOC-2, (Former Chemical Storage Building) described later in this section. The VOC impacted area was segregated for future remedial activity by placement of a plastic protective cover and 3 inch gravel layer. Drainage was modified to prevent water from entering this area.

Cemetery Creek Soil Excavation

Under Order on Consent, B9-0468-94-11, dated January, 1995, Motorola agreed to sample Cemetery Creek for contamination and if necessary, remove those sediments for proper disposal. As a result of that sampling, impacts to Cemetery Creek sediments were identified along approximately 1,800 feet of the creek bed. Additional impacted sediments were also identified immediately upstream of the confluence of Cattaraugus and Cemetery Creeks (Figure 7). The source of the metals impacted sediments was the runoff receiving area and the area around the water treatment plant. Sampling results indicated maximum levels of metals as: cadmium - 79 ppm, and copper - 197 ppm.

During October and November 1995, excavation of metals contaminated sediments were performed within Cemetery Creek. Horizontal control points were established along the creek bed from Prospect Street, just east of the plant site, to Bixby Hill Road, just west of the plant site. Cross sections and sediment sample locations were tied to the horizontal control points. Sediment samples were collected for grain size evaluation so that compatible approved, clean fill could later be placed in excavated areas. The affected areas were cleared of all brush to provide access for excavation and to improve drainage. Cemetery Creek was diverted around the excavation area in three separate stages through the use of diversion dams upstream of the sediments to be

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removed and pumping of water.

Sediments were excavated by using a bulldozer and a tracked excavator. As indicated earlier, two areas of excavation were involved. The larger area was 1800 feet of Cemetery Creek, along the southern portion of the plant site and the other was the area of Cemetery Creek immediately above the confluence of Cattaraugus Creek. The depths of excavation ranged from 0.5 feet to 3.5 feet. Approximately 2,550 cubic yards of sediment were removed from the 1800 foot section of the creek, while approximately 14 cubic yards of sediments were removed from near Cattaraugus Creek. This relates to approximately 4,620 tons of sediments which were sent for off-site disposal at the BFI, Niagara Falls Landfill facility.

Material was removed until metals concentrations in excavation confirmation samples collected from both banks and the base of the excavation were below action levels. In setting action levels, the nature of the habitat in Cemetery Creek was considered through discussion and inspection by the local NYSDEC, Division of Fish and Wildlife office. Also considered was a review of local background levels and a comparison to established sediment criteria from the NYSDEC "Technical Guidance for Screening Contaminated Sediments," dated 7/94.

Excavation action levels for sediments were set as: total cadmium - 5 ppm, and total copper - 87 ppm. Excavated material was transferred by dump truck to a dedicated staging area prior to shipment to off-site disposal at the BFI, Niagara Falls Landfill facility.

Upon completion of excavation, all excavation confirmation sample concentrations were below the NYSDEC approved action levels as noted above for cadmium and copper. With confirmation that an excavated area was clean, it was backfilled to approximate original grade with approved, clean imported soils of similar grain size as that material removed.

Area of Concern No. 2 - Former Chemical Storage Building

In April 1996, Motorola performed soil sampling of VOC and metals impacted soils in the area of the Former Chemical Storage Building. The area sampled covered approximately one-third of an acre (Figure 2). Geoprobe borings were advanced into the impacted soils to a depth of approximately twelve feet. Soil analyses were performed for VOCs, benzene, and total metals.

Results indicated the following VOCs with maximum concentrations as noted: acetone - 14 ppm, methylene chloride - 2.2 ppm, 1,2-dichloroethene - 2.6 ppm, toluene - 130 ppm, trichloroethylene - 27 ppm, ethylbenzene - 600 ppm, and total xylenes - 3,500 ppm. Total metals were found at high values as: cadmium - 9210 ppm, chromium - 2420 ppm, and lead - 796 ppm.

Sampling results showed that the areas of soils impacted by metals were generally separate from the soils impacted by organics. However, there was some overlap relative to metals and BTEX (benzene, toluene, ethylbenzene, xylene) impacted soils. Total volume of impacted soils was estimated at approximately 4,500 cubic yards.

As a result of the findings in this area, various remedial alternatives were evaluated. Initially, stabilization of the soils as performed in AOC-1 was considered. A number of test samples were analyzed from treated soils from this area, however, stabilization was eliminated because of the persistence of VOCs after treatment.

A pilot test was then run in the field for potentially using soil vapor extraction (SVE) technology to address the VOCs followed by stabilization of the metals. The conclusion was that SVE would not be a preferred remedial technology for this portion of the site because of the tight soils. Phytoremediation was then

evaluated. Phytoremediation is the use of plants to extract metals from the soils through natural uptake of the metals into the plants. The plants also enhance natural biodegradation of the VOCs through the release of various chemicals from the plants which feed organisms in the soil which in turn break down organic compounds making them available for root uptake. Field scale studies indicated that the site soil conditions were not amenable for effective application of the technology. Based on the field results, the conclusion was that phytoremediation was not viable at this site.

Other technologies considered for addressing the VOCs in-situ included thermal stripping or destruction, chemical oxidation and column mixing with enhanced vapor extraction. In-situ metals treatment included soil mixing and chemical fixation of metals in soil.

The technology finally chosen for treatment of the VOC and metals impacted soils was the proprietary Mobile Injection Treatment Unit (MITU). The basis for this technology is in-situ soil mixing with a soil trenching machine equipped to add chemical reagents and hot air to achieve target cleanup concentrations for metals and organic compounds. The mixing along with the addition of hot air removed the organic compounds from the soil whereby the MITU's trenching head, which was fitted with an integral off-gas collection hood, collected any remaining organic vapors and directed them through a carbon adsorption treatment system.

The stabilization of the metals in soils was achieved by the addition of a dry proprietary chemical which was a variable blend of magnesium oxide and calcium phosphate. This chemical was spread on the ground then mixed in with the trencher to thoroughly mix with the impacted soils. The treatment approach for metals reduces metal leaching using a two part approach. The metals first combine with an anion to create a relatively insoluble metallic salt and then a buffering agent maintains the pH

at or near the minimum solubility range for the metal of concern.

The following site specific cleanup goals were established for soils in this area:
trichloroethylene - 0.7 ppm, ethylbenzene - 5.5 ppm, toluene - 1.5 ppm, total xylene - 1.2 ppm, cadmium - 10 ppm, chromium - 18 ppm, lead - 50 ppm. The actual area treated was defined by these values.

During the period of November 1998 to August 1999, the entire area was treated in this fashion. Confirmation samples were periodically taken to show that treatment goals were reached. Process confirmation samples for metals were analyzed using TCLP extraction followed by analysis for cadmium, chromium, and lead. Process target levels were to meet groundwater standards for metals, (cadmium - .010 ppm, chromium - .050 ppm, and lead - .025 ppm). Confirmation samples were taken from up to 31 designated grids within the work area.

Confirmation sampling for cadmium, chromium and lead indicated that a majority of the samples taken met or exceeded process target levels. Although some elevated cadmium and lead remain within this one-third acre area, this area is isolated. These soils are within the unsaturated zone and the leaching potential has been considerably reduced through treatment. The soils surrounding this area are tight which effectually reduces the amount of groundwater which can move to the treated area. It is noted that monitoring well #2, directly adjacent to the area, historically has shown groundwater values approaching standards for drinking water quality, while monitoring well #3, directly downgradient, has historically been below groundwater standards. In addition, deed restrictions will keep this area segregated and long term groundwater sampling will continue to monitor this area.

VOC confirmation analytical results for soils indicated TCE at non-detect to 0.56 ppm, with

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an average value of 0.08 ppm, which is well below the cleanup goal of 0.7 ppm. Ethylbenzene confirmation sampling indicated levels of non-detect to 2.8 ppm, with an average value of 0.97 ppm which is below the cleanup goal of 5.5 ppm. Toluene sampling indicated non-detect to 2.1 ppm, with an average value of 0.32 ppm which is below the cleanup goal of 1.5 ppm. Xylene was the most difficult compound to remove. Confirmation sampling indicated values from non-detect to 48 ppm. The average value for xylene was 6.7 ppm which is above the cleanup goal of 1.2 ppm. A review of the xylene data relative to the established site cleanup goal of 1.2 ppm shows that 19 of 31 sampled grids have remaining concentrations above the goal. However, percent reductions in xylene for those 19 grids ranged up to 99.5%,

with an average reduction of 87%.

Xylene is present in only one groundwater monitoring well, (well # 02A), directly adjacent to the remediated area. From a review of each of the site groundwater monitoring wells, it is apparent that xylene is not a site wide concern since all other wells show non-detect for this compound. Xylene is biodegradable and moves through groundwater at a much slower rate than other solvents noted at this site. An additional monitoring well between this site and the closest municipal well will be recommended in the long term monitoring plan.

Groundwater sampling downgradient of this area will continue to monitor for the contaminants of concern. Results indicate the following:

	Well # 02A (ppb)		Well # 06A (ppb)	
	January 1995	August 1998	January 1995	July 1999
ethylbenzene	41	51	ND	ND
trichloroethylene	17	3	59	42
toluene	7	20	ND	ND
xylene	93	320	ND	ND
total cadmium	7,900	35	5	ND
total chromium	191,000	16	103	ND
total lead	295	95	240	9

ND - not detected
Wells 02A and 06A are replacement wells

Area of Concern No. 3 - Sewer Weir Structure/Degreaser Units

Weir Structure and Plant Sump

In August 1992, Motorola removed water and sludge from a water treatment discharge weir structure in the north parking lot (Figure 2).

This had been an old discharge point for effluent from the plant. Approximately 3,400 gallons of water and 500 gallons of sludge were removed for disposal at LWD, Inc. in Calvert City, Kentucky. The interior of the structure was pressure washed twice and then wipe sampled for volatile organic compounds (VOCs), metals and cyanide. No VOCs or cyanide were noted. Low concentrations of cadmium, chromium and

lead were noted, however, these concentrations were considered inconsequential.

All of the pipelines leading to the structure were flushed with high pressure water and grouted closed. The steel plumbing and supports from within the structure, which had been cleaned, were removed for recycling. Reinforced concrete covers were removed and the walls of the structure were cut to a depth of approximately 8 inches below grade. Demolition rubble was allowed to fall into the structure. The remainder of the structure was backfilled to grade with clean gravel. An unused sump within the northern portion of the plant was also cleaned out and decommissioned in the same fashion as above. Groundwater sampling downgradient of these structures will continue to monitor any indications of continued source contamination. Analytical results thus far show decreasing contaminant levels in the groundwater in this area.

Phase II Investigation - 1992 (ppb)	December 1999 (ppb)
trichloroethylene	120
1,1,1-trichloroethene	17
total chromium	353
total lead	442
	67
	4.6
	ND
	3.7

Soil Vapor Extraction System

As part of the Phase II investigations in January 1992, Motorola performed a soil gas survey to evaluate potential contaminant source areas within the unsaturated zone soils at the site. From a total of 60 soil gas samples, it was determined that the two degreasers within the plant were source areas of volatile organic contamination which were impacting groundwater at the site. Soils under degreaser #1 contained methylene chloride as high as 95 ppm and TCE as high as 16 ppm. Soils under degreaser #2 contained methylene chloride and TCE at high levels of 6.7 and 3.5 ppm, respectively.

Based on the above results, Motorola installed soil vapor extraction systems at each degreaser location (Figure 2). A total of 31 injection/withdrawal wells were installed through the concrete floor within the interior of the facility. Each well was advanced to an approximate depth of 8 feet below ground surface. The system was designed to direct extracted vapors through a carbon canister prior to exhaust to the atmosphere. Soil cleanup goals for organic compounds in soils were, as per TAGM 4046:

1,2-dichloroethene - 0.3 ppm, methylene chloride - 0.1 ppm, trichloroethylene - 0.7 ppm, and ethylbenzene - 5.5 ppm.

Operation of the SVE system commenced on October 19, 1993. Initial sampling data from around the two degreasers indicated the following organic compounds within soils under the concrete floor:

1,1-dichloroethane at 5.8 ppm, 1,2-dichloroethane at 32.9 ppm, 1,1,1-trichloroethane at 15 ppm, and trichloroethylene at 23.2 ppm. The soil vapor extraction system remained in constant operation during which time quarterly sampling events were performed to monitor the system. Degreaser #2 was taken out of service in May 1996. In April 1997, soil sampling from around the two degreasers showed that soil cleanup goals had been reached in the area of degreaser #2. In September 1997, the SVE system from around degreaser #2 was shut down and efforts were then concentrated on the area around degreaser #1. Confirmation sampling of soils beneath degreaser #2 showed that all of the VOCs were well below the cleanup goals. The only compounds present were: 1,2-dichloroethene at 0.002 ppm and trichloroethylene at 0.022 ppm.

In November 1997, the SVE system around degreaser #1 was reconfigured for optimal operation. Five additional vapor extraction wells were installed in the immediate area. In August 1997, degreaser #1 was decommissioned and the SVE system continued

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to operate. In December 1998, soil verification sampling was conducted which indicated that cleanup goals had been achieved at degreaser # 1. A final round of soil sampling from around degreaser # 1 was performed in December 1999 to confirm again, that soil cleanup goals had been achieved in this area. The only compounds found were methylene chloride at a high of 0.020 ppm and trichloroethylene at a high of 0.180 ppm, both well below the cleanup goals.

4.2.1 Groundwater Monitoring

Four monitoring wells were initially installed as part of the July 1991, Phase I investigation. Sampling of these wells indicated the presence of VOCs in the overburden groundwater at the site. To further define the extent of contamination at the site, nine additional monitoring wells were installed at various depths and locations around the site as part of a Phase II investigation (Figure 2). The thirteen monitoring wells, along with the Arcade Municipal well northeast of the site, were sampled for VOCs, total and dissolved inorganics, cyanide, and hardness. Subsequent Phase II sampling identified the source areas at the site.

In June, 1995 additional Geoprobe borings were placed around the site to fully characterize soils and groundwater over the entire site and to determine if there were any concerns within the northeast portion of the site. The results of that study found no other sources of contamination other than those already known to exist and also indicated that there were no groundwater issues within the northeast portion of the site.

Since July 1992 a number of remedial actions have been performed at this site as previously discussed in section 4.2. These actions addressed the source areas on site and have successfully removed or contained contamination associated with these areas. The following list presents the highest

concentrations for compounds initially found during the Phase II investigation and the highest concentrations of these compounds as of July 1999, after all remedial activities had been completed at the site.

Phase II Investigation (1992) (ppb)	July 1999 (ppb)
Trichloroethylene	300
1,1,1-trichloroethane	17
1,2-dichloroethene	35
total cadmium	7,900
total chromium	644
total lead	544
	53

Long term monitoring of groundwater will continue at this site as part of the proposed remedy.

4.3 Summary of Human Exposure Pathways:

This section describes the types of human exposures that originally presented health risks to persons at or around the site. An exposure pathway is how an individual may come into contact with a contaminant. The five elements of an exposure pathway are: 1) the source of contamination; 2) the environmental media and transport mechanisms; 3) the point of exposure; 4) the route of exposure; and 5) the receptor population. These elements of exposure have been mitigated through the remedial measures already performed at this site.

An evaluation of the RIs performed at the site indicated that the significant potential exposure points associated with the site were: 1) direct contact with surface soils by site workers and/or trespassers; 2) direct contact with subsurface soils by site workers or future construction workers; 3) direct contact with sediments within Cemetery Creek and within the old weir structure; 4) direct contact with water within the old weir structure; 5) inhalation of organic vapors from beneath the concrete floor within the plant. As noted above, the remedial work completed at the site has mitigated human exposure pathways at this site.

4.4 Summary of Environmental Exposure Pathways:

This section summarizes the types of environmental exposures which may be presented by the site. Investigative analysis indicated that Cemetery Creek and Cattaraugus Creek are two environmental areas of concern. Cemetery Creek is a small intermittent, Class D stream, which is a tributary to Cattaraugus Creek, a Class B stream.

Evaluation of analytical results from Cemetery Creek and Cattaraugus Creek relative to applicable criteria revealed that only Cemetery Creek had been impacted by the Prestolite site. Sediment sampled indicated elevated levels of metals such as, cadmium, chromium, copper, nickel and lead. No organic compounds or PCBs were noted. After remedial efforts were completed, no environmental exposure pathway remained.

SECTION 5: ENFORCEMENT STATUS

Potentially Responsible Parties (PRPs) are those who may be legally liable for contamination at a site. This may include past or present owners and operators, waste generators, and haulers.

The PRP for the site, documented to date, is Motorola, Inc. Motorola had volunteered to perform all necessary investigations and remedial efforts necessary to mitigate contamination at the site.

The following is the chronological enforcement history of this site.

Order on Consent

<u>Date</u>	January 1995
<u>Index No.</u>	B9-0468-94-11
<u>Subject of Order</u>	Interim Remedial Measure Program

Motorola Inc. and Prestolite Electric Inc. entered into an Order on Consent, on January 30, 1995, for the implementation of Interim Remedial Measures (IRMs) to address contamination of soils and groundwater on the site.

SECTION 6: SUMMARY OF THE REMEDIAL GOALS AND PROPOSED ACTION

The selected remedy for any site should, at a minimum, eliminate or mitigate all significant threats to the public health or the environment presented by the hazardous waste present at the site. The State believes that the remediation now in place, which is described in Section 4.2, has accomplished this objective provided that it continues to be operated and maintained in a manner consistent with the design.

Based upon the results of the investigations and the IRMs that have been performed at the site, the NYSDEC is proposing, as the preferred remedial alternative for the site, no further action and continued long term groundwater monitoring. An additional monitoring well would be placed at the northeast portion of the property to assure that the community well to the northeast is protected. Land use restrictions would need to be implemented.

The Department would also reclassify the site from a Class 3 to a Class 4 on the New York State Registry of Inactive Hazardous Waste Disposal Sites. This means that the site is properly closed but needs continued management.

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Table 1

Nature and Extent of Contamination
(indicated values are pre-remediation)

MEDIA	CLASS	CONTAMINANT OF CONCERN	CONCENTRATION RANGE	FREQUENCY OF EXCEEDANCES	SCG
Groundwater (ppb)	VOCs	acetone	ND to 440	3 of 16	50
		toluene	ND to 180	2 of 16	5
		trichloroethylene	ND to 300	6 of 16	5
		1,1,1-trichloroethane	ND to 19	4 of 16	5
		1,2-dichloroethene	ND to 62	2 of 16	5
		ethylbenzene	ND to 160	1 of 16	5
		total xylenes	ND to 850	2 of 16	5
	Total Metals	cadmium	ND to 7,900	10 of 16	5
		chromium	ND to 191,000	14 of 16	50
		lead	ND to 0.680	14 of 16	25
Soils (ppm)	VOCs	toluene	ND to 130	^	1.5
		methylene chloride	ND to 2.2	^	0.1
		acetone	ND to 14	^	0.2
		trichloroethylene	ND to 27	^	0.7
		chloroform	ND to 70	^	0.3
		1,2-dichloroethene	ND to 33	^	0.3
		ethylbenzene	ND to 600	^	5.5
		total xylenes	ND to 3500	^	1.2
	Metals	cadmium	ND to 9210	^	10
		chromium	ND to 2420	^	50
		lead	ND to 796	^	25
Sediments (ppm)	Metals (creek)	cadmium	ND to 79	12 of 29	0.5 - 9
		copper	6.1 to 197	4 of 29	16 - 110

VOCs - volatile organic compounds

VOCs (weir) - sample taken from weir structure

Metals (creek) - samples taken from Cemetery Creek

Frequency Of exceedance - number of locations with exceedance relative to the total number of locations sampled.

(^) - due to the numerous sampling programs on site, it was very difficult to determine the exact amount of exceedance.

Table 2

References

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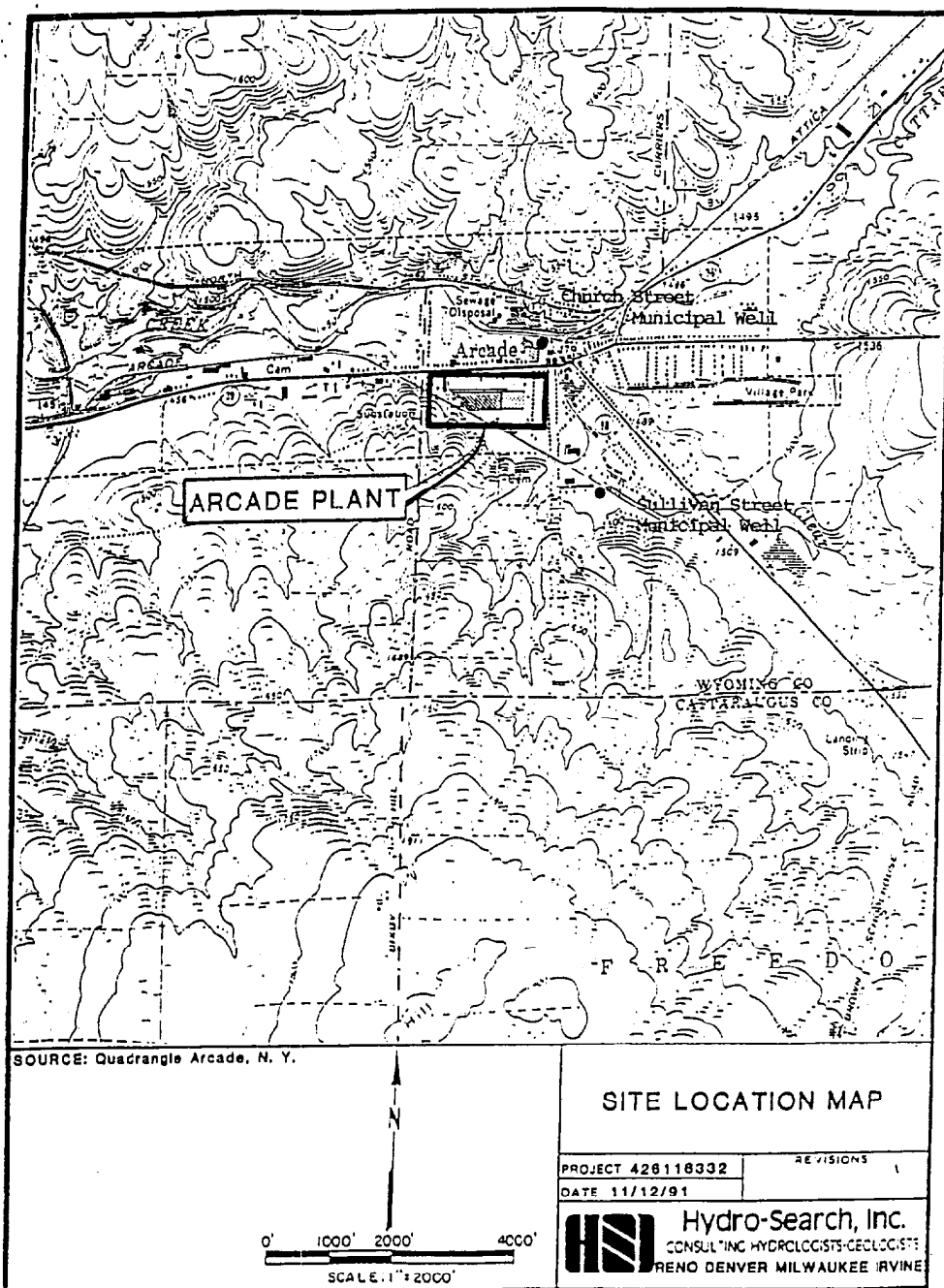
HSI GeoTrans, October 22, 1998, Interim Remedial Measures, Remedial Action Plan, Addendum No. 1, Prestolite Plant, Arcade, New York, Project No. P002

HSI GeoTrans, 1998 - Present, Semi-Annual Groundwater Monitoring and Progress Reports

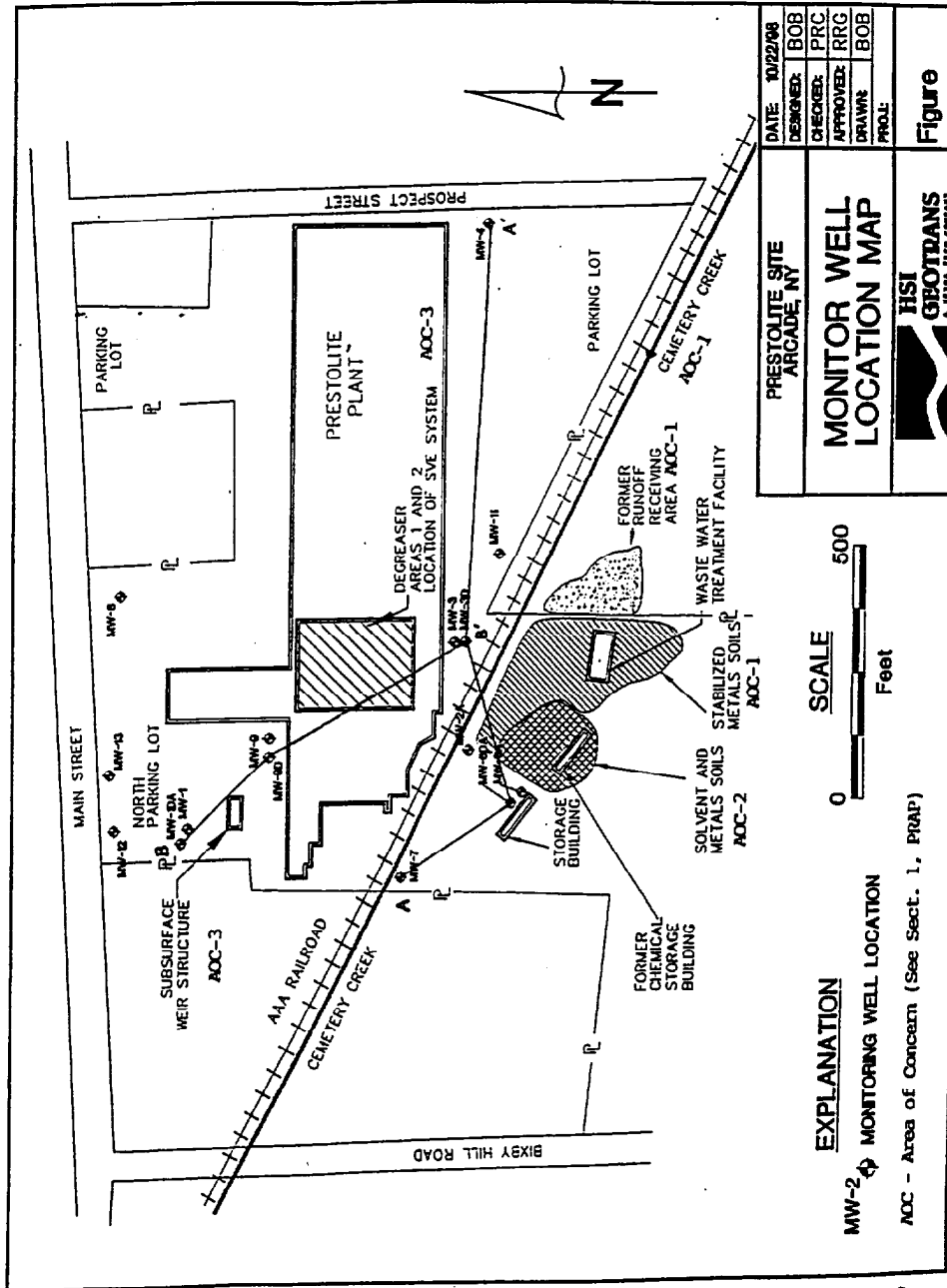
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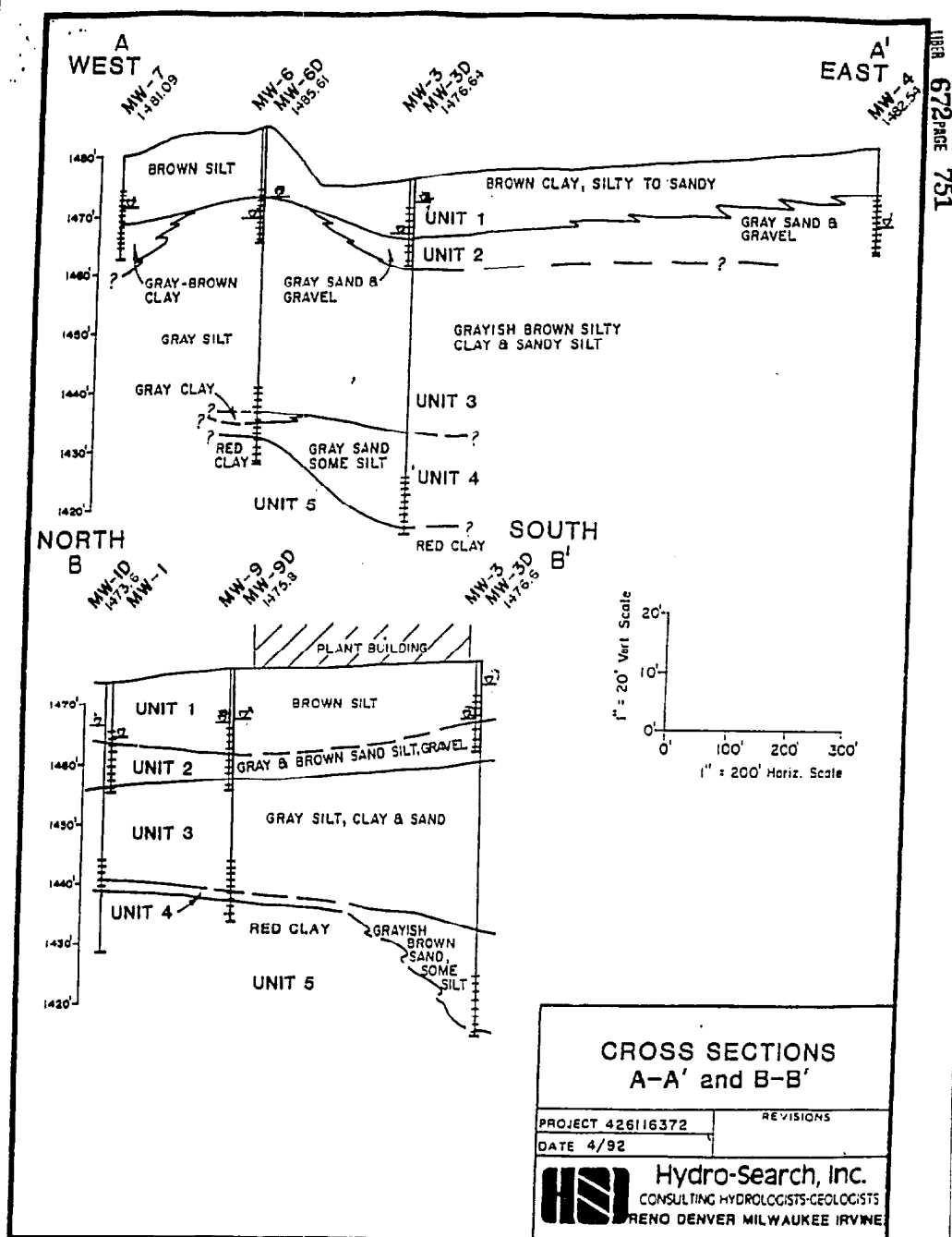
New York State Department of Environmental Conservation, January 1995, Order on Consent, B9-0468-94-11

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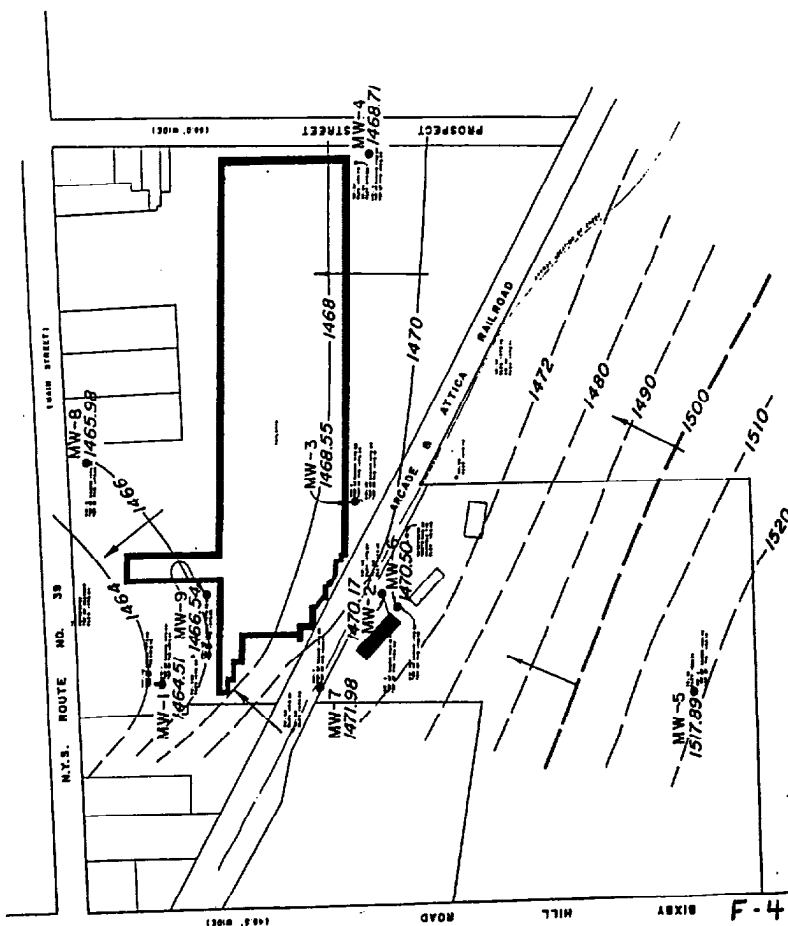


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LEGEND

— 1470 — EQUIPOTENTIAL CONTOUR
SHOWING FLOW DIRECTION

MW-7
1471.90
MONITORING WELL COMPLETED
IN THE SHALLOW AQUIFER
SHOWING WATER LEVEL
(measured 2/12/92)



WATER TABLE
SURFACE
(SHALLOW AQUIFER)

PROJECT 42816372

DATE 4/92

DIVISION

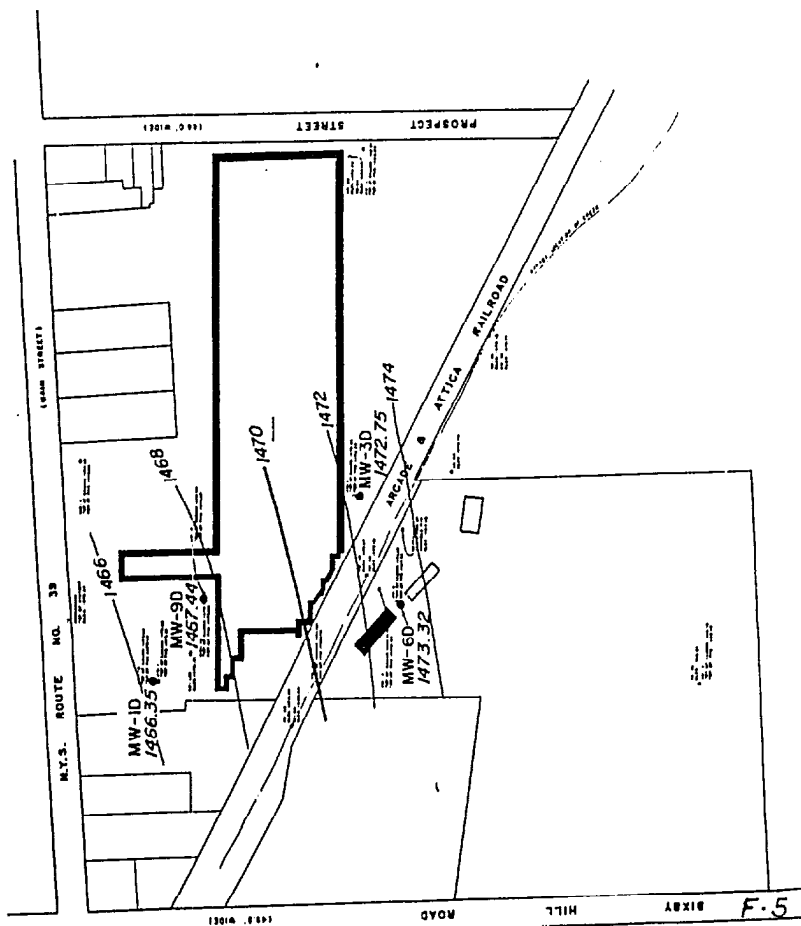
Hydro-Search, Inc.
CONSULTING GEOLOGISTS
1000 DENVER BLVD. SUITE 200
WYOMING, NEBRASKA 68102

LEGEND

—1470— EQUIPOTENTIAL CONTOUR
SHOWING FLOW DIRECTION

MONITORING WELL COMPLETED
IN THE DEEP AQUIFER
SHOWING WATER LEVEL
(measured 2/12/92)

MW-9D
1467.44



NOTES:
1. THIS MAP WAS PREPARED BY HYDRO-SEARCH, INC. FOR THE U.S. GEOLOGICAL SURVEY.
2. THE U.S. GEOLOGICAL SURVEY HAS REVIEWED THIS MAP AND HAS DETERMINED THAT IT IS A TRUE AND CORRECT REPRESENTATION OF THE DATA SUBMITTED TO IT.
3. THE U.S. GEOLOGICAL SURVEY DOES NOT WARRANT THE ACCURACY OF THE DATA SUBMITTED TO IT.

**POTENTIOMETRIC
SURFACE
(DEEP AQUIFER)**

PROJECT 426118372

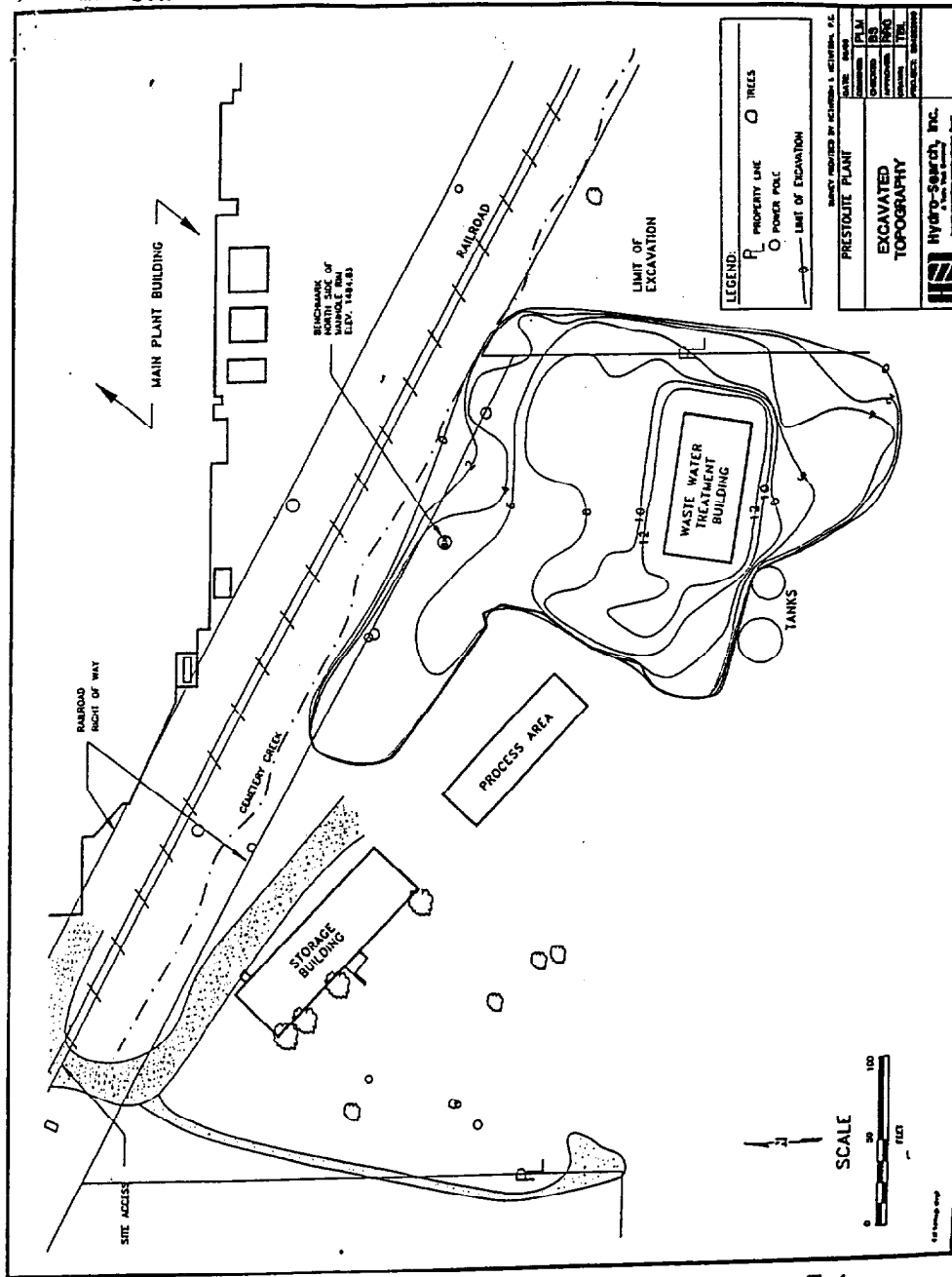
DATE 4/92

REVISIONS

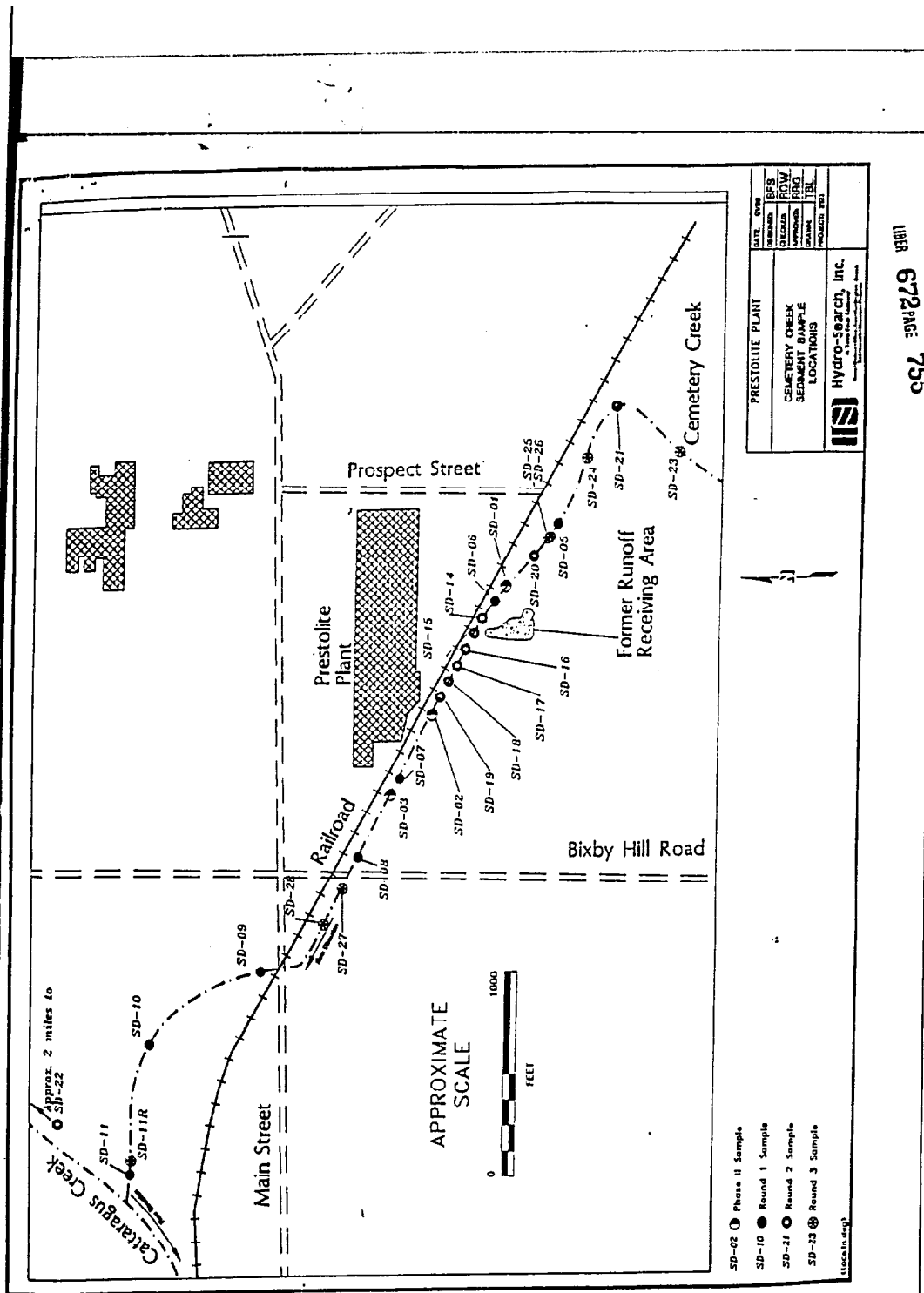
Hydro-Search, Inc.
GROUNDWATER CONSULTANTS
1800 DENVER MILWAUKEE AVENUE

1888 672 PAGE 753

LIBER 672 PAGE 754

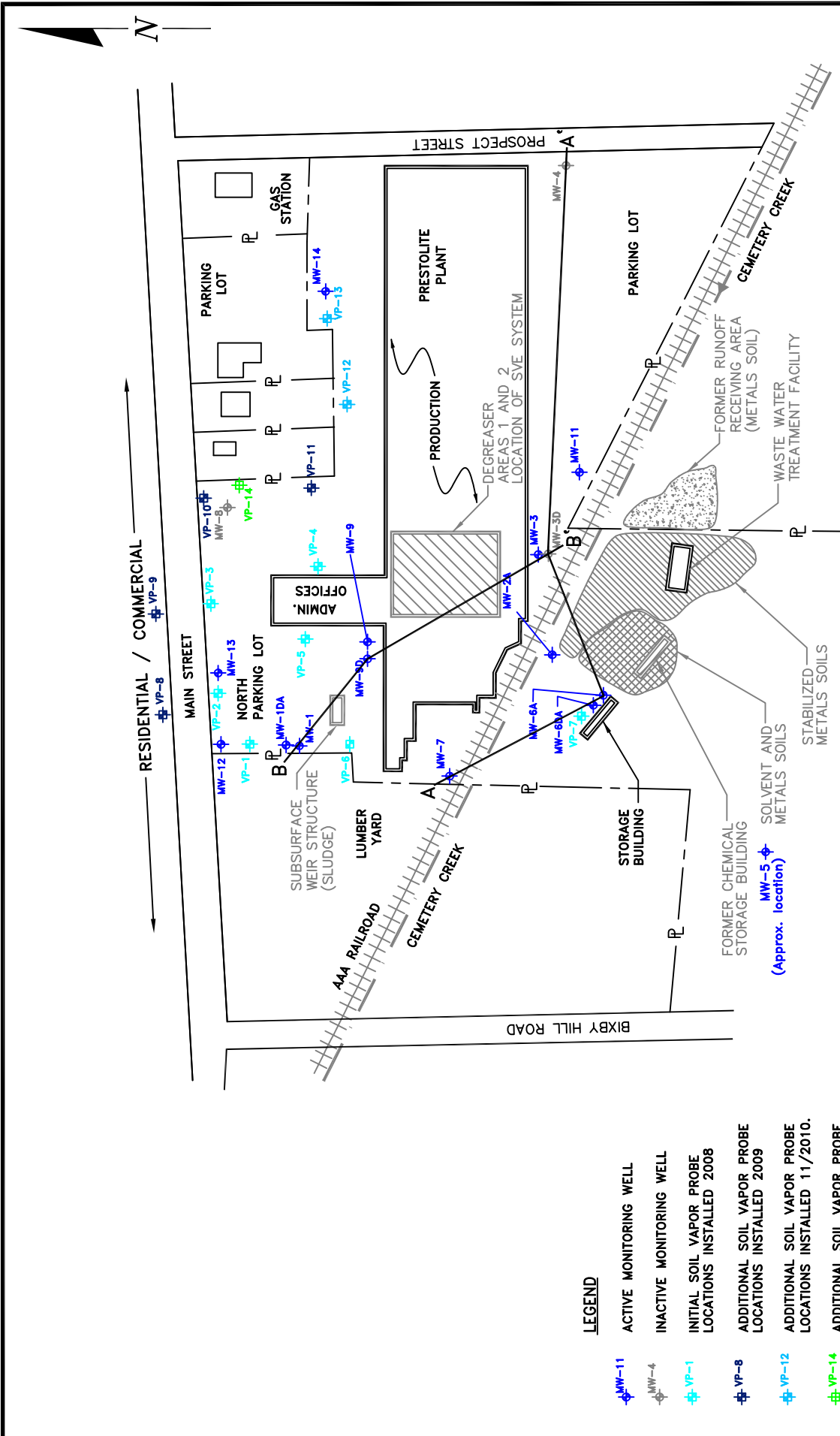


F-6



F-7

APPENDIX D
Geologic Cross-Sections



ENVIRONMENTAL CONSULTATION & REMEDIATION		K P R C		K P R C	
K P R C		Motorola, Inc., Presolite Plant Arcade, New York		Scale: 1" = 300'	
14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478		KPRG and Associates, inc.		Date: March 3, 2014	
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593		KPRG Project No. 21803		FIGURE D-1	

All locations and dimensions are approximate.

APPENDIX E
**Site Investigation Data Tables and Sample
Location Figures**

LEGEND

- MW-5  MONITORING WELL
- SD-03  SURFACE WATER/SEDIMENT LOCATION
- SW-03  SURFACE WATER/SEDIMENT LOCATION
- SS-01  SURFACE SOIL LOCATION
- SL-01  SUBSURFACE LIQUID and/or SOLID LOCATION
- SSL-01  SUBSURFACE LIQUID and/or SOLID LOCATION
- A — A'  GEOLOGIC CROSS SECTION

NEW YORK STATE PLANE COORDINATE SYSTEM

POINT	Easting	Northing
1	1000000.00	1000000.00
2	1000000.00	1000000.00
3	1000000.00	1000000.00
4	1000000.00	1000000.00
5	1000000.00	1000000.00
6	1000000.00	1000000.00
7	1000000.00	1000000.00
8	1000000.00	1000000.00
9	1000000.00	1000000.00
10	1000000.00	1000000.00
11	1000000.00	1000000.00
12	1000000.00	1000000.00
13	1000000.00	1000000.00
14	1000000.00	1000000.00
15	1000000.00	1000000.00
16	1000000.00	1000000.00
17	1000000.00	1000000.00
18	1000000.00	1000000.00
19	1000000.00	1000000.00
20	1000000.00	1000000.00
21	1000000.00	1000000.00
22	1000000.00	1000000.00
23	1000000.00	1000000.00
24	1000000.00	1000000.00
25	1000000.00	1000000.00
26	1000000.00	1000000.00
27	1000000.00	1000000.00
28	1000000.00	1000000.00
29	1000000.00	1000000.00
30	1000000.00	1000000.00
31	1000000.00	1000000.00
32	1000000.00	1000000.00
33	1000000.00	1000000.00
34	1000000.00	1000000.00
35	1000000.00	1000000.00
36	1000000.00	1000000.00
37	1000000.00	1000000.00
38	1000000.00	1000000.00
39	1000000.00	1000000.00
40	1000000.00	1000000.00
41	1000000.00	1000000.00
42	1000000.00	1000000.00
43	1000000.00	1000000.00
44	1000000.00	1000000.00
45	1000000.00	1000000.00
46	1000000.00	1000000.00
47	1000000.00	1000000.00
48	1000000.00	1000000.00
49	1000000.00	1000000.00
50	1000000.00	1000000.00
51	1000000.00	1000000.00
52	1000000.00	1000000.00
53	1000000.00	1000000.00
54	1000000.00	1000000.00
55	1000000.00	1000000.00
56	1000000.00	1000000.00
57	1000000.00	1000000.00
58	1000000.00	1000000.00
59	1000000.00	1000000.00
60	1000000.00	1000000.00
61	1000000.00	1000000.00
62	1000000.00	1000000.00
63	1000000.00	1000000.00
64	1000000.00	1000000.00
65	1000000.00	1000000.00
66	1000000.00	1000000.00
67	1000000.00	1000000.00
68	1000000.00	1000000.00
69	1000000.00	1000000.00
70	1000000.00	1000000.00
71	1000000.00	1000000.00
72	1000000.00	1000000.00
73	1000000.00	1000000.00
74	1000000.00	1000000.00
75	1000000.00	1000000.00
76	1000000.00	1000000.00
77	1000000.00	1000000.00
78	1000000.00	1000000.00
79	1000000.00	1000000.00
80	1000000.00	1000000.00
81	1000000.00	1000000.00
82	1000000.00	1000000.00
83	1000000.00	1000000.00
84	1000000.00	1000000.00
85	1000000.00	1000000.00
86	1000000.00	1000000.00
87	1000000.00	1000000.00
88	1000000.00	1000000.00
89	1000000.00	1000000.00
90	1000000.00	1000000.00
91	1000000.00	1000000.00
92	1000000.00	1000000.00
93	1000000.00	1000000.00
94	1000000.00	1000000.00
95	1000000.00	1000000.00
96	1000000.00	1000000.00
97	1000000.00	1000000.00
98	1000000.00	1000000.00
99	1000000.00	1000000.00
100	1000000.00	1000000.00

NOTE: THIS COMPARISON OF COORDINATES IS FOR INFORMATION ONLY. IT DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE DATA. THE DATA IS THE PROPERTY OF HYDRO-SEARCH, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

FIGURE 2-1

SITE MAP SHOWING SAMPLE LOCATIONS & CROSS SECTION LINES

PROJECT 428116372	REVISIONS
DATE 4/92	



Hydro-Search, Inc.
CONSULTING HYDROLOGISTS-GEOLGISTS
RENO DENVER MILWAUKEE IRVINE

TABLE 4-6
ORGANIC CONCENTRATIONS IN SURFACE & SUBSURFACE SOILS (ug/kg)

	SUBSURFACE SOILS (21/10/2007)										SURFACE SOILS		TRIP BLANK		METHOD
	SB01	SB02	SB03	SB03Col	SB04	SB05	SB06	SB07	SS01	SS02	SS03	TB1	SS03	TB1	SBLK72
Date Received	1/13	2/4	2/6	2/6	1/31	2/4	2/4	2/4	2/4	2/4	2/4	2/6	2/4	2/6	—
Date Analyzed	2/4	2/6	2/10	2/10	2/4	2/7	2/6	2/6	2/6	2/6	2/6	2/7	2/6	2/7	—
VOCs															
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	NA
Trichloroethylene	ND	ND	10	ND	77	2200	20	ND	ND	ND	ND	ND	ND	ND	NA
Acetone	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichloroethene	ND	ND	9	ND	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Date Extracted	2/5	2/7	2/10	2/10	—	—	—	—	—	—	—	—	—	—	2/5
Date Analyzed	2/24	2/24	2/24	2/24	—	—	—	—	—	—	—	—	—	—	2/13
SEMIVOLATILES															
bis(2-ethylhexyl)phthalate	280 BJX	ND	350 J	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 J
Acenaphthene	ND	ND	ND	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Naphthalene	ND	ND	ND	3500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
2-methyl naphTolene	ND	ND	ND	1600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Dibenzofuran	ND	ND	ND	2200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Fluorene	ND	ND	ND	3600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Phenanthrene	ND	ND	ND	6200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Anthracene	ND	ND	ND	1700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Fluoranthene	ND	ND	ND	5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Pyrene	ND	ND	ND	3600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Benzo(a)anthracene	ND	ND	ND	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Chrysene	ND	ND	ND	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Benzo(b)fluoranthene	ND	ND	ND	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Benzo(k)fluoranthene	ND	ND	ND	1700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Benzo(a)pyrene	ND	ND	ND	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	650 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Benzo (g,h,i)perylene	ND	ND	ND	470 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Date Extracted	2/5	2/7	2/10	2/10	—	—	—	—	—	—	—	—	—	—	—
Date Analyzed	2/14	2/25	2/27	2/25	—	—	—	—	—	—	—	—	—	—	—
PESTICIDES/PCBS															
Endosulfan II	ND	ND	ND	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ND	ND	ND	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

B = The analyte is found in the blank as well as in the sample, indicating possible/probable contamination and warning the data user to take appropriate action.

Col = Collocated sample.

J = Mass spectral data indicates the presence of a compound but the result is less than the specified detection limit, but still greater than zero.

X = The mass spectrum does not meet EPA CLP criteria for confirmation, but compound presence is strongly suspected.

NA = The analyte was not analyzed.

ND = The analyte was analyzed for but not detected.

— = Not applicable.

TABLE 4-7
INORGANIC CONCENTRATIONS IN SURFACE AND SUBSURFACE SOILS (mg/kg)

PARAMETER	SUBSURFACE SOILS				SURFACE SOILS		
	SB01	SB02	SB03	SB03Cd	SS01	SS02	SS03
Aluminum	12800	14700	13200	10600	15600	12900	12900
Antimony	U	U	U	U	U	U	U
Arsenic	12.9	8.7	8.4	6.2	6.6	10.7	14.4
Barium	70.9	54.8	72	58	73	79.3	118
Beryllium	.68 B	.86 B	0.67 B	.58 B	.76 B	.74 B	1.1 B
Cadmium	U	U	U	5	U	475	8420
Calcium	24000	1770	30000	86700	1430	12800	3230
Chromium	16	17	14.8	12.3	18	23.7	44.3
Cobalt	13	10.6	9.9 B	5.3 B	7.0 B	11.1 B	12.8
Copper	26.2	21.3	25.4	51	12.6	75.4	224
Cyanide	U	U	U	U	U	U	26.1
Iron	28300	26400	24400	17400	22700	25700	24100
Lead	16.2	16.7	9.5	25	18.1	22.9	241
Magnesium	9000	3820	10500	7750	2440	4880	2900
Manganese	408	746	471	746	406	740	1160
Mercury	U	U	U	U	U	U	U
Nickel	26.3	23.5	21.9	15.3	11.3	25.9	46.8
Potassium	2130	1630	2510	1880	1790	1450	1440
Selenium	U	U	U	U	U	U	U
Silver	.71 B	.56 B	2.7	2.1 B	U	U	.75 B
Sodium	114 B	79.4 B	144 B	175 B	64.1 B	78.3 B	75.9 B
Thallium	U	U	.23 B	U	U	U	U
Vanadium	17.4	18.1	20.4	18.6	28.3	16.5	16
Zinc	73.9	85.9	65.3	104	79.7	310	377

B = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

Col = Collocated sample.

U = The analyte was analyzed for but not detected.

TABLE 4-8
ORGANIC CONCENTRATIONS IN SEDIMENT AND SURFACE WATER

	SEDIMENT IN $\mu\text{g/kg}$						SURFACE WATER IN $\mu\text{g/l}$						TRIP BLANKS IN $\mu\text{g/l}$		METHOD BLANKS	
	SD01	SD02	SD03	SD03Cul	SD04		SW01	SW02	SW03	SW03Dup	SW04		TB1	TB2	VBLK35	VBLK13
Date Received	1/31	1/31	1/31	1/31	1/31		1/31	1/31	1/31	1/31	1/31		1/31	1/31	NA	NA
Date Analyzed	2/4	2/4	2/5	2/5	2/4		2/5	2/5	2/6	2/6	2/5		2/5	2/5	2/5	2/6
VOCs																
Acetone	ND	ND	ND	ND	ND		ND	ND	ND	8 BJ	ND		ND	ND	ND	13
Xylene	ND	ND	10	8 J	ND		ND	ND	ND	10	ND		ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		5 B	4 BJ	6	4 J
Date Extracted	2/5	2/5	2/5	2/5	2/5		--	--	--	--	--		--	--	--	--
Date Analyzed	2/14	2/14	2/14	2/14	2/14		--	--	--	--	--		--	--	--	--
PESTICIDES/PCMS																
Aldrin	ND	ND	ND	ND	57		NA	NA	NA	NA	NA		NA	NA	NA	NA
Endosulfan Sulfate	ND	ND	ND	ND	24		NA	NA	NA	NA	NA		NA	NA	NA	NA

B = The analyte is found in the blank as well as in the sample, indicating possible/probable contamination and warning the data user to take appropriate action.

Cul = Collocated sample.

Dup = Duplicate sample.

J = Mass spectral data indicates the presence of a compound but the result is less than the specified detection limit, but still greater than zero.

NA = The analyte was not analyzed.

ND = The analyte was analyzed for but not detected.

-- = Not applicable.

TABLE 4-9
INORGANIC CONCENTRATIONS IN SEDIMENT AND SURFACE WATER

PARAMETER	SEDIMENT IN mg/kg					SURFACE WATER IN ug/l									
	SD01	SD02	SD03	SD03Col	SD04	SW01		SW02		SW03		SW03Dup		SW04	
						Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	7610	14000	16700	14100	15200	51.9 B	25.3 B	77.2 B	26.6 B	69.2 B	U	62.6 B	19.5 B	70.6 B	25.3 B
Antimony	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Arsenic	6.4	8.3	10.8	13.4	7.4	U	U	U	U	U	U	U	U	U	U
Barium	70.2	120	157	133	146	26.5 B	26.5 B	33.7 B	31.7 B	31.0 B	30 B	31 B	30.7 B	137 B	133 B
Beryllium	.57 B	.71 B	1.1 B	.82 B	1.3 B	U	U	U	U	U	U	U	U	U	U
Cadmium	U	71	31.8	31.2	11.6	U	U	U	U	U	U	U	U	U	U
Calcium	1440	3030	4280	3760	25600	21000	20800	23700	23600	24200	22400	24000	22400	63700	62800
Chromium	9.1	19.1	20.2	17.1	44.3	U	U	U	U	U	U	U	U	U	U
Cobalt	8.0 B	11.2 B	13.6 B	13.4 B	10 B	U	U	U	U	U	U	U	U	U	U
Copper	15.3	136	64.4	60.8	204	U	U	8.9 B	7.4 B	U	U	U	U	10.4 B	6 B
Iron	23900	27600	33300	31700	27200	63.1 B	21.4 B	132	19 B	66.1 B	8.2 B	82.2 B	33 B	136	U
Lead	23.7	31	26.7	38.7	189	U	U	U	U	U	3	U	U	U	U
Magnesium	2320	3440	4090	3730	11000	4250 B	4270 B	4720 B	4670 B	4750 B	4510 B	4720 B	4520 B	10400	10100
Manganese	453	593	1180	1250	235	2.1 B	U	2.9 B	U	U	U	U	U	U	U
Mercury	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Nickel	16.8	37.9	32.2	31.5	35.5	U	U	U	U	U	U	U	U	U	U
Potassium	724 B	1500	2140	1430	2570	1030 B	1130 B	1050 B	1170 B	1250 B	1110 B	1330 B	1120 B	1430 B	1700 B
Selenium	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Silver	.98 B	1.4 B	1.2 B	1.3 B	2.5 B	3.6 B	2.3 B	2.8 B	3.9 B	2.3 B	U	3.1 B	U	3.1 B	5.7 B
Sodium	67.2 B	115 B	184 B	127 B	225 B	11100	11000	11200	11000	12300	11900	12100	11900	9940	9880
Thallium	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vanadium	10.5 B	19.8	23.2	19.6	28.2	U	U	U	U	U	U	U	U	U	U
Zinc	172	131	186	200	612	6.8 B	3 B	4.6 B	3 B	7.6 B	5.1 B	8.0 B	5.9 B	13.1 B	4.2 B
Cyanide	U	U	U	U	U	U	-	U	-	U	-	U	-	U	-

B = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

Col = Collocated sample.

Dup = Duplicate sample.

U = The analyte was analyzed for but not detected.



TABLE 4-10
ORGANIC CONCENTRATIONS IN SLUDGE

	SOLID FRACTION IN ug/kg		LIQUID FRACTION IN ug/l				METHOD BLANKS	
	SL01	SL01C01	SSLO1	SSLO2	SSLO2Dup		ug/kg	ug/l
	Date Received Date Analyzed	2/4 2/7	2/4 2/6	2/4 2/6	2/4 2/6		SBLK86	VBLK13
VOCs								
Chloroform	70,000 D	84,000 D	36	ND	ND		NA	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND		NA	ND
Methylene Chloride	13,000 D	12,000 D	4 BJ	5 B	6 B		NA	4 J
Trichloroethylene	6,000 DJ	7,100 DJ	ND	40	41		NA	ND
Acetone	ND	ND	ND	22 B	11 B		NA	13
	Date Extracted Date Analyzed	2/7 2/24	2/5 2/27	2/5 2/13	2/5 2/13		2/7 2/20	—
SEMI-VOLATILES								
Acenaphthene	ND	ND	17 JX	ND	ND		ND	NA
Fluorene	ND	3,000 JX	22 X	ND	ND		ND	NA
Phenanthrene	ND	22,000 X	190 X	ND	ND		ND	NA
Fluoranthene	5900 JX	27,000 X	490 X	ND	ND		ND	NA
Pyrene	ND	16,000 X	150 X	ND	ND		ND	NA
Benzo(a)anthracene	ND	21,000 X	100 X	ND	ND		ND	NA
Chrysene	ND	ND	140 X	ND	ND		ND	NA
Bis(2-ethylhexyl) phthalate	36,000 B	67,000 B	110 X	ND	ND		400	NA
Benzo(b)fluoranthene	5,200 JXZ	23,000 XZ	280 XZ	ND	ND		ND	NA
Benzo(k)fluoranthene	Z	Z	Z	ND	ND		ND	NA
Benzo(a)pyrene	ND	9,400 X	150 X	ND	ND		ND	NA
Indeno(1,2,3-cd)pyrene	ND	7,800 X	100 X	ND	ND		ND	NA
Dibenz(a,h)anthracene	ND	ND	26 X	ND	ND		ND	NA
Benzo(g,h,i)perylene	ND	6,600 X	53 X	ND	ND		ND	NA
	Date Extracted Date Analyzed	2/7 2/25	2/6 2/27	2/6 2/27	2/6 2/27		—	—
PESTICIDES/PCBS								
Aldrin	310	250	1.2	ND	ND		NA	NA
Heptachlor Epoxide	150	ND	ND	ND	ND		NA	NA
4,4'-DDE	130	110	0.29	ND	ND		NA	NA
Endrin	ND	ND	0.14	ND	ND		NA	NA
Aroclor 1254	3100	2800	4.7	ND	ND		NA	NA

B = The analyte is found in the blank as well as in the sample, indicating possible/probable contamination and warning the data user to take appropriate action.

Col = Collocated sample.

Dup = Duplicate sample.

D = Indicates the value for the target analyte was calculated from a dilution.

J = Mass spectral data indicates the presence of a compound but the result is less than the specified detection limit, but still greater than zero.

X = The mass spectrum does not meet EPA CLP criteria for confirmation, but compound presence is strongly suspected.

Z = Benzo(b)fluoranthene and benzo(k)fluoranthene cannot be quantified due to lack of chromatographic separation.

The result listed under benzo(b)fluoranthene is the total of both compounds.

NA = The analyte was not analyzed.

ND = The analyte was analyzed for but not detected.

— = Not applicable.

SBLK = Laboratory blank run with solids fraction.

VBLK = Laboratory blank run with liquid fraction.



TABLE 4-11
INORGANIC CONCENTRATIONS IN SLUDGE

PARAMETER	SOLID FRACTION (mg/kg)		LIQUID FRACTION (ug/l)		
	SL01	SL01Col	SSL01	SSL02	SSL02Dup
Aluminum	1500	1680	26100	22.7 B	22.7 B
Antimony	U	U	U	U	U
Arsenic	U	U	9.4 B	U	U
Barium	391 B	436 B	626	124 B	127 B
Beryllium	U	U	2.2 B	U	U
Cadmium	10300	10900	17600	24	17
Calcium	60900	66100	148000	61900	63100
Chromium	1340	1480	820	U	U
Cobalt	10.5 B	U	32.8 B	U	U
Copper	335	350	1550	U	U
Cyanide	179	205	870	U	U
Iron	55400	61600	151000	55.5 B	73.1 B
Lead	2880	3000	3030	6.2	2.2 B
Magnesium	8700 B	9450 B	27900	9990	10000
Manganese	381	403	1450	U	U
Mercury	U	U	U	U	U
Nickel	357	411	564	U	U
Potassium	1310 B	U	6660	1600 B	1790 B
Selenium	U	U	U	U	U
Silver	U	U	8.6 B	U	U
Sodium	22200	25600	255000	9320	9460
Thallium	U	U	U	U	U
Vanadium	U	U	34.3 B	U	U
Zinc	31400	34500	28600	74.1	76.4

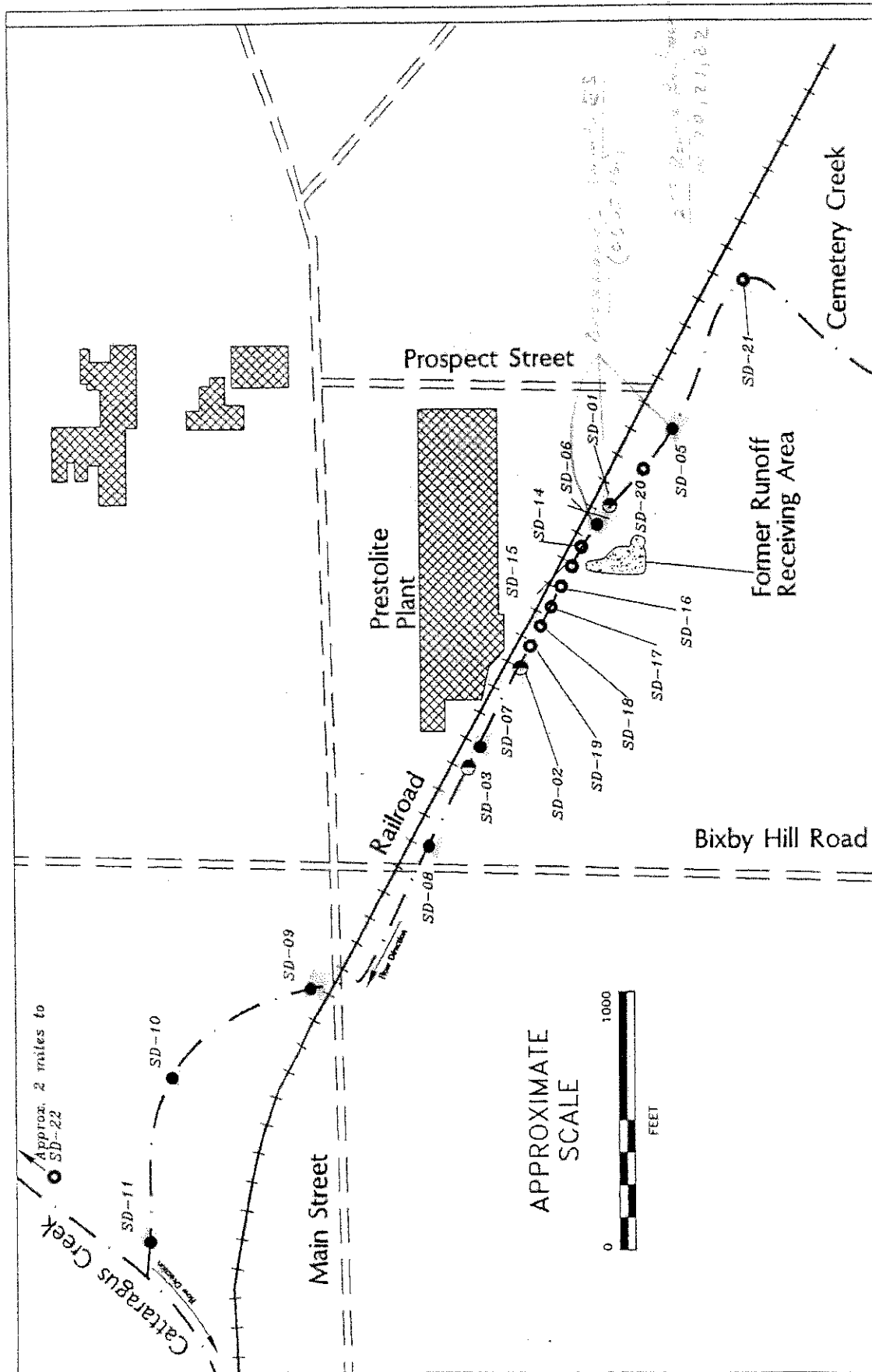
B = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

Col = Collocated sample

Dup = Duplicate sample

U = The analyte was analyzed for but not detected.

SL01 - Weir structure
 SSL01 - " "
 SSL02 - Sump in Bldg.



DATE	DESIGNED	BFS
2/21/22	2/21/22	2/21/22
PRESTOLITE PLANT	CHECKED	ROW
CEMETERY CREEK	APPROVED	FRG
SEDIMENT SAMPLE LOCATIONS	DRAWN	TBL
	PROJECT: 218	
	FIGURE	1



Hydro-Search, Inc.
A. J. K. Inc. is a subsidiary of Hydro-Search, Inc.

TABLE 3

**SUMMARY OF CEMETERY CREEK BACKGROUND SEDIMENT INORGANIC ANALYSES
PRESTOLITE PLANT**

Concentrations in mg/kg

Analyte	<i>Back round</i> SD-01	<i>Back round</i> SD-05		<i>Back round</i> SD-06	
	Surface Sample	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet
Cadmium	U	14.4N	14.8N	13.4N	11.0N
Chromium	9.1	20.4	20.3	15.9	10.3
Copper	15.3	127N	33.7	20.4	22.1
Nickel	23.7	33.7	37.1	23.9	14.0

Analyte	<i>Back round</i> SD-14		<i>Back.</i> SD-20		<i>Back.</i> SD-21	
	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet
Cadmium	2.3	2.6	2.3	3.3	4.6	2.6
Chromium	14.3	16.2	13.3	20.3	17.7	15.0
Copper	15.7	23.2	18.8	20.0	69.2N	42.5
Nickel	28.7	26.4	27.7	33.4	29.8	22.9

Analyte	<i>Back.</i> SD-22 (Catt. Creek)	
	0 to 1 feet	1 to 2 feet
Cadmium	1.4	U
Chromium	6.6	4.2
Copper	16.8	8.1
Nickel	14.1	13.7

Notes:

- 1) Sample SD-01 was collected during the Prestolite Phase II Site Investigation (HSI, 1991).
- 2) "B" indicates a value greater than or equal to the instrument detection limit, but less than the contract required detection limit.
- 3) "N" indicates spike sample recovery is not within control limits.
- 4) "*" indicates duplicate analysis is not within control limits.
- 5) "U" indicates that the analyte was not detected.

TABLE 4

**SUMMARY OF CEMETERY CREEK SEDIMENT INORGANIC ANALYSES
DOWNSTREAM OF THE PRESTOLITE PLANT**

Concentrations in mg/kg

Analyte	SD-02	SD-03	SD-07	
			0 to 1 feet	1 to 2 feet
Cadmium	71.0	31.8	26.1	30.2
Chromium	19.1	20.2	16.8	16.3
Copper	136	64.4	102*	54.9*
Nickel	31.0	26.7	51.9*	31.0*

Analyte	SD-08		SD-09		SD-10	
	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet
Cadmium	4.9	2.0	3.4	6.2	1.2	4.7
Chromium	4.6	15.7	5.8	8.1	9.9	10.9
Copper	4.9B*	15.7*	16.5*	14.9*	8.5*	10.9*
Nickel	8.7B*	24.4*	12.8*	13.8*	11.6*	20.4*

Analyte	SD-11		SD-15		SD-16	
	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet
Cadmium	25.4	4.3	10.1	6.2	25.5	43.5
Chromium	6.0	12.2	17.9	11.9	17.0	16.8
Copper	9.3*	15.2*	18.4	13.3	24.3	20.6
Nickel	12.6*	21.3*	35.2	19.2	26.5	21.6

Analyte	SD-17		SD-18		SD-19	
	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet
Cadmium	79.3	16.8	47.8	9.0	15.9	9.1
Chromium	20.8	12.9	17.4	18.5	16.5	12.9
Copper	30.1	23.5	197.0	59.4	59.9	89.6
Nickel	25.4	17.8	48.9	38.4	31.8	24.6

Notes:

- 1) Samples SD-01, SD-02 and SD-03 were collected during the Prestolite Phase II Site Investigation (HSI, 1991).
- 2) "B" indicates a value greater than or equal to the instrument detection limit, but less than the contract required detection limit.
- 3) "N" indicates spike sample recovery is not within control limits.
- 4) "*" indicates duplicate analysis is not within control limits.

TABLE 5

**SUMMARY OF CEMETERY CREEK SEDIMENT INORGANIC ANALYSES
FOR FIELD QUALITY CONTROL SAMPLES**

Concentrations in mg/kg

<i>Analyte</i>	<i>SD-12 (Field Blank)</i>		<i>SD-13 (SD-10 Dup)</i>		<i>SD-10</i>	
	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet	0 to 1 feet	1 to 2 feet
Cadmium	3.7N	4.0N	3.6	6.0	1.2	4.7
Chromium	5.1	4.2	12.0	13.2	9.9	10.9
Copper	15.6	15.9	21.4*	13.9*	8.5*	10.9*
Nickel	9.4	8.4	17.3*	17.7*	11.6*	20.4*

Notes:

- 1) "N" indicates spike sample recovery is not within control limits.
- 2) "*" indicates duplicate analysis is not within control limits.
- 3) SD-12 is a field blank prepared with clean silica sand.
- 4) SD-13 is a duplicate of SD-10; SD-10 is an investigative sample.

TABLE 6

Cemetery Creek
Sediment Cleanup LevelsSUMMARY STATISTICS AND 95% UPPER TOLERANCE LIMITS
CEMETERY CREEK SEDIMENTS

Summary Statistic	Cadmium	Chromium	Copper	Nickel
Mean (mg/kg)	5.67	14.12	25.48	25.32
Std. Dev. (mg/kg)	5.54	5.26	16.41	7.7
Maximum (mg/kg)	14.8	20.4	69.2	37.1
Minimum (mg/kg)	0.5	4.2	8.1	13.7
Number of Samples	13	13	12	13
Type of Distribution	Normal	Normal	Log Normal	Normal
K _{99/99}	4.472	4.472	4.829	4.472
K _{95/99}	3.659	3.659	3.747	3.659
K _{95/95}	2.670	2.67	2.815	2.670
BUTL _{95/99} (mg/kg)	25.94	33.37	86.97	53.49

DEC Suggested Sed.
Action Limits

0.6 26 16 16

Soil Cleanup Levels

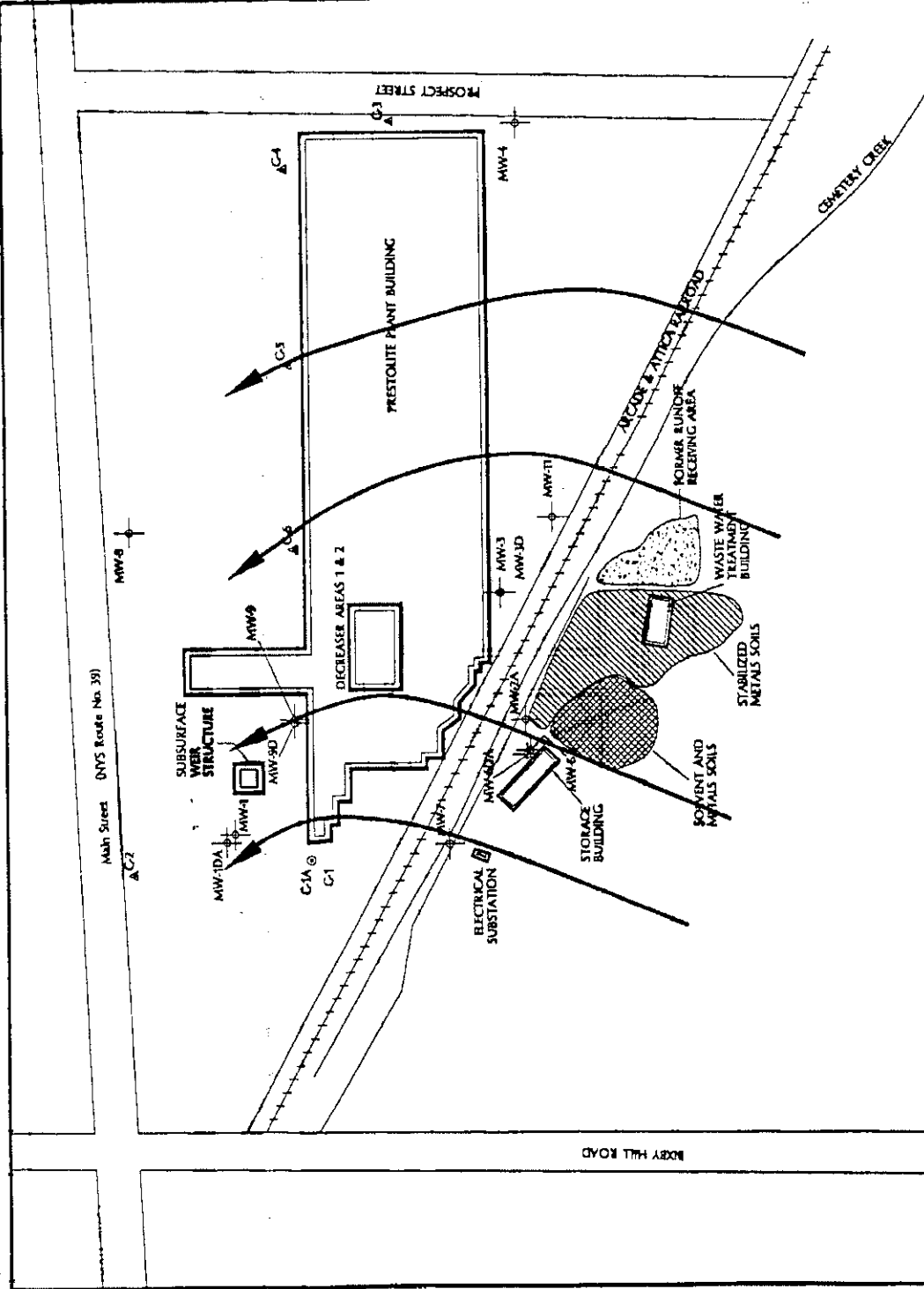
1 nSB 10 nSB 25 nSB 13 nSB

105 nSB

10 SB — —

Final agreed
action levels

5 33 87 53



LEGEND

- CS ▲ GEOPROBE SOIL AND GROUND WATER SAMPLE LOCATION
- C1A ○ GEOPROBE GROUND WATER SAMPLE LOCATION
- C1 □ GEOPROBE SOIL SAMPLE LOCATION
- MW ● MONITORING WELL
- APPROXIMATE DIRECTION OF GROUND WATER FLOW



PRESTOLITE PLANT		DATE: 7/98	JO
GEOPROBE SAMPLING LOCATIONS		DRAWN: BFG	DESIGNED: JO
		APPROVED: HRG	CHECKED: BFG
		PROJECT: 2000	TBL
Hydro-search, Inc. A Tech Tech Company		FIGURE 1	

TABLE 1

SUMMARY OF GEOPROBE SAMPLES
PRESTOLITE PLANT, ARCADE, NEW YORK

Sample #	Boring	Matrix	Sample Interval (feet)	Approximate Depth to Water (feet below surface)	Boring Depth or Well Depth (feet)	PID (ppm)	Comments
GW-1A	G1A	Water	****	11	16	****	
GW-2	G2	Water	****	8	16	****	
GW-3	G3	Water	****	10	14	****	
GW-4	G4	Water	****	12	15	****	
GW-5	G5	Water	****	10	14	****	
GW-6	G6	Water	****	10	14	****	
GW-7	****	Water	****	****	****	****	Field Blank
GW-9	G4	Water	****	****	****	****	GW-4 Duplicate
Trip Blank	****	Water	****	****	****	****	
G1-8-10	G1	Soil	8-10	****	****	0	
G1-Comp	G1	Soil	0-8,10-12	****	****	0	
G2-6-8	G2	Soil	6-8	****	****	0	
G2-Comp	G2	Soil	0-6,8-10	****	****	0	
G3-8-10	G3	Soil	8-10	****	****	0	
G3-Comp	G3	Soil	0-8,10-12	****	****	0	
G4-10-12	G4	Soil	10-12	****	****	0	
G4-Comp	G4	Soil	0-10,12-14	****	****	0	
G5-8-10	G5	Soil	8-10	****	****	0	
G5-Comp	G5	Soil	0-8,10-12	****	****	0	
G6-8-10	G6	Soil	8-10	****	****	0	
G6-Comp	G6	Soil	0-8,10-12	****	****	0	
G7-6-8	****	Soil	****	****	****	****	Field Blank
G7-Comp	****	Soil	****	****	****	****	Field Blank
G8-8-10	G6	Soil	****	****	****	****	G6-8-10 Duplicate
G-8-Comp	G6	Soil	****	****	****	****	G6-Comp Duplicate

TABLE 2

**SUMMARY OF ORGANIC DETECTIONS IN GEOPROBE SOIL SAMPLES (ug/kg)
PRESTOLITE PLANT, ARCADE, NEW YORK**

Compound	G1	G2	G3	G4	G5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	1J	ND

Compound	G6	G6 Duplicate	Field Blank
1,1,1-Trichloroethane	4J	6J	ND
Trichloroethene	5J	9J	ND
Toluene	ND	ND	ND

Notes:

J = Mass spectral data indicates the presence of a compound but the result is less than the specified detection limit.

ND = The analyte was analyzed for but not detected.

TABLE 3

SUMMARY OF INORGANIC CONCENTRATIONS (mg/kg)
GEOPROBE SOIL SAMPLES
PRESTOLITE PLANT, ARCADE, NEW YORK

Compound	G1	G2	G3	G4	G5	G6	Duplicate	Field Blank	SB-01
Aluminum	11,000	10,800	9,770	7,510	6,830	12,600	8,570	238	12,800
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	12.6	10.4	8.8	5.9	7.2	19.0	10.4	ND	12.9
Barium	28.8B	66.6	56.6	93.4	39.2B	67.2	50.1	ND	70.9
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	0.68B
Cadmium	ND	ND	1.1	1.1	ND	ND	ND	ND	ND
Calcium	3,930	28,500	17,000	54,100	25,600	16,100	24,000	2,810	24,000
Chromium	11.6	11.9	11.6	9.3	10.1	14.2	9.8	2.4	16.0
Cobalt	9.4B	ND	8.3B	ND	ND	13.8	6.9B	ND	13.0
Copper	17.9	22.3	26.0	19.7	15.0	24.3	19.6	ND	26.2
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	20,900	20,600	20,000	16,800	13,900	27,300	21,200	974	28,300
Lead	14.4	24.3	23	14.0	11.7	20.1	16.7	ND	16.2
Magnesium	3,070	4,830	5,480	11,000	7,610	7,240	8,350	82.7B	9,000
Manganese	507.0	634.0	575	893.0	373.0	883.0	479.0	2.8B	408
Mercury	0.1	0.1	0.1	ND	ND	ND	ND	ND	ND
Nickel	17.5	27.2	18.3	17.1	15.9	24.1	16.2	ND	26.3
Potassium	845B	975.0	932B	750B	1,090B	1,480	947B	ND	2,130
Selenium	ND	1.1	ND	ND	ND	5.1	ND	ND	ND
Silver	ND	2.3	ND	ND	ND	ND	ND	ND	0.71B
Sodium	ND	512	ND	219B	309B	280B	ND	ND	114B
Thallium	ND	0.9	ND	ND	ND	ND	ND	ND	ND
Vanadium	14.9	15.5	15.3	11.0	11.4	17.9	12.0	ND	17.4
Zinc	97.4	99.5	169.0	94.7	96.4	156.0	86.5	40.9	73.9

Notes:

B = Indicates a value greater than or equal to the instrument detection limit, but less than the contract required detection limit.

ND = The analyte was analyzed for but not detected.

Background subsurface soil sample SB-01 was collected during the Phase II site investigation (HSI, 1991).

TABLE 4

SUMMARY OF ORGANIC DETECTIONS IN GEOPROBE GROUND WATER SAMPLES (ug/l)
PRESTOLITE PLANT, ARCADE, NEW YORK

Compound	GW-1A	GW-2	GW-3	GW-4	GW-4 Duplicate	GW-5	GW-6	Field Blank	Trip Blank
Acetone	ND	ND	ND	ND	ND	7J	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	1J	ND
1,2-Dichloroethene	ND	2J	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	1J	ND	3J	ND
1,1,1-Trichloroethane	3J	8J	ND	ND	ND	1J	4J	ND	ND
Trichloroethene	28	64	ND	ND	ND	ND	3J	ND	ND
Xylenes	ND	ND	ND	ND	ND	ND	ND	2J	ND

Notes:

J = Mass spectral data indicates the presence of a compound but the result is less than the specified detection limit.

ND = The analyte was analyzed for but not detected.

TABLE 5

SUMMARY OF INORGANIC CONCENTRATIONS (ug/l)
 GEOPROBE GROUND WATER SAMPLES
 PRESTOLITE PLANT, ARCADE, NEW YORK

Compound	GW-1A		GW-2		GW-3		GW-4		GW-4 Duplicate		GW-5		GW-8		Field Blank		MW-5	
	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	NA	NA	78,700	825	44,400	1,540	18,000	ND	8,190	ND	26,500	ND	17,200	ND	ND	ND	178,000	46.28
Antimony	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	NA	NA	6.08	ND	7.08	ND	12.0	ND	8.08	ND	6.08	ND	5.08	ND	ND	ND	21.7	ND
Barium	NA	NA	2,130	63.08	1,590	87.08	1,770	1898	604	204	1,020	1518	216	36.08	ND	ND	1,420	1098
Beryllium	NA	NA	3.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9	ND
Cadmium	NA	NA	35.0	ND	17.0	ND	7.0	ND	ND	ND	6.0	ND	11	ND	ND	ND	ND	ND
Calcium	NA	NA	144,000	144,000	745,000	122,000	201,000	78,400	86,400	78,100	731,000	87,900	159,000	53,100	1,5903	ND	435,000	58,800
Chromium	NA	NA	130.0	11.0	72.0	16.0	34.0	ND	13.0	ND	41.0	ND	32.0	ND	ND	ND	287	ND
Cobalt	NA	NA	109.0	ND	44.08	ND	ND	ND	ND	ND	31.08	ND	ND	ND	ND	ND	184	ND
Copper	NA	NA	657.0	86.0	290.0	155.0	193.0	ND	54.0	ND	169.0	ND	102.0	ND	ND	ND	491	ND
Cyanide	NA	NA	15.6	NR	ND	NR	ND	NR	ND	NR	ND	NR	ND	NR	ND	NR	ND	NA
Iron	NA	NA	220,000	1,810	103,000	3,250	32,400	ND	15,000	ND	59,400	ND	40,700	ND	65.08	ND	447,000	13.88
Lead	NA	NA	200.0	ND	110.0	ND	97.0	ND	17.0	ND	60.0	ND	40.0	ND	ND	ND	163	ND
Magnesium	NA	NA	145,000	40,300	86,400	20,800	58,700	14,400	22,200	14,300	114,000	15,500	43,200	8,770	ND	ND	140,000	14,200
Manganese	NA	NA	24,500	91	11,800	265	7,820	10.08	2,820	8.08	6,050	90	3,630	16	5.08	ND	8,480	109
Mercury	NA	NA	ND	ND	0.3	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND
Nickel	NA	NA	1,640	23.08	1,490	70	218	24.08	90	ND	435	21.08	80	ND	ND	ND	412	ND
Potassium	NA	NA	3,2508	3,1508	9,510	4,5908	6,290	2,1908	4,2008	2,1108	8,220	2,2908	4,7308	1,6208	ND	ND	33,800	16,000
Selenium	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.18
Silver	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.25	ND
Sodium	NA	NA	64,500	56,900	40,500	37,700	24,300	23,400	23,300	23,300	25,300	24,100	18,200	17,000	1,7608	ND	19,000	17,500
Thallium	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NA	NA	155	ND	80	13.08	54	ND	27.08	26.08	63	23.08	51	ND	ND	ND	232	ND
Zinc	NA	NA	1,930	472	904	722	378	ND	134	18.08	548	25	371	ND	ND	ND	1,210	2.58

Notes:

B = Indicates a value greater than or equal to the instrument detection limit, but less than the contract required detection limit.

ND = The analyte was analyzed for but not detected.

NA = Not analyzed due to insufficient sample volume.

NR = Not run.

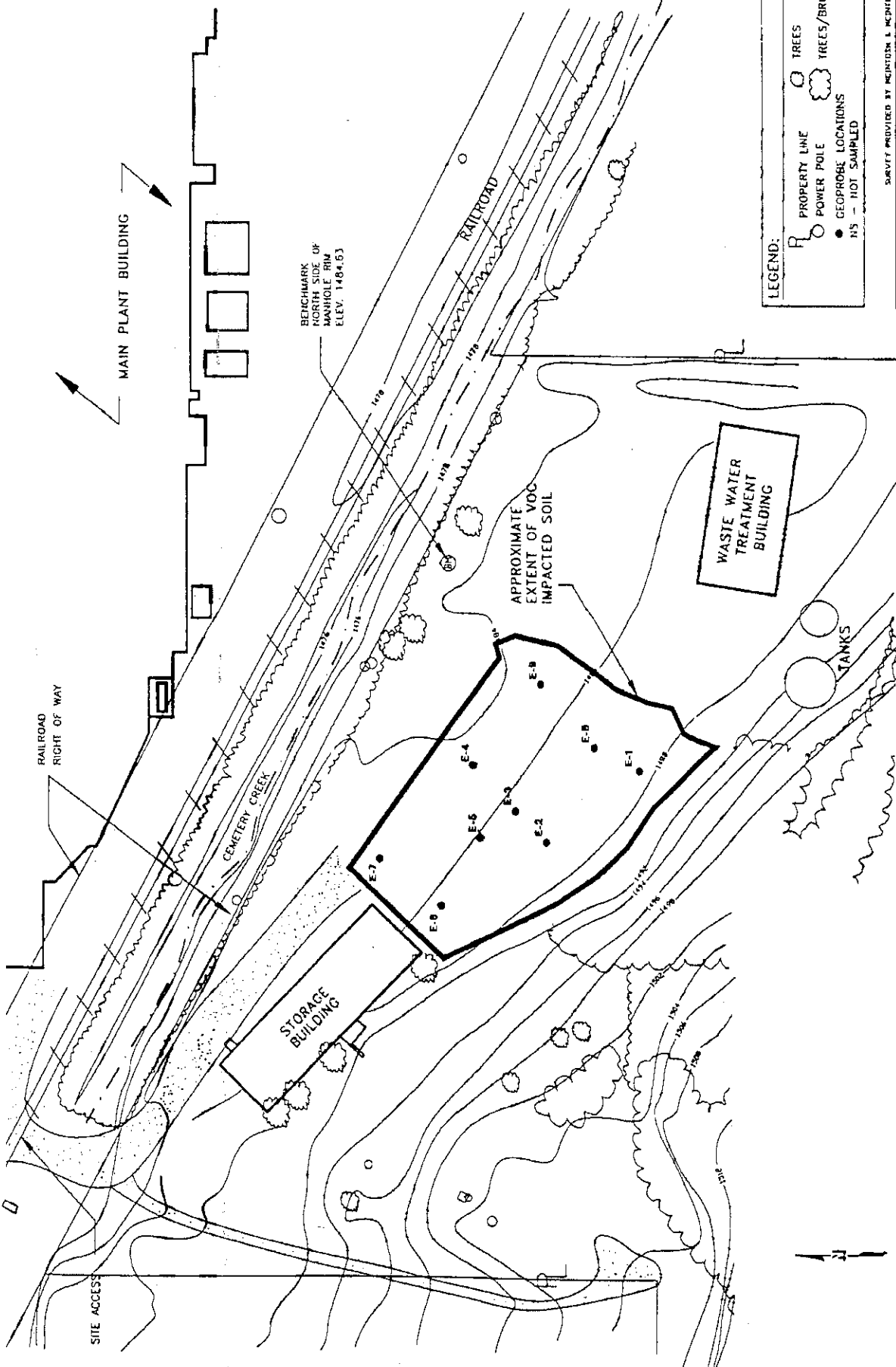


TABLE 1
SUMMARY OF DETECTED VOLATILES DATA IN SOILS
PRIESTOUTE SITE, VOC IMPACTED AREA
ARCADE, NEW YORK
(ug/kg)

Boring Number	Sample Interval (feet/bbl)	Acetone	Propanes	2-Butanone	1,1-Dichloroethane	1,2-Dichloroethane (Total)	Ethylbenzene	Toluene	Trichloroethene	Vinyl Chloride	Total Hydrocarbons	Residual Hydrocarbons
EB-01	4-8	69	<5	<10	29	5	130	220	8	<10	870	25
EB-01	8-12	<10	<5	<10	7	<5	<5	<5	<5	<10	<5	<11
EB-02	4-8	<670	<81	<270	<110	<110	7,300	1,700	<87	<110	44,000	440
EB-02	8-12	<10	<5	<10	<5	15	3 J	5	48	<10	14	23
EB-03	0-4	660	<5	<33	<5	<5	610	210	20	<10	13,000	130
EB-03	4-8	<7,800	<340	<3,100	<1,200	<1,200	42,000	9,600	<780	<1,200	320,000	450
EB-03	8-12	<16,000	<2,000	<6,600	<2,600	<2,600	180,000	65,000	27,000	<2,600	990,000	12,000
EB-04	0-4	380	<5	52	<5	<5	19	7	4 J	<10	180	360
EB-04	4-8	33	3 J	<10	<5	6	240	5	8	<10	740	<10
EB-04	8-10	<720	<86	<250	<120	<120	4,500	<120	<72	<120	16,000	90
EB-05	5-8	<14,000	<1,700	<5,800	<2,300	<2,300	130,000	25,000	<1,400	<2,300	680,000	1,600
EB-05	8-10	<24	<5	<24	<5	48	24	<5	1,700	<10	29	<10
EB-06	4-8	<10	<5	<10	<5	18	6	6	25	<10	27	<11
EB-06	8-12	<26	<5	<26	<5	12	<5	4 J	880	<10	10	<12
EB-07	0-4	36	<5	>10	<5	5	2 J	6	5	<10	12	<11
EB-07	4-8	<10	<5	<10	<5	4 J	7	6	<5	<50	31	<11
EB-07	7-8	<2,200	<260	<880	<350	<350	13,000	<350	<230	<350	91,000	290
EB-08	6-10	<9,100	<1,100	<3,800	<1,400	<1,400	74,000	<1,400	<910	<1,400	470,000	1,300
EB-09	4-6	140	<5	<27	<5	350	490	10	200	<10	1,500	120
EB-09	8-12	380	<5	<41	<7	68	11,000	19	88	<10	69,000	260

NOTE: J = Indicates an estimate value. Compound is present at a concentration less than the sample quantitation limit but greater than zero.

TABLE 2
SUMMARY OF TOTAL METALS DATA IN SOILS
PRESTOLITE SITE, VOC IMPACTED AREA
ARCADE, NEW YORK
(mg/kg)

Boring Number	Sample Interval (feet bgs)	Cadmium	Chromium	Lead	Nickel
EB-01	4-8	9,210	101	796	26.4
EB-01	8-12	5.3	10.7	11.4	20.5
EB-02	4-8	45.6	14.0	25.9	20.1
EB-02	8-12	1.5	11.0	22.1	20.0
EB-03	0-4	40.8	37.5	28.4	19.8
EB-03	4-8	2.1	17.8	14.3	17.1
EB-03	8-12	2.1	18.0	15.4	36.8
EB-04	0-4	70.8	16.4	13.5	14.0
EB-04	4-8	2.6	12.4	27.0	28.6
EB-04	8-10	6.0	16.5	28.8	59.6
EB-05	5-8	3.4	10.9	19.1	23.2
EB-05	8-10	1.4	16.5	1.4	29.6
EB-06	4-8	2.9	13.2	11.4	19.2
EB-06	8-12	1.5	16.5	16.4	37.3
EB-07	0-4	1.6	13.1	19.4	20.7
EB-07	4-8	1.1	14.9	12.6	13.3
EB-08	7-8	26.6	20.6	49.6	20.2
EB-08	8-10	1.8	19.3	16.1	28.5
EB-09	4-6	55.9	18.6	217	21.0
EB-09	8-12	1.9	22.9	25.1	32.6

28-Jun-96

(2144)metals)

TABLE 3

SUMMARY OF TCLP METALS DATA FROM VOC IMPACTED AREA
PRESTOLITE PLANT SITE
(mg/l)

Boring No.	Sample Interval (feet bgs)	Cadmium	Chromium	Nickel	Lead
EB-01	4-8	87.8	ND	0.10	0.58
EB-04	0-4	0.65	0.0051	0.022	0.036
EB-08	7-8	0.66	0.0048	0.016	0.024
EB-09	4-6	0.73	0.0094	0.047	0.58

ND = Not Detected

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled	2/92	--	--	--	--	120	17	--	--	--	--	--
MW-01 (Relocated 12/99)	10/92	--	--	--	--	--	130	19	--	--	--	--	--
	6/93	--	--	--	--	--	100	12	--	--	--	--	--
	11/93	(0.9) BJ	--	--	--	--	110 B	12	--	--	--	--	--
	5/94	--	--	--	--	--	98	9	--	--	--	--	--
	1/95	--	--	--	--	--	76	7 J	--	--	--	--	--
	6/95	--	--	--	--	--	90	7 J	--	--	--	--	--
	9/95	--	--	--	--	--	110	8J	--	--	--	--	--
	11/95	--	--	--	--	--	140	9J	--	--	--	--	--
	3/96	--	--	--	--	--	96	5J	--	--	--	--	--
	6/96	--	--	--	--	--	100	6J	--	--	--	--	--
	9/96	--	--	--	--	--	98	7J	--	--	--	--	--
	12/96	--	--	--	--	--	91	7J	--	--	--	--	--
	2/97	--	--	--	--	--	79	5J	--	--	--	--	--
	4/97	--	--	--	--	--	70	4J	--	--	--	--	--
	7/97	--	--	--	--	--	88	6J	--	--	--	--	--
	10/97	--	--	--	--	--	90	6J	--	--	--	--	--
	1/98	--	--	--	--	--	78	4J	--	--	--	--	--
	8/98	--	--	--	--	--	84	5J	--	--	--	--	--
	1/99	--	--	--	--	--	54	4J	--	--	--	--	--
	7/99	--	--	--	--	--	55	4J	--	--	--	--	--
	12/99	--	--	--	--	--	67	4.6	.49J	--	--	--	--
	1/00	--	--	--	--	23	35	2J	--	--	--	--	--
	8/00	--	--	--	--	3J	38	2J	--	--	--	--	--
	1/01	--	--	--	--	--	40	3 J	--	--	--	--	--
	8/01	2BJ	--	--	--	--	40	3 J	--	--	--	--	--
	1/02	--	--	--	--	--	37	2J	--	--	--	--	--
	8/02	1BJ	--	--	3BJ	2BJ	37	2J	--	--	--	--	--
	1/03	--	--	--	--	--	25	2J	--	--	--	--	--
	7/03	--	--	--	--	--	34	2J	--	--	--	--	--
	1/04	--	--	--	--	--	21	--	--	--	--	--	--
	8/04	--	--	--	--	--	35	2J	--	--	--	--	--
	1/05	--	--	--	--	--	21	--	--	--	--	--	--
	7/05	--	--	--	--	--	27	2J	--	--	--	2BJ	9BJ
	1/06	--	--	--	--	--	24	2J	--	--	--	--	--
	8/06	--	--	--	--	1J	27	2J	--	--	--	--	--
	1/07	--	--	--	--	--	22	1J	--	--	--	--	--
	7/07	--	--	--	--	--	23	1J	--	--	--	--	--
	1/08	--	--	--	--	--	20	1J	--	--	--	--	--
	7/08	--	--	--	--	--	24	1J	--	--	--	--	--
	1/09	--	--	--	--	--	19	--	--	--	--	--	--
	7/09	--	--	--	--	--	23	1J	--	--	--	--	--
	2/10	--	--	--	--	--	17	0.84J	--	--	--	--	--
	8/10	--	--	--	--	--	21	--	--	--	--	--	--
	1/11	--	--	--	--	--	16	--	--	--	--	--	--
	8/11	--	--	--	--	--	23	--	--	--	--	--	--
	1/12	--	--	--	--	--	15	--	--	--	--	--	--
	8/12	--	--	--	--	--	20	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
MW-01D (Abandoned)	2/92	--	--	5 B	--	--	--	--	--	--	--	--	--
	10/92	--	--	--	--	--	--	--	--	--	--	--	--
	11/93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-01DA	1/95	--	--	--	110	--	--	--	--	--	--	--	--
	6/95	--	--	--	120	--	--	--	--	--	--	--	--
	9/95	--	--	--	--	--	--	--	--	--	--	--	--
	11/95	--	--	--	--	--	--	--	--	--	--	--	--
	3/96	--	--	--	76	--	--	--	--	--	--	--	--
	6/96	--	--	--	8J	--	--	--	--	--	--	--	--
	9/96	--	--	--	--	--	--	--	--	--	--	--	--
	12/96	--	--	--	--	--	--	--	--	--	--	--	--
	2/97	--	--	--	--	--	--	--	--	--	--	--	--
	4/97	--	--	--	--	--	--	--	--	--	--	--	--
	7/97	--	--	--	--	--	--	--	--	--	--	--	--
	10/97	--	--	--	--	--	--	--	--	--	--	--	--
	1/98	--	--	--	--	--	--	--	--	--	--	--	--
	8/98	--	--	--	--	--	--	--	--	--	--	--	--
	1/99	--	--	--	--	--	--	--	--	--	--	--	--
	7/99	--	--	--	--	--	--	--	--	--	--	--	--
	12/99	--	--	--	--	--	--	--	--	--	--	--	--
	1/00	--	--	--	4J	--	--	--	--	--	--	--	--
	8/00	--	--	--	--	--	--	--	--	--	--	--	--
	1/01	--	--	--	--	--	--	--	--	--	--	--	--
	8/01	--	--	--	--	--	--	--	--	--	--	--	--
	1/02	--	--	--	--	--	--	--	--	--	--	--	--
	8/02	--	--	4BJ	3BJ	--	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	--	--	--	--	--	--	--
	7/03	--	--	--	--	--	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	--	--	--	--	--	--	--	--
	1/05	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	--	--	--	--	--	--	--	--	--	--	6BJ	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	--	--	--	--	--	--	--
	1/09	--	--	--	--	--	--	--	--	--	--	--	--
	2/10	--	--	--	--	--	--	--	--	--	--	--	--
	8/10	--	--	--	--	--	--	--	--	--	--	--	--
	1/11	--	--	--	--	--	--	--	--	--	--	--	--
	8/11	--	--	--	--	--	--	--	--	--	--	--	--
	1/12	--	--	--	--	--	--	--	--	--	--	--	--
	8/12	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled												
MW-02 (Abandoned)	2/92	--	--	4 J	--	17	--	--	--	--	--	--	--
	10/92	--	--	--	--	29	7 J	12	--	--	--	--	--
	6/93	100	3 J	--	--	2 J	2 J	59	5	110	380	1400	--
	11/93	(0.7) BJ	--	--	--	32 B	5	--	--	3 J	--	--	--
	5/94	12	--	--	--	22	3 J	83	--	27	28	150	--
MW-02A	1/95	7 J	--	--	16	17	2 J	24	--	10	41	93	--
	6/95	180 D	2 J	--	66	14	--	62	1 J	67	160	850	--
	9/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/95	--	--	--	--	3 J	--	--	--	--	--	--	--
	3/96	--	--	--	--	--	--	--	--	--	--	--	--
	6/96	22	--	--	4J	--	--	28	--	4J	36	220	--
	9/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/96	--	--	--	--	--	--	--	--	--	--	--	--
	2/97	--	--	--	--	--	--	6J	--	1J	--	1J	--
	4/97	3J	--	--	--	--	--	10	--	5J	4J	51	--
	7/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/97	8J	NS	NS	7J	NS	NS	20	NS	6J	12	95	NS
	1/98	--	--	--	--	--	--	--	--	--	--	--	--
	8/98	20B	--	--	30	3J	--	16	--	2J	51	320	--
	1/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/00	18	NS	NS	110	2J	NS	17	NS	5J	24	180	NS
	1/01	1J	--	--	--	--	--	2J	--	--	--	8J	--
	1/02	3J	--	--	13	1J	--	7J	--	1J	--	33	2J
	1/03	6J	--	--	--	2J	--	6J	--	--	15	84	--
	7/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/05	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	2J	--	--	--	--	--	--	--
	1/07	3J	--	--	2J	2J	--	4J	--	1J	6J	41	--
	7/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	--	2J	--	--	1J	--	--
	1/09	--	--	--	--	--	1.3J	--	--	--	--	--	--
	7/09	--	--	--	1.9J	1.5J	--	1.8J	--	--	0.99J	14	--
	2/10	--	--	--	--	--	2.3J	--	--	--	--	--	--
	8/10	--	--	--	2.8J	--	--	2.2J	--	--	20	100	--
	1/11	--	--	--	--	--	2.4J	--	--	--	--	--	--
	8/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/12	--	--	--	--	--	--	--	--	--	--	--	--
	8/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled	2/92	--	--	--	--	22	6	--	--	--	--	--
MW-03	10/92	--	--	--	--	--	25	7 J	5 J	--	--	--	--
	6/93	--	--	--	--	--	19	4 J	2 J	--	--	--	--
	11/93	(0.6) BJ	--	--	--	--	13 B	2 J	--	--	--	--	--
	5/94	--	--	--	--	--	27	7	1 J	--	--	--	--
	1/95	--	--	--	--	--	20	--	1 J	--	--	--	--
	6/95	--	--	--	--	--	12	2 J	7 J	--	--	--	--
	9/95	--	--	--	--	--	4 J	--	1 J	--	--	--	--
	11/95	--	--	--	--	--	6 J	--	3 J	--	--	--	--
	3/96	--	--	--	--	--	10	--	--	--	--	--	--
	6/96	--	--	--	--	--	29	5J	2J	--	--	--	--
	9/96	--	--	--	--	--	3J	--	1J	--	--	--	--
	12/96	--	--	--	--	--	6J	--	7J	--	--	--	--
	2/97	--	--	--	--	--	7J	--	7J	--	--	--	--
	4/97	--	--	--	--	--	--	--	3J	--	--	--	--
	7/97	--	--	--	--	--	3J	--	2J	--	--	--	--
	10/97	--	--	--	--	--	5J	--	3J	--	--	--	--
	1/98	--	--	--	--	--	9J	1J	--	--	--	--	--
	8/98	--	--	--	--	--	6J	--	--	--	--	1J	--
	1/99	--	--	--	--	--	6J	--	--	--	--	--	--
	7/99	--	--	--	--	--	--	--	--	--	--	--	--
	1/00	--	4J	--	--	--	2J	--	2J	--	1J	--	--
	8/00	--	2J	--	--	--	--	--	2J	--	--	--	--
	1/01	--	1J	--	--	--	--	--	1J	1J	--	--	--
	8/01	--	2BJ	--	--	--	--	--	1J	--	--	--	--
	1/02	--	--	--	--	--	--	--	--	--	--	--	--
	8/02	2BJ	--	4BJ	3BJ	2J	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	2J	--	--	--	--	--	--
	7/03	--	--	--	--	--	2J	--	--	--	--	--	--
	1/04	--	--	--	--	--	2J	--	--	--	--	--	--
	8/04	--	--	--	--	--	3J	--	--	--	--	--	--
	1/05	--	--	--	--	--	2J	--	--	--	--	--	--
	7/05	--	--	--	--	--	2J	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	1J	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	1J	--	2J	--	1J	--	--
	1/09	--	--	--	--	--	--	--	1.8J	--	--	--	--
	7/09	--	--	--	--	--	0.77J	--	1.6J	--	1J	--	--
	2/10	--	--	--	--	--	--	--	1.5J	--	1.0J	--	--
	8/10	--	--	--	--	--	--	--	3.8J	--	--	--	--
	1/11	--	--	--	--	--	--	--	--	--	--	--	--
	8/11	--	--	--	--	--	--	--	2.9J	--	--	--	--
	1/12	--	--	--	--	--	--	--	--	--	--	--	--
	8/12	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
MW-03D	2/92	--	--	--	--	--	--	--	--	--	--	--	--
	10/92	--	--	--	--	--	--	--	--	--	--	--	--
	6/93	--	--	--	--	--	--	--	--	--	1 J	8	--
	11/93	--	--	--	--	0.7 BJ	--	--	--	--	0.9 J	--	--
	5/94	--	--	--	--	--	--	--	--	--	0.6 J	1 J	--
	1/95	--	--	--	--	--	--	--	--	--	--	--	--
	6/95	--	--	--	--	--	--	--	--	--	--	--	--
	9/95	--	--	--	--	--	--	--	--	--	--	--	--
	11/95	--	--	--	--	--	--	--	--	--	--	--	--
	3/96-8/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-04	2/92	--	--	--	--	--	--	--	--	--	--	--	--
	10/92	--	--	--	--	--	--	--	--	--	--	--	--
	6/93	--	--	--	--	--	--	--	--	--	--	--	--
	11/93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/94	--	--	--	--	--	--	--	--	--	--	--	--
	1/95	--	--	--	--	--	--	--	--	--	--	--	--
	6/95	--	--	--	--	--	--	--	--	--	--	--	--
	9/95	--	--	--	--	--	--	--	--	--	--	--	--
	11/95	--	--	--	--	--	--	--	--	--	--	--	--
	3/96-8/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
MW-05	2/92	--	--	--	10	--	--	--	--	--	--	--	--
	10/92	--	--	--	(12)	--	--	--	--	--	--	--	--
	6/93	--	--	--	--	--	--	--	--	--	--	--	--
	11/93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/94	--	--	--	--	--	--	--	--	--	--	--	--
	1/95	--	--	--	--	--	--	--	--	--	--	--	--
	6/95	--	--	--	--	--	--	--	--	--	--	--	--
	9/95	--	--	--	--	--	--	--	--	--	--	--	--
	11/95	--	--	--	--	--	--	--	--	--	--	--	--
	3/96	--	--	--	--	--	--	--	--	--	--	--	--
	6/96	--	--	--	--	--	--	--	--	--	--	--	--
	9/96	--	--	--	--	--	--	--	--	--	--	--	--
	12/96	--	--	--	--	--	--	--	--	--	--	--	--
	2/97	--	--	--	--	--	--	--	--	--	--	--	--
	4/97	--	--	--	--	--	--	--	--	--	--	--	--
	7/97	--	--	--	--	--	--	--	--	--	--	--	--
	10/97	--	--	--	4J	--	--	--	--	--	--	--	--
	1/98	--	--	--	--	--	--	--	--	--	--	--	--
	8/98	--	--	--	--	--	--	--	--	--	--	--	--
	1/99	--	--	--	--	--	--	--	--	--	--	--	--
	7/99	--	--	--	--	--	--	--	--	--	--	--	--
	1/00	--	--	--	--	--	--	--	--	--	--	--	--
	8/00	--	--	--	--	--	--	--	--	--	--	--	--
	1/01	--	--	--	--	--	--	--	--	--	--	--	--
	8/01	1BJ	--	--	--	--	--	--	--	--	--	--	--
	1/02	--	--	--	--	--	--	--	--	--	--	--	--
	8/02	1BJ	--	3BJ	2BJ	--	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	--	--	--	--	--	--	--
	7/03	--	--	--	--	--	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	--	--	--	--	--	--	--	--
	1/05	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	--	--	--	--	--	--	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	1/09	--	--	--	--	--	--	--	--	--	--	--	--
	7/09	--	--	--	--	--	--	--	--	--	--	--	--
	2/10	--	--	--	--	--	--	--	--	--	--	--	--
	8/10	--	--	--	11	--	--	--	--	--	--	--	--
	1/11	--	--	--	--	--	--	--	--	--	--	--	--
	8/11	--	--	--	--	--	--	--	--	--	--	--	--
	1/12	--	--	--	--	--	--	--	--	--	--	--	--
	8/12	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled												
MW-06 (Abandoned)	2/92	--	--	3 J	9 J	--	--	--	--	--	--	--	--
	10/92	--	--	--	--	--	44	--	--	--	--	--	--
	6/93	--	--	--	--	2 J	--	4 J	--	--	--	--	--
	11/93	--	--	--	--	(7) B	--	--	--	1 J	--	--	--
MW-06A	5/94	--	--	--	--	3 J	--	11	--	--	--	--	--
	1/95	--	--	--	170	59	--	2 J	--	--	--	--	--
	6/95	--	--	--	--	54	--	--	--	--	--	--	--
	9/95	--	--	--	--	61	--	1 J	--	--	--	--	--
	11/95	--	--	--	--	43	--	--	--	--	--	--	--
	3/96	--	--	--	--	40	--	--	--	--	--	--	--
	6/96	--	--	--	--	52	--	1 J	--	--	--	--	--
	9/96	--	--	--	--	52	--	--	--	--	--	--	--
	12/96	--	--	--	--	43	--	1J	--	--	--	--	--
	2/97	--	--	2BJ	--	47	--	--	--	--	--	--	--
	4/97	--	--	--	--	29	--	--	--	--	--	--	--
	7/97	--	--	--	--	40	--	1J	--	--	--	--	--
	10/97	--	--	--	--	50	--	1J	--	--	--	--	--
	1/98	--	--	--	--	13	--	--	--	--	--	--	--
	8/98	--	--	--	--	50	--	--	--	--	--	--	--
	1/99	--	--	--	--	51	--	1J	--	--	--	--	--
	7/99	--	--	--	--	42	--	1J	--	--	--	--	--
	1/00	--	4J	--	--	2J	--	2J	--	1J	--	--	--
	8/00	--	--	--	--	38	--	1J	--	--	--	--	--
	1/01	--	--	--	--	40	--	2J	--	--	--	--	--
	8/01	1BJ	--	--	--	40	--	1J	--	--	--	--	--
	1/02	--	--	--	--	43	--	2J	--	--	--	--	--
	8/02	2BJ	--	4BJ	4BJ	13	--	--	--	--	--	--	--
	1/03	--	--	--	--	36	--	--	--	--	--	--	--
	7/03	--	--	--	--	35	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	36	--	--	--	--	--	--	--
	1/05	--	--	--	--	29	--	--	--	--	--	--	--
	7/05	--	--	--	--	30	--	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	27	--	--	--	--	--	--	--
	1/07	--	--	--	--	21	--	--	--	--	--	--	--
	7/07	--	--	--	--	22	--	--	--	--	--	--	--
	1/08	--	--	--	--	15	--	--	--	--	--	--	--
	7/08	--	--	--	--	27	--	1J	--	--	--	--	--
	1/09	--	--	--	--	29	--	--	--	--	--	--	--
	7/09	--	--	--	--	27	--	1J	--	--	--	--	--
	2/10	--	--	--	--	27	--	0.92J	--	--	--	--	--
	8/10	--	--	--	--	25	--	1.4J	--	--	--	--	--
	1/11	--	--	--	--	27	--	--	--	--	--	--	--
	8/11	--	--	--	--	19	--	--	--	--	--	--	--
	1/12	--	--	--	--	11	--	--	--	--	--	--	--
8/12	--	--	--	--	28	--	--	--	--	--	--	--	

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
MW-06D (Abandoned)	2/92	--	--	4 J	--	--	--	--	--	--	--	--	--
	10/92	--	--	--	--	--	--	--	--	--	--	--	--
	6/93	--	--	--	--	--	--	--	--	--	--	--	--
	11/93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-06DA	1/95	--	--	--	440	--	--	--	--	--	--	--	--
	6/95	--	--	--	95	--	--	--	--	--	--	--	--
	9/95	--	--	--	42	--	--	--	--	--	--	--	--
	11/95	--	--	--	15	--	--	--	--	--	--	--	--
	3/96	--	--	--	20	--	--	--	--	--	--	--	--
	6/96	--	--	--	130	--	--	--	--	--	--	--	44
	9/96	--	--	--	71	--	--	--	--	--	--	--	--
	12/96	--	--	--	30	--	--	--	--	--	--	--	8J
	2/97	--	--	2BJ	50	--	--	--	--	--	--	--	8J
	4/97	--	--	--	89	--	--	--	--	--	--	--	--
	7/97	--	--	--	52	--	--	--	--	--	--	--	9J
	10/97	--	--	--	30	--	--	--	--	--	--	--	--
	1/98	--	--	--	--	--	--	--	--	--	--	--	--
	8/98	--	--	--	38	--	--	--	--	--	--	--	--
	1/99	--	--	--	--	--	--	--	--	--	--	--	--
	7/99	--	--	--	26	--	--	--	--	--	--	--	--
	1/00	--	--	--	19	--	--	--	--	--	--	--	--
	8/00	--	--	--	6J	--	--	--	--	--	--	--	--
	1/01	--	--	--	13	--	--	--	--	--	--	--	--
	8/01	1BJ	--	--	6J	--	--	--	--	--	--	--	--
	1/02	--	--	--	4J	--	--	--	--	--	--	--	--
	8/02	1BJ	--	4BJ	4BJ	--	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	--	--	--	--	--	--	--
	7/03	--	--	--	--	--	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	--	--	--	--	--	--	--	--
	1/05	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	--	--	--	--	--	--	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	--	1J	--	--	--	--	--
	1/09	--	--	--	--	--	--	--	--	--	--	--	--
	7/09	--	--	--	--	--	--	--	--	--	--	--	--
	2/10	--	--	--	--	--	--	--	--	--	--	--	--
	8/10	--	--	--	--	--	--	--	--	--	--	--	--
	1/11	--	--	--	--	--	--	--	--	--	--	--	--
	8/11	--	--	--	--	--	--	--	--	--	--	--	--
	1/12	--	--	--	--	--	--	--	--	--	--	--	--
	8/12	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
MW-07	2/92	--	--	3 BJ	--	--	--	--	--	--	--	--	--
	10/92	--	--	--	--	--	--	--	--	--	--	--	--
	6/93	--	--	--	--	--	--	--	--	--	--	--	--
	11/93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/94	--	--	--	--	2 J	--	--	--	--	--	--	--
	1/95	--	--	--	--	--	--	--	--	--	--	--	--
	6/95	--	--	--	--	--	--	--	--	--	--	--	--
	9/95	--	--	--	--	--	--	--	--	--	--	--	--
	11/95	--	--	--	--	--	--	--	--	--	--	--	--
	3/96	--	--	--	--	--	--	--	--	--	--	--	--
	6/96	--	--	--	--	--	--	--	--	--	--	--	--
	9/96	--	--	--	--	--	--	--	--	--	--	--	--
	12/96	--	--	--	--	--	--	--	--	--	--	--	--
	2/97	--	--	--	--	--	--	--	--	--	--	--	--
	4/97	--	--	--	--	--	--	--	--	--	--	--	--
	7/97	--	--	--	--	--	--	--	--	--	--	--	--
	10/97	--	--	--	--	--	--	--	--	--	--	--	--
	1/98	--	--	--	--	--	--	--	--	--	--	--	--
	8/98	2BJ	--	--	--	--	--	--	--	--	--	--	--
	1/99	--	--	--	--	--	--	--	--	--	--	--	--
	7/99	--	--	--	--	--	--	--	--	--	--	--	--
	1/00	--	--	--	--	--	--	--	--	--	--	--	--
	8/00	--	--	--	--	--	--	--	--	--	--	--	--
	1/01	--	--	--	--	--	--	--	--	--	--	--	--
	8/01	1BJ	--	--	--	--	--	--	--	--	--	--	--
	1/02	--	--	--	1J	--	--	--	--	--	--	--	--
	8/02	--	--	5BJ	2BJ	--	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	--	--	--	--	--	--	--
	7/03	--	--	--	--	--	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	--	--	--	--	--	--	--	--
	1/05	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	--	--	--	--	--	--	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	--	--	--	--	--	--	--
	1/09	--	--	--	--	--	--	--	--	--	--	--	--
	7/09	--	--	--	--	--	--	--	--	--	--	--	--
	2/10	--	--	--	--	--	--	--	--	--	--	--	--
	8/10	--	--	--	--	--	--	--	--	--	--	--	--
	1/11	--	--	--	--	--	--	--	--	--	--	--	--
	8/11	--	--	--	--	--	--	--	--	--	--	--	--
	1/12	--	--	--	--	--	--	--	--	--	--	--	--
	8/12	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
MW-08	2/92	--	--	--	--	--	5	--	--	--	--	--	--
	10/92	--	--	--	--	5 J	--	--	--	--	--	--	--
	6/93	--	--	--	--	--	4 J	--	--	--	--	--	--
	11/93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/94	--	--	--	--	--	3 J	--	--	--	--	--	--
	1/95	--	--	--	--	--	3 J	--	--	--	--	--	--
	6/95	--	--	--	--	--	3 J	--	--	--	--	--	--
	9/95	--	--	--	--	--	3 J	--	--	--	--	--	--
	11/95	--	--	--	--	--	4 J	--	--	--	--	--	--
	3/96-8/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled	--	--	--	--	89	14	11	--	--	--	--	--
MW-09	2/92	--	--	--	--	89	14	11	--	--	--	--	--
	10/92	--	--	--	--	92	11	3 J	--	--	--	--	--
	6/93	--	--	--	--	78	10	3 J	--	--	--	--	--
	11/93	--	--	--	--	87 B	8	--	--	--	--	--	--
	5/94	--	--	--	--	93	6	8	--	--	--	--	--
	1/95	--	--	--	--	61	4 J	22	--	--	--	--	--
	6/95	--	--	--	--	13,000	5 J	15	--	--	--	--	--
	9/95	--	--	--	--	4,100	--	--	--	--	--	--	--
	11/95	42 J	--	--	--	2,900	--	--	--	--	--	--	--
	3/96	--	--	--	--	550	9 J	29	--	--	--	--	--
	6/96	--	--	--	--	600	4 J	30	--	--	--	--	--
	9/96	--	--	--	--	350	--	9J	--	--	--	--	--
	12/96	--	--	--	--	190D	3J	5J	--	--	--	--	--
	2/97	--	--	--	--	190	2J	5J	--	--	--	--	--
	4/97	--	--	--	--	150	2J	2J	--	--	--	--	--
	7/97	--	--	--	--	370	2J	4J	--	--	--	--	--
	10/97	--	--	--	--	120	3J	4J	2J	3J	--	--	--
	1/98	--	--	--	--	170	--	2J	--	--	--	--	--
	8/98	1BJ	--	--	--	83	2J	4J	--	--	--	--	--
	1/99	--	--	--	--	32	1J	--	5J	6J	--	--	--
	7/99	--	--	--	--	20	--	6J	6J	1J	--	--	--
	1/00	--	--	--	--	34	--	5J	6J	2J	--	--	--
	8/00	--	--	--	--	32	1J	3J	--	--	--	--	--
	1/01	--	--	--	--	33	--	5J	2J	--	--	--	--
	8/01	1BJ	--	--	--	23	1J	5J	5J	2J	--	--	--
	1/02	--	--	--	--	20	--	4J	7J	1J	--	--	--
	8/02	2BJ	--	4BJ	3BJ	18	--	6J	4J	3J	--	--	--
	1/03	--	--	--	--	20	--	--	4J	--	--	--	--
	7/03	--	--	--	--	12	--	5J	4J	3J	--	--	--
	1/04	--	--	--	--	25	--	--	2J	--	--	--	--
	8/04	--	--	--	--	11	--	--	4J	--	--	--	--
	1/05	--	--	--	--	17	--	--	2J	--	--	--	--
	7/05	--	--	--	--	7J	--	--	6J	4J	--	--	--
	1/06	--	--	--	--	18	--	--	3J	--	--	--	--
	8/06	--	--	--	--	14	--	3J	3J	--	--	--	--
	1/07	--	--	--	--	20	--	2J	1J	--	--	--	--
	7/07	--	--	--	--	9J	--	3J	4J	4J	--	--	--
	1/08	--	--	--	--	20	--	2J	--	--	--	--	--
	7/08	--	--	--	--	9J	--	3J	2J	1J	--	--	--
	1/09	--	--	--	--	15	--	2.0J	1.1J	--	--	--	--
	7/09	--	--	--	--	12	--	2.0J	0.87J	--	--	--	--
	2/10	--	--	--	--	12	--	1.4J	1.3J	--	--	--	--
	8/10	--	--	--	--	9.1J	--	2.1J	2.0J	--	--	--	--
	1/11	--	--	--	--	8.4J	--	--	1.7J	--	--	--	--
	8/11	--	--	--	--	9.0J	--	3.2J	2.1J	3.0J	--	--	--
	1/12	--	--	--	--	16	--	--	--	--	--	--	--
	8/12	--	--	--	--	8.3J	--	3.6J	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled	2/92	--	--	--	--	3 J	--	--	--	--	--	--
MW-09D	6/93	--	--	--	--	--	--	--	--	--	--	--	--
	11/93	--	--	--	--	4 BJ	--	--	--	--	--	--	--
	5/94	--	--	--	--	2 J	--	--	--	--	--	--	--
	1/95	--	--	--	--	--	--	--	--	--	--	--	--
	6/95	--	--	--	--	2 BJ	--	--	--	--	--	--	--
	9/95	--	--	--	--	--	--	--	--	--	--	--	--
	11/95	--	--	--	--	--	--	--	--	--	--	--	--
	3/96	--	--	--	--	--	--	--	--	--	--	--	--
	6/96	--	--	--	--	4 J	--	--	--	--	--	--	--
	9/96	--	--	--	--	--	--	--	--	--	--	--	--
	12/96	--	--	--	--	--	--	--	--	--	--	--	--
	2/97	--	--	2BJ	--	--	--	--	--	--	--	--	--
	4/97	--	--	--	--	--	--	--	--	--	--	--	--
	7/97	--	--	--	--	--	--	--	--	--	--	--	--
	10/97	--	--	--	--	--	--	--	--	--	--	--	--
	1/98	--	--	--	--	--	--	--	--	--	--	--	--
	8/98	--	--	--	--	--	--	--	--	--	--	--	--
	1/99	--	--	--	--	--	--	--	--	--	--	--	--
	7/99	--	--	--	--	--	--	--	--	--	--	--	--
	1/00	--	--	--	--	--	--	--	--	--	--	--	--
	8/00	--	--	--	--	--	--	--	--	--	--	--	--
	1/01	--	--	--	2J	--	--	--	--	--	--	--	--
	8/01	1BJ	--	--	2J	--	--	--	--	--	--	--	--
	1/02	--	--	--	--	--	--	--	--	--	--	--	--
	8/02	1BJ	--	3BJ	--	--	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	--	--	--	--	--	--	--
	7/03	--	--	--	--	--	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	--	--	--	--	--	--	--	--
	1/05	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	--	--	--	--	--	--	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	--	--	--	--	--	--	--
	1/09	--	--	--	--	--	--	--	--	--	--	--	--
	7/09	--	--	--	--	--	--	--	--	--	--	--	--
	2/10	--	--	--	--	--	--	--	--	--	--	--	--
8/10	--	--	--	--	--	--	--	--	--	--	--	--	
1/11	--	--	--	--	--	--	--	--	--	--	--	--	
8/11	--	--	--	--	--	--	--	--	--	--	--	--	
1/12	--	--	--	--	--	--	--	--	--	--	--	--	
8/12	--	--	--	--	--	--	--	--	--	--	--	--	

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

			Parameters ug/L											
			Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled													
MW-10 (Abandoned)	11/92		--	--	--	--	18	--	35	7 J	--	--	--	--
	6/93		--	--	--	--	8	--	--	--	--	--	--	--
	11/93		--	--	--	--	11 B	1 J	--	--	--	--	--	--
	5/94		--	--	--	--	8	--	--	2 J	2 J	--	--	--
MW-11	6/93		--	--	--	--	--	--	--	--	--	--	--	--
	11/93		--	--	--	--	--	--	--	--	--	--	--	--
	5/94		--	--	--	--	--	--	--	--	--	--	--	--
	1/95		--	--	--	--	--	--	--	--	--	--	--	--
	6/95		--	--	--	--	--	--	--	--	--	--	--	--
	9/95		--	--	--	--	--	--	--	--	--	--	--	--
	11/95		--	--	--	--	--	--	--	--	--	--	--	--
	3/96		--	--	--	--	--	--	--	--	--	--	--	--
	6/96		--	--	--	--	--	--	--	--	--	--	--	--
	9/96		--	--	--	--	--	--	--	--	--	--	--	--
	12/96		--	--	--	--	--	--	--	--	--	--	--	--
	2/97		--	--	--	--	--	--	--	--	--	--	--	--
	4/97		--	--	--	--	--	--	--	--	--	--	--	--
	7/97		--	--	--	--	--	--	--	--	--	--	--	--
	10/97		--	--	--	--	--	--	--	--	--	--	--	--
	1/98		--	--	--	--	--	--	--	--	--	--	--	--
	8/98		--	--	--	--	--	--	--	--	--	--	--	--
	1/99	--	30	--	--	--	--	--	--	--	--	--	--	--
	7/99	2J	10	--	--	--	--	--	--	--	--	--	--	--
	1/00	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/00	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/01	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/01	1BJ	--	--	--	--	--	--	--	--	--	--	--	--
	1/02	--	--	--	--	--	37	2J	--	--	--	--	--	--
	8/02	2BJ	--	3BJ	2BJ	--	--	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/03	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/05	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/09	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/09	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10	--	--	--	--	--	--	--	--	--	--	--	--	--
8/10	--	--	--	--	--	--	--	--	--	--	--	--	--	
1/11	--	--	--	--	--	--	--	--	--	--	--	--	--	
8/11	--	--	--	--	--	--	--	--	--	--	--	--	--	
1/12	--	--	--	--	--	--	--	--	--	--	--	--	--	
8/12	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
MW-12	9/96	--	--	--	--	300D	10	--	--	--	--	--	--
	12/96	--	--	--	--	300D	11	1J	--	--	--	--	--
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/97	--	--	--	--	180D	6J	--	--	--	--	--	--
	7/97	--	--	--	--	190	7J	--	--	--	--	--	--
	10/97	--	--	--	--	230D	8J	--	--	--	--	--	--
	1/98	--	--	--	--	270	5J	--	--	--	--	--	--
	8/98	--	--	--	--	180	6J	--	--	--	--	--	--
	1/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/99	--	--	--	--	130	5J	--	--	--	--	--	--
	1/00	--	--	--	--	230E	8J	7J	4J	2J	--	--	--
	8/00	--	--	--	--	120	4J	1J	--	--	--	--	--
	8/01	1BJ	--	--	--	78	5J	--	--	--	--	--	--
	1/02	--	--	--	--	55	3J	2J	1J	--	--	--	--
	8/02	--	--	4BJ	--	59	4J	--	--	--	--	--	--
	1/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/03	--	--	--	--	56	3J	--	--	--	--	--	--
	1/04	--	--	--	--	79	3J	--	2J	--	--	--	--
	8/04	--	--	--	--	14	2J	--	--	--	--	--	--
	1/05	--	--	--	--	48	2J	--	--	--	--	--	--
	7/05	--	--	--	--	42	3J	--	--	--	--	--	--
	1/06	--	--	--	--	50	2J	--	2J	--	--	--	--
	8/06	--	--	--	--	40	3J	--	--	--	--	--	--
	1/07	--	--	--	--	37	2J	2J	1J	--	--	--	--
	7/07	--	--	--	--	31	2J	--	--	--	--	--	--
	1/08	--	--	--	--	37	--	4J	--	--	--	--	--
	7/08	--	--	--	--	31	2J	--	--	--	--	--	--
	1/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/09	--	--	--	--	26	1.5 J	1.1 J	0.54 J	--	--	--	--
	7/09	--	--	--	--	29	1.7J	--	--	--	--	--	--
	4/10	--	--	--	--	24	--	1.1J	--	--	--	--	--
	8/10	--	--	--	--	26	--	--	--	--	--	--	--
	1/11	--	--	--	--	24	--	--	--	--	--	--	--
	8/11	--	--	--	--	25	--	--	--	--	--	--	--
	1/12	--	--	--	--	23	--	1.9J	--	--	--	--	--
	8/12	--	--	--	--	26	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled												
MW-13	9/96	--	--	--	--	28	9J	1J	--	--	--	--	--
	12/96	--	--	--	--	15	7J	1J	--	--	--	--	--
	2/97	--	--	--	--	15	5J	--	--	--	--	--	--
	4/97	--	--	--	--	11	4J	--	--	--	--	--	--
	7/97	--	--	--	--	7J	3J	--	--	--	--	--	--
	10/97	--	--	--	--	10	4J	--	--	--	--	--	--
	1/98	--	--	--	--	5J	2J	--	--	--	--	--	--
	8/98	--	--	--	--	3J	3J	--	--	--	--	--	--
	1/99	--	--	--	--	16	4J	--	--	--	--	--	--
	7/99	--	--	--	--	9J	3J	--	--	--	--	--	--
	1/00	--	--	--	--	18	3J	--	--	--	--	--	--
	8/00	--	--	--	--	24	2J	--	--	--	--	--	--
	1/01	--	--	--	--	18	2J	--	--	--	--	--	--
	8/01	1BJ	--	--	--	20	2J	--	--	--	--	--	--
	1/02	--	--	--	--	14	2J	--	1J	--	--	--	--
	8/02	1BJ	--	4BJ	3BJ	19	2J	--	--	--	--	--	--
	1/03	--	--	--	--	12	1J	--	--	--	--	--	--
	7/03	--	--	--	--	15	2J	--	--	--	--	--	--
	1/04	--	--	--	--	11	--	--	--	--	--	--	--
	8/04	--	--	--	--	55	4J	--	--	--	--	--	--
	1/05	--	--	--	--	8J	--	--	--	--	--	--	--
	7/05	--	--	--	--	11	2J	--	--	--	--	--	--
	1/06	--	--	--	--	9J	1J	--	--	--	--	--	--
	8/06	--	--	--	--	10	1J	--	--	--	--	--	--
	1/07	--	--	--	--	6J	--	--	--	--	--	--	--
	7/07	--	--	--	--	7J	1J	--	--	--	--	--	--
	1/08	--	--	--	--	5J	--	--	--	--	--	--	--
	7/08	--	--	--	--	7J	1J	--	--	--	--	--	--
	1/09	--	--	--	--	4.1J	--	--	--	--	--	--	--
	7/09	--	--	--	--	4.9J	0.81J	--	--	--	--	--	--
	2/10	--	--	--	--	2.9J	--	--	--	--	--	--	--
	8/10	--	--	--	--	4.3J	--	--	--	--	--	--	--
	1/11	--	--	--	--	2.8J	--	--	--	--	--	--	--
	8/11	--	--	--	--	4.2J	--	--	--	--	--	--	--
	1/12	--	--	--	--	2.3J	--	--	--	--	--	--	--
	8/12	--	--	--	--	3.2J	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

		Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone
Well Number	Date Sampled												
MW-14	8/00	--	--	--	--	--	--	--	--	--	--	--	--
	1/01	--	--	--	--	--	--	--	--	--	--	--	--
	8/01	1BJ	--	--	--	--	--	--	--	--	--	--	--
	1/02	--	--	--	--	--	--	--	--	--	--	--	--
	8/02	1BJ	--	5BJ	4BJ	--	--	--	--	--	--	--	--
	1/03	--	--	--	--	--	--	--	--	--	--	--	--
	7/03	--	--	--	--	--	--	--	--	--	--	--	--
	1/04	--	--	--	--	--	--	--	--	--	--	--	--
	8/04	--	--	--	--	--	--	--	--	--	--	--	--
	1/05	--	--	--	--	--	--	--	--	--	--	--	--
	7/05	--	--	--	--	--	--	--	--	--	--	--	--
	1/06	--	--	--	--	--	--	--	--	--	--	--	--
	8/06	--	--	--	--	--	--	--	--	--	--	--	--
	1/07	--	--	--	--	--	--	--	--	--	--	--	--
	7/07	--	--	--	--	--	--	--	--	--	--	--	--
	1/08	--	--	--	--	--	--	--	--	--	--	--	--
	7/08	--	--	--	--	--	--	--	--	--	--	--	--
	1/09	--	--	--	--	--	--	--	--	--	--	--	--
	7/09	--	--	--	--	--	--	--	--	--	--	--	--
	2/10	--	--	--	--	--	--	--	--	--	--	--	--
	8/10	--	--	--	--	--	--	--	--	--	--	--	--
	1/11	--	--	--	--	--	--	--	--	--	--	--	--
	8/11	--	--	--	--	--	--	--	--	--	--	--	--
	1/12	--	--	--	--	--	--	--	--	--	--	--	--
	8/12	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Summary of Volatile Organic Compounds
Concentrations in Groundwater
Arcade, New York

Well Number	Date Sampled	Parameters ug/L											
		Toluene	Benzene	Methylene Chloride	Acetone	Trichloroethylene	1,1,1-Trichloroethane	1,2-Dichloroethene	1,1-Dichloroethane	Vinyl Chloride	Ethylbenzene	Total Xylenes	2-Butanone

NOTES:

-- = The analyte was analyzed for but not detected

B = The analyte is found in the lab blank as well as in the sample, indicating potential sample contamination and warning the data user to take appropriate action.

D = Deep well

Dup = Duplicate sample

E = Compound concentration exceeds the calibration range of the GC/MS instrument for that specified analysis

J = Mass spectral data indicates the presence of a compound but the result is less than the specified detection limit, but still greater than 0.

N = Indicates presumptive evidence of a tentatively identified compound (TIC).

NA = The analyte was not analyzed for

NS = Not sampled

Note: Well MW-1D was not sampled in June 1993 as the well was damaged.

(5) = Values in parentheses are less than 10 times that found in the field blank or laboratory method blanks and therefore are not representative of actual site conditions (i.e., attributable to artifacts or laboratory introduced contamination).*

*Ref: U.S. EPA, 1988. Laboratory Data Validation Functional Guidelines for Evaluating Organics Analysis.

** = BROMODICHLOROMETHANE (2 ug/l), CHLOROBENZENE (4 ug/l) and DIBROMOCHLOROMETHANE (0.5 ug/l) were also detected in the field blank but at a concentration less than the specified detection limit. These compounds were not added to the table since they do not reflect actual ground water conditions at the site.

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MW-01 (Relocated 12/99)	10/92	--	0.353	0.442	--	--	--
	6/93	--	0.2	0.25	--	--	--
	11/93	--	NA	NA	--	NA	NA
	5/94	--	0.022	--	--	--	--
	1/95	5*	163	0.205 E	--	--	--
	6/95	0.084	0.161	0.26	--	--	3.0 E
	9/95	--	--	0.0192 SN	--	--	--
	11/95	--	0.0836	0.12	--	--	--
	3/96	--	--	--	0.00065 B	--	--
	6/96	--	--	0.0014 B	--	--	--
	9/96	--	--	0.00098 B	--	--	0.0010 B
	12/96	--	0.041	0.059	--	--	--
	2/97	--	0.0030B	0.0027B	0.00089B	--	--
	4/97	--	--	--	--	--	--
	7/97	--	--	--	--	--	--
	10/97	--	0.0012B	--	--	--	--
	1/98	--	0.0013B	--	0.0028B	--	--
	8/98	0.0132	0.0146	0.0197	--	--	--
	1/99	0.0018	0.0033	0.0026	0.0007	--	--
	7/99	--	--	0.0037	0.001	--	--
	12/99	--	0.032	0.066	--	--	0.013
	1/00	--	0.020	0.0104	--	0.0025	--
	8/00	--	0.0184	0.0116	0.0012B	--	--
	1/01	--	.0524	.0444	--	--	--
	8/01	0.005	0.283	0.276	--	--	--
	1/02	--	0.0607	0.0332	--	--	--
	8/02	--	0.0326	0.0288	--	--	--
	1/03	--	0.0624	0.0561	--	--	--
	7/03	--	0.0787	0.0673	--	--	--
	1/04	--	--	--	--	--	--
	8/04	--	0.0215	0.0158	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	--	0.0344	0.0256	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--
MW-01D (Closed)	10/92	--	0.154	0.115	--	--	--
	11/93	NS	NS	NS	NS	NS	NS
	5/94	Abd.	Abd.	Abd.	Abd.	Abd.	Abd.

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MW-1DA	1/95	0.51	3.09	0.68	--	--	2 BW
	6/95	1.61	1.54	0.29	--	--	--
	9/95	--	0.211	0.141 SN	--	--	--
	11/95	--	0.189	0.0419	--	--	--
	3/96	--	--	--	--	--	--
	6/96	0.0011B	0.0144	0.0063	0.00047 B	--	--
	9/96	0.00023B	0.0119	0.0016B	--	--	0.0016 B
	12/96	--	0.0095B	0.0034	--	--	--
	2/97	--	--	--	0.00069B	--	--
	4/97	--	--	--	--	--	--
	7/97	--	--	--	--	--	--
	10/97	--	--	--	--	--	--
	1/98	--	0.0015B	--	0.0016B	--	--
	8/98	0.0008	0.0014	--	--	--	--
	1/99	--	0.0015	--	--	0.0021	0.003
	7/99	--	--	--	--	--	--
	12/99	--	0.016	0.015	--	0.0021	0.012
	1/00	--	0.0057	0.0030	--	--	--
	8/00	--	0.0429	0.0182	--	--	--
	1/01	--	.0326	.0275	--	--	--
	8/01	--	--	0.0034	--	--	--
	1/02	--	--	--	--	--	--
	8/02	--	--	--	--	--	--
	1/03	--	--	--	--	--	--
	7/03	--	--	--	--	--	--
	1/04	--	--	--	--	--	--
	8/04	--	--	--	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	--	--	0.00365	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--
MW-02 (Closed)	10/92	--	0.17	0.495	--	--	--
	6/93	--	0.3	1.1	--	--	--
	11/93	0.017	NA	NA	--	NA	NA
	5/94	--	0.026	0.22	--	--	--
MW-02A	1/95	7.9 *	191	0.295 E	--	--	--
	6/95	0.045	0.059	0.28	--	--	--
	9/95	NS	NS	NS	NS	NS	NS
	11/95	--	0.0454	0.148	--	--	--
	3/96	0.006	0.0368	0.127	--	--	--
	6/96	--	0.0237	0.0935	--	--	--
	9/96	NS	NS	NS	NS	NS	NS
	12/96	--	0.033	0.151	--	--	--
	2/97	0.0128	0.0201	0.0538	0.00078B	--	--
	4/97	--	--	0.0353	--	--	--
	7/97	NS	NS	NS	NS	NS	NS
	10/97	0.0046B	0.0141	0.0606	--	--	--
	1/98	0.0032B	0.030	0.136	--	--	--
	8/98	0.0357	0.0161	0.0955	--	--	--
	1/99	NS	NS	NS	NS	NS	NS
	7/99	NS	NS	NS	NS	NS	NS
	1/00	--	--	0.0032	--	--	--
	1/01	--	--	0.0044	--	--	--
	1/02	--	0.033	--	--	--	--
	1/03	--	--	0.0042	--	--	--
	1/04	--	--	--	--	--	--
	1/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	0.02460	--	0.01330	--	--	--
	1/09	0.08240	--	0.00481	--	--	--
	7/09	0.60000	0.01590	0.09860	--	--	--
	2/10	0.00550	--	--	--	--	--
	8/10	0.21200	--	0.02940	0.00540	--	0.00300
	1/11	0.14300	--	0.01420	--	--	--
	8/11	NS	NS	NS	NS	NS	NS
	1/12	0.00600	--	--	--	--	--
	8/12	NS	NS	NS	NS	NS	NS

Notes at end of data

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MW-43	10/92	--	0.254	0.307	--	--	--
	6/93	--	0.26	0.36	--	--	--
	11/93	--	NA	NA	--	NA	NA
	5/94	0.052	0.013	--	--	--	--
	1/95	0.151 *	0.168	0.193 E	--	--	2.1 B
	6/95	0.068	0.121	0.16	--	--	--
	9/95	0.0055	--	--	--	--	--
	11/95	--	0.0276	0.0382	--	--	--
	3/96	0.00063 B	--	--	0.00063 B	--	--
	6/96	--	0.0028 B	0.0031	0.0006 B	--	--
	9/96	--	0.0026 B	0.0014 B	--	--	--
	12/96	--	0.042	0.057	--	--	--
	2/97	0.00070B	--	--	--	--	--
	4/97	--	--	--	--	--	--
	7/97	--	--	0.0037	--	--	--
	10/97	--	0.0013B	--	--	--	--
	1/98	--	0.0022B	0.0023B	--	--	--
	8/98	0.0007	--	--	--	--	--
	1/99	0.0031	0.0056	0.0032	--	--	0.0027
	7/99	--	--	--	--	--	--
	1/00	--	0.0047	0.0044	--	--	--
	8/00	--	0.004B	0.0025B	--	--	--
	1/01	--	--	.0041	--	--	.0033
	8/01	--	--	--	--	--	--
	1/02	--	--	--	--	--	--
	8/02	--	--	--	--	--	--
	1/03	--	--	--	--	--	--
	7/03	--	--	0.0054	--	--	--
	1/04	--	--	--	--	--	--
	8/04	--	--	0.0031	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	--	--	--	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--
MW-43D	10/92	--	0.0469	0.055	--	--	--
	6/93	--	0.058	0.028	--	--	--
	11/93	--	NA	NA	--	NA	NA
	5/94	--	--	--	--	--	--
	1/95	--	--	0.007	--	--	--
	6/95	--	0.018	0.011	--	--	--
	9/95	--	--	0.005 N	--	--	--
	11/95	--	--	--	--	--	--
	3/96-7/99	NS	NS	NS	NS	NS	NS
	1/00-8/12	NS	NS	NS	NS	NS	NS

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MW-44	10/92	--	0.296	0.554	--	--	--
	6/93	--	0.14	0.31	--	--	--
	11/93	NS	NS	NS	NS	NS	NS
	5/94	--	0.013	--	--	--	--
	1/95	--	158	304 E	--	--	4.3
	6/95	--	--	0.0472	--	--	--
	9/95	--	--	--	--	--	--
	11/95	--	0.0833	0.195	--	--	--
	3/96-7/99	NS	NS	NS	NS	NS	NS
	1/00-8/12	NS	NS	NS	NS	NS	NS
	10/92	--	0.45	0.235	--	--	--
	6/93	--	0.19	0.067	--	--	--
MW-45	11/93	NS	NS	NS	NS	NS	NS
	5/94	0.011	0.089	0.078	--	--	--
	1/95	--	0.653 *	0.050 *	--	--	--
	6/95	0.02	0.051	0.047	--	--	--
	9/95	--	0.014	0.0286	--	--	--
	11/95	--	0.073	0.0426	--	--	--
	3/96	0.0014 B	0.0315	0.023	--	--	--
	6/96	--	0.0127	0.0108	0.00065 B	--	--
	9/96	--	0.0167	0.0180	--	--	--
	12/96	--	0.047	0.034	--	--	--
	2/97	--	--	--	--	--	--
	4/97	--	0.0684	0.0456	--	--	--
	7/97	--	--	--	--	--	--
	10/97	0.0012B	0.0025B	--	0.0011B	--	--
	1/98	--	--	--	--	--	--
	8/98	0.0253	0.0314	0.0199	--	--	--
	1/99	0.0456	0.0585	0.0536	0.0008	--	0.0022
	7/99	--	--	--	--	--	--
	1/00	--	0.0068	--	--	--	--
	8/00	--	0.0300	0.0158	--	--	--
	1/01	--	--	0.0033	--	--	--
	8/01	--	0.0110	0.0094	--	--	--
	1/02	--	0.0178	--	--	--	--
	8/02	--	0.0193	0.0126	--	--	--
	1/03	--	--	--	--	--	--
	7/03	--	0.015	0.0112	--	--	--
	1/04	--	--	0.0033	--	--	--
	8/04	--	--	--	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	--	--	0.0031	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	0.0204	0.0100	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--
MW-46 (Closed)	10/92	--	0.0072 B	0.009	--	--	--
	6/93	--	0.018	--	--	--	--
	11/93	--	NA	NA	--	NA	NA
	5/94	--	--	--	--	--	--

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
	Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
1/95	0.005	0.103 *	0.240 *	--	--	--
6/95	0.081	0.084	0.21	--	--	--
9/95	0.0062	0.012	0.232	--	--	--
11/95	--	0.117	0.271	--	--	--
3/96	--	--	--	--	--	--
6/96	--	0.145	0.388	--	--	--
9/96	--	0.140	0.323	--	--	--
12/96	--	0.134	0.345	--	--	--
2/97	--	--	0.0029B	--	--	--
4/97	--	0.0745	0.190	--	--	--
7/97	--	0.0411	0.188	--	--	--
10/97	0.0019B	0.005B	0.02	0.0051	--	--
1/98	--	0.0021B	--	0.0011B	--	--
8/98	0.046	0.0234	0.0544	0.0005	--	--
1/99	0.0445	0.0241	0.0496	0.0008	0.002	--
7/99	--	--	0.0095	--	--	--
1/00	--	--	--	--	--	--
8/00	--	0.0224	0.0494	--	--	--
1/01	--	.0161	.0325	--	--	--
8/01	--	0.0288	0.066	--	--	--
1/02	--	0.014	0.0097	--	--	--
8/02	--	0.0245	0.0451	--	--	--
1/03	--	0.0392	0.0854	--	--	--
7/03	--	--	0.0181	--	--	--
1/04	--	--	--	--	--	--
8/04	--	--	0.0059	--	--	--
1/05	--	--	--	--	--	--
7/05	--	--	--	--	--	--
1/06	--	--	--	--	--	--
8/06	--	--	--	--	--	--
1/07	--	--	--	--	--	--
7/07	--	--	--	--	--	--
1/08	--	--	--	--	--	--
7/08	--	--	--	--	--	--
1/09	--	--	--	--	--	--
7/09	--	--	--	--	--	--
2/10	--	--	--	--	--	--
8/10	--	--	--	--	--	--
1/11	--	--	0.0044	--	--	--
8/11	--	--	--	--	--	--
1/12	--	--	--	--	--	--
8/12	--	--	--	--	--	--

MW-06A

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MW-6GD (Closed)	10/92	--	0.2	0.13	--	--	--
	6/93	--	0.018	0.012	--	--	--
	11/93	NS	NS	NS	NS	NS	NS
	5/94	Abd.	Abd.	Abd.	Abd.	Abd.	Abd.
	1/95	--	0.021	UW	--	0.022	UW
	6/95	--	0.01	0.004	--	--	--
	9/95	--	0.014	0.0096	--	--	--
	11/95	--	--	0.0032	--	--	0.0034
	3/96	--	0.0166	0.0079	--	0.0155	0.0063
	6/96	0.00086 B	0.0412	0.0072	--	0.0414	0.0048
	9/96	--	0.0410	0.0026 B	--	0.0397	0.0016 B
	12/96	--	0.022	0.004	0.001B	0.022 B	0.002 B
	2/97	0.0014B	0.0071B	0.0041	--	0.0072 B	0.0020 B
	4/97	--	0.022	0.0072	--	0.0183	--
	7/97	--	0.0569	0.0052	--	0.0577	--
	10/97	0.00066B	0.0143	0.0042	--	0.0144	0.0041
	1/98	--	0.0172	--	--	0.0135	--
	8/98	0.0006	0.0397	0.0035	--	0.0398	--
	1/99	0.0016	0.0278	0.0022	--	0.023	--
	7/99	0.0009	0.0383	0.0024	--	0.0452	--
	1/00	--	0.0153	--	--	0.0124	--
	8/00	--	0.0294	--	--	0.0286	--
	1/01	--	.0161	--	--	.0173	--
	8/01	--	--	--	--	0.0103	--
	1/02	--	0.0232	--	--	0.0214	--
	8/02	--	0.0342	--	--	0.0366	--
	1/03	--	0.0165	--	--	0.0167	--
	7/03	--	0.0252	--	--	0.0279	--
	1/04	--	0.0147	--	--	0.0142	--
	8/04	--	0.0281	--	--	0.0279	--
	1/05	--	0.0127	--	--	0.0119	--
	7/05	--	0.0197	--	--	0.016	--
	1/06	--	--	--	--	--	--
	8/06	--	0.0153	--	--	0.0143	--
	1/07	--	--	--	--	--	--
	7/07	--	0.0119	--	--	0.0122	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	--	--	--	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	0.0052	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	0.0057	--	--	--
	8/12	--	--	--	--	--	--

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
	Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
10/92	--	0.0386	0.0358	--	--	--
6/93	--	0.16	0.13	--	--	--
11/93	NS	NS	NS	NS	NS	NS
5/94	0.006	0.012	--	--	--	--
1/95	--	0.113	0.124 E	--	--	2.7 B
6/95	0.011	0.027	0.024	--	--	--
9/95	--	0.022	0.054 N	--	--	--
11/95	--	--	0.0196	--	--	--
3/96	--	--	--	--	--	--
6/96	--	0.0012 B	0.0012 B	--	--	--
9/96	--	--	--	--	--	--
12/96	--	0.004 B	0.003	--	--	--
2/97	--	--	0.0016 B	--	--	--
4/97	--	--	--	--	--	--
7/97	--	0.0140	0.0154	0.0023B	--	--
10/97	--	0.0012B	--	0.00052B	--	--
1/98	--	0.0038B	0.0032	0.0024B	--	--
8/98	0.0239	0.0238	0.029	--	--	--
1/99	0.0008	0.0029	--	--	--	--
7/99	--	--	0.0061	--	--	--
1/00	--	--	--	--	--	--
8/00	--	0.0037B	0.0037	--	--	--
1/01	--	--	.0035	--	--	--
8/01	--	0.024	0.0227	--	--	--
1/02	--	--	--	--	--	--
8/02	--	--	0.0051	--	--	--
1/03	--	--	--	--	--	--
7/03	--	0.0699	0.0838	--	--	--
1/04	--	--	--	--	--	--
8/04	--	--	0.0037	--	--	--
1/05	--	--	--	--	--	--
7/05	--	--	--	--	--	--
1/06	--	--	--	--	--	--
8/06	--	--	--	--	--	--
1/07	--	--	--	--	--	--
7/07	--	--	--	--	--	--
1/08	--	--	--	--	--	--
7/08	--	--	--	--	--	--
1/09	--	0.0104	0.0100	--	--	--
7/09	--	--	--	--	--	--
2/10	--	--	--	--	--	--
8/10	--	--	--	--	--	--
1/11	--	--	--	--	--	--
8/11	--	--	--	--	--	--
1/12	--	--	--	--	--	--
8/12	--	--	--	--	--	--

MW-07

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MW-48	10/92	--	0.281	0.341	--	--	--
	6/93	--	0.16	0.21	--	--	--
	11/93	NS	NS	NS	NS	NS	NS
	5/94	0.014	0.033	0.028	--	--	--
	1/95	--	0.103 *	0.251 S*	--	--	--
	6/95	0.014	0.034	0.071	--	--	18 N
	9/95	--	--	--	--	--	--
	11/95	--	0.119	0.19	--	--	--
	3/96-7/99	NS	NS	NS	NS	NS	NS
	1/00-8/12	NS	NS	NS	NS	NS	NS
	10/92	0.0915	0.001	--	--	--	--
	6/93	--	0.001	--	--	--	--
MW-49	11/93	0.069	NA	NA	--	NA	NA
	5/94	--	--	--	--	--	--
	1/95	0.469 *	0.152	0.163 E	--	--	NA
	6/95	0.078	0.048	0.16	--	--	--
	9/95	0.0458	0.011	0.0651	--	--	--
	11/95	0.0218	0.0632	0.0991	--	--	--
	3/96	--	0.0096 B	--	--	0.0015 B	--
	6/96	--	--	--	0.00045 B	--	--
	9/96	--	--	--	0.00021 B	--	--
	12/96	0.011	0.025	0.040	--	--	--
	2/97	0.0074B	--	--	0.00064B	--	--
	4/97	--	--	--	--	--	--
	7/97	--	--	--	--	--	--
	10/97	0.0019B	--	--	0.0025B	--	--
	1/98	--	0.0015B	--	0.0012B	--	--
	8/98	0.0112	0.0061	0.0094	0.0012	--	--
	1/99	0.0011	0.0012	--	0.0013	--	0.0038
	7/99	0.0023	--	0.0032	0.0018	--	--
	1/00	0.0038	0.002	0.0042	0.0017	--	--
	8/00	0.0069	0.0075B	0.0079	0.0012B	--	--
	1/01	0.0089	--	.0125	--	--	--
	8/01	0.0060	--	0.0113	--	--	--
	1/02	0.0064	--	--	0.0062	--	--
	8/02	--	--	--	--	--	--
	1/03	0.0085	--	--	0.0057	--	--
	7/03	--	--	0.0049	--	--	--
	1/04	0.0060	--	--	0.0065	--	--
	8/04	--	--	--	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	--	--	--	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MV-09D	10/92	--	0.644	0.381	--	--	--
	6/93	--	0.045	0.023	--	--	--
	11/93	--	NA	NA	--	NA	NA
	5/94	--	0.016	--	--	--	--
	1/95	--	0.085	0.052 E	--	--	--
	6/95	0.009	0.02	0.0255 N	--	--	--
	9/95	--	--	0.019	--	--	--
	11/95	--	0.0243	0.019	--	--	--
	3/96	--	0.005 B	--	0.00068	--	--
	6/96	--	0.0031 B	0.0034	0.00046 B	--	--
	9/96	0.00033 B	0.0030 B	0.0010 B	0.00022 B	--	--
	12/96	--	--	--	--	--	--
	2/97	--	--	--	--	--	--
	4/97	--	--	--	--	--	--
	7/97	--	--	--	--	--	--
	10/97	--	--	--	--	--	--
	1/98	--	--	--	--	--	--
	8/98	0.0012	0.0015	--	--	--	--
	1/99	0.0008	0.0037	--	0.0005	--	--
	7/99	--	--	--	--	--	--
	1/00	--	--	--	--	--	--
	8/00	--	--	--	--	--	--
	1/01	--	--	--	--	--	--
	8/01	--	--	--	--	--	--
	1/02	--	0.0126	--	--	--	--
	8/02	--	--	--	--	--	--
	1/03	--	--	--	--	--	--
	7/03	--	--	--	--	--	--
	1/04	--	--	--	--	--	--
	8/04	--	--	--	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	--	--	--	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--
MV-10 (Class 0)	10/92	0.0256	0.717	0.645	--	--	--
	6/93	--	0.14	0.11	--	0.019	--
	11/93	0.022	NA	NA	--	NA	NA
	5/94	--	0.022	0.0066	--	--	--
	1/95	Abd.	Abd.	Abd.	Abd.	Abd.	Abd.

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
	Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
10/92	--	0.595	0.384	--	--	--
6/93	--	0.1	0.076	--	--	--
11/93	0.011	NA	NA	--	NA	NA
5/94	0.017	--	--	--	--	--
1/95	--	0.253	0.228 E	--	--	--
6/95	0.087	0.18	0.17	--	--	--
9/95	--	--	0.005 WN	--	--	--
11/95	--	0.152	0.161	--	--	0.0077
3/96	--	--	--	--	--	--
6/96	--	--	--	--	--	--
9/96	--	--	0.0013 B	0.00095B	--	--
12/96	--	0.044	0.054	--	--	--
2/97	--	0.0124	0.0144	--	--	--
4/97	--	--	--	--	--	--
7/97	--	--	--	--	--	--
10/97	--	--	--	--	--	--
1/98	--	0.0138	0.0162	0.0024B	--	--
8/98	0.0053	0.0065	0.0056	--	--	--
1/99	0.005	0.0042	0.0035	0.0029	--	--
7/99	--	--	--	--	--	--
1/00	--	0.005	0.0041	--	--	--
8/00	--	0.0031	--	--	--	--
1/01	--	--	.0083	--	--	--
8/01	--	0.026	0.0264	--	--	--
1/02	--	--	--	--	--	--
8/02	--	--	--	--	--	--
1/03	--	--	0.0053	--	--	--
7/03	--	--	0.0070	--	--	--
1/04	--	--	--	--	--	--
8/04	--	--	0.0031	--	--	--
1/05	--	--	--	--	--	--
7/05	--	--	--	--	--	--
1/06	--	--	--	--	--	--
8/06	--	--	--	--	--	--
1/07	--	--	--	--	--	--
7/07	--	--	--	--	--	--
1/08	--	--	--	--	--	--
7/08	--	--	--	--	--	--
1/09	--	--	0.0085	--	--	--
7/09	--	--	--	--	--	--
2/10	--	--	--	--	--	--
8/10	--	--	--	--	--	--
1/11	--	--	--	--	--	--
8/11	--	--	.0047	--	--	.007
1/12	--	--	--	--	--	--
8/12	--	--	--	--	--	--
9/96	--	0.0022B	0.0016B	--	--	--
12/96	--	0.048	0.053	0.001B	0.003B	--
2/97	NS	NS	NS	NS	NS	NS
4/97	--	--	--	--	--	--
7/97	--	--	--	--	--	--
10/97	--	--	--	--	--	--
1/98	--	0.0021B	--	--	--	--
8/98	0.0016	0.0022	--	--	--	--
1/99	NS	NS	NS	NS	NS	NS
7/99	--	--	--	--	--	--
1/00	0.0013	--	--	--	--	--
8/00	--	--	--	--	--	--
8/01	--	--	0.0048	--	--	--
1/02	--	--	--	--	--	--
8/02	--	--	--	--	--	--
1/03	NS	NS	NS	NS	NS	NS
7/03	--	--	0.006	--	--	--
1/04	--	--	--	--	--	--
8/04	0.008	--	0.0058	--	--	--
1/05	--	--	--	--	--	--
7/05	--	--	--	--	--	--
1/06	--	--	--	--	--	--
8/06	--	--	--	--	--	--
1/07	--	--	--	--	--	--
7/07	--	--	--	--	--	--
1/08	--	--	--	--	--	--
7/08	--	--	--	--	--	--
1/09	NS	NS	NS	NS	NS	NS
7/09	--	--	--	--	--	--
4/10	--	--	--	--	--	--
8/10	--	--	--	--	--	--
1/11	--	--	--	--	--	--
8/11	--	.0121	.0197	--	--	--
1/12	--	--	--	--	--	--
8/12	--	--	--	--	--	--

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

	DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
		Cadmium	Chromium	Lead	Cadmium	Chromium	Lead
MW-13	9/96	--	0.0024B	0.0012B	--	--	--
	12/96	--	0.070	0.050	--	--	--
	2/97	--	0.0023B	0.0020B	--	--	--
	4/97	--	--	--	--	--	--
	7/97	--	--	--	--	--	--
	10/97	--	0.0012B	--	--	--	--
	1/98	--	--	--	0.0042B	--	--
	8/98	0.0086	0.0087	0.0076	--	--	--
	1/99	0.0033	0.002	--	0.0006	0.0017	0.0035
	7/99	--	--	0.002	--	--	--
	1/00	--	--	--	--	--	--
	8/00	--	0.017	0.0093	--	--	--
	1/01	--	--	--	--	--	--
	8/01	--	0.012	0.0094	--	--	--
	1/02	--	0.0107	0.0041	--	--	--
	8/02	--	--	--	--	--	--
	1/03	--	0.0103	0.0036	--	--	--
	7/03	--	0.024	0.0176	--	--	--
	1/04	--	--	--	--	--	0.0035
	8/04	--	--	--	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	0.0345	--	0.00368	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--
MW-14	8/00	0.005	0.010	0.003	--	--	--
	1/01	--	--	--	--	--	--
	8/01	--	--	--	--	--	--
	1/02	--	--	--	--	--	--
	8/02	--	--	--	--	--	--
	1/03	--	--	--	--	--	--
	7/03	--	--	--	--	--	--
	1/04	--	--	--	--	--	--
	8/04	--	--	--	--	--	--
	1/05	--	--	--	--	--	--
	7/05	--	--	--	--	--	--
	1/06	--	--	--	--	--	--
	8/06	--	--	--	--	--	--
	1/07	--	--	--	--	--	--
	7/07	--	--	--	--	--	--
	1/08	--	--	--	--	--	--
	7/08	--	--	--	--	--	--
	1/09	0.0824	--	0.00481	--	--	--
	7/09	--	--	--	--	--	--
	2/10	--	--	--	--	--	--
	8/10	--	--	--	--	--	--
	1/11	--	--	--	--	--	--
	8/11	--	--	--	--	--	--
	1/12	--	--	--	--	--	--
	8/12	--	--	--	--	--	--

Table 2
Summary of Total and Dissolved
Cadmium, Chromium and Lead
Arcade, New York

DATE SAMPLED	Total (mg/L)			Dissolved (mg/L)		
	Cadmium	Chromium	Lead	Cadmium	Chromium	Lead

NOTES:

NA = Not Analyzed

NS = Not Sampled

Abd = Abandoned

* = Indicates duplicate analysis not within control limits.

S = Indicates value determined by Method of Standard Addition.

-- = The analyte was analyzed for but not detected.

B = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

E = Indicates a value estimated or not reported due to the presence of interference.

W = Post digestion spike for Furnace AA analysis out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

N = Indicates spike sample recovery is not within control limits.

Table 3. Summary of Soil Vapor Sample Analytical Results - Prestolite, Arcade, NY

Parameter Name	VP-1						VP-2						VP-3						VP-4						VP-5						VP-6					
	5/28/2008	8/8/2008	3/17/2009	7/15/2009	10/19/2009	3/25/2010	5/28/2008	8/8/2008	3/17/2009	7/15/2009	10/19/2009	3/25/2010	5/28/2008	8/8/2008	3/17/2009	7/15/2009	10/19/2009	3/25/2010	5/28/2008	8/8/2008	3/17/2009	7/15/2009	10/19/2009	3/25/2010	5/28/2008	8/8/2008	3/17/2009	7/15/2009	10/19/2009	3/25/2010	5/28/2008	8/8/2008	3/17/2009	7/15/2009	10/19/2009	3/25/2010
1,1,1-Trichloroethane	53	110	NS-I	87	110	28	39	130	19	13	100	28	65	71	19	50	82	21	65	290	28	34	27	13	22	71	25	93	130	37	14	<22	16	5.50	19	11
1,1- Dichloroethane	<0.65	<0.65	NS-I	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	1.10	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	
1,2-Dichloroethane	<0.65	<0.65	NS-I	<0.65	<0.65	<0.65	2.50	<8.1	<0.65	<0.65	<0.65	<0.65	2.20	<0.65	<0.63	<0.65	<0.65	<0.65	2.00	<4.0	<0.65	<0.65	<0.65	<0.65	1.70	<8.1	<0.65	<0.65	<0.65	<0.65	2.0	<16	<0.65	<0.65	<0.65	<0.65
1,2-Dichloroethene (total)	<0.63	<0.63	NS-I	<0.63	<0.63	<0.63	<0.63	<7.9	<1.26	<0.63	<0.63	<0.63	<1.2	<0.63	<1.26	<0.63	<0.63	<0.63	<1.6	<4.0	<1.26	<0.63	<0.63	<0.63	<0.63	<7.9	<1.26	<0.63	<0.63	<0.63	<0.63	<16	<1.26	<0.63	<0.63	<0.63
1,2,4-Trimethylbenzene	NA	NA	NS-I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	<0.79	<0.79	NS-I	<0.79	<0.79	<0.79	1.10	<9.8	<0.79	<0.79	<0.79	<0.79	<1.5	<0.79	<0.79	<0.79	<0.79	<0.79	<2.0	<4.9	<0.79	<0.79	<0.79	<0.79	<0.79	<9.8	<0.79	<0.79	<0.79	<0.79	0.98	<20	<0.79	1.10	<0.79	<0.79
1,3- Butadiene	<0.88	<0.88	NS-I	<0.88	<0.88	<0.88	<0.88	<11	<0.88	<0.88	<0.88	<0.88	<1.7	<0.88	<0.88	<0.88	<0.88	<0.88	<2.2	<5.5	<0.88	<0.88	<0.88	<0.88	<0.88	<11	<0.88	<0.88	<0.88	<0.88	0.88	<22	<0.88	<0.88	<0.88	<0.88
2,2,4-Trimethylpentane	1.70	<0.75	NS-I	0.89	<0.75	<0.75	5.10	<9.3	1.20	<0.75	<0.75	<0.75	3.50	<0.75	<0.75	1.70	<0.75	<0.75	3.50	<4.7	0.79	0.93	<0.75	<0.75	3.60	<9.3	<0.75	<0.75	<0.75	<0.75	4.30	<19	<0.75	<0.75	<0.75	<0.75
4-Ethyltoluene	1.20	<0.79	NS-I	<0.79	<0.79	<0.79	4.00	<9.8	<0.79	<0.79	<0.79	<0.79	1.80	<0.79	<0.79	<0.79	<0.79	<0.79	<2.0	<4.9	<0.79	<0.79	<0.79	<0.79	2.70	<9.8	<0.79	<0.79	<0.79	<0.79	2.40	<20	<0.79	1.20	<0.79	<0.79
Benzene	2.10	<0.51	NS-I	1.60	<0.51	<0.51	6.10	<6.4	1.90	<0.51	<0.51	<0.51	3.20	<0.51	0.89	2.70	<0.51	<0.51	3.20	<3.2	1.10	1.50	<0.51	<0.51	6.70	<6.4	<0.51	0.89	<0.51	<0.51	2.20	<13	0.64	0.89	<0.51	<0.51
Chloroform	2.00	<0.78	NS-I	<0.78	<0.78	<0.78	2.90	<9.8	<0.78	<0.78	<0.78	<0.78	2.50	<0.78	<0.78	<0.78	<0.78	<0.78	2.30	<4.9	<0.78	<0.78	<0.78	<0.78	6.30	<9.8	<0.78	<0.78	1.20	<0.78	6.30	<20	<0.78	<0.78	<0.78	<0.78
Chloromethane	NA	NA	NS-I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
cis-1,2-Dichloroethene	<0.63	<0.63	NS-I	<0.63	<0.63	<0.63	<0.63	<7.9	<0.63	<0.63	<0.63	<0.63	<1.2	<0.63	<0.63	<0.63	<0.63	<0.63	<1.6	<4.0	<0.63	1.50	<0.63	<0.63	<0.63	<7.9	<0.63	<0.63	<0.63	<0.63	<0.63	<16	<0.63	<0.63	<0.63	<0.63
Cyclohexane	2.00	<0.55	NS-I	2.90	<0.55	<0.55	4.10	<6.9	1.00	<0.55	<0.55	<0.55	4.10	1.00	0.65	2.70	<0.55	<0.55	4.10	4.10	0.86	1.60	<0.55	<0.55	3.30	<6.9	<0.55	1.80	<0.55	<0.55	2.30	<14	<0.55	0.72	<0.55	<0.55
Dichlorodifluoromethane	<2.0	<2.0	NS-I	3.90	<2.0	2.40	<2.0	<25	<2.0	3.00	<2.0	2.40	<3.7	<2.0	2.30	2.60	<2.0	2.60	<4.9	<12	2.10	2.60	<2.0	2.60	<2.0	<25	<2.0	2.40	<2.0	2.60	<2.0	<49	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	1.70	<0.69	NS-I	1.00	<0.69	<0.69	5.20	<8.7	0.87	<0.69	<0.69	<0.69	2.60	<0.69	<0.69	1.60	<0.69	<0.69	2.60	<4.3	<0.69	0.83	<0.69	<0.69	4.00	<8.7	<0.69	<0.69	<0.69	<0.69	3.30	<17	<0.69	1.40	0.69	<0.69
n-Heptane	1.80	<0.66	NS-I	2.20	<0.66	<0.66	6.10	<8.2	1.10	0.70	<0.66	<0.66	3.70	<0.66	<0.66	2.30	<0.66	<0.66	3.40	<4.1	<0.66	1.30	<0.66	<0.66	4.90	<8.2	<0.66	<0.66	<0.66	<0.66	3.50	<16	<0.66	0.86	<0.66	<0.66
n-Hexane	7.00	<1.4	NS-I	4.60	<1.4	<1.4	20	<18	4.90	<1.4	<1.4	<1.4	11	<1.4	2.00	7.80	<1.4	<1.4	10	<8.8	2.50	4.20	<1.4	<1.4	20	<18	<1.4	2.10	<1.4	<1.4	6.70	<35	<1.4	2.0	<1.4	<1.4
Styrene	NA	NA	NS-I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Tetrachloroethene	<1.1	3.00	NS-I	2.70	2.90	<1.1	<1.1	<14	<1.1	<1.1	<1.1	<1.1	<2.0	3.90	1.20	3.10	4.10	1.40	<2.7	8.10	<1.1	3.10	2.20	<1.1	1.60	<14	1.20	3.30	3.50	<1.1	<1.1	<27	<1.1	<1.1	<1.1	<1.1
Toluene	8.70	<0.60	NS-I	5.30	1.40	0.94	29	<7.5	5.70	<0.60	0.64	0.94	14	<0.60	2.30	9.80	<0.60	<0.60	15	<3.8	2.70	5.30	0.83	<0.60	25.00	<7.5	<0.6	2.60	<0.6	<0.60	19	<15	1.80	3.40	<0.60	<0.60
Trichloroethene	2.30	5.40	NS-I	3.70	3.10	1.00	2.40	<11	<0.86	<0.86	4.30	1.00	220	86	17	47	70	20	210	1,100	41	110	97	48	35	170	18	75	110	31	11	48	5.90	23	18	5.90
Trichlorofluoromethane	4.30	2.00	NS-I	2.50	2.30	1.20	9	<11	2.20	1.50	<0.90	1.20	6.70	1.70	1.90	2.60	2.10	1.20	6.70	<5.6	2.00	1.80	1.50	1.40	14	<11	1.10	2.20	1.90	1.40	4.60	<22	<0.90	1.20	<0.90	<0.90
Vinyl Chloride	<0.41	<0.41	NS-I	<0.41	<0.41	<0.41	<0.41	<5.1	<0.41	<0.41	<0.41	<0.41	<0.77	<0.41	<0.41	<0.41	<0.41	<0.41	<1.0	<2.6	<0.41	<0.41	<0.41	<0.41	<0.41	<5.1	<0.41	<0.41	<0.41	<0.41	<0.41	<10	<0.41	<0.41	<0.41	<0.41
Xylene (m+p)	4.80	1.80	NS-I	3.00	<1.7	<1.4	16	<22	2.80	1.70	<1.7	<1.4	7.40	<1.7	<1.7	4.80	<1.7	<1.4	7.40	<11	<1.7	2.70	<1.7	<1.4	12	<22	<1.7	<1.7	<1.7	<1.4	9.60	<43	<1.7	4.30	<1.7	<1.4
Xylene (o)	1.50	<0.69	NS-I	1.20	<0.69	<0.69	4.80	<8.7	1.00	0.83	<0.69	<0.69	2.20	<0.69	<0.69	1.80	<0.69	<0.69	2.20	<4.3	<0.69	1.00	<0.69	<0.69	3.60	<8.7	<0.69	<0.69	<0.69	<0.69	2.70	<17	<0.69	2.20	<0.69	<0.69
Xylene (total)	6.50	1.80	NS-I	4.30	<0.69	<0.69	21	<30.7	3.80	2.60	<0.69	<0.69	10	<2.39	<2.39	6.90	<0.69	<0.69	10	<4.3	<2.39	3.80	<0.69	<0.69	16	<8.7	<2.39	<0.69	<0.69	<0.69	13	<17	<2.39	6.90	<0.69	<0.69

Notes: All values are in ug/m³
All samples collected as grab samples unless otherwise noted.
NS-I - No sample due to ice/snow coverage of vapor probe
NS-W - No sample due to water submergence of vapor probe
NA - Not Analyzed
*- Value obtained subtraction
^ - Sample collected over 8 hours

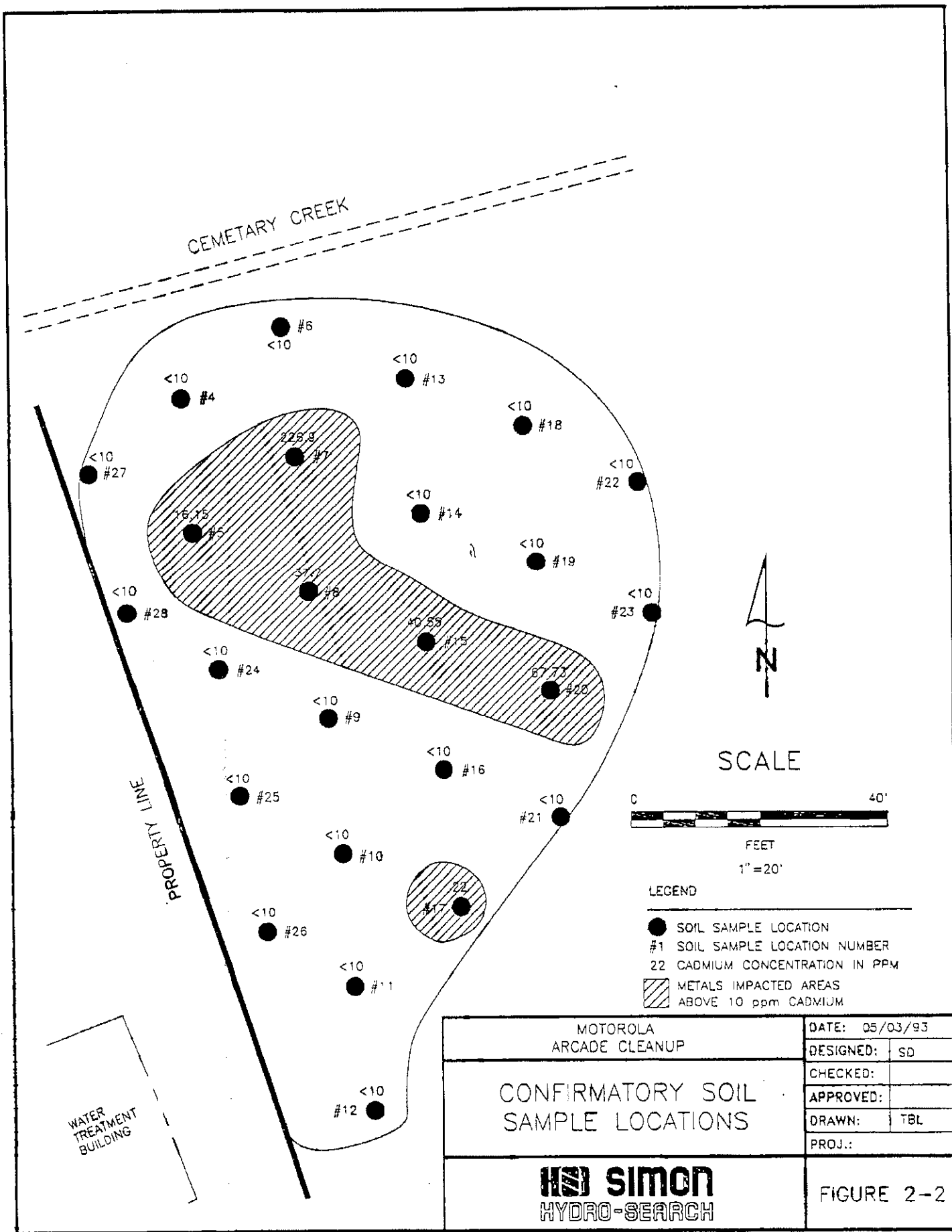
Table 3 (cont). Summary of Soil Vapor Sample Analytical Results - Prestolite, Arcade, NY

Parameter Name	VP-7						VP-8						VP-9						VP-10						VP-11						VP-12				VP-13				VP-14										
	5/28/2008	8/8/2008	3/17/2009	7/15/2009	10/19/2009	3/25/2010	7/15/2009	10/19/2009	3/25/2010	6/18/2010	12/15/2010	5/29/2012^	11/9/2012^	7/15/2009	10/19/2009	3/25/2010	6/18/2010	12/15/2010	6/21/2012	11/9/2012^	7/15/2009	10/19/2009	3/25/2010	6/18/2010	12/15/2010	11/16/11^	5/29/2012^	11/9/2012^	7/15/2009	10/19/2009	3/25/2010	6/18/2010	12/15/2010	11/16/11^	6/21/2012	11/9/2012^	12/15/2010	11/16/11^	6/21/2012	11/9/2012^	12/15/2010	11/16/11^	6/21/2012	11/9/2012^	11/16/11^	5/29/2012^	11/9/2012^		
1,1,1-Trichloroethane	<6.0	<11	<0.87	<0.87	<5.5	<0.87	26	12	1.40	15	1.70	5.21	2.21	11	19	10	23	3.40	20.10	17.30	23	6.0	1.20	3.0	2.30	<2.85	1.22	<1.09	280	270	NS-W	190	100	29.1	<1.09	109	190	163	236	83.8	70	<8.77	104	32.8	1.44	2.46	9.13		
1,1- Dichloroethane	<0.65	<0.65	<0.65	<0.65	<4.0	<0.65	<0.65	<0.65	<0.65	<0.65	<0.81	<0.81	<0.81	<0.65	<0.65	<0.65	<0.65	<0.81	<0.81	<0.81	<0.65	<0.65	<0.65	<0.65	<0.81	<2.11	<0.81	<0.81	<6.5	<1.3	NS-W	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<1.27	<0.81	<0.81	<0.81	<6.51	<0.79	<1.13	<0.81	<0.81	<0.81	
1,2-Dichloroethane	<4.5	<8.1	<0.65	<0.65	<4.0	<0.65	<0.65	<0.65	<0.65	<0.65	<0.81	<0.81	<0.81	<0.65	<0.65	<0.65	<0.65	<0.81	<0.81	<0.81	<0.65	<0.65	<0.65	<0.65	<0.81	<2.11	<1.54	<1.54	<6.5	<1.3	NS-W	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<1.3	<0.81	<0.81	<0.81	<6.51	<0.81	<1.13	<0.81	<0.81	<0.81
1,2-Dichloroethene (total)	38	59	4.0	<0.63	44	4.0	<0.63	<0.63	<0.63	<0.63	<0.79	<0.79	<0.79	<0.63	<0.63	<0.63	<0.63	<0.79	<0.79	<0.79	<0.63	<0.63	<0.63	<0.63	<0.79	<2.07	<0.79	<0.79	<6.3	<1.3	NS-W	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<1.27	<0.79	<0.79	<0.79	<6.38	<0.79	<1.10	<0.79	<0.79	<0.79
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.98	<0.98	3.13	NA	NA	NA	NA	<0.98	<0.98	2.33	NA	NA	NA	NA	<0.98	<2.57	1.24	<0.98	NA	NA	NA	NA	<0.98	<0.98	<0.98	2.02	<0.98	<0.98	1.41	<1.57	<0.98	<0.98	<7.91	<3.71	<1.37	2.63	2.04	<0.98	
1,3,5-Trimethylbenzene	7.90	<9.8	<0.79	<0.79	<4.9	<0.79	1.50	<0.79	<0.79	<0.79	<0.98	<0.98	1.21	1.40	<0.79	<0.79	<0.79	<0.98	<0.98	<0.98	<0.79	<0.79	<0.79	<0.79	<0.98	<2.57	<0.98	<0.98	8.40	<1.6	NS-W	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<1.57	<0.98	<0.98	<0.98	<7.91	<0.98	<1.37	<0.98	<0.98	<0.98
1,3- Butadiene	<6.2	<11	<0.88	<0.88	<5.5	<0.88	<0.88	<0.88	<0.88	<0.88	<0.44	<0.44	<0.44	1.40	<0.88	<0.88	<0.88	<0.44	<0.44	<0.44	210	<0.88	<0.88	<0.88	<0.44	<1.15	<0.44	<0.44	33	<1.8	NS-W	<1.1	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<3.56	<0.44	<0.62	<0.44	<0.44	<0.44		
2,2,4-Trimethylpentane	84	45	4.70	5.10	45	3.60	<0.75	<0.75	<0.75	<0.75	<0.93	<0.93	<0.93	0.93	<0.75	<0.75	<0.75	<0.93	1.05	<0.93	<9.3	<0.75	<0.75	<0.75	<0.93	<2.44	<0.93	<0.93	<7.5	<1.5	NS-W	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<1.50	<0.93	1.8	<7.51	<0.93	<1.30	<0.93	1.78	<0.93	
4-Ethyltoluene	10.0	<9.8	<0.79	<0.79	<4.9	<0.79	1.90	<0.79	<0.79	<0.79	<0.98	<0.98	<0.98	1.80	<0.79	<0.79	<0.79	<0.98	<0.98	<0.98	<9.8	<0.79	<0.79	<0.79	<0.98	<2.57	<0.98	<0.98	<7.9	<1.6	NS-W	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<1.57	<0.98	<0.98	<0.98	<7.91	<0.98	<1.37	<0.98	<0.98	<0.98
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<12	55.00	32.20	NA	NA	NA	NA	<12	26.90	<11.9	NA	NA	NA	NA	<12	<31	47.90	15.40	NA	NA	NA	NA	29	<11.9	27	<11.9	<12	56.2	22.7	<11.9	15	<95.5	12.9	67.9	<11.9	47.8	<11.9		
n-Butane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.2	<1.19	1.42	NA	NA	NA	NA	<1.2	<1.2	1.47	NA	NA	NA	NA	<1.2	7.38	<1.19	1.66	NA	NA	NA	NA	1.50	3.44	1.58	<1.19	<1.2	1.27	<1.90	<1.19	<1.2	<9.56	<1.19	2.55	3.41	21.6	<1.19		
Benzene	99	64	8.30	11	77	8.0	0.83	<0.51	<0.51	<0.51	<0.64	<0.64	<0.64	2.00	<0.51	<0.51	<0.51	0.81	1.10	<0.64	220	<0.51	<0.51	<0.51	<0.64	<1.67	<0.64	0.69	89	<1.0	NS-W	<0.64	<0.64	<0.64	<0.64	<0.64	0.63	<0.64	<1.02	<0.64	<0.64	<5.14	<0.64	<0.89	<0.64	1.86	<0.64		
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	5.62	<1.56	NA	NA	NA	NA	<1.6	<1.56	<1.56	NA	NA	NA	NA	<1.6	<4.06	12.70	<1.56	NA	NA	NA	NA	<1.6	<1.56	<1.56	<1.56	<1.6	2.11	<2.49	<1.56	1.7	<12.5	<1.56	<2.16	<1.56	1.63	<1.56		
Chloroform	<5.4	<9.8	<0.78	<0.78	<4.9	<0.78	<0.78	<0.78	<0.78	<0.78	<0.98	1.01	<0.98	3.50	<0.78	<0.78	<0.78	<0.98	1.48	<0.98	83	1.30	<0.78	<0.78	<0.98	<2.55	<0.98	<0.98	<6.3	<1.6	NS-W	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<1.56	<0.98	<0.98	<0.98	<7.85	<0.98	<1.36	<0.98	5.31	<0.98
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	1.30	<1.03	NA	NA	NA	NA	<1.0	<1.03	<1.03	NA	NA	NA	NA	<1.0	<2.69	<1.03	1.11	NA	NA	NA	NA	<1.0	<1.03	1.52	<1.03	<1.0	<1.03	<1.65	<1.03	<1.0	<8.30	<1.03	<1.44	1.03	<1.03	<1.03		
cis-1,2-Dichloroethene	38	59	4.00	5.90	40	4.0	<0.63	<0.63	<0.63	<0.63	<0.79	<0.79	<0.79	<0.63	<0.63	<0.63	<0.63	<0.79	<0.78	<0.79	<0.63	<0.63	<0.63	<0.63	<0.79	<2.07	<0.79	<0.79	<0.63	<1.3	NS-W	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<1.27	<0.79	<0.79	<0.79	<6.38	<0.79	<1.10	<0.79	<0.79	<0.79
Cyclohexane	120	89	3.80	3.80	72	<0.55	1.40	<0.55	<0.55	<0.55	<0.69	<0.69	<0.69	3.0	<0.55	<0.55	0.62	<0.69	1.25	<0.69	550	<0.55	<0.55	<0.55	<0.69	<1.80	<0.69	<0.69	380	<1.1	NS-W	<0.69	1.6	<0.69	<0.69	<0.69	2.7	<0.69	<1.10	<0.69	0.93	<5.53	<0.69	1.17	<0.69	2.16	<0.69		
Dichlorodifluoromethane	<14	<25	<2.0	2.30	<12	2.30	2.70	<2.0	2.70	<1.4	<2.5	2.66	2.83	2.70	<2.0	2.90	<1.4	<2.5	<2.47	2.70	<25	<2.0	2.80	<2.0	<2.5	<6.45	<2.47	2.73	<20	<4.0	NS-W	<1.7	<2.5	<2.47	2.61	2.72	<2.5	<2.47	<3.96	2.59	<2.5	<19.9	<2.47	<3.44	<2.47	<2.47	2.64		
Ethylbenzene	22	15	<0.69	<0.69	<4.3	<0.69	1.20	<0.69	<0.69	<0.69	<0.87	<0.87	1.43	2.0	<0.69	&																																	

APPENDIX F
Cleanup Verification/Residual Soil Impacts
Figures and Tables

APPENDIX F-1

FORMER RUN-OFF RECEIVING AREA



SUMMARY OF CONFIRMATORY SOIL SAMPLE ANALYTICAL RESULTS (Mg/Kg)

Sample Date	SE-01	SE-02	SE-03	SE-04	SE-05								
PARAMETER	08/05/92	08/05/92	08/05/92	08/05/92	08/05/92	08/13/92	09/15/92	09/19/92	09/28/92	10/03/92	10/06/92	10/09/92	
Cd		41.9	3.3	39.7	8.9	310	35.6	109	124	171.1	41.75	51.21	16.15
Cr		19.6	8.7	19.5	10.2	18.8	18.1	25.2	21.6	11.74	9.65	11.54	5.4
Pb		21.5	10.3	20.1	5.6	20.1	10.8	30.6	23.5	20.12	17.44	16.83	28.36

[illegible]

Sample Date	SIU-08						SIU-09		SIU-10		
	08/05/92	08/13/92	09/15/92	09/19/92	09/24/92	10/05/92	10/06/92	10/09/92	08/13/92	08/05/92	08/13/92
PARAMETER											
Cd	352	118	209	123	206.8	170.5	186.7	37.7	337	ND	3
Cr	20.3	20.5	18.3	13.5	9.5	11.16	10.64	7.83	20.7	10.4	11.2
Pb	15.1	26.6	23.9	18.5	26.7	21.2	25.79	23.5	18.3	33.7	23

Sample Date	SE-11		SE-12		SE-13						
	08/05/92	08/13/92	09/15/92	09/19/92	09/29/92	10/01/92	08/08/92	09/14/92			
PARAMETER											
Cd	842	51.1	4.3	86.6	64.1	214	113	13.03	0.448	18	2.2
Cr	21.3	11.5	10.3	12.5	14.5	20.3	12.04	17.3	15.05	22.6	26.6
Pb	22.1	28.1	10.8	11.4	14.4	16.2	18.18	ND	9.76	30.9	27

Sample Date	SP-14		SP-15		10/05/92	10/06/92	10/09/92		
	08/08/92	09/14/92	08/08/92	09/14/92					
PARAMETER									
Cd	40.7	1	67.1	157	47.7	65.7	86.57	91.57	40.55
Cr	15.3	7	22.9	10	24.1	13.07	12.68	9.95	6.56
Pb	14	8.7	29	13.3	25.7	18.99	13.46	16.6	39.8

TABLE 2-1
(continued)

Sample Date PARAMETER	SE-16		SE-17		SE-18	
	08/08/92	09/14/92	09/19/92	09/28/92	09/30/92	10/06/92
Cd	235	254	266	11.28	432	42.8
Cr	21.9	26.8	25.2	10.47	11.23	7.67
Pb	26.7	24.9	23	33.73	16.42	ND

Sample Date PARAMETER	SE-19		SE-20		SE-21	
	08/08/92	09/14/92	09/19/92	09/28/92	10/01/92	10/06/92
Cd	58.1	122	287	124.3	1.488	88.7
Cr	25	24	25.7	14.69	7.782	23.7
Pb	25.6	26.2	37.2	59.88	ND	28.8

Sample Date PARAMETER	SE-22		SE-23		SE-24	
	08/08/92	09/14/92	09/19/92	09/28/92	10/01/92	10/06/92
Cd	417	51.6	12.5	2.807	101	30
Cr	22.6	22.5	15.5	12.8	18.5	23.8
Pb	24.3	22.9	14.6	17.96	19.4	26.1

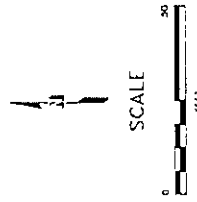
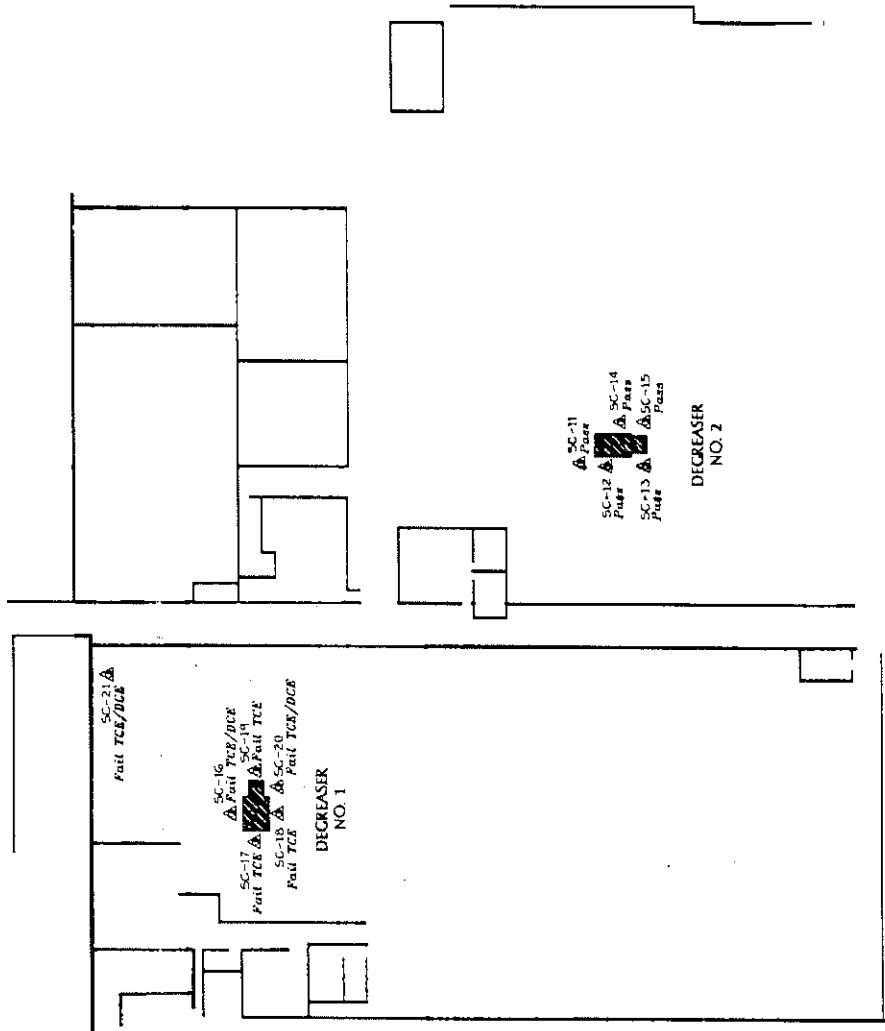
Sample Date PARAMETER	SE-25		SE-26		SE-27	
	09/30/92	10/05/92	09/30/92	10/09/92	09/30/92	10/09/92
Cd	ND	1378.5	0.769	49.02	10.24	9.219
Cr	12.54	22.24	10.33	13.39	11.44	10.36
Pb	15.26	46.87	18.67	15.84	11.98	ND

Sample Date PARAMETER	SE-28		SE-29		SE-30	
	09/30/92	10/02/92	10/05/92	10/09/92	09/30/92	10/09/92
Cd	122.9	134.9	26.37	6.671	62.95	25.43
Cr	20.94	19.46	17.48	19.75	18.74	14.95
Pb	28.96	27.11	26.24	35.71	25.62	22.82

Cd - Cadmium
Cr - Chromium (Total)
Pb - Lead

APPENDIX F-2

DEGREASER AREAS 1 AND 2



April 1996

DATE	06/17/97
DESIGNED	BS
CHECKED	BS
APPROVED	RG
DRAWN	TBL
PROJECT	NBS
FIGURE	1

HSI
GEOTRANS

TABLE I
SUMMARY OF VOC DETECTIONS
GEOPROBE SVE SOIL CONFIRMATION SAMPLES (µg/kg)
April 1996 + 1997

Degreaser No. 2

Analyte	Allowable	SC-01 April 96	SC-11 April 97	SC-02 April 96	SC-12 April 97	SC-03 April 96	SC-13 April 97	SC-04 April 96	SC-14 April 97	SC-05 April 96	SC-15 April 97
1,1-Dichloroethene	400	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
1,2-Dichloroethene	300	ND	ND	ND	ND	ND	2J	ND	ND	ND	ND
1,2-Dichloroethane	100	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
1,1,1-Trichloroethane	760	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	700	26	22	82	48	120	96	23000	11	ND	8J

Degreaser No. 1

Analyte	Allowable	SC-06 April 96	SC-16 April 97	SC-07 April 96	SC-17 April 97	SC-08 April 96	SC-18 April 97	SC-09 April 96	SC-19 April 97	SC-10 April 96	SC-20 April 97	SC-21 April 97
1,1-Dichloroethene	400	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	ND
1,2-Dichloroethene	300	250E	2800D	22J	ND	ND	ND	350J	ND	9J	1300DJ	1000DJ
1,2-Dichloroethane	100	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	ND
1,1,1-Trichloroethane	760	5J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	27000D	560	5100D	9100	2000D	2900	2400D	37	9300D	47000D

QA/QC Samples

Analyte	SC-12 Dup	Field Blank	Trip Blank
1,1-Dichloroethene	ND	ND	ND
1,2-Dichloroethene	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
Trichloroethene	11	ND	ND

Refers to allowable soil concentrations listed on Appendix A of January 24, 1994 NYSDEC TAGM entitled, "Determination of Soil Cleanup Objectives and Cleanup Standards".

Indicates that the compound was not detected.

Indicates that the sample was not analyzed for the compound listed.

Indicates that the sample was diluted to meet analytical requirements.

Indicates that the compound exceeds instrument calibration range for that analysis.

Indicates that the compound was present at a concentration below detection limits.

Done
for sample
Apr. 1996

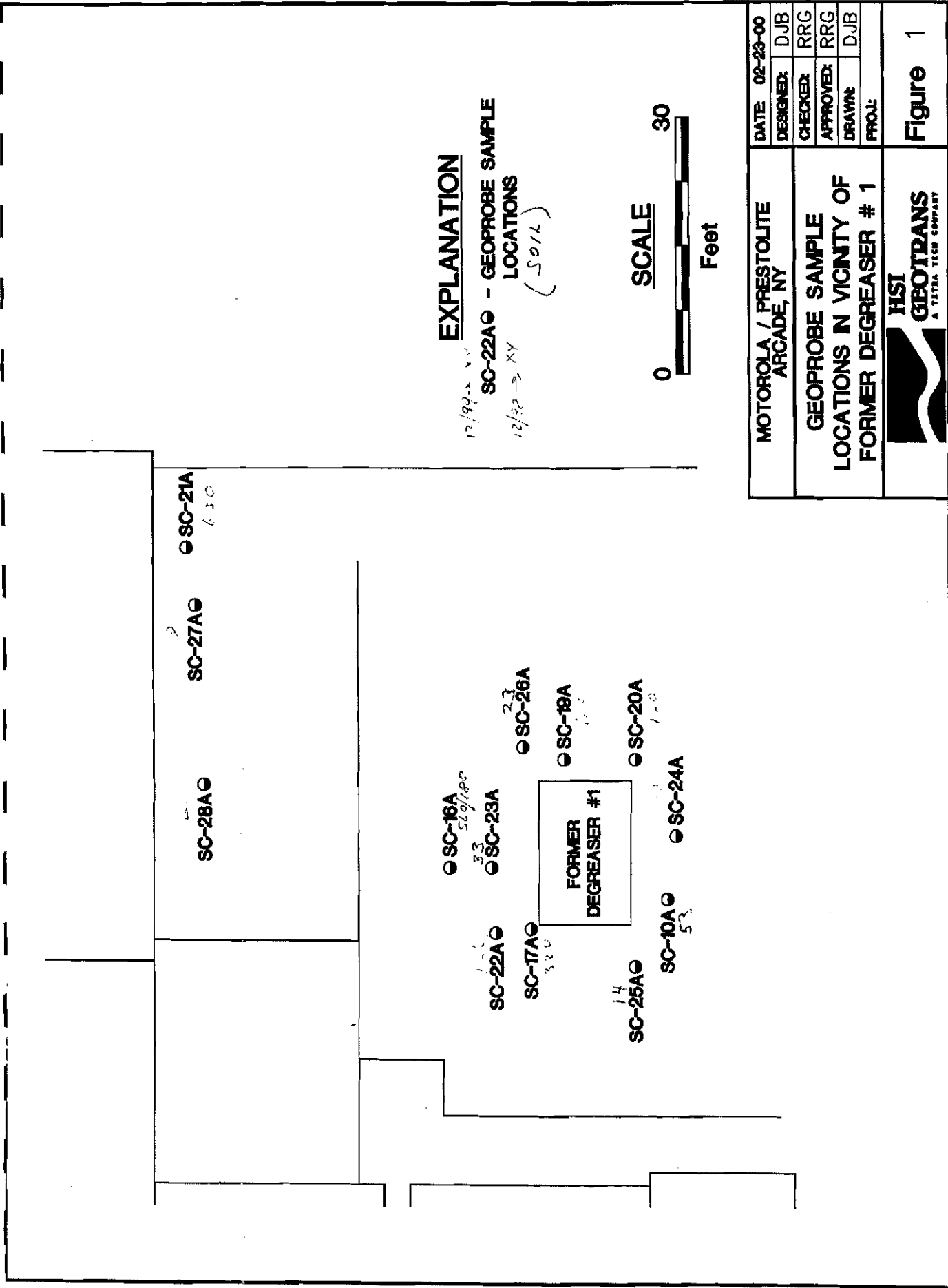


**Table 1. Summary of Volatile Organic Compound Soil Data
Soil Vapor Extraction System Verification Sampling - 12/98
Arcade, New York**

Parameter (µg/kg)	SC-10A	SC-16A	SC-16A DUP	SC-17A	SC-19A	SC-20A	SC-21A	Field Blank	NYSDEC Cleanup Objective
1,2-Dichloroethene	2 J	--	--	2 J	1 J	21	63	--	300
Methylene Chloride	--	3 J	3 J	3 J	3 J	3 J	4 J	--	100
1,1,2-Trichloroethane	--	1 J	--	--	--	--	--	--	NE
Trichloroethene	53	560	180	320	63	160	630	--	700
Ethylbenzene	--	--	--	--	--	--	18	--	5,500

-- = Not Detected
 NE = Not Established
 J = Detected below method detection limit, but above instrument detection limit. Value is estimated.
 DUP = Duplicate sample

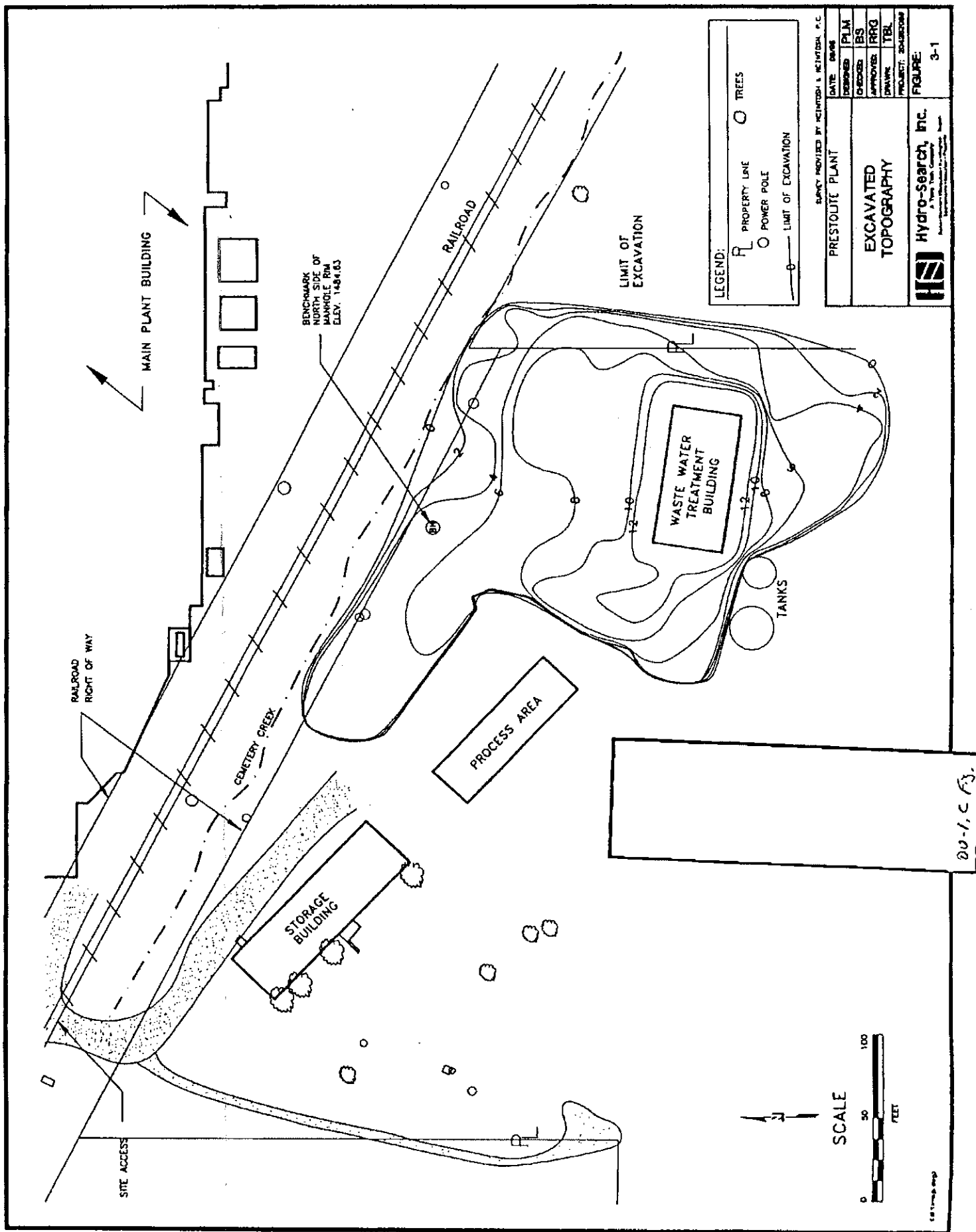
**Table 2. Summary of Volatile Organic Compound Soil Data
Soil Vapor Extraction System Verification Sampling - 12/3/99
Arcade, New York**

Parameter (µg/kg)	SC-22A	SC-22A DUP	SC-23A	SC-24A	SC-25A	SC-26A	SC-27A	SC-28A	Field Blank	NYSDEC Cleanup Objective
1,2-Dichloroethene	--	--	--	--	--	--	--	--	--	300
Methylene Chloride	5 B	6 B	7 B	6 B	8 B	6 B	9 B	20 B	24 B	100
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	NE
Trichloroethene	16	41	33	180	14	23	8	--	--	700
Ethylbenzene	--	--	--	--	--	--	18	--	--	5,500

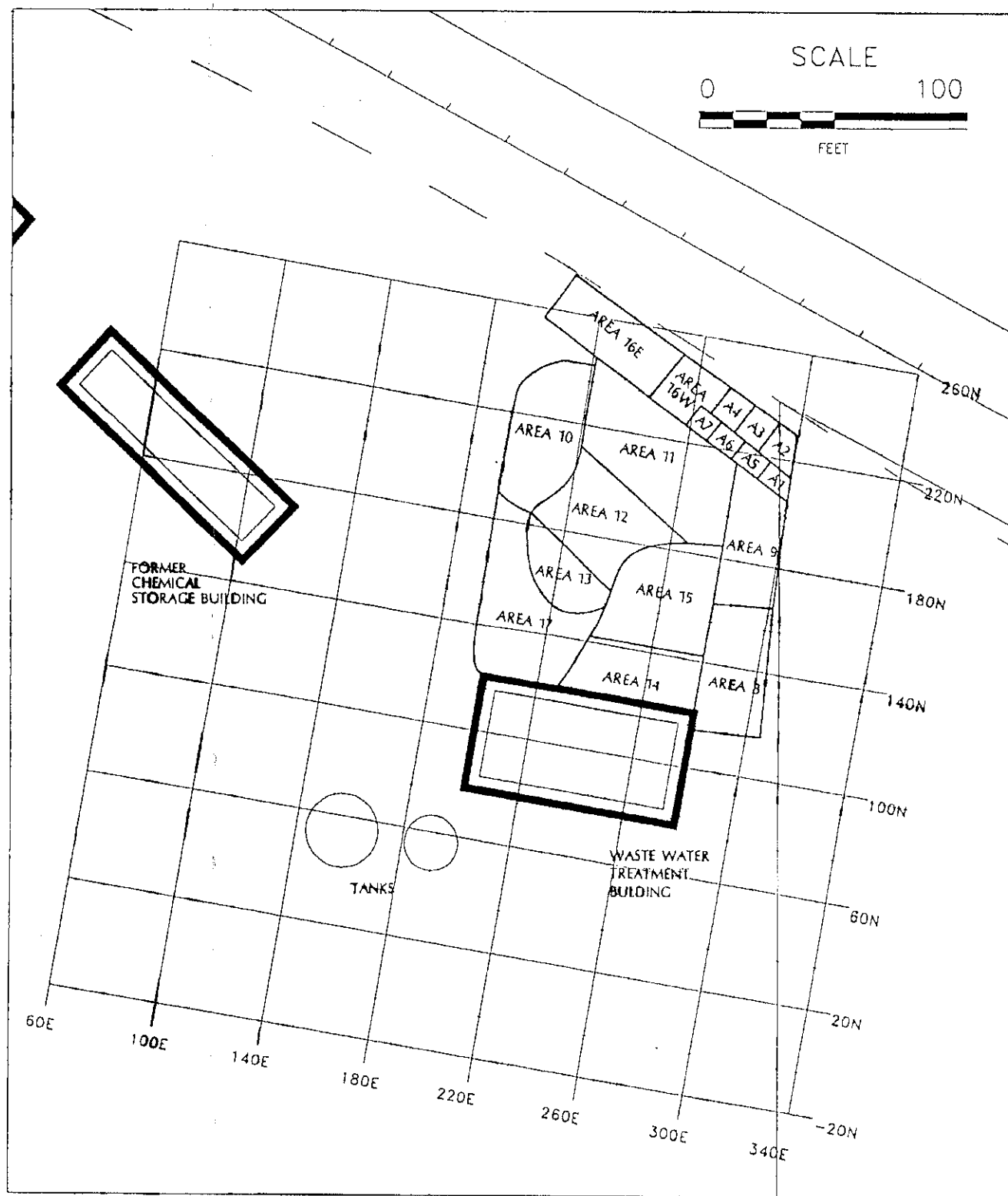
-- = Not Detected
 NE = Not Established
 J = Detected below method detection limit, but above instrument detection limit. Value is estimated.
 DUP = Duplicate sample
 B = Detected in laboratory blank sample

APPENDIX F-3

**WASTEWATER TREATMENT BUILDING AREA
SOIL STABILIZATION**



SCALE



(prestmap.dwg)

PRESTOLITE PLANT		DATE: 6/96
EXCAVATION CONFIRMATION		DESIGNED: BS
SAMPLE COLLECTION AREAS		CHECKED: ARQ
PRIOR TO 8/4/94		APPROVED: TBL
DRAWN: TBL		PROJECT: 2848
HYDRO-SEARCH, INC.		FIGURE: 4-1
A Time Tech Company		
10000 Highway 100, Suite 100, Houston, Texas 77060		
(713) 261-1111		

TABLE 4-1

**PRESTOLITE SITE REMEDIATION ANALYTICAL SUMMARIES
EXCAVATION CONFIRMATION SAMPLES**

See text for action levels.
Concentrations in mg/kg
All Failed Sample Locations Were Re-Excavated

SAMPLE ID	DATE	CADMIUM	CHROMIUM	LEAD	PASS/FAIL	COMMENTS
A-1-1	08/11/94	177.00	25.50	33.50	Fail	
A-2-1	08/11/94	172.00	18.70	59.50	Fail	
A-3-1	08/11/94	91.80	18.80	31.90	Fail	
A-4-1	08/11/94	71.60	17.30	38.80	Fail	
A-5-1	08/12/94	129.00	28.00	30.60	Fail	
A-6-1	08/12/94	85.00	16.90	32.00	Fail	
A-7-1	08/12/94	25.50	16.00	30.40	Fail	
A-2-2	08/17/94	4.84	11.00	21.40	Pass	
A-3-2	08/17/94	4.09	11.10	17.50	Pass	
A-1-2	08/17/94	1.22	12.20	20.80	Pass	
A-9-1	08/24/94	25.25	12.99	16.56	Pass	
AC-9-1	08/24/94	12.65	15.16	15.13	----	Co-locate
AD-9-1	08/24/94	0.27	<0.10	0.41	----	Field blank
A-8-1	08/24/94	140.26	14.84	24.99	Fail	
A-10-1	08/24/94	24.01	13.40	22.03	Pass	
A-11-1	08/24/94	24.73	16.08	15.06	Pass	
A-12-1	08/24/94	348.37	18.67	39.00	Fail	
A-13-1	08/24/94	339.88	58.02	233.89	Fail	
A-14-1	08/25/94	11.77	10.77	13.11	Pass	
A-15-1	08/25/94	45.60	10.10	20.45	Fail	
A-12-2	08/26/94	4.78	13.38	21.80	Pass	
A-13-2	08/26/94	18.80	9.73	10.89	Pass	
A-8-2	08/27/94	1110.00	20.89	48.51	Fail	
AC-8-2	08/27/94	288.29	15.81	30.03	----	Co-locate
AD-8-2	08/27/94	0.24	0.88	0.32	----	Field blank
AV-9-1	08/27/94	225.28	15.98	32.02	Fail	
A-16E-1	08/29/94	58.200	7.73	18.89	Fail	
A-16W-1	08/29/94	168.440	18.06	38.89	Fail	
A-8E-3	08/30/94	48.780	17.47	17.58	Fail	
AV-8-1	08/30/94	302.640	17.08	35.40	Fail	
AV-8-2	08/30/94	11.600	16.57	13.43	Pass	
A-17-1	08/30/94	2.390	14.51	7.75	Pass	
AV-8E-1	08/31/94	331.500	18.59	43.01	Fail	
A-18-1	09/01/94	#####	17.58	58.53	Fail	
AC-18-1	09/01/94	#####	16.66	67.87	----	Co-locate
AD-18-1	09/01/94	0.180	0.80	0.23	----	Field blank
A-15-2	09/07/94	214.270	10.97	27.35	Fail	
A-120-180N-300E-1V	09/07/94	14.820	11.65	14.10	Pass	
A-120-160N-300E-1	09/07/94	15.010	13.42	11.83	Pass	
A-80-100N-300E-1V	09/07/94	345.780	12.55	23.90	Fail	
A-60-100N-300E-1	09/07/94	20.280	10.14	11.87	Pass	
A-20-40N-300E-1V	09/07/94	6.790	12.22	12.62	Pass	
A-20-40N-300E-1	09/07/94	18.480	10.69	12.90	Pass	
A-280E, 40-80N-VW1	09/08/94	107.420	9.02	29.46	Fail	Sample from west portion of excavation wall
A-300E, 60-100N-V2	09/08/94	38.400	8.49	17.15	Pass	
AC-300E, 60-100N-V2	09/08/94	29.990	8.00	13.83	----	Co-locate
AD-300E, 60-100N-V2	09/08/94	>0.05	>0.10	0.08	----	Field blank
A-15-3	09/09/94	21.380	12.14	15.39	Pass	
A-15-1V	09/09/94	7.880	11.01	14.05	Pass	
A-280E, 80-40N-1	09/10/94	114.840	12.45	19.45	Fail	
A-200E, 140-160-N1	09/10/94	4.560	14.02	13.93	Pass	
A-270E, 80-40N-V1	09/10/94	344.180	15.85	40.38	Fail	
A-240E, 70N-G1	09/12/94	432.180	18.30	38.7	Fail	
A-280E, 90N-G1	09/12/94	0.400	13.89	11.52	Pass	
A-285E, 110N-G1	09/13/94	0.100	15.16	12.33	Pass	
A-280E, 0-40N-1	09/13/94	0.180	9.35	10.77	Pass	Includes 280E, 0N
A-280E, 40-80N-1	09/13/94	5.39	10.08	11.48	Pass	
AC-280E, 40-80N-1	09/13/94	4.090	8.37	10.72	----	Co-locate
AD-280E, 40-80N-1	09/13/94	>0.05	>0.10	0.200	----	Field blank
A-120N, 200E-G1	09/13/94	51.580	7.49	24.25	Fail	
A-260E, 20-40N-1	09/14/94	1.760	13.07	10.48	Pass	

TABLE 4-1

**PRESTOLITE SITE REMEDIATION ANALYTICAL SUMMARIES
EXCAVATION CONFIRMATION SAMPLES**

See text for action levels.
Concentrations in mg/kg
All Failed Sample Locations Were Re-Excavated

SAMPLE ID	DATE	CADMIUM	CHROMIUM	LEAD	PASS/FAIL	COMMENTS
A-280E,80-80N-1	09/14/94	361.800	10.47	28.56	Fail	
A-130N,200-240E-1	09/15/94	113.88	11.52	24.41	Fail	
A-220E,40-60N-1	09/15/94	0.46	12.88	10.83	Pass	
A-240E,20-80N-1	09/15/94	0.62	12.35	11.05	Pass	
A-280-280E,120-140N-1	09/15/94	13.9	9.85	16.55	Pass	
A-280E,80N-G1	09/16/94	2.280	13.04	12.97	Pass	
A-220-240E,120-140N-1	09/18/94	0.390	9.87	9.72	Pass	
A-200E,120-140N-1	09/17/94	3.230	12.13	8.89	Pass	
A-280,280,240E-80N-1	09/19/94	8.480	11.52	9.46	Pass	
AC-280,280,240E-80N-1	09/19/94	3.340	11.82	9.74	----	Co-locate
AD-280,280,240E-80N-1	09/19/94	<0.05	0.34	0.11	----	Field blank
A-220,200E-80N-1	09/19/94	103.280	14.43	11.6	Fail	
A-100-120N,180E-1	09/21/94	8.490	10.70	8.05	Pass	
A-100-120N,180E	09/21/94	0.170	8.57	8.75	Pass	
A-100-120N,140E-1	09/27/94	0.130	8.51	7.44	Pass	
A-140N,180-180E-1	09/27/94	0.980	8.94	8.53	Pass	
A-100N,180E-V1	09/27/94	388.630	9.53	29.42	Fail	
A-110N,180E-V1	09/27/94	851.540	8.58	27.95	Fail	
A-140N,140E-G1	09/27/94	0.900	9.00	9.75	Pass	
A-80N,200E-G1	09/28/94	0.570	11.41	9.03	Pass	
A-160N,180E-G1	09/28/94	0.140	9.32	10.34	Pass	
AC-160N,180E-G1	09/28/94	0.090	9.11	9.4	----	Co-locate
AD-160N,180E-G1	09/28/94	<0.05	0.82	<0.05	----	Field blank
A-80N,220E-G1	09/28/94	4.690	11.85	8.73	Pass	
A-240N,240E-280N,220E	10/01/94	0.830	12.36	15.35	Pass	
A-240N,280E-225N,280E	10/01/94	0.460	9.51	12.01	Pass	
A-230N,280-280E-V1	10/03/94	78.250	11.65	31.21	Fail	
A-230N,280-280E-V2	10/03/94	818.660	21.23	60.82	Fail	
A-280N,190E-G1	10/04/94	3.02	5.2	7.93	Pass	
A-220N,300E-1	10/05/94	0.950	7.51	10.9	Pass	
A-240N,180E-G1	10/05/94	0.350	15.41	14.74	Pass	
A-280N,180E-G1	10/05/94	7.850	15.41	15.78	Pass	
A-230N,180E-G1	10/06/94	0.280	12.570	18.390	Pass	
AC-230N,180E-G1	10/06/94	0.460	15.780	18.620	----	Co-locate
AD-230N,180E-G1	10/06/94	<.05	0.500	<0.05	----	Field blank
A-260N,180E-G1	10/06/94	177.010	12.250	22.320	Fail	
A-240N,180E-G1	10/06/94	0.110	8.560	6.370	Pass	
A-260N,180E-G2	10/07/94	655.340	10.24	47.44	Fail	
A-280N,180E-V1	10/08/94	28.150	4.37	7.84	Fail	
A-160N-200E-4FBCF	10/10/94	1.91	8.8	11.91	Pass	From east wall of test pit east of utility corridor
A-260,240N-180E-V1	10/10/94	8.180	5.95	9.82	Pass	
A-280,240N-180E-V2	10/10/94	0.580	4.74	7.09	Pass	
A-240N-180,160E-V1	10/10/94	41.030	8.05	14.01	Fail	
A-240N,180-160E-V2	10/10/94	0.510	5.22	7.31	Pass	
A-280,240N-150E-V1	10/10/94	13.41	7.38	12.01	Fail	
AC-260,240N-150E-V1	10/10/94	20.580	9.28	14.04	----	Co-locate
AD-280,240N-150E-V1	10/10/94	<0.05	0.49	0.2	----	Field blank
A-260,240N-150E-V2	10/10/94	3.880	8.28	8.05	Pass	
A-240N-180,160E-1	10/11/94	0.280	4.29	6.56	Pass	
A-240N-180,160E-V3	10/11/94	1.550	6.57	9.88	Pass	
A-240N-200E-G1	10/11/94	8.400	12.98	15.86	Pass	
A-240N-190E-G1	10/11/94	0.180	7.58	9.12	Pass	
A-220N-180,180E-1	10/11/94	0.440	7.3	11.02	Pass	
A-220-240N,160E-1	10/18/94	2.300	8.4	22.87	Pass	
A-220N,190E-G1	10/18/94	1.610	7.28	13.26	Pass	
A-200-220N,180E-1	10/18/94	27.210	9.32	15.59	Fail	
A-180-200N,160E-1	10/18/94	0.360	8.88	9.17	Pass	
AC-180-200N,160E-1	10/18/94	0.430	8.59	9.89	----	Co-locate
AD-180-200N,160E-1	10/18/94	<0.05	0.58	0.29	----	Field blank
A-180N,160E-VG1	10/18/94	0.28	4.57	8.09	Pass	
A-180N,160E-VG2	10/18/94	0.13	4.37	6.83	Pass	
A-200-220N,180E-2	10/19/94	0.64	7.34	14.49	Pass	
A-180N,160E-G1	10/20/94	1.09	8.71	14.97	Pass	

TABLE 4-1

PRESTOLITE SITE REMEDIATION ANALYTICAL SUMMARIES
EXCAVATION CONFIRMATION SAMPLES

See text for action levels.

Concentrations in mg/kg

All Failed Sample Locations Were Re-Excavated

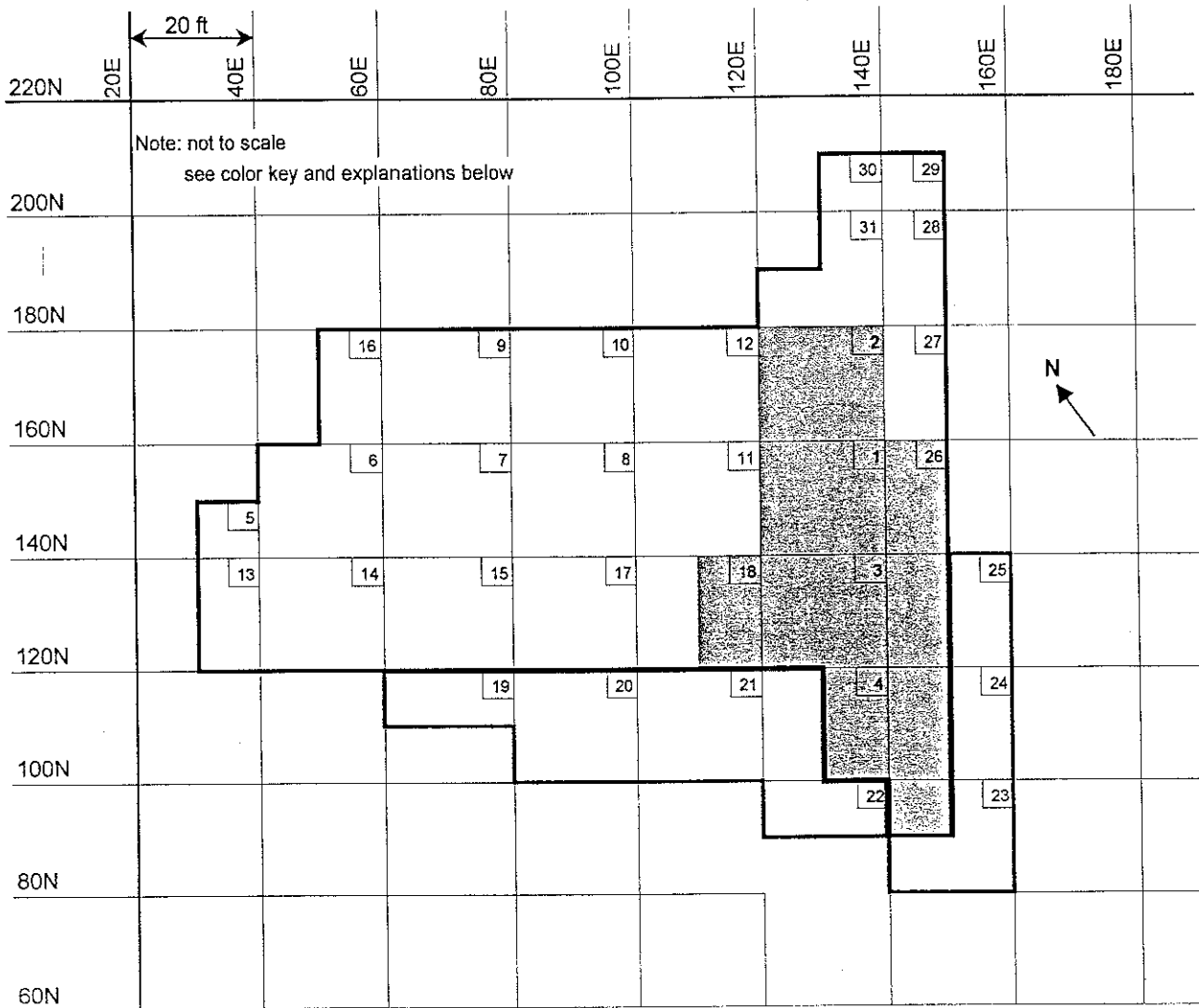
SAMPLE ID	DATE	CADMIUM	CHROMIUM	LEAD	PASS/FAIL	COMMENTS
A-180N,180E-G1	10/20/94	0.89	5.19	7.88	Pass	
A-80N,140E-V1	10/20/94	2.16	6.75	8.65	Pass	
A-90N,180E-V1	10/20/94	29.8	5.68	7.12	Fail	
A-160N,190E-G1	10/20/94	29.8	5.8	7.47	Fail	
A-80N,160E-G1	10/20/94	2.42	7.15	6.78	Pass	
A-200N,190E-G1	10/21/94	4.91	6.08	6.98	Pass	
AC-200N,190E-G1	10/21/94	12.48	5.37	6.13	----	Co-locate
AD-200N,190E-G1	10/21/94	<0.05	0.51	0.12	----	Field blank
A-120N,160E-V1	10/21/94	35.97	12.5	10.69	Fail	
A-90N,180E-V2	10/21/94	6.66	8.43	13.13	Pass	
A-80N,160E,100N,120-14	10/21/94	43.94	8.99	18	Fail	
A-80N,180E-G1	10/21/94	0.81	13.12	13.05	Pass	
A-95N,200E-G1	10/22/94	0.3	9.51	9.32	Pass	
A-80N,160E-G1	10/22/94	0.34	10.32	12.63	Pass	
A-100N,120E-G1	10/22/94	230.59	9.19	14.66	Fail	
A-100N,140E-G1	10/22/94	2.72	9.27	11.45	Pass	
A-100N,160E-G1	10/22/94	6.21	8.6	9.25	Pass	
A-110N,190E-G1	10/25/94	0.33	7.61	8.14	Pass	
AC-110N,190E-G1	10/25/94	0.76	6.65	7.76	----	Co-locate
AD-110N,190E-G1	10/25/94	<0.05	<0.10	<0.05	----	Field blank
AD-110N,190E-G2	10/25/94	<0.0625	<0.0125	0.0125	----	Duplicate blank to ACTS Lab
A-260N,120E-G1	10/24/94	0.31	9.78	13.31	Pass	
A-260N,140E-G1	10/24/94	0.38	11.61	14.5	Pass	
A-120N,190E-G1	10/25/94	0.17	9.94	10.41	Pass	
A-140N,190E-1	10/26/94	2.5	2.41	4.02	Pass	
A-80N,200E-V1	10/26/94	42.15	5.93	8.44	Fail	
A-75N,160E-V1	10/26/94	2.49	7.14	8.93	Pass	
A-90N,120E-V1	10/26/94	5.47	8.15	20.66	Pass	
A-260-280N,80E	10/27/94	1.5	5.63	24.63	Pass	
A-296N,80E,300N,60E-1	10/27/94	26.04	3.14	19.75	Fail	
A-260-280N,100E-1	10/27/94	2.95	10.01	23.8	Pass	
AC-260-280N,100E-1	10/27/94	2.17	8.12	18.86	----	Co-locate
AD-260-280N,100E-1	10/27/94	<0.05	0.7	0.39	----	Field blank
A-260-280N,80E-1	10/27/94	0.44	7.28	21.34	Pass	
A-276N,140E,280N,120E-1	10/27/94	72.09	11.94	47.21	Fail	
A-160-180N,190E-1	10/28/94	0.84	2.56	8.72	Pass	
A-100N,120E-G2	10/28/94	0.36	4.78	7.83	Pass	
A-300N,60E-G1	10/28/94	2.35	4.52	12.72	Pass	
A-280N,120-140E	10/28/94	24.58	7.39	22.04	Fail	
A-300N,80E,295N,100E	10/28/94	118.03	6.57	25.28	Fail	
A-280N,120E	10/31/94	0.81	7.07	15.31	Pass	
A-300N,80E,295N,100E-2	10/31/94	9.26	9.77	48.58	Fail	
A-240N-120E	10/31/94	0.71	30.54	12.7	Fail	
AC-240N-120E	10/31/94	5.4	5.43	12.45	----	Co-locate
AD-240N-120E	10/31/94	<0.05	<0.10	<0.05	----	Field blank
A-240N-120E-2	11/01/94	0.3	7.3	12.73	Pass	
A-240N-120E-V1	11/01/94	0.75	4.92	28.7	Pass	
A-240N-140E	11/01/94	0.44	9.85	17.11	Pass	
A-220N-140E	11/03/94	1.23	8.33	23.11	Pass	
A-300N,80E,295N,100E-3	11/03/94	1.49	9.04	18.22	Pass	
A-60N,175E-V1	11/14/94	8.2	15.58	17.88	Pass	
A-60-100N,320E-V1	11/14/94	423.02	12.63	24.47	Fail	
A-60-100N,320E-V2	11/15/94	8.21	16.64	19	Pass	
A-60-100N,320E-1	11/15/94	3.83	13.28	14.18	Pass	
A-120-160N,315E-V1	11/15/94	20.8	13.09	17.77	Fail	
AC-120-160N,315E-V1	11/15/94	24.67	9.91	25	----	Co-locate
AD-120-160N,315E-V1	11/15/94	<0.05	<0.10	<0.05	----	Field blank
A-120-160N,315E-V2	11/16/94	0.54	11.87	16.96	Pass	
A10-50N,300E-1	11/30/94	15.67	13.98	12.51	Fail	
A10-50N,300E-2	12/01/94	0.57	17.41	16.09	Pass	

Samples: 183

APPENDIX F-4

**FORMER CHEMICAL STORAGE BUILDING SOIL
TREATMENT AREA**

20N



20N

COLOR KEY

Interior Colors (depth of metals treatment)



metals to 12 ft bgs

metals to 8 ft bgs

metals to 4 ft bgs

Border Colors (depth of VOC treatment)



VOCs to 12 ft bgs



VOCs to 8 ft bgs

EXPLANATIONS

The dashed lines represent the 20 ft by 20 ft grids, with the coordinates marked on the top and left edges of the page. Some of the grids are divided into smaller sections to treat various depths, but these sections are not separate grids.

The shaded regions indicate the depths to which metals will be treated.

The border colors indicate the depths to which VOCs will be treated.

PRESTOLITE SITE
ARCADE, NY

BASELINE SURVEY
AND TREATMENT AREA
GRID SYSTEM



HSI
GEOTRANS
A TETRA TECH COMPANY

DATE: 08/04/99

DESIGNED:

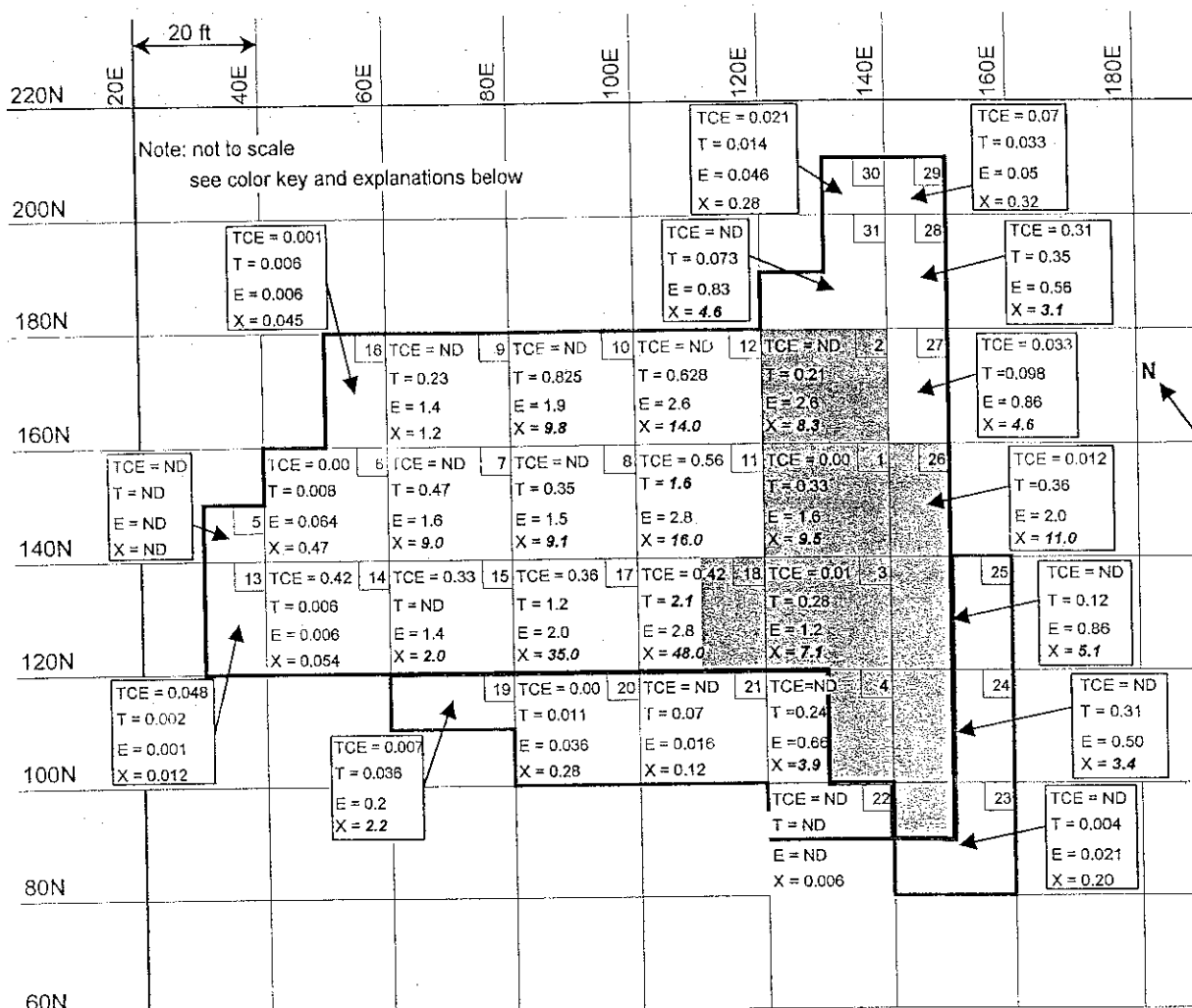
CHECKED:

APPROVED:

DRAWN:

PROJ: P002

Figure 2-1



NOTES: **Bold** results indicate an exceedance in cleanup goals
All VOC laboratory results are displayed in mg/Kg
TCE = Trichloroethylene
T = Toluene

E = Ethylbenzene
X = Total Xylenes
ND = Not Detected
NS = Not Sampled

COLOR KEY

Interior Colors (depth of metals treatment)

 metals to 12 ft bgs
 metals to 8 ft bgs
 metals to 4 ft bgs

Border Colors (depth of VOC treatment)

 VOCs to 12 ft bgs
 VOCs to 8 ft bgs

EXPLANATIONS

The dashed lines represent the 20 ft by 20 ft grids, with the coordinates marked on the top and left edges of the page. Some of the grids are divided into smaller sections to treat various depths, but these sections are not separate grids.
The shaded regions indicate the depths to which metals will be treated.
The border colors indicate the depths to which VOCs will be treated.

CLEANUP GOALS

COMPOUND	GOAL
Trichloroethylene	0.7 mg/kg
Toluene	1.5 mg/kg
Ethylbenzene	5.5 mg/kg
Xylenes	1.2 mg/kg

PRESTOLITE SITE
ARCADE, NY

SPACIAL DISTRIBUTION
OF VOCs CONFIRMATION
SAMPLING DATA



HSI
GEOTRANS
A TETRA TECH COMPANY

DATE: 08/04/99

DESIGNED:

CHECKED:

APPROVED:

DRAWN:

PROJ: P002

Figure 5-2

**Table 4-1: Summary of Depth of Treatment Verifications Sampling
Prestolite Site - Arcade, NY**

	Compound (Cleanup Goal)						
Grid #	Total Cadmium (10 mg/kg)	Total Chromium (18 mg/kg)	Total Lead (30 mg/kg)	Toluene (1.5 mg/kg)	Ethylbenzene (5.5 mg/kg)	Total Xylenes (1.2 mg/kg)	Trichloroethylene (0.7 mg/kg)
20	334.0	15	26.7	ND	0.011	0.027	0.22
21	NA	NA	NA	0.011	0.027	0.22	ND
22	0.15	11.2	9	ND	ND	0.003	ND
23	0.13	13.2	18.2	ND	ND	0.005	ND
24	4.3	9.4	10.6	0.002	0.001	0.007	ND
25	38.9	14.4	40.2	0.023	0.068	0.42	0.001

NOTES: NA = Not analyzed as this data already exists

ND = Not detected

All total metals data displayed in mg/kg

All total VOC data displayed in mg/kg

Bold and highlighted values indicate the result exceeds cleanup goals

**Table 4-2: Summary of Metal Process Confirmation Samples
Prestolite Site - Arcade, NY**

Grid #	Compound (Cleanup Goal)		
	TCLP Cadmium (1.0 mg/L)	TCLP Chromium (5.0 mg/L)	TCLP Lead (5.0 mg/L)
1	0.001	0.0051	0.0025
2	ND	0.0018	0.0024
3	0.074	ND	ND
4	0.032	ND	ND
5	NS	ND	ND
6	NS	0.008	0.064
7	0.17	ND	ND
8	0.083	0.0021	ND
9	0.081	0.0014	0.003
10	0.007	0.003	0.0029
11	ND	0.0031	ND
12	0.001	0.022	0.012
13	NS	0.002	0.001
14	NS	0.006	0.006
15	0.068	0.0034	0.0036
16	NS	0.006	0.006
17	0.02	ND	ND
18	0.042	ND	ND
19	1.4	ND	0.0022
20	0.73	ND	ND
21	4.9	ND	0.0068
22	0.0029	ND	0.0084
23	2.0	ND	ND
24	0.03	ND	ND
25	0.04	ND	ND
26	0.0012	0.0025	0.0016
27	0.009	ND	ND
28	NS	0.35	0.56
29	NS	0.033	0.05
30	NS	0.014	0.046
31	NS	0.073	0.83

NOTE The laboratory results displayed are from the most recent sampling activities

ND = Not detected

All TCLP metal data displayed in mg/L

Bold and highlighted values indicate the result exceeds cleanup goals

**Table 4-3: Summary of VOC Process Confirmation Samples
Prestolite Site - Arcade, NY**

Grid #	Compound (Standard)			
	Toluene (1.5 mg/kg)	Ethylbenzene (5.5 mg/kg)	Total Xylenes (1.2 mg/kg)	Trichloroethylene (0.7 mg/kg)
1	0.33	1.6	9.5	0.003
2	0.21	2.6	8.3	0.001
3	0.28	1.2	7.1	0.013
4	0.24	0.66	3.9	ND
5	ND	ND	ND	ND
6	0.008	0.064	0.47	0.004
7	0.47	1.6	9.0	ND
8	0.35	1.5	9.1	ND
9	0.23	1.4	1.2	ND
10	0.825	1.9	9.8	ND
11	1.6	2.8	16.0	0.56
12	0.628	2.6	14.0	ND
13	0.002	0.001	0.012	0.048
14	0.006	0.006	0.054	0.42
15	ND	1.4	2.0	0.33
16	0.006	0.006	0.045	0.001
17	1.2	2.0	36.0	0.36
18	2.1	2.8	48.0	0.42
19	0.036	0.2	2.2	0.007
20	0.011	0.036	0.28	0.005
21	0.07	0.016	0.12	ND
22	ND	ND	0.006	ND
23	0.004	0.021	0.2	ND
24	0.31	0.34	2.5	ND
25	0.12	0.86	5.1	ND
26	0.36	2	11.0	0.012
27	0.098	0.86	4.6	0.033
28	0.35	0.56	3.1	0.31
29	0.033	0.05	0.32	0.07
30	0.014	0.046	0.28	0.021
31	0.073	0.83	4.6	ND

NOTES: The laboratory results displayed are from the most recent sampling activities

ND = Not detected

All VOC data displayed in mg/kg

Bold and highlighted values indicate the result exceeds cleanup goals

Table 4-4: Summary of QA Sample Data
Prestolite Site - Arcade, NY

Summary of Field Blank Data

Sample ID	Date	VOC Data				Metal Data			
		Toluene	Ethylbenzene	Total Xylenes	Trichloroethylene	Total Cadmium	Total Chromium	Total Lead	TCLP Lead
Field Blank	02/19/99	ND	ND	ND	ND	NA	NA	NA	0.0022
FB-2	04/02/99	ND	ND	ND	ND	NA	NA	NA	NA
FB-3	05/25/99	ND	ND	ND	ND	NA	NA	NA	0.0075
FB	06/26/99	ND	ND	0.0025	ND	0.028	1.6	0.4	ND

Summary of Duplicate Sample Data

Grid #	Date	VOC Data				Metal Data			
		Toluene	Ethylbenzene	Total Xylenes	Trichloroethylene	Total Cadmium	Total Chromium	Total Lead	TCLP Lead
11	4/28/99	NA	NA	NA	NA	NA	NA	NA	ND
(11)	4/28/99	NA	NA	NA	NA	NA	NA	NA	(0.003)
2	4/28/99	0.21	2.6	15	0.001	NA	NA	NA	NA
(2)	4/28/99	(0.16)	(3.7)	(22.0)	(0.01)	NA	NA	NA	NA
15	05/25/99	0.33	1.4	11.0	0.33	NA	NA	NA	NA
(15)	05/25/99	(0.28)	(1.3)	(9.9)	(0.25)	NA	NA	NA	NA
18	06/25/99	NA	NA	NA	NA	NA	NA	NA	ND
(18)	06/25/99	NA	NA	NA	NA	NA	NA	NA	(ND)
24	06/25/99	0.31	0.34	2.5	ND	NA	NA	NA	NA
(24)	06/25/99	(0.079)	(0.50)	(3.4)	(ND)	NA	NA	NA	NA

NOTES: Values in parentheses indicate a duplicate sample
NA = Sample was not analyzed for this compound
ND = Not detected
All total metals and total VOC data displayed in mg/kg
All TCLP data displayed in mg/L

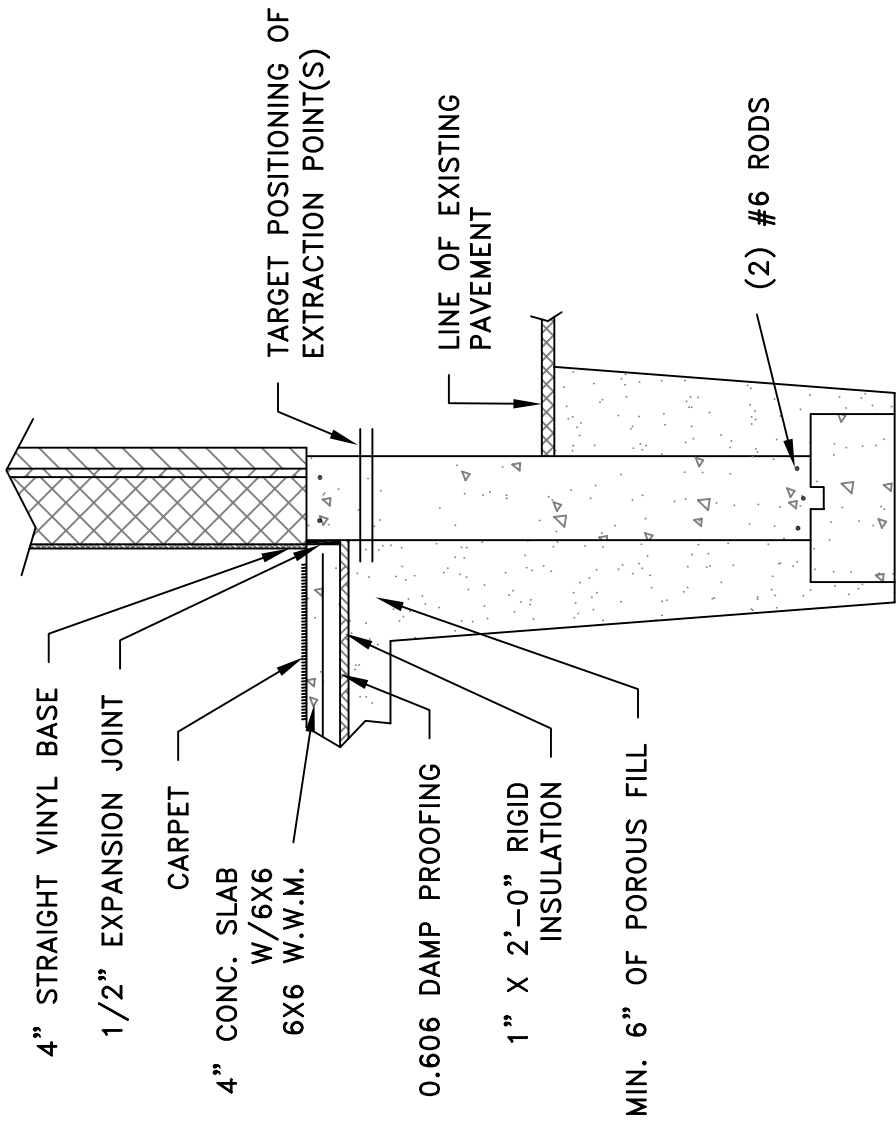
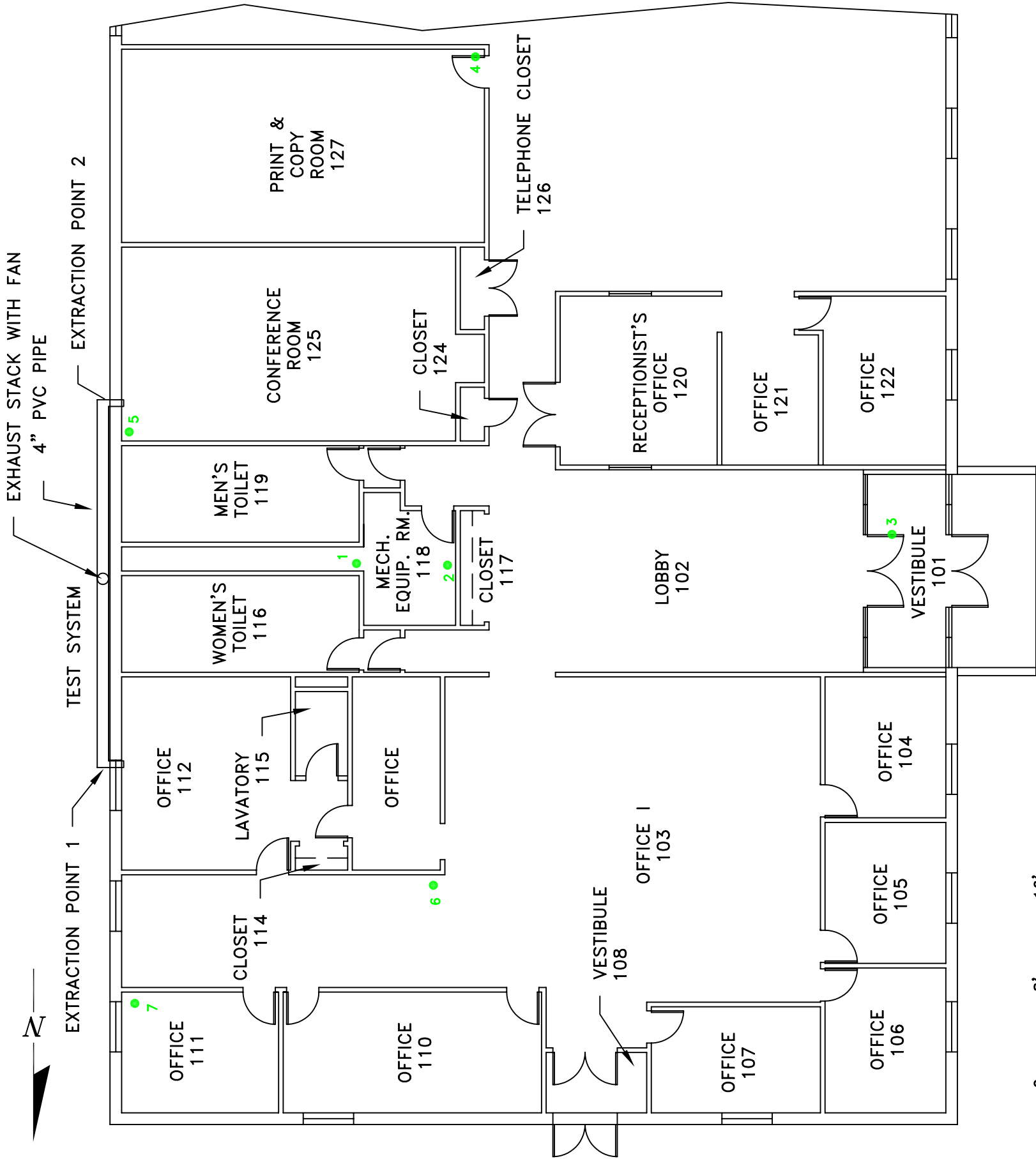
Table 5-1: Estimated Percent Reduction of Xylenes per Grid
Prestolite Site - Arcade, NY

Compound (Standard)	Grid #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Xylenes (1,2)	Initial Levels	875.9	599.01	350.25	126.09	2.02	170.02	972.01	1,848.34	87.18	407.74	2,132.53	710.97	1.19	77.18	154.34	1.77
	Lab Results	9.50	8.30	7.10	3.90	0.0	0.47	4.00	7.70	1.20	9.80	15.00	14.00	0.048	0.054	2.00	0.045
	% Reduction	98.92	98.61	97.97	96.91	100.00	99.72	99.07	99.51	98.62	97.60	99.25	98.03	95.97	99.93	98.70	97.45

Compound (Cleanup Goal)	Grid #	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Xylenes (1,2)	Initial Levels	531.58	759.58	11.00	11.13	84.50	16.89	0.22	21.20	18.22	15.24	12.46	8.84	5.23	5.23	18.09
	Lab Results	35.00	48.00	2.20	0.28	0.012	0.006	0.20	3.40	5.70	7.00	4.60	3.10	0.32	0.28	4.60
	% Reduction	93.42	93.68	80.01	97.48	99.99	99.96	8.68	83.96	72.01	27.82	63.08	64.95	93.88	94.64	74.57

Note: All concentrations in ug/kg
Based on most recent lab results
Bold and highlighted values indicate the result exceeds cleanup goals

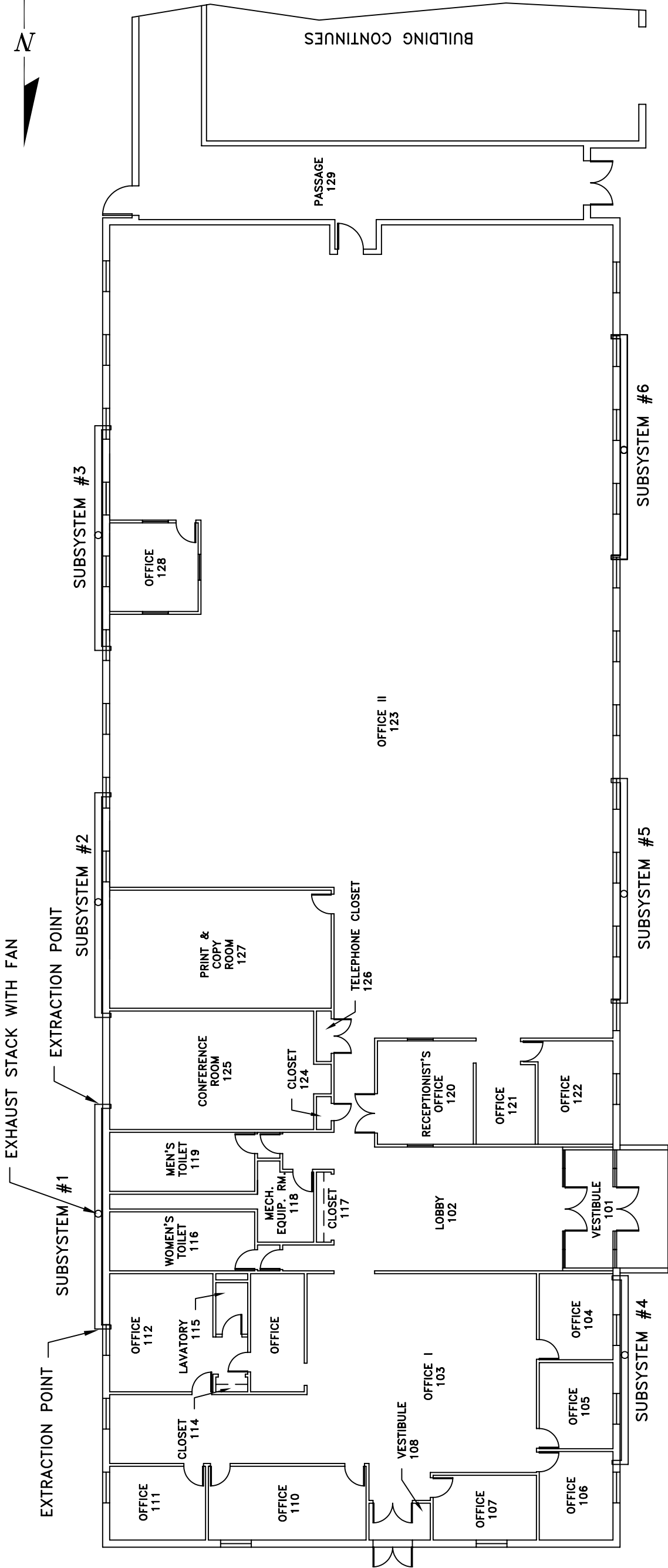
APPENDIX G
**SSD System As-Built Drawings and Inspection
Checklist**



TYPICAL WALL DETAIL
NO SCALE

NOTE: FROM TREVOR W. ROGERS & ASSOCIATES. SHEET 3, JANUARY 28, 1974

ENVIRONMENTAL CONSULTATION & REMEDIATION		PRESSURE EXTENSION FIELD TEST LAYOUT	
K P R G		MOTOROLA, INC. ARCADE, NEW YORK	
KPRG and Associates, Inc.		Scale: SEE BARSCALE	Date: May 20, 2009
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593 14665 West Libon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478		KPRG Project No. 21803.6	
FIGURE 1		FIGURE 1	



NOTE: FROM TREVOR W. ROGERS & ASSOCIATES. SHEET 3, JANUARY 28, 1974



ENVIRONMENTAL CONSULTATION & REMEDIATION		SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT	
K P R G KPRG and Associates, Inc.		MOTOROLA, INC. ARCADE, NEW YORK	
Scale: SEE BARSCALE		Date: May 20, 2009	
KPRG Project No. 21803.6		FIGURE 2	

Table 1. Results of Pressure Extension Field Testing - Prestolite Facility Administration/Office Wing

Test Point	Location	Distance from Extraction Point 1 (Ft)	Distance from Extraction Point 2 (Ft)	Measurement (Inches of Water Column)
1	Mechanical Equipment Room	24	24	-0.011
2	Mechanical Equipment Room	32	30	-0.005
3	Vestibule Door Open/Door Closed	66	66	-0.001/+0.006 to +0.008
4	Print & Copy Room	NA	40	0.000
5	Conference Room	NA	3	-0.060
6	Hallway	27	NA	-0.002
7	Office	17	NA	-0.002

NA - Not Applicable since test point is to other side of another extraction point.

Table 2. Post-System Installation Manometer Readings - Prestolite Facility Administration/Office Wing

	LOCATION OF TEST	MEASUREMENT OF WATER COLUMN (IN)
Subsystem #1	Northeast corner of the building	-0.350
Subsystem #2	Center of East wall of building	-0.670
Subsystem #3	Southeast corner of building	-0.785
Subsystem #4	Northwest corner of building	-0.267
Subsystem #5	Center of West wall of building	-0.460
Subsystem #6	Southwest corner of building	-0.480

See Figure 2 for map of system layout.

Sub-slab Depressurization System Inspection Form
(Administrative Offices Wing of Plant)

Inspector: Name _____
 Date _____

Type of Inspection: Quarterly

	Observation			
SSD Subsystem No.	Vacuum Blowers/Fans (circle one)	Piping Condition (circle one)	Manometer Reading (Inches Water)	Comments
1. Subsystem #1	Operating	Good		
	Not Operating	Poor		
2. Subsystem #2	Operating	Good		
	Not Operating	Poor		
3. Subsystem #3	Operating	Good		
	Not Operating	Poor		
4. Subsystem #4	Operating	Good		
	Not Operating	Poor		
5. Subsystem #5	Operating	Good		
	Not Operating	Poor		
6. Subsystem #6	Operating	Good		
	Not Operating	Poor		

7. Additional Comments: _____

8. Items to be observed in future inspections: _____

9. Recommended maintenance activities: _____



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

SUB-SLAB DEPRESSURIZATION SYSTEM INSTALLATIONS

July 2, 2014

Mr. Chad Staniszewski
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-7226

VIA FEDERAL EXPRESS and E-MAIL

KPRG Project No. 21803.13

Re: Depressurization System Installation Documentation
Prestolite Plant Site – Site No. 961009

Dear Mr. Staniszewski:

On March 20, 2014, KPRG and Associates, Inc. (KPRG), working on behalf of our client Motorola Solutions, Inc. (Motorola Solutions), received a letter from the New York State Department of Environmental Conservation (NYSDEC) approving a proposed Additional SVI Work Plan dated February 28, 2014 to gain access and install sub-slab depressurization systems (SSDSs) for three properties adjoining the Prestolite facility to the north. The three properties have addresses of 358 W. Main Street (Davis Funeral Home), 364 W. Main Street (Ward & Katzuba Law offices) and 372 W. Main Street (Boorman residence). These are shown on Figure 1. KPRG met with all three property owners and was able to gain access to install the depressurization systems. KPRG contracted Certified Radon Systems (CRS) of East Concorde, New York to assist in the design and installation of appropriate sub-slab depressurization systems for the three properties. The installation work occurred at all three locations between June 10 and June 19, 2014. This letter report is intended to fulfill the system installation documentation requirements set forth by the NYSDEC. Each property is discussed separately below.

358 W. Main Street (Davis Funeral Home)

As designed and constructed, a total of four suction points were installed through the basement floor of the building. The four points were connected via a 4-inch diameter, schedule 40 PVC header pipe located overhead within the rafters. The header pipe then exits the building at the southwest corner where a magnehelic manometer was installed along with an in-line Radonaway GP501 fan. The PVC pipe was then run from the fan for venting above the roof line.

Once the complete sub-slab depressurization system was installed and the fan operated for several hours, an Infiltec Micromanometer was used to collect readings from 32 extension field test points drilled within the basement floor to document that the entire footprint of the basement is being properly affected by vacuum. The as-built layout of the system along with the locations of, and measurement results from the extension field tests are included on Figure 2. A review of the extension field test data indicates that the system is working and achieving the goal of depressurizing the floor slab beneath the structure. The operation of this system mitigates the potential vapor intrusion exposure pathway for this property.

364 W. Main Street (Ward & Katzuba Law Offices)

As designed and constructed, a total of two suction points were installed through the basement floor of the building. The two points were connected via a 4-inch diameter, schedule 40 PVC header pipe located overhead within the rafters. The header pipe then exits the building centrally along the west side where a magnehelic manometer was installed along with an in-line Radonaway GP501 fan. The PVC pipe was then run from the fan for venting above the roof line.

Once the complete sub-slab depressurization system was installed and the fan operated on for several hours, an Infiltec Micromanometer was used to collect readings from 14 extension field test points drilled within the basement floor to document that the entire footprint of the basement is being properly affected by vacuum. The as-built layout of the system along with the locations of, and measurement results from, the extension field tests are included on Figure 3. A review of the extension field test data indicates that the system is working and achieving the goal of depressurizing the floor slab beneath the structure. The operation of this system mitigates the potential vapor intrusion exposure pathway for this property.

372 W. Main Street (Boorman Residence)

It is noted that the basement of this residence includes one inaccessible corner on the northwest side of the building which was a storage room completely filled with various wood, debris and other materials. As designed and constructed, a total of three suction points were installed through the basement floor of the building. The three points were connected via a 4-inch diameter, schedule 40 PVC header pipe located overhead within the rafters. The header pipe then exits the building via a chimney that is no longer being used (Mr. Boorman just changed over to electric heating and asked if we could use the chimney for venting rather than drilling through an exterior wall). A manometer and an in-line Radonaway GP501 fan were placed immediately prior to where the header enters the chimney.

Once the complete sub-slab depressurization system was installed and the fan operated for several hours, an Infiltec Micromanometer was used to collect readings from 18 extension field test points drilled within the basement floor to document that the footprint

of the basement is being properly affected by vacuum. The as-built layout of the system along with the locations of, and measurement results from, the extension field tests are included on Figure 4. A review of the extension field test data indicates that the system is working and achieving the goal of depressurizing the floor slab beneath the structure. The operation of this system mitigates the potential vapor intrusion exposure pathway for this property.

We look forward to continuing to work cooperatively with the NYSDEC in addressing soil vapor intrusion issues associated with this site. If there are any questions, please contact either Ms. Terry Lockwood of Motorola Solutions at 602-760-4763 or Mr. Richard Gnat of KPRG at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.

A handwritten signature in dark ink, reading "Richard R. Gnat". The signature is fluid and cursive, with the first name "Richard" and last name "Gnat" being the most prominent parts.

Richard R. Gnat, P.G.
Principal

cc: Ms. Terry Lockwood, Motorola Solutions, Inc.
Mr. Michael Loch, Motorola Solutions, Inc.
Mr. James Bodensteiner, Prestolite Leese Neville

FIGURES



Commercial/Residential

358 Main St.

364 Main St.

372 Main St.

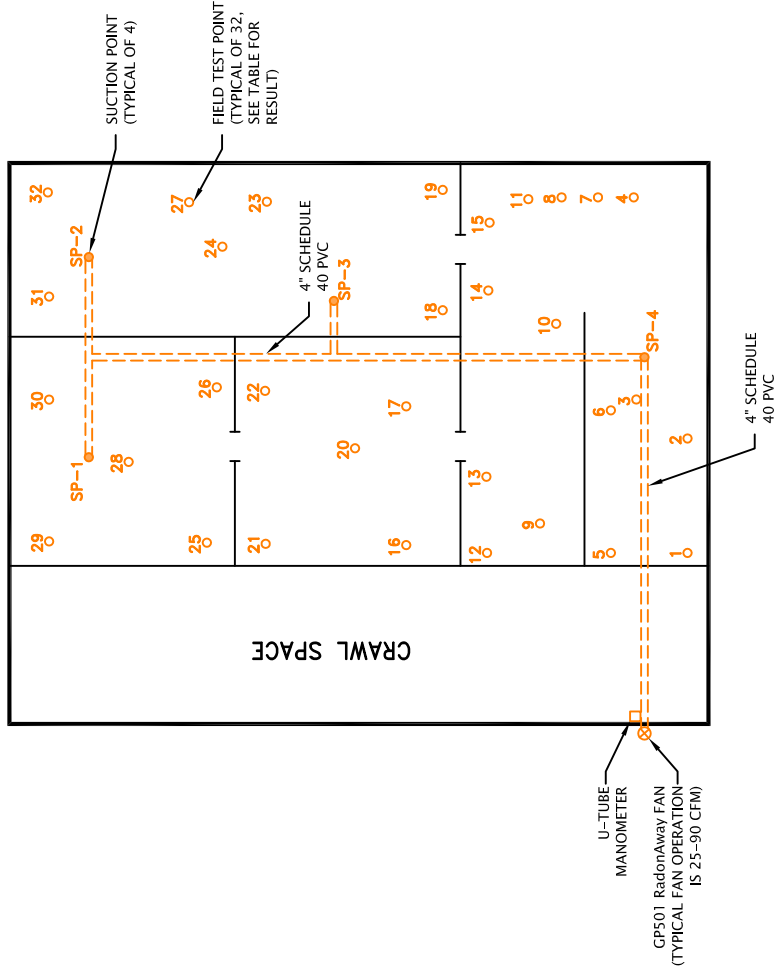
Prestolite

0 150'
APPROXIMATE SCALE

ENVIRONMENTAL CONSULTATION & REMEDIATION		SITE MAP CLOSE-UP WITH NEIGHBORING PROPERTIES	
K P R G KPRG and Associates, Inc. 14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593		Prestolite Leece - Neville Site Arcade, New York	
Scale: 1" = 150'		Date: February 13, 2014	
KPRG Project No. 21803.12		FIGURE 1	



MAIN STREET



SUB-SLAB DEPRESSURIZATION SYSTEM AS-BUILT

LOCATION NUMBER	TEST READING ("WC)	LOCATION NUMBER	TEST READING ("WC)
1	-0.028	17	-0.010
2	-0.049	18	-0.022
3	-0.050	19	-0.018
4	-0.053	20	-0.010
5	-0.020	21	-0.012
6	-0.045	22	-0.013
7	-0.050	23	-0.017
8	-0.040	24	-0.028
9	-0.008	25	-0.054
10	-0.017	26	-0.055
11	-0.026	27	-0.030
12	-0.010	28	-0.012
13	-0.010	29	-0.036
14	-0.018	30	-0.057
15	-0.020	31	-0.031
16	-0.009	32	-0.053

SUB-SLAB DEPRESSURIZATION SYSTEM FIELD TEST RESULTS



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, Inc.

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SUB-SLAB DEPRESSURIZATION SYSTEM AS-BUILT & FIELD TESTS

358 W. MAIN STREET
ARCADE, NEW YORK 14009

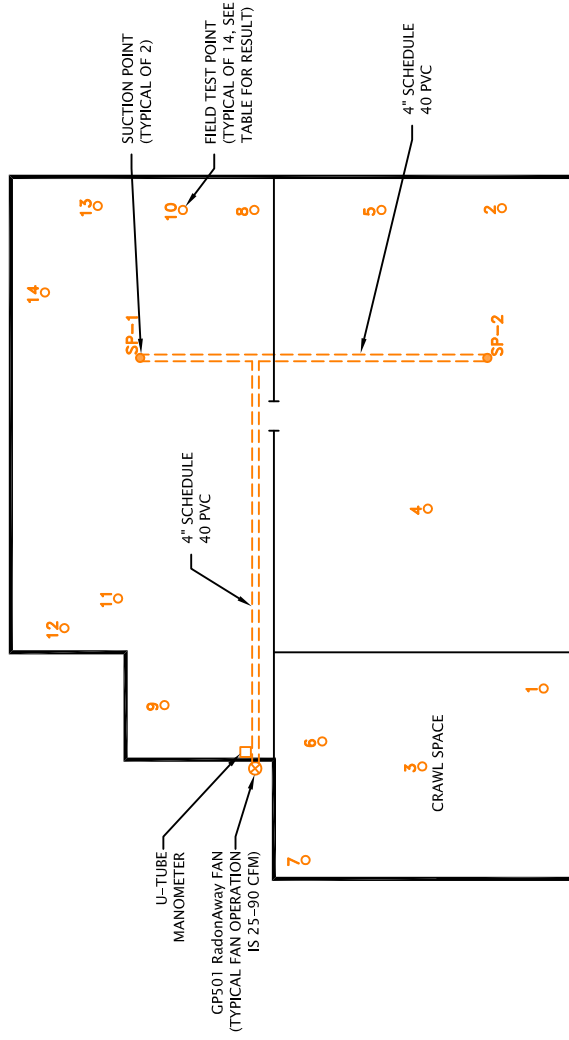
Scale: NTS Date: June 27, 2014

KPRG Project No. 21803.13

FIGURE 2



MAIN STREET



SUB-SLAB DEPRESSURIZATION SYSTEM
PLAN VIEW

LOCATION NUMBER	TEST READING ("WC)
1	-0.180
2	-0.300
3	-0.282
4	-0.248
5	-0.176
6	-0.059
7	-0.057
8	-0.148
9	-0.049
10	-0.161
11	-0.143
12	-0.203
13	-0.146
14	-0.137

SUB-SLAB DEPRESSURIZATION SYSTEM
FIELD TEST RESULTS



**CERTIFIED
RADON SYSTEMS**
lower levels. higher expectations.

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, Inc.

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

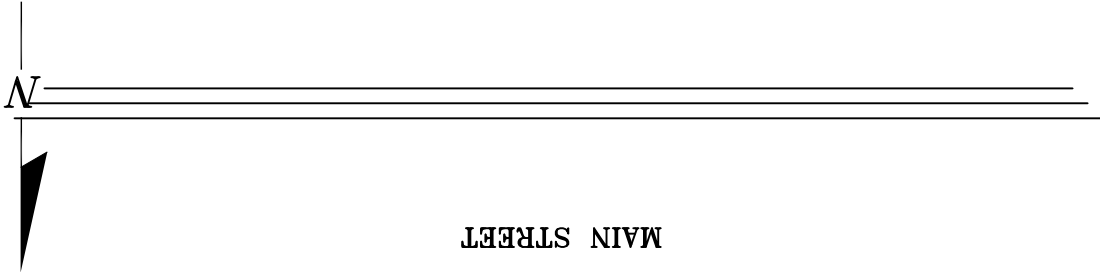
SUB-SLAB DEPRESSURIZATION
SYSTEM AS-BUILT & FIELD TESTS

364 W. MAIN STREET
ARCADE, NEW YORK 14009

Scale: NTS Date: July 2, 2014

KPRG Project No. 21803.13

FIGURE 3



MAIN STREET

SUB-SLAB DEPRESSURIZATION SYSTEM
PLAN VIEW

SUB-SLAB DEPRESSURIZATION SYSTEM
FIELD TEST RESULTS

LOCATION NUMBER	TEST READING ("WC)
1	-0.014
2	-0.012
3	-0.021
4	-0.010
5	-0.025
6	-0.010
7	-0.018
8	-0.009
9	-0.005
10	-0.004
11	-0.031
12	-0.011
13	-0.005
14	-0.013
15	-0.010
16	-0.006
17	-0.017
18	-0.006



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, Inc.

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SUB-SLAB DEPRESSURIZATION
SYSTEM & FIELD TESTS

372 W. MAIN STREET
ARCADE, NEW YORK 14009

Scale: NTS Date: July 2, 2014

KPRG Project No. 21803.13

FIGURE 4

Mitigation System Installation Record

☐ Structure was sampled previously

System Information

System ID:

Site No: 961009

Site Name: Prestolite Plant

Owner Name: Gary Boorman

☒ Owner Occupied

System Address: 372 West Main Street

Telephone: 262-781-0475

City: Arcade Zip: 14009

Alt. Telephone:

Contractor Information

Installer Name: Scott Bacon

Company: Certified Radon Systems

Telephone: 716-713-8098

Building Conditions

Building Type: Single Family Residence

Slab Integrity: ☐ Poor ☒ Average ☐ Good ☐ Excellent

Slab Penetrations: ☐ Sump ☐ Floor drain ☐ Perimeter drain ☒ Other

Describe:

Mid floor

Observed Water: ☐ Dry ☒ Damp ☐ Sump only ☐ Standing

Describe:

System Installation

Installation Type: Sub-Slab Depressurization (Active)

Date Installed: Jun 19, 2014

Slab Thickness (inches): 3 to 5 in.

Subslab Material: Silt

Subslab Moisture: Damp

Number of Suction Points: 3

Number of Fans Installed: 1

☒ Fan #1 Operating

☐ Fan #2 Operating

☐ Fan #3 Operating

Fan Model No(s): RadonAway GP501

Fan Serial No(s):

Final U-Tube Levels: 3.5 in. water

Additional Mitigation Elements (check all that apply):

☐ Drainjer

☐ Membrane

☐ Sealed cracks

☐ New floor

☐ Rain cap

☐ Other

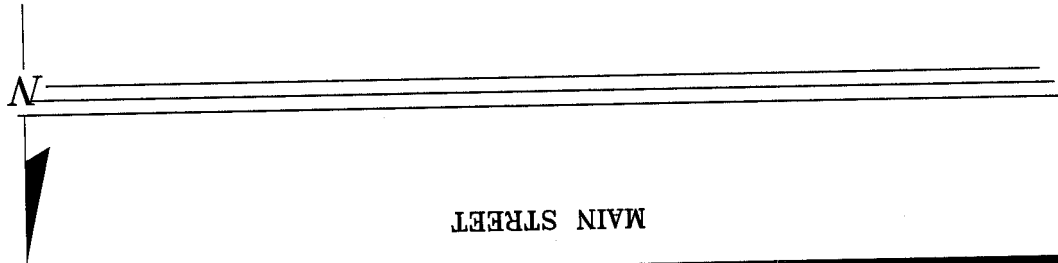
Comments:

Communication Testing

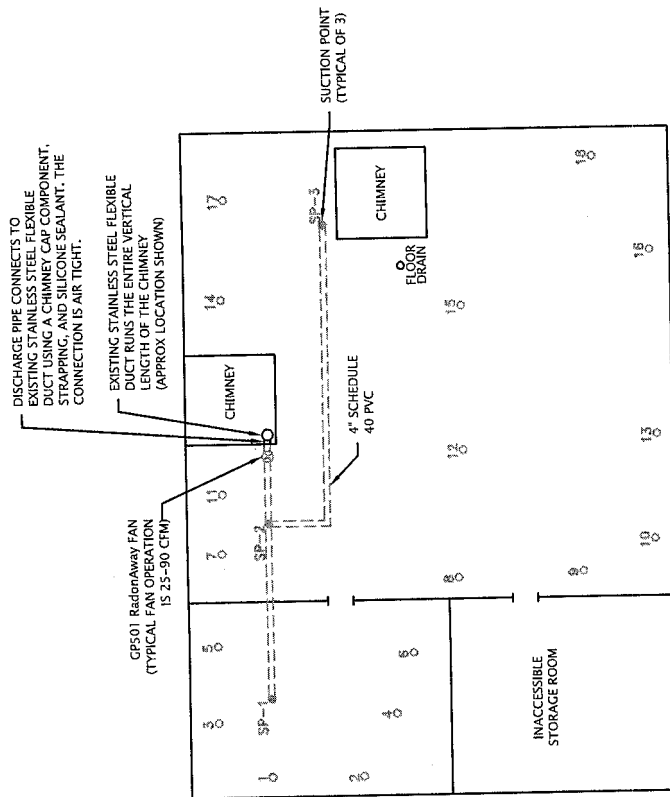
Test Method: Micromanometer Meter Type/Manufacturer: Infiltec

Location	Reading/Result	Dist. From Suction Point (ft)	Passed?
18 points	0.005 to 0.031 in. water	entire slab area	☒
			☐
			☐
			☐
			☐

NORTH	System Sketch (indicate notable features, location of extraction points, and communication test holes)



MAIN STREET



SUB-SLAB DEPRESSURIZATION SYSTEM
PLAN VIEW

LOCATION NUMBER	TEST READING ("WC)
1	-0.014
2	-0.012
3	-0.021
4	-0.010
5	-0.025
6	-0.010
7	-0.018
8	-0.009
9	-0.005
10	-0.004
11	-0.031
12	-0.011
13	-0.005
14	-0.013
15	-0.010
16	-0.006
17	-0.017
18	-0.006

SUB-SLAB DEPRESSURIZATION SYSTEM
FIELD TEST RESULTS

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R C

KPRG and Associates, Inc.

**CERTIFIED
RADON SYSTEMS**
lower levels. higher expectations.

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SUB-SLAB DEPRESSURIZATION
SYSTEM & FIELD TESTS

372 W. MAIN STREET
ARCADE, NEW YORK 14009

Scale: NTS Date: July 16, 2014

KPRG Project No. 21803.13

FIGURE 4

Mitigation System Installation Record

☐ Structure was sampled previously

System Information

System ID:
Owner Name: W. S. Davis, Inc.
System Address: 364 West Main Street
City: Arcade Zip: 14009
Site No: 961009
Site Name: Prestolite Plant
☐ Owner Occupied
Telephone: 585-492-2890
Alt. Telephone: 262-781-0475

Contractor Information

Installer Name: Scott Bacon Company: Certified Radon Systems
Telephone: 716-713-8098

Building Conditions

Building Type: Office/Professional Building

Slab Integrity: ☐ Poor ☐ Average ☒ Good ☐ Excellent
Slab Penetrations: ☐ Sump ☐ Floor drain ☐ Perimeter drain ☒ Other

Describe:

Mid floor

Observed Water: ☒ Dry ☐ Damp ☐ Sump only ☐ Standing

Describe:

System Installation

Installation Type: Sub-Slab Depressurization (Active)

Date Installed: Jun 12, 2014

Slab Thickness (inches): 3 to 5 in.

Subslab Material: Gravel

Subslab Moisture: Damp

Number of Suction Points: 2

Number of Fans Installed: 1

☒ Fan #1 Operating ☐ Fan #2 Operating ☐ Fan #3 Operating

Fan Model No(s): RadonAway GP501

Fan Serial No(s):

Final U-Tube Levels: 1.7 in. water

Additional Mitigation Elements (check all that apply):

☐ Drainjer ☐ Membrane ☐ Sealed cracks ☐ New floor ☐ Rain cap ☐ Other

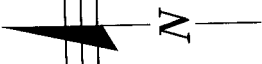
Comments:

Communication Testing

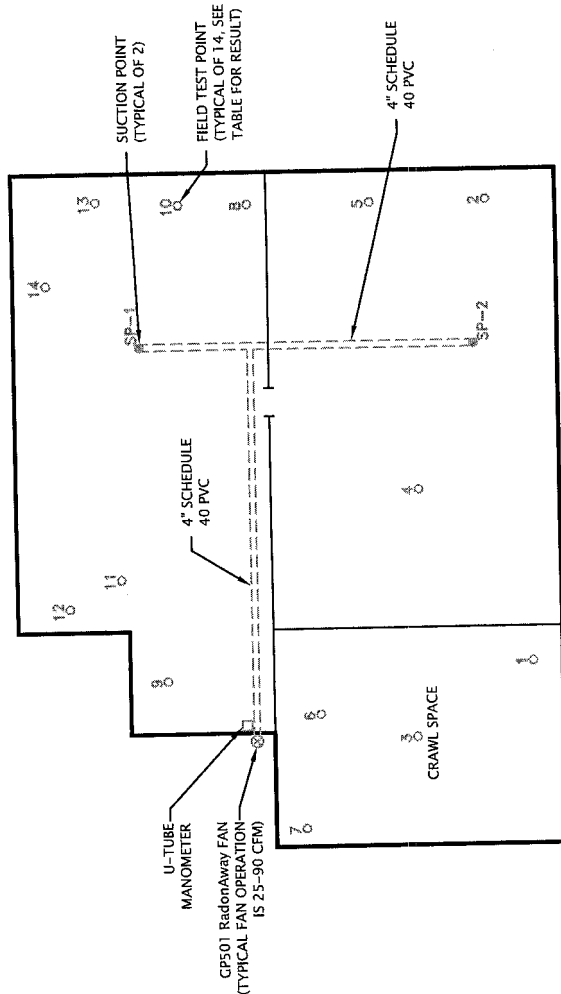
Test Method: Micromanometer Meter Type/Manufacturer: Infiltec

Location	Reading/Result	Dist. From Suction Point (ft)	Passed?
14 points	0.049 to 0.300 in. water	entire slab area	☒
			☐
			☐
			☐
			☐

NORTH	System Sketch (indicate notable features, location of extraction points, and communication test holes)



MAIN STREET



SUB-SLAB DEPRESSURIZATION SYSTEM
PLAN VIEW

LOCATION NUMBER	TEST READING ("WC)
1	-0.180
2	-0.300
3	-0.282
4	-0.248
5	-0.176
6	-0.059
7	-0.057
8	-0.148
9	-0.049
10	-0.161
11	-0.143
12	-0.203
13	-0.146
14	-0.137

SUB-SLAB DEPRESSURIZATION SYSTEM
FIELD TEST RESULTS



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414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SUB-SLAB DEPRESSURIZATION
SYSTEM AS-BUILT & FIELD TESTS

364 W. MAIN STREET
ARCADE, NEW YORK 14009

Scale: NTS Date: July 2, 2014

KPRG Project No. 21803.13

FIGURE 3

Mitigation System Installation Record

☐ Structure was sampled previously

System Information

System ID:

Site No: 961009

Site Name: Prestolite Plant

Owner Name: W. S. Davis, Inc.

☒ Owner Occupied

System Address: 358 West Main Street

Telephone: 585-492-2890

City: Arcade Zip: 14009

Alt. Telephone: 262-781-0475

Contractor Information

Installer Name: Scott Bacon

Company: Certified Radon Systems

Telephone: 716-713-8098

Building Conditions

Building Type: Office/Professional Building

Slab Integrity: ☐ Poor ☒ Average ☐ Good ☐ Excellent

Slab Penetrations: ☐ Sump ☐ Floor drain ☐ Perimeter drain ☒ Other

Describe:

Mid floor

Observed Water: ☐ Dry ☒ Damp ☐ Sump only ☐ Standing

Describe:

System Installation

Installation Type: Sub-Slab Depressurization (Active)

Date Installed: Jun 11, 2014

Slab Thickness (inches): 3 to 5 in.

Subslab Material: Gravel

Subslab Moisture: Damp

Number of Suction Points: 4

Number of Fans Installed: 1

☒ Fan #1 Operating

☐ Fan #2 Operating

☐ Fan #3 Operating

Fan Model No(s): RadonAway GP501

Fan Serial No(s):

Final U-Tube Levels: 1.8 in. water

Additional Mitigation Elements (check all that apply):

☐ Drainjer

☐ Membrane

☐ Sealed cracks

☐ New floor

☐ Rain cap

☐ Other

Comments:

Communication Testing

Test Method: Micromanometer

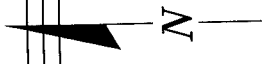
Meter Type/Manufacturer: Infiltec

Location	Reading/Result	Dist. From Suction Point (ft)	Passed?
32 points	0.009 to 0.057 in. water	entire slab area	☒
			☐
			☐
			☐
			☐

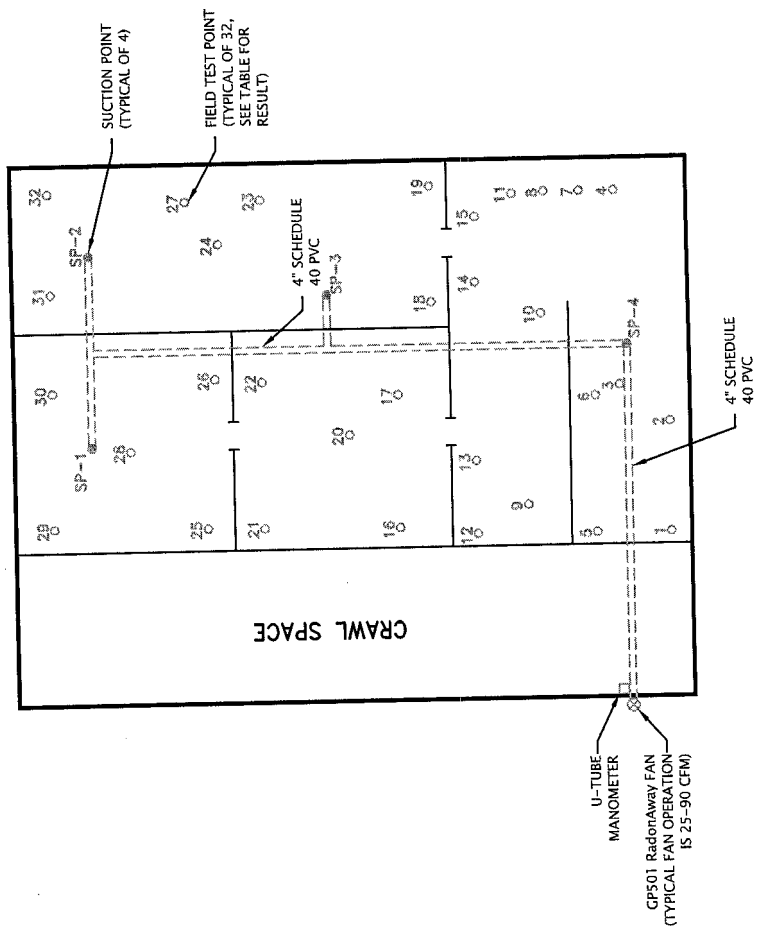
System Sketch

(indicate notable features, location of extraction points, and communication test holes)

NORTH



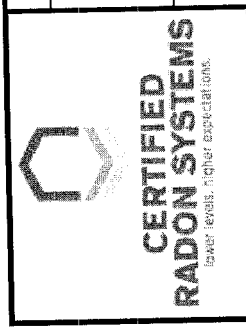
MAIN STREET



SUB-SLAB DEPRESSURIZATION SYSTEM
AS-BUILT

LOCATION NUMBER	TEST READING ("WC)	LOCATION NUMBER	TEST READING ("WC)
1	-0.028	17	-0.010
2	-0.049	18	-0.022
3	-0.050	19	-0.018
4	-0.053	20	-0.010
5	-0.020	21	-0.012
6	-0.045	22	-0.013
7	-0.050	23	-0.017
8	-0.040	24	-0.028
9	-0.008	25	-0.054
10	-0.017	26	-0.055
11	-0.026	27	-0.030
12	-0.010	28	-0.012
13	-0.010	29	-0.036
14	-0.018	30	-0.057
15	-0.020	31	-0.031
16	-0.009	32	-0.053

SUB-SLAB DEPRESSURIZATION SYSTEM
FIELD TEST RESULTS



ENVIRONMENTAL CONSULTATION & REMEDIATION

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KPRC and Associates, Inc.

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0478
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SUB-SLAB DEPRESSURIZATION
SYSTEM AS-BUILT & FIELD TESTS

358 W. MAIN STREET
ARCADE, NEW YORK 14009

Scale: NTS Date: June 27, 2014

KPRC Project No. 21803.13

FIGURE 2

Mitigation System Installation Record

☐ Structure was sampled previously

System Information

System ID:
Owner Name: Prestolite Electric ☒ Owner Occupied
System Address: 400 West Main Street Telephone: 585-492-1700
City: Arcade Zip: 14009 Alt. Telephone: 262-781-0475

Site No: 961009

Site Name: Prestolite Plant

Contractor Information

Installer Name: Scott Bacon Company: Certified Radon Systems
Telephone: 716-713-8098

Building Conditions

Building Type: Manufacturing

Slab Integrity: ☐ Poor ☐ Average ☐ Good ☒ Excellent

Slab Penetrations: ☐ Sump ☐ Floor drain ☐ Perimeter drain ☒ Other

Describe:

Penetrations were through the footer wall from outside of the building, below the slab.

Observed Water: ☒ Dry ☐ Damp ☐ Sump only ☐ Standing

Describe:

System Installation

Installation Type: Sub-Slab Depressurization (Active)

Date Installed: Mar 17, 2009

Slab Thickness (inches): 3 to 5 in.

Subslab Material: Gravel

Subslab Moisture: Damp

Number of Suction Points: 2

Number of Fans Installed: 1

☒ Fan #1 Operating

☐ Fan #2 Operating

☐ Fan #3 Operating

Fan Model No(s): RadonAway GP501

Fan Serial No(s):

Final U-Tube Levels: 0.267-0.785 in.w

Additional Mitigation Elements (check all that apply):

☐ Drainjer

☐ Membrane

☐ Sealed cracks

☐ New floor

☐ Rain cap

☐ Other

Comments:

A total of six (6) sub-systems were installed, each with two (2) extraction points manifolded into one fan (for a total of twelve (12) extraction points and six (6) fans). Final u-tube levels ranged from 0.267 to 0.785 inches of water.

Communication Testing

Test Method: Micromanometer Meter Type/Manufacturer: Infiltec

Location	Reading/Result	Dist. From Suction Point (ft)	Passed?
7 points	0.002 to 0.011 inches/water	entire office area	☒
			☐
			☐
			☐
			☐

NORTH	System Sketch (indicate notable features, location of extraction points, and communication test holes)

NOTES FROM MEETING ON 11/11/81
ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG

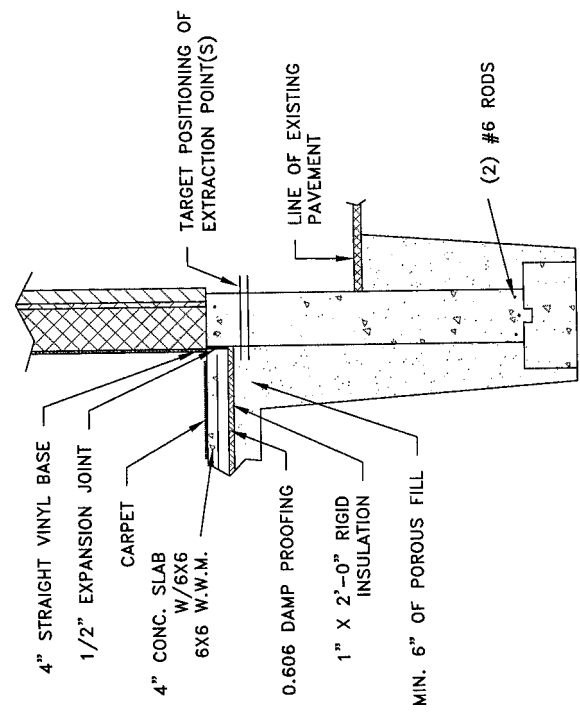
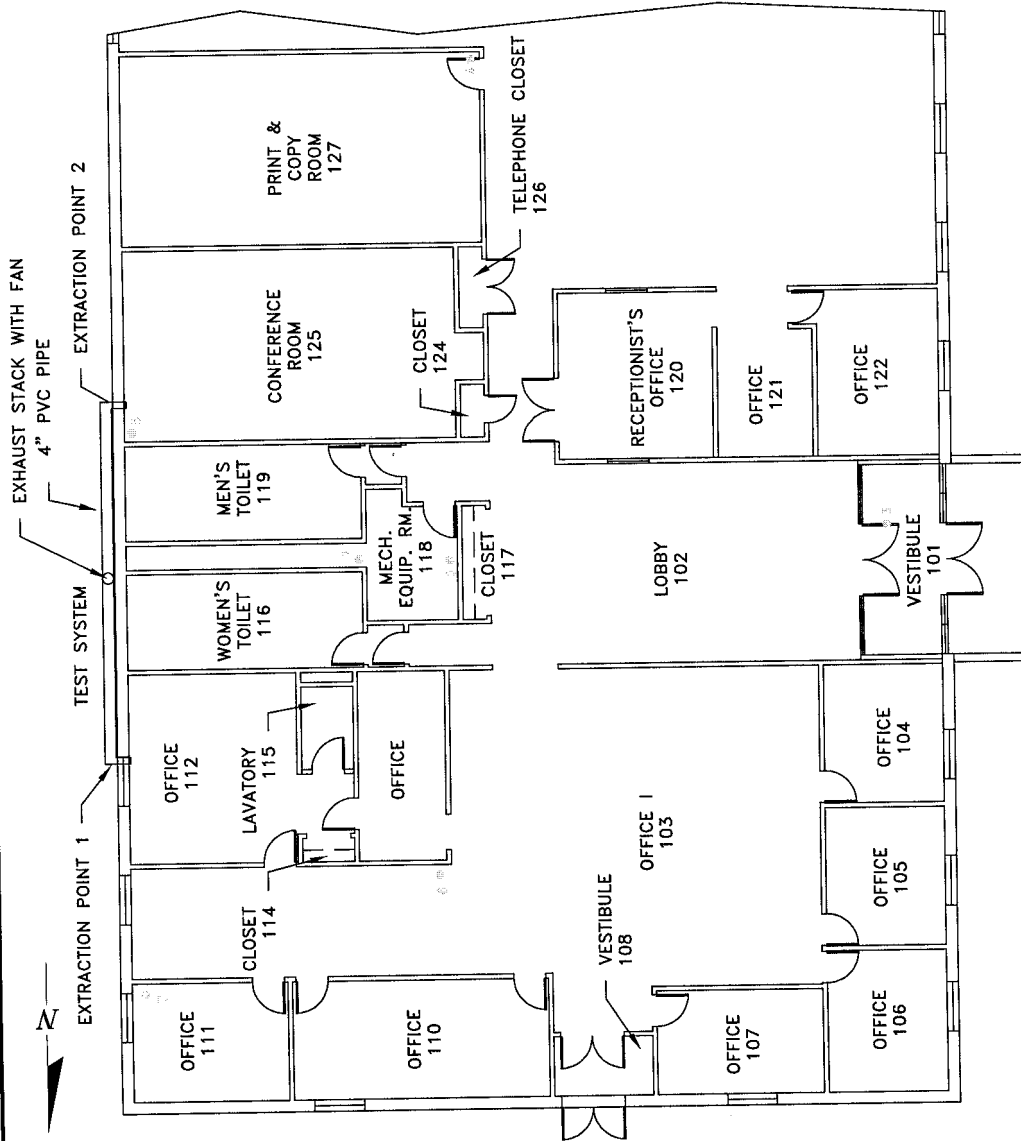
WPC and Associates, Inc.

Scale: SEE RARS/SAFE	Date: May 20, 2009

ARCADE, NEW YORK

Scale: SEE RARS/SAFE	Date: May 20, 2009

KPRG Project No. 21803.6	FIGURE 2



NOTE: FROM TREVOR W. ROGERS & ASSOCIATES, SHEET 3, JANUARY 28, 1974

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G
KPRG and Associates, Inc.

414 Plaza Drive, Suite 100, Westmont, Illinois 60090 Telephone 830-325-1553
14807 West Union Road, Suite 200, Brookfield, Wisconsin 53005 Telephone 262-781-4775 Facsimile 262-781-0778

PRESSURE EXTENSION FIELD TEST LAYOUT	
MOTOROLA, INC. ARCADE, NEW YORK	
Scale: SEE BARSCALE	Date: May 20, 2009
KPRG Project No. 21803.6	
FIGURE 1	

APPENDIX H
Excavation Work Plan

APPENDIX H – EXCAVATION WORK PLAN (EWP)

H-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining impacts, the Site owner or their representative will notify the Department. Currently, this notification will be made to:

Mr. Chad Staniszewski
Regional Hazardous Waste Remediation Engineer
New York State Department of Environmental Conservation
270 Michigan Ave.
Buffalo, New York 14203-2999

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of impacted soil to be excavated and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of constituents of concern, potential presence of grossly impacted media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this EWP,
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120,
- A copy of the contractor's health and safety plan, in electronic format, if it differs from the HASP provided in Appendix I of this document,
- Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.
- Truck transport routes, if applicable.
- A materials on-site reuse plan, if applicable.
- A Community Air Monitoring Plan (CAMP), if applicable.
- An Odor Control Plan, if applicable.
- A Dust Control Plan, if applicable.

H-2 SOIL SCREENING METHODS

A photoionization detector (PID) will be used to assist in field screening of soils for total organic vapors, as appropriate. Visual, olfactory and instrument-based soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially impacted material (remaining impacts). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

H-3 STOCKPILE METHODS

If applicable, soil stockpiles, will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

H-4 MATERIALS EXCAVATION AND LOAD OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, if necessary. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash, if necessary, before leaving the site until the activities performed under this section are complete.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

H-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed, if necessary, prior to leaving the site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Truck transport routes must be developed prior to initiating excavation work. All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This will be the most appropriate route and will take into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

H-6 MATERIALS DISPOSAL OFF-SITE

All soil/fill/solid waste excavated and removed from the site will be treated as impacted and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class

of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and impacted soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

H-7 MATERIALS REUSE ON-SITE

If on-site reuse of materials is contemplated, the proposed chemical criteria for on-site reuse will be included in the pre-excavation notification along with a map showing from where the material will originate and the proposed location of on-site reuse/placement. The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Impacted on-site material, including historic fill and impacted soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

H-8 FLUIDS MANAGEMENT

All liquids to be removed from the site will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering fluids will not be recharged back to the land surface or subsurface of the site, but will be managed off-site.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

H-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system, if disturbed, will be restored in a manner that complies with the Record of Decision. If a demarcation layer is present, it will be replaced to provide a visual reference to the top of the 'Remaining Impact Zone', the zone that requires adherence to special conditions for disturbance of remaining impacted soils defined in this Site Management Plan. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the "Remaining Impacts". A figure

showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan.

H-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially impacted sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). The appropriate standards will be selected as part of the excavation planning process and will be included in the pre-excavation notification. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

H-11 STORMWATER POLLUTION PREVENTION

For larger excavations, procedures for stormwater pollution prevention should be specified. For construction projects exceeding 1 acre, this is required. A summary of the Stormwater Pollution Prevention Plan that conforms to the requirements of NYSDEC Division of Water guidelines and NYS regulations should be included in excavation planning.

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

H-12 CONTINGENCY PLAN

If underground tanks or other previously unidentified impact sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected impacted media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

H-13 COMMUNITY AIR MONITORING PLAN

If during excavation planning it is determined that a Community Air Monitoring Plan (CAMP) will be necessary, a CAMP will be developed specific to the project being planned and submitted as part of the pre-excavation notification. The plan will include, but not be limited to:

- Details of the perimeter air monitoring program;
- Action levels to be used;
- Methods for air monitoring ;
- Analytes measured and instrumentation to be used;
- A figure of the location(s) of all air monitoring instrumentation. A figure showing specific locations must be presented for monitoring stations based on generally prevailing wind conditions, with a note that the exact locations to be monitored on a given day will be established based on the daily wind direction.

If a sensitive receptor, such as a school, day care or residential area is adjacent to the site, a fixed monitoring station should be located at that site perimeter, regardless of wind direction, and discussed in the text.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

H-14 ODOR CONTROL PLAN

Based on the nature of the known impacts associated with this site and experience from past site remediation activities, odors control should not be an issue. If however, a

specific project or excavation plan is expected to encounter materials that may cause an odor issue, an Odor Control Plan must be developed and submitted as part of the pre-excavation notification. The odor control plan must be capable of controlling emissions of nuisance odors off-site. Specific odor control methods to be used on a routine basis must be listed. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

H-15 DUST CONTROL PLAN

If it is determined during pre-excavation planning that dust may be an issue, a dust suppression plan must be developed that addresses dust management during invasive on-site work. It will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

H-16 OTHER NUISANCES

As part of pre-excavation planning, other potential nuisances must be considered and accounted for. Some examples may be as follows:

- A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.
- A plan for all remedial work to ensure compliance with local noise control ordinances.

APPENDIX I
Health and Safety Plan

**SITE HEALTH AND SAFETY PLAN
PRESTOLITE PLANT SITE
ARCADE, NEW YORK**

SECTION I. GENERAL SITE INFORMATION

Site Name: Prestolite Plant Site
400 Main Street
Arcade, New York 14009

Contact Persons and Phone Number: Motorola Solutions (Terry Lockwood) (602)760-4763
KPRG and Associates, Inc. (262) 781-0475
Richard R. Gnat (262) 227-7755 (cell)
Prestolite (James Bodensteiner) (585)-492-1700 x520

NYSDEC Site No.: 961009
NYSDEC Contact: Chad Staniszewski (716)851-7220

SECTION II. DESCRIPTION OF ON-SITE ACTIVITY

Ongoing groundwater monitoring, soil vapor monitoring and other maintenance work as may be required for the site. This Health and Safety Plan provides only a baseline for site work. Each contractor must develop and implement their own safety plan for the specific work to be performed. The plan must meet or exceed the baseline provided in this plan.

SECTION III. SPECIFIC SITE INFORMATION

Type of Site

Check all Appropriate:

☒	Active	☐	TSDf
☐	Inactive	☐	R & D Facility
☒	Industrial Facility	☐	Commercial Property
☐	Vehicle Maintenance	☐	Other (Specify)

Release History

No remaining evidence of leaks or soil impacts ()
Suspected or known leaks and soil impacts ()
Known groundwater and soil impacts (X)

Background and Description of any Previous Investigations or Incidence:

Active manufacturing facility for electronic auto/truck parts. Detailed site characterization and remediation work was performed from 1991 through 2008. For additional detail, refer to Section 1.2.2 of Site Management Plan.

SECTION IV. POTENTIAL HEALTH AND SAFETY HAZARDS

Physical Hazards of Concern:

1. Heavy equipment/drill rigs
 - Physical injury and trauma resulting from moving machinery
 - Slip, trip, fall
2. Groundwater/Vapor Sampling
 - Slip, trip, fall
 - Insect bites (wasp/bee nests inside protective casings)
3. Weather Extremes
 - Cold – frost bite
 - Hot – Heat stress/stroke
 - Flash flooding near creeks

Chemical Hazards:

Refer to Table in Attachment 1.

Symptoms of overexposure to target Compounds:

Refer to Table in Attachment 1.

SECTION V. METHODS TO CONTROL POTENTIAL HEALTH AND SAFETY HAZARDS

Monitoring Instrumentation:

- ☐ Organic Vapor Analyzer
- ☒ Photoionization Detector (use during drilling; not required for sampling)
- ☐ Hydrogen Sulfide Meter
- ☐ Detector Tubes (specify)
- ☐ Explosimeter
- ☒ Dust Monitors (use during excavation work, if deemed necessary)

The above instrumentation will be maintained and calibrated in accordance with manufacturer's recommendations.

Photoionization Detector

Ambient readings >5 ppm Utilize respirator protection

Dust Monitors

Action levels to be determined based on nature and location of excavation work.

Personal Protective Equipment Required for Activities:

1. Hard hat (drilling only)
2. Safety glasses/goggles
3. Steel toed boots
4. Coveralls (optional)
5. Hearing protection (muffs or ear plugs), if required
6. Uncoated tyvek coveralls (if required)
7. Latex or nitrile (inner) gloves
8. Half face twin respirator with organic cartridges (if ambient concentrations of volatile organic compounds warrant).

Other Safety Considerations:

1. In case of severe cold weather, use proper insulated gloves and layered clothing.
2. In case of extreme hot weather – Drink plenty of water or fluids with electrolytes. Do not overexert. Take breaks in shady area as necessary. Protect against sun rays.
3. In vicinity of creek, be aware of potential fast rises in water levels associated with precipitation events.
4. Check well protective casings for wasp/bee nests prior to opening. Spray with insecticide as needed.

Site Control Measures:

During drilling or excavation/cover maintenance work, the perimeters of the work zones will be marked by use of an appropriate physical barrier. Utility locates must be performed prior to any intrusive work.

SECTION VI. EMPLOYEE TRAINING/MEDICAL REQUIREMENTS

All site workers associated with intrusive site investigation work, groundwater monitoring or excavations through residually impacted portions of the site shall be trained and shall subscribe to a medical monitoring program as required to comply with OSHA 29CFR 1910.120.

SECTION VII. EMERGENCY INFORMATION

Emergency Contact:

Fire/Rescue/Police: 911

One Call Center (utility): (800)272-4480

Hospital: Bertrand Chaffee Hospital
224 E. Main Street
Springville, NY 14141
(716) 592-2871

See Attachment 2 for Route to Hospital Map and Directions

NYSDEC Project Manager: Chad Staniszewski (716) 851-7220

Client: Terry Lockwood (602) 760-4763 (office)
(602) 617-8563 (cell)

Prestolite Plant: James Bodensteiner (585)492-1700 x520

SECTION VIII. PLAN APPROVAL

Plan prepared by:

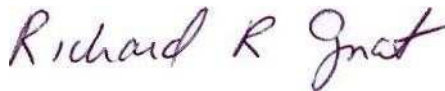


January 31, 2013

Signature

Date

Plan approved by:



January 31, 2013

Signature

Date

SECTION IX. PERSONAL CERTIFICATION

The undersigned project personnel certify the following:

1. I have read and understand this Health and Safety Plan.
2. I will abide by the provisions of the Health and Safety Plan.
3. I am in compliance with the requirements outlined within 29CFR 1910.120.

_____ Name	_____ Date	_____ Name	_____ Date
_____ Name	_____ Date	_____ Name	_____ Date
_____ Name	_____ Date	_____ Name	_____ Date
_____ Name	_____ Date	_____ Name	_____ Date
_____ Name	_____ Date	_____ Name	_____ Date
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_____ Name	_____ Date	_____ Name	_____ Date
_____ Name	_____ Date	_____ Name	_____ Date

ATTACHMENT 1
Summary of Exposure Limits and Toxicity Data

SUMMARY OF EXPOSURE LIMITS AND TOXICITY DATA

Primary Substance Detected in Previous Site Investigations	IDLH/PEL- 8 Hr. TWA	Symptoms	Chemical Properties	Target Organs
Trichloroethene (TCE)	1000/100 ppm 25 ppm (10 hr. TWA)	Headache, vertigo, visual distortion, tremors, nausea, vomit, irritation to eyes. (Carcinogenic).	MW: 131 Sol: 0.1 % I.P. 9.47 eV UEL: 41 % LEL: 11 %	Respiratory system, heart, liver, kidneys, skin, central nervous system.
1,1,1-TCA (Methyl Chloroform)	1000/350 ppm	Headache, poor equilibrium, central nervous system depressant, eye irritation, dermatitis, cardiac arrhythmias.	MW: 133 Sol: 0.07 % UEL: 16 % LEL: 7 %	Skin, central nervous system, cardiovascular system, eyes.
Methylene Chloride	5000 ppm/500 ppm 2000 ppm (5 min/2-hr peak) 75 ppm (10 Hr. TWA)	Fatigue, weak, sleepy, light headed, limbs numb, tingle, nausea, eye irritation, vertigo, skin irritation, worsen angina.	MW: 85 Sol: 1.3 % I.P.: 11.35 eV UEL: 19 % LEL: 12 %	Skin, cardiovascular system, eyes, central nervous system.
Xylene	10,000 ppm /100 ppm 100 ppm (10 hr. TWA)	Dizziness, excitement, drowsy, incoordination, staggering, irritation of eyes, nose and throat, corneal vacuolization, vomiting, abdominal pain, dermatitis.	MW: 106 Sol: .00003 % I.P.L 8.56 eV UEL: 7 % LEL: 1.1 %	Central nervous system, eyes, gastrointestinal tract, blood, liver, kidneys, skin.

SUMMARY OF EXPOSURE LIMITS AND TOXICITY DATA

Primary Substance Detected in Previous Site Investigations	IDLH/PEL- 8 Hr. TWA	Symptoms	Chemical Properties	Target Organs
Toluene	2000 ppm/200 ppm 100 ppm (10 hr. TWA)	Fatigue, weak, confusion, euphoria, dizziness, headache, dilated pupils, lacrimation, nervousness, muscle fatigue, insomnia, paresthesia, dermatitis, photophobia.	MW: 92 Sol: 0.05 % I.P. 8.82 eV UEL: 7.1 % LEL: 1.3 %	Central nervous system, liver, kidneys, skin.
Ethyl Benzene	2000 ppm/100 ppm	Irritation to eyes, mucous membrane, headaches, dermatitis, narcosis, coma.	MW: 106 Sol: 0.015 % I.P.: 8.76 eV UEL: 6.7 % LEL: 1.0 %	Eyes, upper respiratory system, skin, central nervous system.
Cyanide	50 mg/m ³ /5 mg/m ³	Asphyxia and death can occur, weak, headache, confusion, nausea, vomit, incoherent respiration, slow, gasping respiration, eye and skin irritation.	MW: 65/49 Sol: 72 %/58 % Not combustible	Central nervous system, cardiovascular system, liver, kidneys, skin.
Chromium	500 mg/m ³ / 1 mg/m ³ 1 mg/m ³ (8 hr. TWA)	Histologic fibrosis of lungs, hexavalent chromium - carcinogenic.	Vary depending on compound	Respiratory system.
Cadmium	40 mg/m ³ / 0.01 mg/m ³ (8 hr. TWA)	Pulmonary edema, dyspnea, cough, tight chest, substernal pain, headache, chills, muscle aches, nausea, diarrhea, anosmia, emphysema, proteinuria, anemia, carcinogenic.	Vary depending on compound	Respiratory system, kidneys, prostate, blood.

ATTACHMENT 2
Map and Directions to Hospital



Trip to:

224 W Main St

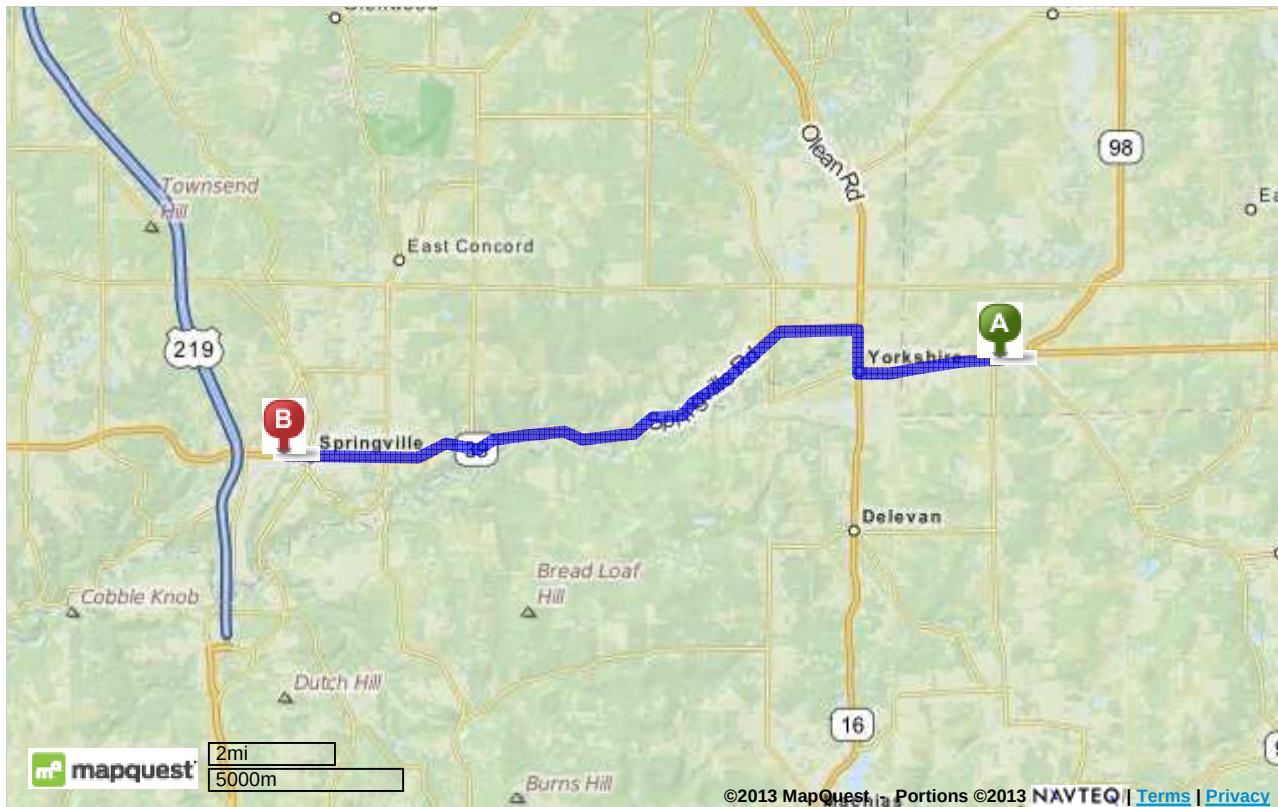
Springville, NY 14141-1018

14.27 miles / 22 minutes

Notes

**400 Main St, Arcade, NY 14009-1109**1. Start out going **west** on **Main St / RT-39** toward **West St.** [Map](#)**1.4 Mi***1.4 Mi Total*2. Stay **straight** to go onto **RT-39.** [Map](#)**1.1 Mi***2.5 Mi Total*3. Turn **right** onto **RT-16 / RT-39.** [Map](#)**0.8 Mi***3.3 Mi Total**RT-16 is 0.3 miles past Old Olean Rd**Mobil is on the corner**If you are on W Yorkshire Rd and reach K St you've gone about 0.1 miles too far*4. Turn **left** onto **RT-39 / Schutt Rd.** [Map](#)**1.4 Mi***4.7 Mi Total**RT-39 is 0.4 miles past Hutchinson Rd**If you reach Genesee Rd you've gone about 0.6 miles too far*5. Turn **slight left** onto **RT-39 / Springville Rd.** Continue to follow **RT-39.** [Map](#)**9.6 Mi***14.3 Mi Total**RT-39 is just past Mill St*6. **224 W MAIN ST** is on the **left.** [Map](#)*Your destination is just past Depot St**If you reach Carolina St you've gone a little too far***224 W Main St, Springville, NY 14141-1018**

Total Travel Estimate: **14.27 miles - about 22 minutes**



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APPENDIX J
Cover Inspection Forms

Soil Erosion Prevention Site Inspection Form **(Waste Water Treatment Facility and Former Chemical Storage Building Area)**

Inspector: Name _____
 Date _____

Type of Inspection: quarterly semi-annual annual severe weather

	Observation			Comments
	Good	Fair	Poor	
1. Vegetative cover (condition, trees or bushes on cap)				
2. Soil stability (erosion control)				
3. Cover integrity (no exposed stabilized soil or ruts)				
4. Surface water drainage (settlement or ponding)				
5. Unauthorized access control (fence, gates, locks, signs vandalism)				
6. Other activities on or adjacent to soil erosion prevention area				
7. Upgradient Storm Water Swale (condition, encroachment of brush, erosion, etc.				

8. Additional Comments: _____

9. Items to be observed in future inspections: _____

10. Recommended maintenance activities: _____

Cemetery Creek Inspection Form

Inspector: Name _____
 Date _____

Type of Inspection: quarterly semi-annual annual severe weather

Item	Observation			Comments
1. Qualitative Stream Flow Estimate	Trickle 3/4 channel	1/4 channel full channel (highlight one)	1/2 channel flood	
2. Condition of Channel Banks (Evidence of erosion)	Good	Fair (highlight one)	Poor	
3. Debris/Flow Blockage (any debris or fallen trees, etc.)	Present		Not Present (highlight one)	
4. Evidence of Scouring (Channel bottom erosion)	Yes		No (highlight one)	
5. Evidence of Sedimentation (Channel bottom filling)	Yes		No (highlight one)	

6. Additional Comments: _____

7. Items to be observed in future inspections: _____

8. Recommended maintenance activities: _____

APPENDIX K
**Groundwater Monitoring Program Summary
Tables**

TABLE K-1

POST - REMEDIATION GROUND WATER MONITORING NETWORK

Well No.	Water Zone Monitored	Rationale
MW-01	Upper	Shallow well downgradient of former subsurface weir structure and mail plant area
MW-01DA	Lower	Deep well downgradient of former subsurface weir structure and main plant area
MW-02A	Upper	Shallow well immediately downgradient of stabilized soil area
MW-03	Upper	Shallow well downgradient of stabilized soil area
MW-06A	Upper	Shallow well immediately downgradient of stabilized soil area
MW-06 DA	Lower	Deep well immediately downgradient of stabilized soil area
MW-07	Upper	Shallow well at property line downgradient of stabilized soil area
MW-09	Upper	Shallow well immediately downgradient of formerly impacted soils around Degreasers 1 & 2
MW-09 D	Lower	Deep well immediately downgradient of formerly impacted soils around Degreasers 1 & 2
MW-12	Upper	Shallow well at the furthest downgradient (northwest) corner of the Prestolite facility
MW-13	Upper	Shallow well along the northwest property line of the Prestolite Facility
MW-14	Upper	Shallow well on northeast corner of property between the plant and the nearest municipal well

TABLE K-2 MONITORING WELL CONSTRUCTION SUMMARY

WELL ID	NORTHING	EASTING	APPROX. DEPTH (ft)	TOP OF PVC CASING ELEV. (ft; MSL)	SCREEN LENGTH (ft)
MW-01	922,969.075	541,118.737	17.9	1476.49	10
MW-01 DA	922,988.025	541,116.466	34.4	1476.22	5
MW-02 A	922,442.508	541,360.832	20.2	1484.18	15
MW-03	922,496.069	541,574.746	15.4	1479.14	10
MW-06 A	922,402.486	541,330.509	20.7	1484.95	10
MW-06 DA	922,398.127	541,326.287	55.4	1484.42	10
MW-07	922,583.682	541,156.871	15.6	1484.02	10
MW-09	922,836.666	541,364.639	20	1478.39	10
MW-09 D	922,836.543	541,359.900	40.5	1478.38	10
MW-12	923,116.861	541,111.987	22.0	1472.45	10
MW-13	923,124.652	541,263.746	21.0	1473.11	10
MW-14	922,876.754	542,152.770	35.5	1479.56	10

Note: All wells are constructed of 2-inch, Schedule 40 PVC.

TABLE K-3 SAMPLING CONTAINERS, PRESERVATIVES AND HOLDING TIMES

MATRIX	PARAMETERS	CONTAINER (NUMBER, SIZE,	PRESERVATION	HOLDING TIME
Ground Water	TCL VOCs	2 - 40 ml glass, TLC	Cool to 4 ⁰ C 2 drip of 1:1 HCl	14 days
	Total cadmium, chromium, lead	1 - liter plastic	HNO ₃ to pH < 2	6 months

TCL - Target Compound List
 VOC - Volatile Organic Compound
 TLC - Teflon Lined Cap

Note: Dissolved metals sample will be field filtered prior to preservation.

APPENDIX L
Boring Logs and Well Construction Summaries

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-1D			
				SAMPLE METHOD: Split Spoon, continuous 0 - 12 feet				SHEET 1 OF 2			
				WATER LEVEL 14.2 TIME 1500 DATE 1/27 CASING DEPTH 18'				DRILLING START FINISH TIME TIME 1330 1830 DATE DATE 1/27/92 1/29/92			
DATUM: msl				ELEVATION: 1473.60							
DRILL RIG: Acker AD-2				SURFACE CONDITIONS: Asphalt parking lot, dry, flat.							
ANGLE: Vertical				BEARING ---							
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ DH R			
2	100, 3 (15%)	ML	Yellowish-Brown (10YR 5/6) Silt, some sand and some gravel	SS							0 0 0
4	7, 4 4, 7 (35%)	SP	Yellowish-Brown (10YR 5/6) Sand, some silt, poorly sorted with some gravel.	SS							3 0 0
6	6, 7 12, 14 (35%)	SP-SM	Yellowish-Brown (10YR 7/8) Sand, some silt, little clay, poorly sorted, moist.	SS							0 0 0
8	6, 4 4, 7 (25%)	ML	Brown (10YR 5/6) Silt, some clay, little gravel, poorly sorted, moist.	SS							0 0 0
10	5, 4 3, 3 NR		Water observed on SS.	SS							0 1 0
12	6, 13 10, 12 (15%)	SP	Dark Gray (5Y 4/1) Sand, some clay, poorly sorted, wet.	SS							0 0 0
14			No sample.								
16	5, 9 12, 19 (40%)	SP	Yellowish-Brown (10YR 4/1) Sand, some clay, poorly sorted, wet.	SS							0 0 0
18			No sample.								
20	11, 34 24, 15 (55%)	ML	Light Gray (5Y 6/1) Silt, some clay with trace gravel and some sand, poorly sorted, very moist.	SS							0 0 0
22			No sample.								
	7, 15 18, 24 (15%)	ML	Gray (5Y 6/7) Silt, some clay, some sand, trace gravel, poorly sorted, wet.	SS							0 0 0

BZ = breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-1D			
								SHEET 2 OF 2			
				SAMPLE METHOD: Split Spoon, continuous 0 - 12 feet				DRILLING			
				WATER LEVEL 14.2				START		FINISH	
				TIME 1500				TIME 1330		TIME 1830	
				DATE 1/27				DATE 1/27/92		DATE 1/29/92	
DATUM: msl				ELEVATION: 1473.60				CASING DEPTH 18'			
DRILL RIG: Acker AD-2				SURFACE CONDITIONS: Asphalt parking lot, dry, flat.							
ANGLE: Vertical				BEARING ---							
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
24			No sample.								
26	17, 24 26, 33 (70%)	ML	Gray (5Y 6/1) Silt, some clay, trace sand and gravel, poorly sorted, wet.		SS						0 0 0
28			No sample.								
30	6, 18 50, 41 (86%)	ML	Gray (5Y 4/1) Silt, some clay with some poorly sorted sand and trace gravel, wet.		SS						0 0 0
32			No sample.								
34	8, 18 33, 29 (75%)	CL	Reddish-Gray (10R 5/1) Clay, some silt, medium plastic, dry.		SS						0 0 0
36			No sample.								
38	8, 14 25, 42 (85%)	CL	Reddish-Gray (10R 5/1) Clay, some silt, stiff, medium plastic, moist.		SS						0 0 0
40			No sample.								
42	9, 16 28, 42 (95%)	CL	Reddish-Gray (10R 5/1) Clay, some silt, stiff, medium, plastic, moist.		SS						0 0 0
44			EOB 44 ft								

'BZ = breathing Zone, DH = Downhole, R = Sample

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-1D

Boring No. X-Ref: MW-1D

Survey Coords: 922,953,740

Elevation Ground Level 1473.60

541,176,160

Top of Casing 1473.40

Drilling Summary:

Total Depth: 44.0 feet
Borehole Diameter: 7 inches
Casing Stick-up Height: 0
Driller: Empire Soils, Inc.
Hamburg, NY
Rig: Acker II

Bit(s): 4.25" Hollow Stem Auger

Protective Casing: Flush Mount

Well Design & Specifications

Basic: Geologic Log X Geophysical Log
Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
<u>0.0 - 29.0</u>	<u>C1</u>	<u>1473.40 - 1444.4</u>
<u>29.0 - 34.0</u>	<u>S1</u>	<u>1444.4 - 1439.4</u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2:

Screen: S1: 2" Sch 40 FJT PVC with 0.010
inch slot

Filter Pack: Sand 35.0 feet to 27.0 feet

Grout Seal: Portland Type I - bentonite
grout 24.0 feet to surface

Bentonite Seal: Bentonite pellets
27.0 feet to 24 feet

Comments: Slug tested 2/6/92

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	<u>1/27</u>	<u> </u>	<u>1/28</u>	<u>0955</u>
	<u>1/28</u>	<u>0800</u>	<u>1/28</u>	<u>1800</u>
	<u>1/19</u>	<u>0800</u>	<u>1/29</u>	<u>1630</u>
Casing:	<u>1/29</u>	<u>1435</u>	<u>1/29</u>	<u>1500</u>
Filter Placement:	<u>1/30</u>	<u>0810</u>	<u>1/30</u>	<u>0840</u>
Cementing:	<u>1/30</u>	<u>0900</u>	<u>1/30</u>	<u>1000</u>
Development:	<u>2/02</u>	<u>0900</u>	<u>2/02</u>	<u>1110</u>
3' Bentonite:	<u>1/30</u>	<u>0840</u>	<u>1/30</u>	<u>0900</u>

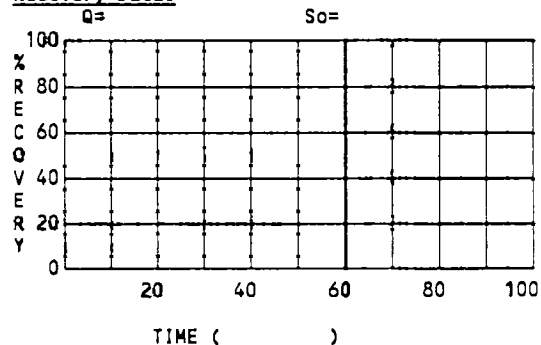
Well Development:

Bailed 25 gallons (5.6 casing volumes)
1/31, TD = 34.35 feet, WL = 7.55 feet.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
<u>1058</u>	<u>7.30</u>	<u>320</u>	<u>11.8</u>
<u>1105</u>	<u>7.31</u>	<u>320</u>	<u>11.8</u>
<u>1110</u>	<u>7.41</u>	<u>320</u>	<u>11.8</u>

Recovery Data:



SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-30			
				SAMPLE METHOD: Split Spoon, continuous 0 to 12 feet				SHEET 1 OF 3			
				WATER LEVEL TIME 2.90 3.25 3.4 DATE 1356 1015 1530 2/06 2/09 2/12				DRILLING START TIME 0830 FINISH TIME 0915 DATE 2/03/92 2/04/92			
DATUM: msl ELEVATION: 1476.64				CASING DEPTH 61.4 --- ---							
DRILL RIG: Acker II				SURFACE CONDITIONS: Low area of asphalt - paved drive near							
ANGLE: Vertical BEARING ---				metal recycling bins, some oily staining on asphalt.							
SAMPLE HAMMER TORQUE FT.-LBS											
								TEST RESULTS			
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								PID (ppm) BZ DH R			
2	23, 82 79, 43 (80%)	SP	Asphalt = 4 inches thick, Yellowish-Brown (10YR 5/4) over fill composed of sand and gravel, some clay, poorly sorted, subangular, dry.	SS							0 0 0
4	12, 62 100/6" (20%)	SP	Same as above, no asphalt.	SS							0 0 0
6	0, 9 100/4" (30%)	CL	Yellowish-Brown (10YR 5/4) Clay, some sand with some gravel. Poorly sorted, subangular, Clay is plastic, moist.	SS							0 0 0
8	10 50/.6 44, 40 (20%)	SC	Dark Yellowish-Brown (10YR 4/6) Clay, some sand and gravel, poorly sorted and subangular, moist.	SS							0 0 2
10	25, 33 29, 36 (35%)	SC	Same as above, moist.	SS							0 5 0
12											
14	8, 12 18, 31 (30%)	GP	Olive Brown (2.5Y 4/4) Sand and gravel, sand is well sorted, gravel is poorly sorted and subangular. Trace clay, wet.	SS							0 0 0
16			Gravels and cobbles with some thin layers of clay. (No sample collected)								
18	17, 20 20, 22 (55%)	ML	Grayish-Brown (10YR 5/2) Silt, some clay with trace well rounded, poorly sorted gravel, clay is stiff and brittle, wet.	SS							0 0 0
20											
22	19, 20 12, 17 (15%)	ML	Same as above, wet.	SS							0 0 0

BZ = breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-3D	
								SHEET	
				SAMPLE METHOD: Split Spoon, continuous 0 to 12 feet				2 OF 3	
								DRILLING	
				WATER LEVEL				START	FINISH
				TIME				TIME	TIME
				DATE				DATE	DATE
DATUM: msl				ELEVATION: 1476.64				2/03/92	2/04/92
DRILL RIG: Acker II				SURFACE CONDITIONS: Low area of asphalt - paved drive near					
ANGLE: Vertical				BEARING --- metal recycling bins, some, oily staining on asphalt.					
SAMPLE HAMMER TORQUE				FT.-LBS					
								TEST RESULTS	
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								PID (ppm)	
								BZ	
								DH	
								R	
24	8, 12 15, 18 (65%)	ML	Dark Grayish Brown (2.5Y 4/2) Silt, some clay, wet.	SS					0 0 0
26									
28	8, 15 20, 38 (35%)	ML	Same as above, wet.	SS					0
30									
32	22, 22 24, 100/.1' (70%)	ML	Same as above, wet.	SS					0 0 0
34									
36	30, 25 29, 31 (85%)	ML	Same as above, very moist.	SS					0 0 0
38									
40	19, 20 25, 24 (75%)	ML	Dark Grayish-Brown (2.5Y 4/2) Silt, some sand, grading to coarse subrounded gravel, wet.	SS					
42									
44	27, 37 35, 48 (55%)	SM	Dark Grayish-Brown (2.5Y 4/2) Sand, some silt, poorly sorted gravel, wet.						
46				SS					0 0 0

BZ = breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-3D			
				SAMPLE METHOD: Split Spoon, continuous 0 to 12 feet				SHEET 3 OF 3			
				WATER LEVEL TIME DATE				DRILLING START FINISH			
				2.90 3.25 3.4 1356 1015 1530 2/06 2/09 2.12				TIME 0830 0915			
DATUM: msl				ELEVATION: 1476.64				DATE 2/03/92			
DRILL RIG: Acker II				SURFACE CONDITIONS: Low area of asphalt - paved drive near metal recycling bins, some oily staining on asphalt.				DATE 2/03/92			
ANGLE: Vertical				BEARING ---				DATE 2/03/92			
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ DH R			
48	45, 38 47, 43 (75%)	SM	Same as above, wet.	SS							0 0 0
50											
52	100/ 0.52' (100%)	SM	Same as above, moist.	SS							0 0 0
54											
56	48, 59 58, 51 (30%)	SM	Grayish-Brown (2.5Y 4/2) Sand, some silt with poorly sorted, well rounded gravel, wet. Some of the gravel is Reddish-Brown.	SS							0 0
58											
60	7, 12 18, 26 (65%)	CL	Dark Reddish-Gray (5YR 4/2) Clay, some silt, plastic, moist.	SS							0
62			E08 = 62 ft								
64											

BZ = breathing Zone, DH = Downhole, R = Sample

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-30

Boring No. X-Ref: MW-30

Survey Coords: 922,488,208

Elevation Ground Level 1476.64

541,574,327

Top of Casing 1476.19

Drilling Summary:

Total Depth: 62.0 feet

Borehole Diameter: 6 inches

Casing Stick-up Height: _____

Driller: Empire Soils, Inc.

Hamburg, NY

Rig: Acker II

Bit(s): Hollow Stem Auger

Protective Casing: Flush Mount

Well Design & Specifications

Basic: Geologic Log X Geophysical Log _____
Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
<u>0.0 - 51.0</u>	<u>C1</u>	<u>1476.19 - 1425.2</u>
<u>51.0 - 61.0</u>	<u>S1</u>	<u>1425.2 - 1415.2</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2: _____

Screen: S1: 2" Sch 40 FJT PVC, 0.010-inch slot

Filter Pack: 10x20 mesh silica sand
62.0 to 49.0 feet

Grout Seal: Portland Type I - bentonite
grout 46.0 feet to surface

Bentonite Seal: Bentonite pellets
49.0 feet to 46.0 feet

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	2/03	0830	2/04	0915
Casing:				
Screen & Riser	2/04	0935	2/04	0940
Filter Placement:	2/04	1530	2/05	1630
Cementing:	2/05	0930	2/05	0955
Development:	2/06	1356	2/06	1630
Shelby Tube:	2/04	0915	2/04	0930
Bentonite:	2/05	0900	2/05	0915

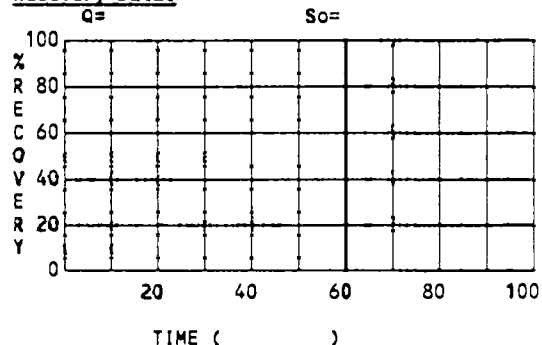
Well Development:

Bailed 60 gallons (6.2 casing volumes)

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
	8.21	280	10.3
	8.28	280	10.1
	8.59	280	10.1

Recovery Data:



Comments: Slug test conducted 2/6/92

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: <u>Hollow Stem Auger</u>				BORING NO. MW-5			
				SAMPLE METHOD: <u>Split Spoon, continuous</u> to 12 feet				SHEET 1 OF 3			
				WATER LEVEL TIME DATE CASING DEPTH				DRILLING START FINISH TIME DATE			
DATUM: msl				ELEVATION: 1563.4				1/29/92 1/30/92			
DRILL RIG: CME 55				SURFACE CONDITIONS: <u>Hill top overlooking plant; snow cover on</u>							
ANGLE: Vertical				BEARING: ---				ground.			
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ DH R			
2	1, 2 4, 4 (50%)	ML-CL	Yellow Brown Silt and Clay, some sand, soft, wet, frozen.	SS							0 0 0
4	4, 5 6, 6 (63%)	ML-CL	As above, little gravel to 3/4", moist.	SS							0 0 0
6	6, 8 6, 5 (58%)	ML-CL	As above, some gravel (angular) to 2/4", stiff, moist.	SS							0 0 0
8	3, 6 7, 8 (79%)	ML	Brown Silt, little sand, little gravel to 3/4"; angular; silt is soft, poorly to moderately sorted, wet.	SS							0 0 0
10	9, 19 24, 29 (92%)	ML	Gray, 8-9 feet - As above, moist. 9-10 feet - Silt, 1/8" thick laminae, fissile, damp.	SS							0 0 0
12	20, 17 19, 19 (58%)	ML	Gray Silt, some sand, little gravel to 7/8", angular subrounded, moderately sorted; parts along horizontal beds, non-plastic, stiff to v. stiff, damp.	SS							0 0 0
14			No sample.								
16	23, 31 27, 30 (38%)	ML	Gray Silt (till), parts along horizontal bedding planes, some sand and gravel clasts, moderately sorted, damp to dry.	SS							0 0 0
18			No sample.								
20	13, 21 26, 31 (88%)	ML	Gray Silt, some parting along horizontal bedding planes, very stiff, some gravel and sand, dry to damp.	SS							0 0 0
22			No sample.								
	8, 15 15, 22 (92%)	ML	Gray Silt, some gravel to 1", poured to subangular, little to some sand, coarse to very fine, moderately sorted, stiff, non-plastic, damp.	SS							0 0 0

BZ = Breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-5			
				SAMPLE METHOD: Split Spoon, continuous to 12 feet				SHEET 2 OF 3			
				WATER LEVEL TIME DATE				DRILLING START TIME FINISH TIME			
				CASING DEPTH				DATE DATE			
DATUM: msl				ELEVATION: 1563.4							
DRILL RIG:				SURFACE CONDITIONS: Hill top overlooking plant; snow cover on ground.							
ANGLE: Vertical				BEARING: ---							
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
24			No sample.								
26	19, 22 25, 38 (42%)	ML	As above.		SS						0 0 0
28			No sample.								
30	15, 27 36, 55 (88%)	ML	Gray Silt, some gravel to 1" round to angular, little to some sand, coarse to very fine, moderately to poorly sorted, very stiff, non-plastic, dry to damp.		SS						0 0 0
32			No sample.								
34	36, 60 (92%)	ML- SP	As above, friable, some sand, dry.		SS						0 0 0
36			No sample.								
38	46, 50/0.4 (100%)	ML	As above, damp.		SS						0 0 0
40			No sample, very hard drilling.								
42	17, 28 37, 43 (100%)	ML	Brownish-Gray Silt, sand and gravel, poorly sorted, very stiff, non-plastic, damp.		SS						0 0 0
44			No sample.								
46	37, 50/3.5 NR		No recovery, sampler blocked by rock-fragments, some moisture on sampler.		SS						0 0 0

'BZ = Breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: <u>Hollow Stem Auger</u>				BORING NO. MW-5			
				SAMPLE METHOD: <u>Split Spoon, continuous</u> to 12 feet				SHEET 3 OF 3			
				WATER LEVEL TIME DATE				DRILLING START TIME FINISH TIME			
				CASING DEPTH				DATE			
DATUM: <u>msl</u>				ELEVATION: <u>1563.4</u>							
DRILL RIG:				SURFACE CONDITIONS: <u>Hill top overlooking plant; snow cover on</u>							
ANGLE: <u>Vertical</u>				BEARING: <u>---</u>				ground.			
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
48			No sample.								
50	19, 22 27, 30 (100%)	ML	Brownish-Gray Silt, some sand, some gravel, poorly sorted, non-plastic, stiff, wet.					SS			0 0 0
52			52.0 feet - EOB.								

BZ = Breathing Zone, DH = Downhole, R = Sample

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-5

Boring No. X-Ref: MW-5

Survey Coords: 921,732,551
541,123,527

Elevation Ground Level 1563.4
 Top of Casing 1566.40

Drilling Summary:
 Total Depth: 52.0 feet
 Borehole Diameter: 7 inches
 Casing Stick-up Height: 3.0 feet
 Drillers: Empire Soils, Inc.

Rigs: CME 55

Bit(s): 4.25" Hollow Stem Auger

Protective Casing: 3.5 feet, lockable, steel

Well Design & Specifications

Basic: Geologic Log X Geophysical Log
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
<u>+3.0 - 42.0</u>	<u>C1</u>	<u>1566.40 - 1524.4</u>
<u>42.0 - 52.0</u>	<u>S1</u>	<u>1524.4 - 1514.4</u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2:

Screen: S1: 2" Sch 40 FJT PVC, 0.010-inch slot

Filter Pack: 10x20 mesh silica sand
38.8 to 52.0 feet

Grout Seal: Portland Type I - bentonite grout, surface to 36.9 feet

Bentonite Seal: Bentonite pellets
38.8 to 36.9 feet, hydrated with 10 gal. potable water

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	<u>1/29</u>	<u>1100</u>	<u>1/29</u>	<u>1630</u>
	<u>1/30</u>	<u>0915</u>	<u>1/30</u>	<u>1030</u>
Casing:	<u>1/30</u>	<u>1030</u>	<u>1/30</u>	<u>1110</u>
Filter Placement:	<u>1/30</u>	<u>1110</u>	<u>1/30</u>	<u>1155</u>
Cementing:	<u>1/30</u>	<u>1330</u>	<u>1/30</u>	<u>1430</u>
Development:	<u>1/31</u>	<u>1700</u>	<u>2/07</u>	<u>0900</u>

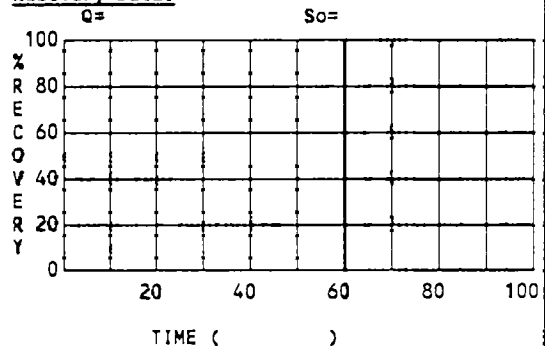
Well Development:

55 gallons added to well, surged and bailed daily 1/31 to 2/7.

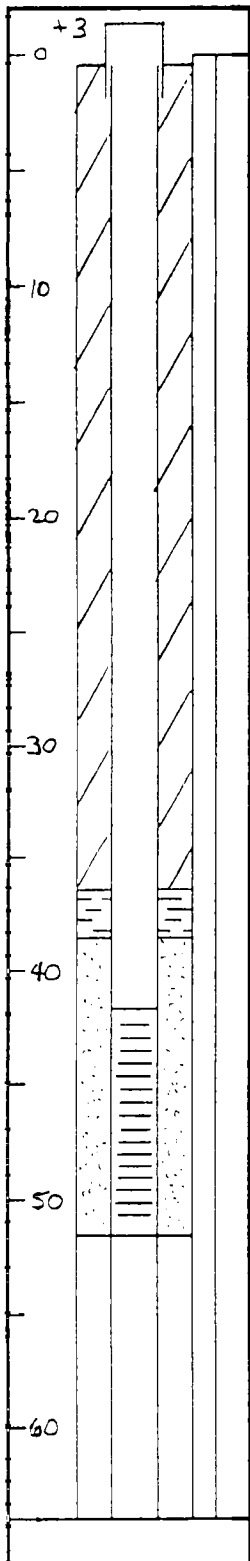
Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
<u>1936</u>	<u>6.8</u>	<u>420</u>	<u>7.0</u>
<u>0900</u>	<u>6.8</u>	<u>435</u>	<u>7.3</u>
<u>0920</u>	<u>6.8</u>	<u>445</u>	<u>7.2</u>

Recovery Data:



Comments:



SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-60			
				SAMPLE METHOD: Split Spoon, continuous to 12 feet				SHEET 1 OF 3			
				WATER LEVEL TIME DATE				DRILLING START FINISH			
				11.82 1345 214				TIME 0800 1515			
DATUM: msl				ELEVATION: 1485.35				DATE 1/31/92			
DRILL RIG:				SURFACE CONDITIONS: Flat dirt area, snow covered, devoid of vegetation.				DATE 1/31/92			
ANGLE: Vertical				BEARING ---							
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ DH R			
2	5, 11 12, 11 (80%)	ML	Brown Silt, some sand and gravel, moist.	SS							0 0 0
4	6, 6 3, 3 (50%)	ML	Reddish-Brown Silt, some sand and gravel, soft, some iron stains, moist to wet.	SS							0 0 0
6	6, 12 12, 11 (25%)	ML	Brown Silt, some sand, some dark layers (ash) not oily, soft, moist, little gravel.	SS							0 0 0
8	8, 10 10, 12 (60%)	ML	Brown silt, some sand and gravel, m. stiff, damp to moist, no stains.	SS							0 0 0
10	4, 6 7, 10 (65%)	ML	As above.	SS							0 0 0
12	33, 36 26, 13 (40%)	ML	Brown Silt, some sand and gravel, soft to m. stiff, dry to damp.	SS							0 0 0
14			No sample.								
16	20, 10 11, 11 (40%)	ML	Gray Silt, little sand and gravel, m. stiff, wet.	SS							0 0 0
18			No sample.								
20	15, 12 16, 13 (70%)	ML	Gray Silt as above, wet. Top 6" of spoon is sand, gravel and silt, p. to unsorted.	SS							0 0 0
22			No sample.								
	7, 11 10, 13 (75%)	ML	Gray Silt, soft to m. stiff, sl. plastic, wet.	SS							0 0 0

BZ = breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-60			
				SAMPLE METHOD: Split Spoon, continuous to 12 feet				SHEET 2 OF 3			
				WATER LEVEL 11.82				DRILLING			
				TIME 1345				START		FINISH	
				DATE 214				TIME 0800		TIME 1515	
DATUM: msl				ELEVATION: 1485.35				DATE 1/31/92		DATE 1/31/92	
DRILL RIG:				SURFACE CONDITIONS: Flat dirt area, snow covered, devoid of							
ANGLE: Vertical				BEARING ---				vegetation.			
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ DH R			
24			No Sample.								
26	7, 8 10, 13 (90%)	ML	Gray, Silt, soft, moist to damp, homogeneous.		SS						
28			No sample.								
30	6, 17 19, 24 (90%)	ML	As above, damp to dry, parts along horizontal bedding.		SS						
32			No sample.								
34	50/4" NR		No recovery.								
36	16, 22 23, 24 (100%)	ML	Gray Silt, soft, homogeneous, damp, parts along bedding.		SS						
38			No sample.								
40	13, 21 33, 40 (90%)	ML	As above.		SS						
42											
44	5, 18 23, 28 (68%)	ML	Gray Silt, some interbedded gravel (6" thick bed), soft parts along bedding, moist.		SS						
46			No sample.								

BZ = breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-60					
				SAMPLE METHOD: Split Spoon, continuous to 12 feet				SHEET 3 OF 3					
				WATER LEVEL TIME DATE				DRILLING START FINISH					
				11.82 1345 214				0800 1515					
DATUM: msl				ELEVATION: 1485.35				CASING DEPTH 55.38					
DRILL RIG:				SURFACE CONDITIONS: Flat dirt area, snow covered, devoid of									
ANGLE: Vertical				BEARING ---				vegetation.					
SAMPLE HAMMER TORQUE				FT.-LBS									
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL										TEST RESULTS			
										PID (ppm)			
										BZ DH R			
48	10, 15 18, 18 (65%)	CL	48-49 as above. 49-50 Gray Clay, stiff, non-plastic, moist.	SS									
50	10, 18 22, 21 (100%)	SW	50-51 Gray Clay, grading downward to silty clay. 51-52 Gray fine sand, some silt, wet, loose.	SS									
52			No sample.										
54	6, 11 18, 26 (100%)	CL	Grayish Red (10YR 5/1) Clay, stiff, damp, massive.	SS									
56			Shelby Tube driven, no recovery.										
58													

BZ = breathing Zone, DH = Downhole, R = Sample

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-6

Boring No. X-Ref: MW-60

Survey Coords: 922,402,486

Elevation Ground Level 1485.35

541,330,509

Top of Casing 1484.95

Drilling Summary:

Total Depth: 21.0 feet

Borehole Diameter: 7 inches

Casing Stick-up Height: 0

Driller: Empire Soils, Inc.

Rig: CME 55

Bit(s): Hollow Stem Auger

Protective Casing: Flush mount

Well Design & Specifications

Basic: Geologic Log X Geophysical Log

Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
<u>0.0 - 11.0</u>	<u>C1</u>	<u>1484.95 - 1474.0</u>
<u>11.0 - 21.0</u>	<u>S1</u>	<u>1474.0 - 1464.0</u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2:

Screen: S1: 2" Sch 40 FJT PVC, 0.010-inch slot

Filter Pack: 10x20 mesh silica sand, 8.0 to 21.0 feet

Grout Seal: Portland Type I - bentonite grout, surface to 5.0 feet

Bentonite Seal: Bentonite pellets 5.0 to 8.0 feet

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	<u>2/03</u>	<u>1300</u>	<u>2/03</u>	<u>1430</u>
Casing:	<u>2/03</u>	<u>1430</u>	<u>2/03</u>	<u>1440</u>
Filter Placement:	<u>2/03</u>	<u>1440</u>	<u>2/03</u>	<u>1600</u>
Cementing:	<u>2/03</u>	<u>1600</u>	<u>2/03</u>	<u>1630</u>
Development:	<u>2/04</u>	<u>1000</u>	<u>2/04</u>	<u>1130</u>

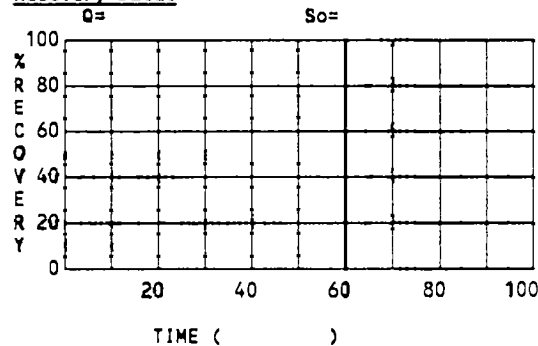
Well Development:

5 gallons bailed (5.5 casing volumes)

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
<u>1030</u>	<u>7.0</u>	<u>365</u>	<u>7.5</u>
<u>1050</u>	<u>7.0</u>	<u>370</u>	<u>9.1</u>
<u>1110</u>	<u>7.0</u>	<u>365</u>	<u>7.5</u>

Recovery Data:



Comments: Slug test conducted 2/6/92

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-60

Boring No. X-Ref: MW-60

Survey Coords: _____

Elevation Ground Level 1485.61

Top of Casing 1485.42

Drilling Summary:

Total Depth: 58.0 feet
 Borehole Diameter: 7" to 56, 2" to 58
 Casing Stick-up Height: _____
 Drillers: Empire Soils, Inc.
Hamburg, NY
 Rigs: CME 55
 Bit(s): Hollow Stem Auger
 Protective Casing: Flush Mount

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	1/31	0800	1/31	1515
Casing:	2/03	0830	2/03	0900
Filter Placement:	2/03	0900	2/03	0940
Cementing:	2/03	1030	2/03	1200
Development:	2/05	1345	2/05	1445
Bentonite:	2/03	0940	2/03	1030

Well Design & Specifications

Basic: Geologic Log X Geophysical Log _____
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
0.0 - 46.0	C1	1485.42 - 1439.4
45.0 - 55.0	S1	1439.4 - 1429.4
-	-	-
-	-	-
-	-	-

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2: _____

Screen: S1: 2" Sch 40 FJT PVC with 0.010 inch slot

Filter Pack: M1 silica sand (10x20), some fines 58 feet to 42 feet

Grout Seal: _____

Bentonite Seal: Bentonite pellets 42.0 feet to 39.0 feet

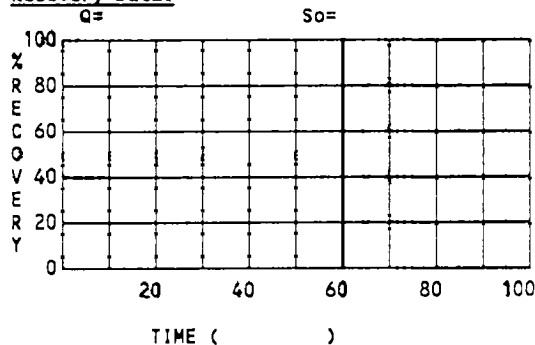
Well Development:

Bailed 38 gallons (5.3 casing volumes)

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
1045	6.79	290	8.8
1050	6.85	285	8.4
1100	7.02	290	8.6

Recovery Data:



Comments: slug test conducted 2/6/92.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-7			
				SAMPLE METHOD: SS, cont to 12 feet				SHEET 1 OF 1			
								DRILLING			
				WATER LEVEL TIME DATE				START TIME DATE			
				10.0 1100 01/31				1530 02/02			
DATUM: msl				ELEVATION: 1481.09				CASING DEPTH 5.03 5.03			
DRILL RIG: Acker II				SURFACE CONDITIONS: Fill area sloping towards creek				1/31/92 1/31/92			
ANGLE: Vertical				BEARING ---							
SAMPLE HAMMER TORQUE				FF.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ' DH R			
2	8, 57 44, 23 (10%)	GP	Fill, gravel with some sand, poorly sorted, Gray (5YR 6/1), dry.	SS							0 0 0
4	14, 14 12, 7 (20%)	CL	Brown (10YR 5/5) Silt, some clay with subangular sand and gravel, slightly moist.	SS							0 0 0
6	6, 12 6, 8 NR		No sample recovered.	SS							0 0 0
8	9, 7 10, 13 NR		No sample recovered.	SS							0 0 0
10	4, 9 14, 21 (20%)	CL	Brown (10YR 5/3) Silt, some clay with subangular, poorly sorted sand and gravel, wet.	SS							0 0 0
12	14, 7 6, 7 (20%)	CL	As above.	SS							0 0 0
14	3, 4 20, 19 (15%)	CL	Brown (10YR 5/3) Clay, plastic, soft, wet.	SS							0 0 0
16											
18	35, 43 45, 64 (95%)	CL	Gray (5YR 4/1) Clay, stiff, plastic, dry at 18 ft.	SS							0 0 0
20			EOB = 17.0 ft.								
22											

BZ = Breathing Zone, DH = Downhole, R = Sample

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-7

Boring No. X-Ref: MW-7

Survey Coords: 922,583.682

Elevation Ground Level 1481.09

541,156.871

Top of Casing 1480.78

Drilling Summary:

Total Depth: 17.0 feet

Borehole Diameter: 7 inches

Casing Stick-up Height: 0

Driller: Empire Soils, Inc.

Hamburg, NY

Rig: Acker II

Bit(s): 4.25" Hollow Stem Auger

Protective Casing: Flush Mount

Well Design & Specifications

Basic: Geologic Log X Geophysical Log ---

Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
<u>0.0 - 6.0</u>	<u>C1</u>	<u>1480.78 - 1474.8</u>
<u>6.0 - 16.0</u>	<u>S1</u>	<u>1474.8 - 1464.8</u>
<u>-</u>	<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>	<u>-</u>

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2: ---

Screen: S1: 2" Sch 40 FJT PVC with 0.010

inch slot

Filter Pack: Clean sand to 4.0 feet

Grout Seal: Bentonite Grout 2 feet to

surface

Bentonite Seal: Bentonite pellets 4.0 feet

to 2.0 feet

Comments: ---

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	1/30	1130	1/31	1310
Casing:	1/31	1310	1/31	1330
Filter Placement:	1/31	1330	1/31	1400
Cementing:	1/31	1430	1/31	1500
Development:	2/02	1350	2/02	1430
Bentonite:	1/31	1400	1/31	1430

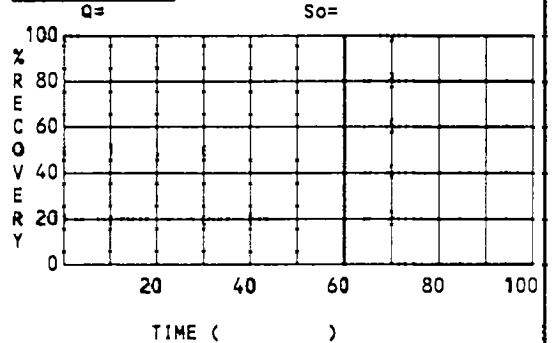
Well Development:

Bailed 10 gallons, (7.6 casing volumes)

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
1430	6.82	250	4.8
1440	6.35	235	4.5
1450	6.41	225	4.8

Recovery Data:



SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-8			
				SAMPLE METHOD: Split Spoon, continuous to 12 feet				SHEET 1 OF 1			
				WATER LEVEL TIME DATE				DRILLING START TIME 1230			
				CASING DEPTH				FINISH TIME DATE			
DATUM: msl				ELEVATION: 1474.35				SURFACE CONDITIONS: Flat grassy lawn, snow covered.			
DRILL RIG: Acker II				BEARING ---							
ANGLE: Vertical				SAMPLE HAMMER TORQUE				FT.-LBS			
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL										TEST RESULTS	
										PID (ppm)	
										BZ' DH R	
2	8, 8 13, 15 (20%)	ML	Yellowish-Brown (10YR 5/6) Silt, some clay, moderately sorted, with trace sand, moist.	SS						0 0 0	
4	9, 8 9, 7 (45%)	ML	Yellowish-Brown (10YR 5/6) Silt, some clay, moderately sorted, with trace gravel, moist.	SS						0 0 0	
6	6, 6 6, 7 (30%)	ML	Yellowish-Brown (10YR 5/6) Silt, some clay with trace gravel. Trace amounts of carbon, dry.	SS						0 0 0	
8	9, 10 16, 50/3 (35%)	ML	Yellowish-Brown (10YR 5/6) Silt, some clay with some poorly sorted gravel, dry.	SS						0 0 0	
10	67, 46 52, 21 (25%)	CL	Olive (5Y 4/4) Clay, some sand with some poorly sorted gravel, dry.	SS						0 0 0	
12			Cuttings becoming moist, no sample collected.								
14	22, 15 14, 21 (60%)	CL	Yellowish-Brown (10YR 5/8) Clay, some sand with poorly sorted subrounded gravel, wet.	SS						0 0 0	
16			Coarse gravels repeated by driller, no sample.								
18	134, 31 18, 26 (70%)	SP-SC	Yellowish-Brown (10YR 5/4) Sand and gravel, some clay, wet.	SS							
20	(15%)	ML	Yellowish-Brown (10YR 5/4) Sand, some clay, well sorted, subrounded, wet.	SS							
22			EOB = 20'								

BZ = breathing Zone, DH = Downhole, R = Sample

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-8

Boring No. X-Ref: MW-8

Survey Coords: 923,107,400

Elevation Ground Level 1474.35

541,679,229

Top of Casing 1473.99

Drilling Summary:

Total Depth: 20.0 feet
 Borehole Diameter: 7 inches
 Casing Stick-up Height: 0
 Driller: Empire Soils, Inc.
Hamburg, NY
 Rig: Acker II
 Bit(s): 4.25" Hollow Stem Auger
 Protective Casing: Flush Mount

Well Design & Specifications

Basic: Geologic Log X Geophysical Log
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
<u>0.0 - 9.0</u>	<u>C1</u>	<u>1473.99 - 1365.0</u>
<u>9.0 - 19.0</u>	<u>S1</u>	<u>1365.0 - 1355.0</u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2:

Screen: S1: 2" Sch 40 FJT PVC with 0.010
inch slot

Filter Pack: Clean silica sand 20 feet
to 7 feet

Grout Seal: 4.0 feet to 0.0 feet Portland

Bentonite Seal: Bentonite pellets 7.0 feet
to 4.0 feet

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	<u>1/30</u>	<u>1230</u>	<u>1/30</u>	<u>1430</u>
Casing:	<u>1/30</u>	<u>1430</u>	<u>1/30</u>	<u>1500</u>
Filter Placement:	<u>1/30</u>	<u>1500</u>	<u>1/30</u>	<u>1630</u>
Cementing:	<u>1/31</u>	<u>0800</u>	<u>1/31</u>	<u>0900</u>
Development:	<u>2/02</u>	<u>1200</u>	<u>2/02</u>	<u>1300</u>
Bentonite:	<u>2/01</u>	<u> </u>	<u> </u>	<u> </u>

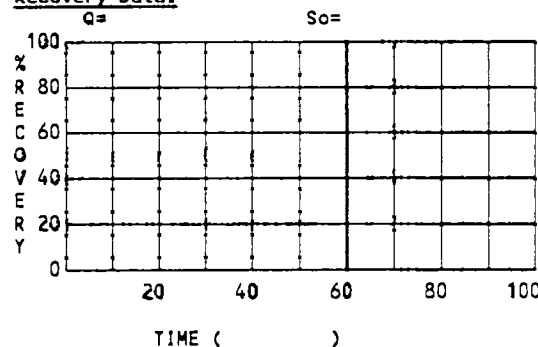
Well Development:

Bailed 10 gallons (5.8 casing volumes).

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
<u>1230</u>	<u>7.23</u>	<u>400</u>	<u>3.8</u>
<u>1240</u>	<u>7.18</u>	<u>400</u>	<u>10.4</u>
<u>1250</u>	<u>7.24</u>	<u>400</u>	<u>9.1</u>

Recovery Data:



Comments: 2/1/92 Water Level = 7.75 ft. TGC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-90			
				SAMPLE METHOD: Split Spoon, continuous to 12 feet				SHEET 1 OF 2			
				WATER LEVEL TIME DATE				DRILLING START TIME 0940			
				CASING DEPTH				FINISH TIME DATE			
DATUM: msl				ELEVATION: 1475.76				DATE 2/04/92			
DRILL RIG: Track CME55				SURFACE CONDITIONS: Paved parking lot, flat.							
ANGLE: Vertical				BEARING ---							
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ ¹ DH R			
2	15, 100/4" (100%)	ML	Asphalt, Soil immediately below asphalt is dark brown, silty sand, oily, light brown silt, sand & gravel, loose, dry.	SS							0 0 0
4	(60%)	ML	Black Silt, some clay, stiff, dry. Silty clay, Olive Gray (5YR 5/2) stiff.	SS							0 0 0
6	9, 7 10, 15 (15%)	ML	Brown (7.5YR 5/2) Silt, some clay, stiff, moist.	SS							0 0 1.5
8	(60%)	ML	Same as above with subangular, poorly sorted sand and gravel, moist.	SS							0 0 0
10	6, 8 11, 19 (30%)	ML	Same as above with subangular, poorly sorted sand and gravel, very moist.	SS							0 0 0
12	6, 6 9, 7 (15%)	SM	Dark Brown (7.5YR 3/2) Silt, some sand, poorly sorted with large subangular gravel, wet.	SS							0 0 0
14	18, 20 19, 25 (30%)	ML	Light Brownish-Gray (10YR 6/2) Silt, some clay, little sand, poorly sorted, subangular gravel, wet.	SS							0 0 0
16											
18	6, 5 8, 13 (70%)	CL	Gray Silt, some clay, wet.	SS							0 0 0
20											
22	8, 9 9, 19 NR			SS							0 0 0

¹BZ = Breathing Zone, DH = Downhole, R = Sample

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-90			
				SAMPLE METHOD: Split Spoon, continuous to 12 feet				SHEET 2 OF 2			
				WATER LEVEL TIME DATE				DRILLING START FINISH			
				CASING DEPTH				TIME 0940			
DATUM: msl				ELEVATION: 1475.76				DATE 2/04/92			
DRILL RIG: Track CNE55				SURFACE CONDITIONS: Paved parking lot, flat.							
ANGLE: Vertical				BEARING: ---							
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
								BZ' DH R			
24											
26	7, 10 11, 13 (60%)	CL	Dark Gray (10YR 4/1) Silt, some clay, trace sand and gravel, very moist.		SS						0 0 0
28											
30	16, 18 20, 32 (50%)	CL	Same as above, moist.		SS						0 0 0
32											
34	3, 7 17, 43 (65%)	CL	Same as above, moist.		SS						0 0 0
36											
38	11, 19 44, 45 (60%)	CL	Reddish-Gray (10YR 5/2) Clay, some silt, moist.								0 0 0
40			EOB = 41.0 ft.								
42											

BZ = Breathing Zone, DH = Downhole, R = Sample

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-9

Boring No. X-Ref: MW-9D

Survey Coords: 922,836,666

Elevation Ground Level 1475.74

541,364,639

Top of Casing 1475.37

Drilling Summary:

Total Depth: 20.5 feet

Borehole Diameter: 7 inches

Casing Stick-up Height: 0

Driller: Empire Soils, Inc.

Hamburg, NY

Rig: Acker II

Bit(s): 4.25" Hollow Stem Auger

Protective Casing: Flush Mount

Well Design & Specifications

Basic: Geologic Log X Geophysical Log

Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
0.0 - 10.5	C1	1475.37 - 1464.9

$$\underline{10.5} - \underline{20.5} \quad | \quad \underline{S1} \quad | \quad \underline{1464.9} - \underline{1454.9}$$

_____ - _____ | _____ | _____ - _____

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2:

Screen: S1: 2" Sch 40 FJT PVC with 0.010
inch slot

Filter Pack: Clean silica sand, 20.5 feet
to 7.5 feet

Grout Seal: Portland Type I - bentonite
grout, 4.5 feet to surface

Bentonite Seal: Bentonite pellets 7.5 feet to 4.5 feet

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	2/05	1400	2/05	1430

Casing:	2/05	1500	2/05	1505

Filter Placement:	2/05	1505	2/05	1530
Cementing:	2/05	1600	2/05	1630
Development:	2/06	1600	2/06	1654

Well Development:

Bailed 10 gallons (5.4 casing volumes)

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
1650	7.67	340	13.1
1700	7.51	320	14.5
1710	7.80	330	15.7

Recovery Data:

Comments: _____

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-90

Boring No. X-Ref: MW-90

Survey Coords: 922,836,543

Elevation Ground Level 1475.76

541,359,900

Top of Casing 1475.52

Drilling Summary:

Total Depth: 41.0 feet
 Borehole Diameter: 7 inches
 Casing Stick-up Height: 0
 Driller: Empire Soils, Inc.
Hamburg, NY
 Rig: Acker II
 Bit(s): 4.25" Hollow Stem Auger
 Protective Casing: Flush Mount

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	2/06	1120	2/06	1330
Casing:	2/06	1330	2/06	1400
Filter Placement:	2/06	1400	2/06	1500
Cementing:	2/06	1500	2/02	1530
Development:	2/08	0800	2/08	1130

Well Design & Specifications

Basic: Geologic Log X Geophysical Log
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
<u>0.0 - 31.0</u>	<u>C1</u>	<u>1475.52 - 1444.5</u>
<u>31.0 - 41.0</u>	<u>S1</u>	<u>1444.5 - 1434.5</u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>
<u> - </u>	<u> </u>	<u> - </u>

Casing: C1: 2" Sch 40 FJT PVC

Casing: C2:

Screen: S1: 2" Sch 40 FJT PVC with 0.010
inch slot

Filter Pack: Clean silica sand, 41.0 feet
to 29 feet

Grout Seal: Portland Type I - bentonite
grout, 29 feet to surface

Bentonite Seal: Bentonite pellets 29.0 feet
to 26.0 feet

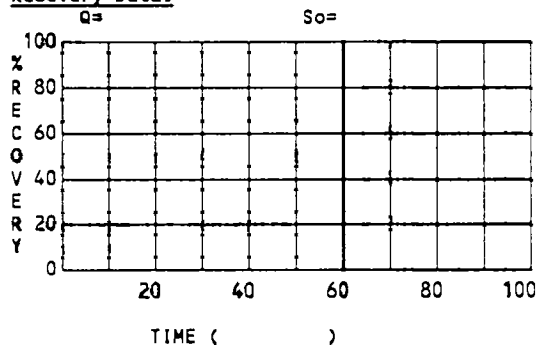
Well Development:

Bailed 25 gallons (5.0 casing volumes)

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
1110	6.98	350	14.7
1120	6.94	350	12.7
1130	6.89	370	12.8

Recovery Data:



Comments:

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY				DRILLING METHOD: Hollow Stem Auger				BORING NO. MW-10			
				SAMPLE METHOD: Split Spoon				SHEET 1 OF 1			
								DRILLING			
				WATER LEVEL 15.3				START		FINISH	
				TIME 0950				TIME 0847		TIME 1018	
				DATE 11/4				DATE 11/4		DATE 11/4	
DATUM: msl				ELEVATION:				CASING DEPTH			
DRILL RIG: Acker AD-2				SURFACE CONDITIONS: Dirt field.							
ANGLE: 90° Vertical				BEARING ---							
SAMPLE HAMMER TORQUE				FT.-LBS							
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL								TEST RESULTS			
								PID (ppm)			
2	9,11 14,20	C1	9/24. Dark brown () silty clay with trace poorly sorted, subangular gravel, medium stiff to stiff, slightly plastic, moist.	SS							0
4			No Sample.								
6	10,8 7,7	ML	8/24. Olive gray (5Y 5/2) clayey silt, medium stiff, plastic, moist, some dark black material present possibly burnt wood.	SS							0
8			No Sample.								
10	7,10 10,11	ML	18/24. Yellowish brown (10YR 5/4) clayey silt with trace subrounded to subangular, poorly sorted gravel and some sand, stiff, slightly plastic, moist.	SS							0
12			No sample.								
14	15,17 19,20	GM	11/24. Yellowish brown (10YR 5/4) silty gravel, subangular poorly sorted with some clay, dense, moist to wet.	SS							0
16											
18	15,17 17,23	GM	16/24. Same as above only saturated. Water level 15 feet.	SS							0
20											
22	16,24 18,32	GM ML	18/24. Same as above grading to olive gray (5Y 4/2) clayey silt, stiff slightly plastic, wet.								0
			E08 = 23.0 feet								

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-10

Boring No. X-Ref: _____

Survey Coords: N 922,341.742

Elevation Ground Level 1484.40

E 541,549.726

Top of Casing 1484.03

Drilling Summary:

Total Depth: 23.0 feet
Borehole Diameter: 8 inches
Casing Stick-up Height: Ground Surface
Driller: Empire Soils Investigations, Inc.

Rig: Acker AD-2

Bit(s): HSA

Protective Casing: Ground Flush Mount

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling HSA	11/4	0847	11/4	1018
Casing: Screen & Riser	11/4	1020	11/4	1025
Filter Placement:	11/4	1027	11/4	1158
Cementing:	11/4	1300	11/4	1400
Development:				
Bentonite Seal:	11/4	1200	11/4	1215

Well Design & Specifications

Basic: Geologic Log X Geophysical Log _____
Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
0 - 13.0	C	1484.4 - 1471.4
13.0 - 23.0	S	1471.4 - 1461.4
-	-	-
-	-	-
-	-	-

Casing: C1: 2-inch I.D. Sch. 40 PVC, FTJ
Riser

Casing: C2: _____

Screen: S1: 2-inch I.D. Sch. 40 PVC, FTJ
Screen with 0.010-inch slot

Filter Pack: Clean Silica Sand (Morrey #1)
11.0 to 23.0 feet BGS.

Grout Seal: Cement and bentonite powder
from ground surface to 9.0 feet BGS.

Bentonite Seal: 1/4" bentonite pellets
from 9.0 to 11 feet BGS.

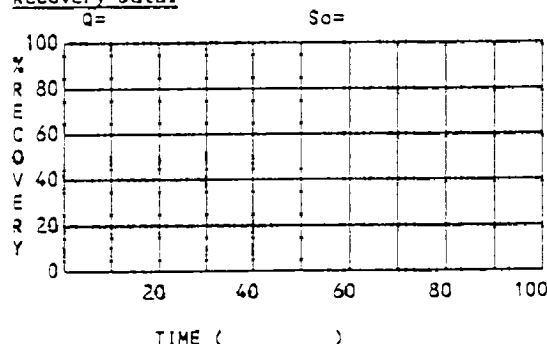
Well Development:

Bail and surge method. A total of 12.0
gallons bailed.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
1230	7.79	268	11.0
1235	7.63	270	10.9
1240	7.67	282	10.9
1245	7.65	282	10.8

Recovery Data:



Comments: _____

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Prestolite Plant Arcade, NY			DRILLING METHOD: Hollow Stem Auger			BORING NO. MW-11		
			SAMPLE METHOD: Solid Spoon			SHEET 1 OF 1		
			WATER LEVEL TIME DATE			DRILLING START FINISH TIME DATE		
			9.4 1310 11/3			11/3 11/3		
DATUM: msl			ELEVATION:			CASING DEPTH		
DRILL RIG: Acker Soil Max			SURFACE CONDITIONS: Asphalt parking lot with overhead					
ANGLE: 90° Vertical			BEARING ---			power lines.		
SAMPLE HAMMER TORQUE			FT.-LBS					
						TEST RESULTS		
SAMPLE NUMBER AND DESCRIPTION OF MATERIAL						PID (ppm)		
2	4,6 8,3	CL	14/24. Asphalt (0-3"), Yellowish brown (10YR 5/6) silty clay with some very fine sand and subangular gravel, plastic, medium stiff, moist.			SS		0
4	5,5 5,7	CL	6/29. Same as above.					0
5	7,13 20,40	GM	9/24. Yellowish Brown (10YR 5/6) silty, poorly sorted, subangular gravel with some clay and sand, medium dense, moist.			SS		0
3			No Sample.					
10	16,18 20,29	GM	8/24. Same as above. Wet to saturated. Water level = 10 feet			SS		0
12			No sample.					
14	15,25 32,15	GM	12/24. Same as above, saturated.					0
16			No sample.					
18	10,15 16,25	ML	16/24. Olive gray (5Y 4/2) clayey silt, stiff, slightly plastic, wet.					
20			ECB = 18 feet.					
22								

MONITOR WELL CONSTRUCTION SUMMARY

Well No. MW-11

Boring No. X-Ref: _____

Survey Coords: N 922,408.149

Elevation Ground Level 1477.62

E 541,699.888

Top of Casing 1477.29

Drilling Summary:

Total Depth: 18.0 feet
Borehole Diameter: 8 inches
Casing Stick-up Height: Ground Surface
Driller: Empire Soils Investigations, Inc.

Rig: Acker Soil Max

Bit(s): HSA

Protective Casing: Flush mount

Well Design & Specifications

Basic: Geologic Log X Geophysical Log _____
Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
0 - 8.0	C	1477.62 - 1469.62
8.0 - 18.0	S	1469.62 - 1459.62
-	-	-
-	-	-
-	-	-

Casing: C1: 2-inch I.D. Sch. 40 PVC, FTJ
Riser

Casing: C2: _____

Screen: S1: 2-inch I.D. Sch. 40 PVC, FTJ
Screen with 0.010-inch slot

Filter Pack: Clean Silica Sand (Murrey #1)
6.0 to 18.0 feet BGS.

Grout Seal: Cement and bentonite powder
from ground surface to 4.0 feet BGS.

Bentonite Seal: 1/4" bentonite pellets
from 4.0 to 6.0 feet BGS.

Comments: _____

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling HSA	11/3	1210	11/3	1340
Casing: Screen & Riser	11/3	1340	11/3	1346
Filter Placement:	11/3	1349	11/3	1428
Cementing:	11/3	1540	11/3	1550
Development:	11/8	1115	11/8	1206
Bentonite Seal:	11/3	1430	11/3	1435

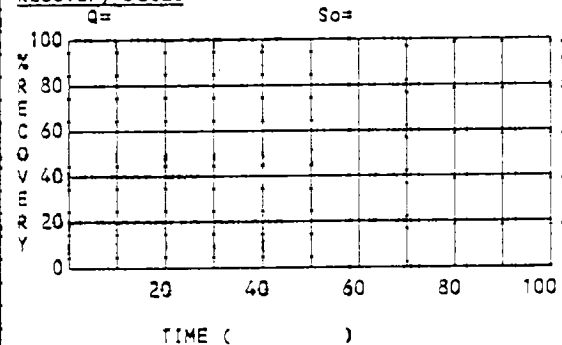
Well Development:

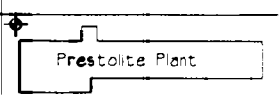
Bail and surge method. A total of 10
gallons bailed.

Stabilization Test Data:

Time	Ph	Spec. Cond.	Temp (C)
1140	7.37	414	10.3
1145	7.66	453	10.3
1150	7.47	480	10.2
1155	7.40	478	10.3

Recovery Data:



SITE NAME AND LOCATION: Prestolite Plant  Prestolite Plant Arcade Lumber		DRILLING METHOD: HSA SAMPLE METHOD: Split Spoon BORING NO. MW-12 SHEET 1 OF 1 DRILLING START TIME 10:00 FINISH TIME 11:20 DATE 07/16/96 DATE 07/16/96			
DATUM: DRILL RIG: SJB - CME ANGLE: VERTICAL: BEARING:		SURFACE CONDITIONS: Asphalt ~5"			
SAMPLE HAMMER TORQUE: FT.485					
DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	FID (ppm)	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	DEPTH IN FEET	DESCRIPTION OF OPERATION AND REMARKS

2	5,3,3 75%	0	0.5-2' - Dark brown Clayey Silt, moist.		
4	5,3,3,4 30%	0	4-6' - Same as above with Gravel (~1/2 - 3/4-inch diameter).		
8			7-9' - Increasing Gravel in cuttings.		
10	15,11,12,11 50%	0	9-11' - Same as above, saturated		
14	3,5,8,7 30%	0	14-16' - Light brown Sand and Gravel to 1" Diameter, some Silt. Sand, poorly sorted, rounded to sub-angular.		
20	13,13,16,47 60%	0	19-21' - Light gray silty Clay, saturated, grading to dark gray Clay. Gravel throughout to 1" diameter, angular. Clay, very hard and plastic.		
22	9,14,21,27	0	22-24' - Dark gray Clay as above, grading to red. EOB = 22', well set @ 22'.		

MONITOR WELL CONSTRUCTION SUMMARY

Well No: MW-12

Boring No. X-Ref: MW-12

Survey Coords: 923,116.861N, 541,111.987E

Elevation Ground Level: 1472.45 feet MSL

Top of Casing: 1472.81 feet MSL

Drilling Summary:

Total Depth: 22 feet
 Borehole Diameter: ~8 1/4"
 Casing Stick-up Height:
 Driller: SJB
 Rig: CNE
 Bit(s): 4" ID HSA
 Protective Casing: Flushmount with locking cap

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	7/16	10:00	7/16	11:20
Casing				
Filter Placement				
Cementing				
Development				

Well Design & Specifications

Basic Geologic Log ☒ Geophysical Log ☐
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
0 - 12	C1	1472.81 - 1460.81
12 - 22	S1	1460.81 - 1450.81
-	-	-
-	-	-

Casing: C1 Sch. 40 PVC FJT - 2"

Casing: C2

Screen: St Sch. 40 PVC FJT #10 Slot - 2"

Filter Pack: Silica Sand 10-22'

Grout Seal: Neat cement grout 0-7'

Bentonite Seal: Bentonite chips 7-10', hydrated with ~10 gallons fresh water.

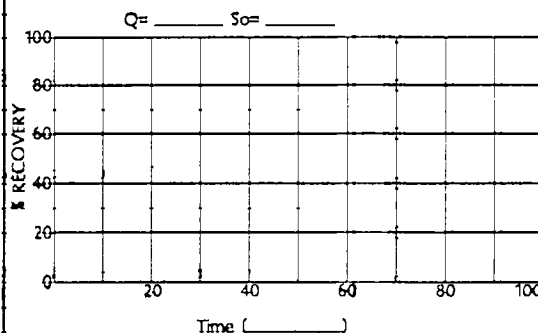
Well Development:

Ball & Surge ~25 gallons bailed

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
	6.51	975	64.5
	6.81	876	62.4
	7.46	862	58.2
	7.42	860	58.0
	7.41	865	58.1

Recovery Data:



Comments:

Site Name: Prestolite Site

Location: Arcade NY

Supervised By: J.D. Quigley

Date: 07/16/96

SITE NAME AND LOCATION: <u>Prestolite Plant</u>		DRILLING METHOD: <u>MSA</u>		BORING NO. <u>MW-13</u>			
		SAMPLE METHOD: <u>Split Spoon</u>		SHEET <u>1</u> OF <u>1</u>			
		DRILLING					
		WATER LEVEL TIME DATE CASING DEPTH		START TIME 1300 DATE 7/16/96		FINISH TIME 1410 DATE 7/16/96	
DATUM:			SURFACE CONDITIONS: <u>Asphalt ~4"</u>				
DRILL RIG: <u>SJB - GME</u>							
ANGLE: <u>VERTICAL</u>		BEARING:					
SAMPLE HAMMER TORQUE <u>FT.485</u>							
DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	PMD (ppm)	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	DEPTH IN FEET	DESCRIPTION OF OPERATION AND REMARKS		

2	7,5,3 25%	0	0.5-2' - Silty Sand and Gravel, light gray to brown, Sand, poorly sorted, fine-coarse, dry.		
4	9,5,5,3 30%	0	4-6' - Yellowish brown Sat, little Sand, some Gravel, dry to moist, Sand poorly sorted, mostly coarse, Gravel to 1" diameter.		
10	15,25,16,15 70%	0	9-11' - Same as above, with increasing Gravel, saturated.		
14	6,9,12,12 60%	0	14-16' - same as above, saturated.		
20	6,9,10,12 65%	0	19-21' - Same as above, grading to gray Clay, hard, plastic. EOB = 21', set well @ 21'		
22					

MONITOR WELL CONSTRUCTION SUMMARY

Well No: MW-13

Boring No. X-Ref: MW-13

Survey Coords: 923,124.652N, 541,263.746E

Elevation Ground Level: 1473.40

Top of Casing: 1473.11

Drilling Summary:

Total Depth: 21 feet
 Borehole Diameter: ~8 1/4"
 Casing Stick-up Height:
 Driller: SJB
 Rig: ONE
 Bit(s): 4" ID HSA
 Protective Casing: Flushmount, with locking cap

Well Design & Specifications

Basic Geologic Log ☒ Geophysical Log ☐
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
0 - 11	C1	1473.11 - 1462.11
11 - 21	S1	1462.11 - 1452.11
-	-	-
-	-	-

Casing: Ct Sch. 40 PVC FJT - 2"

Casing: C2

Screen: St Sch. 40 PVC FJT #10 Slot - 2"

Filter Pack: Silica Sand 9-21'

Grout Seal: Neat cement grout 0-6'

Bentonite Seal: Bentonite chips 6-9', hydrated with ~10 gallons fresh water.

Construction Time Log:

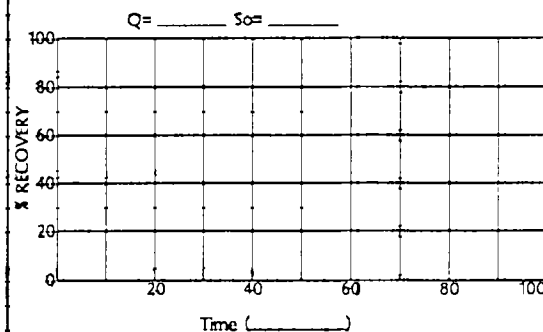
Task	Start		Finish	
	Date	Time	Date	Time
Drilling	7/16	13:00	7/16	14:10
Casing				
Filter Placement				
Cementing				
Development				

Well Development:
 Bail & Surge ~30 gallons bailed

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
	7.22	1015	57.9
	6.72	966	58.8
	7.68	910	58.3
	7.60	912	58.5
	7.67	916	58.5

Recovery Data:



Comments:

Site Name: PrestoSite Site

Location: Arcadia NY

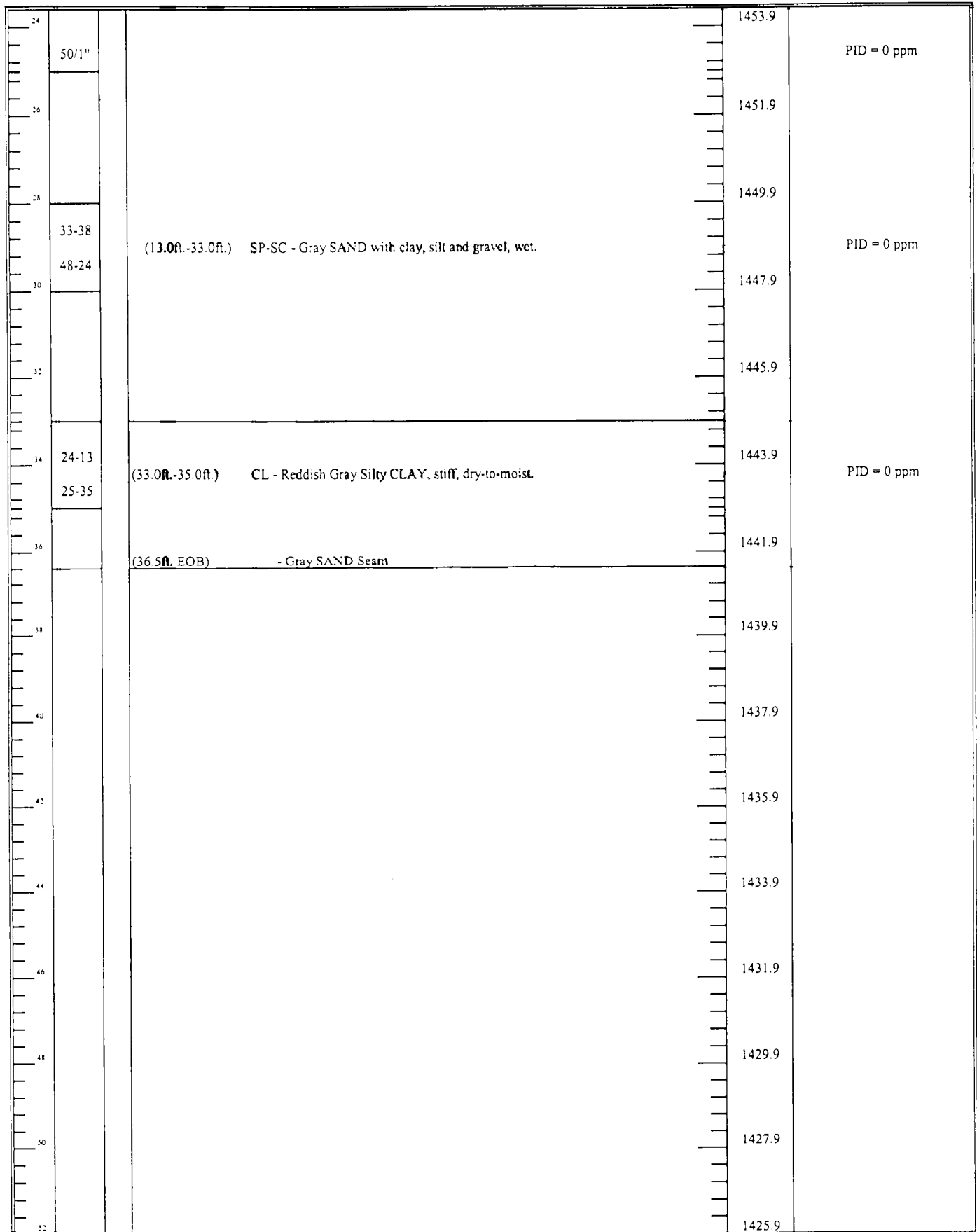
Supervised By: J.D. Quarles

Date: 07/16/99

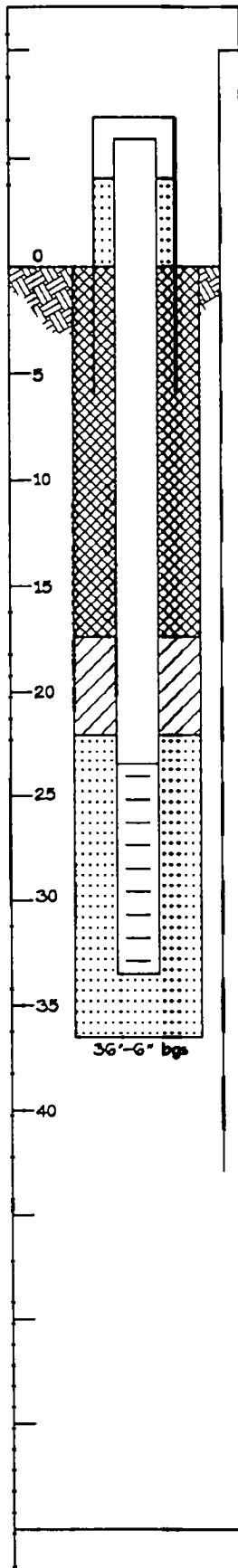
Site Name & Location: Prestolite Plant Site Arcadia, New York		Drilling Method: Hollow-Stem Auger	Boring No. MW-14	
Project Manager: Rich Gnat		Sample Method: Split Spoon	Sheet 1 OF 2	
Project Number: P582-100		Drilling		
Logged by: Rich Gnat		Start Time 1000	Finish Time 1350	
Driller: SJB Drilling		Coordinates: N 922876.754 E 542152.770	Date 7/12/00	
Drill Rig:		Surface Elevation: 1477.90 ft.		
Sample Hammer Torque:		Date 7/12/00		
Angle:	Vertical:	Bearing:	Date 7/12/00	
DEPTH IN FEET	BLOWS IN ON SAMPLER (RECOVERY)	SAMPLE INTERVAL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	
			DEPTH IN FEET (ELEVATION)	DESCRIPTION OF OPERATION AND REMARKS

	3-18	(0.0ft.-0.4ft.) TOP SOIL			
		(0.4ft.-1.0ft.) FILL - Gravelly fill, crumbly, dry.			PID = 0 ppm
2	10-7	(1.0ft.-3.0ft.) CL - Brown-to-Gray Silty CLAY, rootlets, crumbly, dry.	1475.9		
4	8-8 24-28	(3.0ft.-13.0ft.) ML - Gray SILT with sand and gravel, moist.	1473.9		PID = 0 ppm
6		- Becoming gravelly.	1471.9		
8			1469.9		PID = 0 ppm
10	50/1"	- Pounding on top of cobble.	1467.9		
12			1465.9		
14	13-11 13-11	(13.0ft.-33.0ft.) SP-SC - Gray SAND with clay and gravel, wet at 15.0ft.	1463.9		PID = 0 ppm
16			1461.9		
18			1459.9		PID = 0 ppm
20	35- 50/1"	- As above, pounding on cobble.	1457.9		
22			1455.9		
	50/1"	- Coarse, pounding on cobble.			PID = 0 ppm

Site Name & Location: Prestolite Plant Site Arcadia, New York	Project Number: P582-100	Boring No. MW-14
		Sheet
		2 OF 2



MONITOR WELL CONSTRUCTION SUMMARY



Survey Coord: N922876.754 E542152.770

Elevation Ground Level 1477.90'

Top of Casing -PVC 1479.56'

Well No: MW-14

Boring No. X-Rat

Drilling Summary:

Total Depth: 36.5' bgs
 Borehole Diameter: 8.25"
 Casing Sockup Height: ~1.8 feet
 Driller: S.B. Drilling
 Rig: CME HSA
 Drilling Fluid: None
 Protective Casing: Steel

Well Design & Specifications

Basic: Geologic Log ☐ Geophysical Log ☐
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation (feet MSL)
33'-6" - 23'-6"	S	1440.40 - 1354.40
23'-6" - 1'-0"	C	1454.40 - 1479.56
-	-	-
-	-	-

Casing: C1

Casing: C2

Screen: 5" 0.010 Slot - 10'

Filter Pack: Sand (Filter)
 36'-6" to 22'-0"

Grout Seal: Cement-Bentonite Grout
 17'-4" to 3'-0"

Bentonite Seal: Premium Gold Bentonite Chips (medium)
 22'-0" to 17'-6"

Construction Time Log

Task	Start		Finish	
	Date	Time	Date	Time
Drilling	7/12	1000	7/12	1350
Casing	7/12	1350	7/12	1700
Filter Placement	7/12	1350	7/12	1525
Cementing	7/12	1530	7/12	1700
Development				

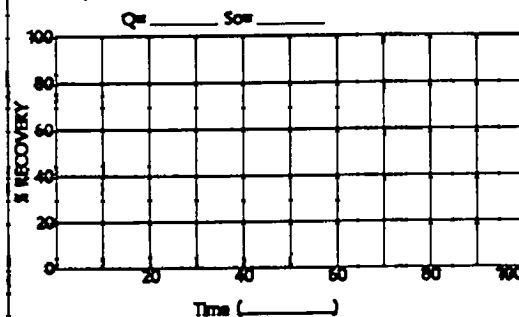
Well Development:

Bail and surge method

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:



Comments: Bottom of boring at 36'-6". Made a sand bottom to 33'-6".

Site Name: Prestolite Site

Location: Arcadia, New York

Supervised By: R. Gant

Date: 7/12/00

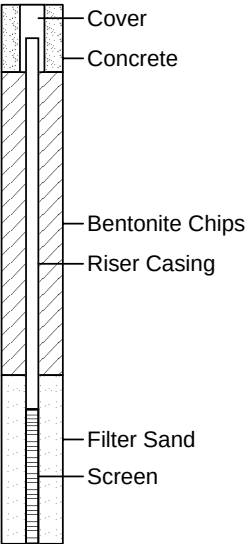
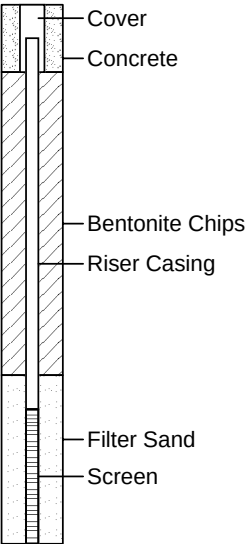
LOG OF VAPOR PROBE VP-1

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Prestolite Electric Facility
Arcade, NY

Date Started : 05/20/2008
Date Completed : 05/21/2008
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Art

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-1
0	AR		Asphalt and Gravel base rock				
1			Brown, SAND, fine to medium, with GRAVEL		0		
2	SP						
3			Brown, SAND, medium, trace fine to coarse, slightly moist.		0	75	
4	SW						
5			Light Brown, SILTY CLAY, with GRAVEL, moist.		0		
6	CL						
7					0	60	
8							
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

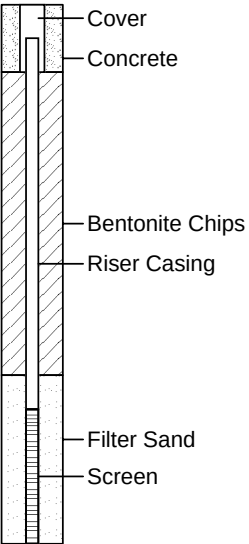
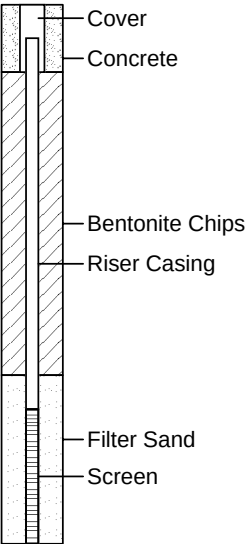
LOG OF VAPOR PROBE VP-2

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Prestolite Electric Facility
Arcade, NY

Date Started : 05/20/2008
Date Completed : 05/21/2008
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Art

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-2
0	AR		Asphalt and Gravel base rock				
1			Brown, SILTY CLAY, some gray, some rust mottling, slightly moist.		0		
2	CL						
3					0	80	
4	SM		Gray SILT and FINE SAND, trace CLAY and GRAVEL, slightly moist.				
5	GW		Greenish Brown, SAND and GRAVEL, trace CLAY, moist.		0		
6			Brown, SAND and GRAVEL, trace CLAY, moist.				
7	GW				0	100	
8			End of Boring at 8 feet.				
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-3

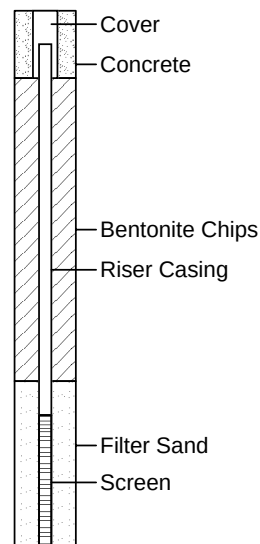
(Page 1 of 1)

Prestolite Electric Facility
Arcade, NY

Date Started : 05/20/2008
Date Completed : 05/21/2008
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Art

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-3
0	AR		Grass and Clayey Black Top Soil, slightly moist.				
1	SC		Brown, SAND SILT CLAY Mixture, trace GRAVEL, slightly moist.		0		
2	SM		Brown SILTY SAND, slightly moist.				
3	SM		Dark Brown SILTY CLAY, some GRAVEL, some Black with organics, slightly moist.		0	80	
4	CL		Light Brown, SILTY CLAY, some FINE SAND, moist.				
5			Brown, SILTY SAND and GRAVEL / COBBLES, trace CLAY, moist to very moist.		0		
6	GW						
7					0	50	
8							
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							



LOG OF VAPOR PROBE VP-4

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Prestolite Electric Facility
Arcade, NY

Date Started : 05/20/2008
Date Completed : 05/21/2008
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Art

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-4
0	AR		Grass and Clayey Black Top Soil, slightly moist.				
1			Brown, SAND SILT CLAY Mixture, trace GRAVEL, slightly moist.		0		
2	SC						
3			- moist		0	75	
4	CL		Dark Brown / Black SILTY CLAY, some GRAVEL, slightly moist.				
5	SM		Brown, SILTY SAND, fine to medium, some rust mottling, moist to very moist.		0		
6			Brown SILTY CLAY, some GRAVEL / COBBLE, some rust mottling, moist.				
7	CL				0	75	
8			End of Boring at 8 feet.				
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-5

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Prestolite Electric Facility
Arcade, NY

Date Started : 05/20/2008
Date Completed : 05/21/2008
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Art

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-5
0	AR		Asphalt and Gravel base rock.				
1			Brown, SAND SILT CLAY Mixture, trace GRAVEL, moist.		0		
2	SC						
3			Greenish Gray SILTY CLAY, some rust-red stringers, slightly moist to moist. - light brown		0	75	
4							
5	CL				0		
6							
7							
8	SC		Light Brown SAND SILT CLAY Mixture, some GRAVEL / COBBLE, moist.		0	75	
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-6

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Prestolite Electric Facility
Arcade, NY

Date Started : 05/20/2008
Date Completed : 05/21/2008
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Art

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-6
0	AR		Asphalt and Gravel base rock.				
1			Dark Gray, SAND SILT CLAY Mixture, trace GRAVEL, some pieces of lumber, slightly moist to moist.		0		
2							
3	SC		- black		0	75	
4							
5			Gray SILTY CLAY, some rust mottling, slightly moist to moist.		0		
6	CL		- dark gray to black				
7					0	80	
8	SC		Black SILT/CLAY, soft, loamy, slightly moist.				
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-7

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Prestolite Electric Facility
Arcade, NYDate Started : 05/20/2008
Date Completed : 05/21/2008
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : ArtSampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-7
0			Grass and Moss over Asphalt over Gravel base rock.				
1	AR				0		Cover
2	GP		Brown GRAVEL, trace SAND.				Concrete
3	CL		Brown to Dark Brown SILTY CLAY, little SAND and GRAVEL, slightly moist.		0	50	Bentonite Chips
4	CL		Greenish Brown to Dark Brown SILTY CLAY, little SAND and trace GRAVEL, slightly moist.				Riser Casing
5	CL				0		
6			- GRAVEL				
7	CL		Greenish Gray SILTY CLAY, little fine to medium SAND, some rust mottling, slightly moist.		0	100	Filter Sand
8							Screen
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-8

(Page 1 of 1)

Prestolite Electric Facility
Arcade, NY

Date Started : 07/15/2009
Date Completed : 07/15/2009
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Randy

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-8
0	TS		Black, Clayey Top Soil, organics, slightly moist.				
1	CL		Dark Brown, CLAY, some Sand and Gravel, slightly moist.		0		
2			- fading to Brown, some very moist vugs				
3	GW		Dark Brown GRAVEL, sandy, little to some Clay, moist.		0	60	
4							
5					0		
6							
7					0	60	
8			End of Boring at 8 feet.				
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-9

(Page 1 of 1)

Prestolite Electric Facility
Arcade, NY

Date Started : 07/15/2009
Date Completed : 07/15/2009
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Randy

Sampling Method : Direct-Push
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-9
0	TS		Black, Clayey Top Soil, organics, slightly moist.				
1	CL		Dark Brown, CLAY, with Sand and Silt, some Gravel, slightly moist.		0		
2			Dark Brown GRAVEL, with Clay, some Sand and Silt, slightly moist.				
3					0	60	
4							
5	GW				0		
6							
7					0	60	
8							
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

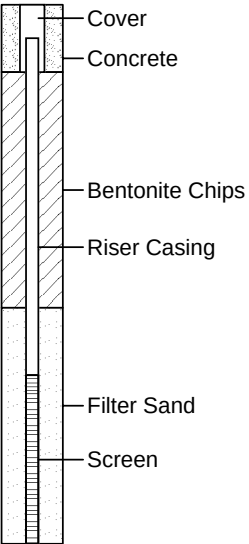
LOG OF VAPOR PROBE VP-10

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Prestolite Electric Facility
Arcade, NY

Date Started : 07/14/2009
Date Completed : 07/14/2009
Drilling Method : HSA
Drilling Company : SJB Drilling
Driller : Nate

Sampling Method : Split-Spoon
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-10
0	TS		Black, Clayey Top Soil, organics, slightly moist.	1			
1			Brown, CLAY, with Silt, some Sand and Gravel, slightly moist.	3	0	25	
2	CL			6			
3				4	0		
4				4	0	0	
5				4	0		
6				7			
7				4	0		
8			Dark Brown GRAVEL, with Sand, little to no Silt and Clay, moist.	3			
9				9	0	0	
10				7			
11				6	0		
12	GW			7			
13				8	0	25	
14				11			
15				29	0		
16			End of Boring at 8 feet.				
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-11

(Page 1 of 1)

Prestolite Electric Facility
Arcade, NY

Date Started : 07/14/2009
Date Completed : 07/14/2009
Drilling Method : HSA
Drilling Company : SJB Drilling
Driller : Nate

Sampling Method : Split-Spoon
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-11
0	TS		Black, Clayey Top Soil, organics, slightly moist.	4			
1			Tan, CLAY, with Silt, trace Gravel, slightly moist.	8	0	50	
2	CL			10			
3				11	0		
4				7			
5				7	0	50	
6			Dark Brown SAND, medium, with coarse SAND and GRAVEL, trace SILT and CLAY, slightly moist. - Cobble at 3.5 feet.	22	0		
7	GW			28	0		
8				22			
9				25	0	75	
10				30			
11				23	0		
12				39			
13				31	0	25	
14				13			
15				18	0		
16			End of Boring at 8 feet.				
17							
18							
19							
20							

LOG OF VAPOR PROBE VP-12

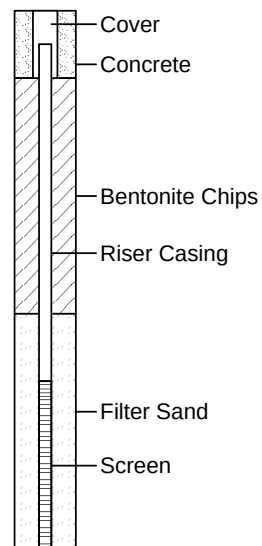
(Page 1 of 1)

Prestolite Electric Facility
400 Main Street
Arcade, NY

Date Started : 11/10/2010
Date Completed : 11/10/2010
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Mike

Sampling Method : Continuous
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-12 1" PVC Casing
0	TS		Black, Clayey Top Soil, organics, slightly moist.				
1	CL		Brown CLAY and SILT moist.		0		
2			Brown SAND with CLAY, SILT and GRAVEL, slightly moist.		0	75	
3	GW				0		
4			Brown SAND and GRAVEL, trace SILT, slightly moist.		0		
5					0		
6	GW				0	75	
7					0		
8					0		
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							



LOG OF VAPOR PROBE VP-13

(Page 1 of 1)

Prestolite Electric Facility
400 Main Street
Arcade, NY

Date Started : 11/10/2010
Date Completed : 11/10/2010
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Mike

Sampling Method : Continuous
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-13 1" PVC Casing
0	TS		Black, Clayey Top Soil, organics, slightly moist.				Cover
1			Brown CLAY, with Sand, Silt and Gravel, slightly moist.		0		Concrete
2	CL				0	75	
3			- greenish gray Peat		0		Bentonite Chips
4			Light Gray and Amber CLAY and SILT.		0		Riser Casing
5	GW				0		
6			Brown CLAY with SILT, SAND and GRAVEL, very moist.		0	75	Filter Sand
7	SC		- cobbles		0		Screen
8					0		
9			End of Boring at 8 feet.				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

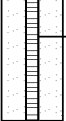
LOG OF VAPOR PROBE VP-14

(Page 1 of 1)

Prestolite Electric Facility
400 Main Street
Arcade, NY

Date Started : 10/23/2011
Date Completed : 10/23/2011
Drilling Method : Geoprobe
Drilling Company : SJB Drilling
Driller : Art

Sampling Method : Continuous
Logged By : P. Allenstein

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)	% Recovery	Vapor Probe: VP-14
0	TS		Black, Clayey Top Soil, organics, slightly moist.				
1	CL		Dark Brown, CLAY, with Sand and Silt, trace Gravel, organics, moist.				
2	CL		Light Brown CLAY with Sand and Silt, trace Gravel, organics, moist.			75	
3	CL						
4	GW		Light Brown SAND, fine to medium, trace coarse, with GRAVEL, slightly moist.				
5	GW		Brown, SAND, fine to medium, trace coarse, with GRAVEL, slightly moist.			75	
6	GW						
7	GW						
8			End of Boring at 8 feet.				
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							