REPORT

Interim Remedial Measure Summary Report

Volume I of II

Niagara Mohawk

A **National Grid** Company

Harper Substation
Niagara Falls, New York

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BBL®

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1. Introduction

1.1 General

This report summarizes interim remedial measure (IRM) activities that were conducted to address environmental concerns associated with soil and subsurface structures at the Niagara Mohawk, a National Grid Company (Niagara Mohawk) Harper Substation located in Niagara Falls, New York. The IRM activities included:

- removing accumulated oil/debris from concrete pads for existing and former 25-cycle transformer banks located west of a former building referred as the "Echota Building";
- excavating visibly oil-stained soil and soil containing elevated concentrations of polychlorinated biphenyls (PCBs) and lead in the vicinity of the existing and former 25-cycle transformer banks;
- excavating visibly oil-stained soil and soil containing elevated concentrations of semi-volatile organic compounds (SVOCs) in the area south and east of the former Echota Building;
- removing water, a thin layer of light non-aqueous phase liquid (LNAPL), and sludge from an inactive 6,000-gallon gasoline underground storage tank (UST) located south of an onsite storage building (the "Storage Building"), and excavating the UST and petroleum-impacted soil for off-site disposal; and
- cleaning subsurface structures (including electrical subways, electrical manholes, and storm sewer manholes/catch basins) at the site to address the presence of noticeable petroleum-type sheens/oil droplets on standing water, visibly oil-stained debris, and debris containing elevated concentrations of PCBs and lead.

The IRM activities were conducted between October and December 2002 by Niagara Mohawk and Op-Tech Environmental Services, Inc. (Op-Tech) of Buffalo, New York. The IRM activities were documented by a full-time onsite observer from Blasland, Bouck & Lee, Inc. (BBL) and the New York State Department of Environmental Conservation (NYSDEC) conducted periodic site visits during completion of the IRM activities.

The IRM activities were conducted in accordance with the following documents and correspondence:

- the multi-site Order on Consent (Index D0-001-9612, as amended May 1997) between Niagara Mohawk and the NYSDEC;
- an IRM Work Plan presented as part of the document entitled, "Preliminary Site Assessment Soil/Subsurface Structure Investigation Report and Interim Remedial Measures Plan," (PSA Report and IRM Plan) prepared by BBL, December 2000;
- an August 31, 2001 letter from Niagara Mohawk to the NYSDEC summarizing additional soil investigation activities and responding to NYSDEC comments on the PSA Report and IRM Plan; and
- an October 30, 2001 letter from the NYSDEC to Niagara Mohawk that approved the IRM activities.

The organization of this report is presented below, followed by a summary of relevant background information, a brief summary of relevant PSA activities and results, and a discussion of the IRM objectives.

1.2 Report Organization

For the purpose of this report, the discussion of the IRM activities implemented at the Niagara Mohawk Harper Substation has been organized as follows:

Section	Purpose
Section 1 - Introduction	Provides an overview of the IRM activities, site background information, a brief summary of the PSA activities and results, and the IRM objectives.
Section 2 – Description of Interim Remedial Measure Activities	Presents a detailed description of the IRMs.
Section 3 – Summary	Presents a brief summary of the IRM activities and Niagara Mohawk's approach for addressing remaining issues associated with the Harper Substation.

1.3 Background Information

This section presents relevant background information used to develop the scope for the IRM activities presented in the IRM Plan. A description of the site is presented below, followed by a summary of relevant historical information, topography and drainage in the vicinity of the site, the geologic and hydrogeologic setting of the site, and a brief summary of relevant PSA activities and results.

1.3.1 Site Description

The Harper Substation is located on Royal Avenue (between 47th Street and Hyde Park Boulevard) in the City of Niagara Falls, Niagara County, New York. A site location map is included as Figure 1. The substation is located on a 25-acre rectangular parcel that is surrounded by industrial facilities to the north, south, and east. The substation is bordered to the west by a grass field which serves as the right-of-way for two large subsurface aqueducts that convey water from intakes on the Niagara River (approximately 0.5 miles south of the substation) to the New York Power Authority (NYPA) Niagara Power Project forebay canal (approximately 3.5 miles northwest of the substation). A residential area is located to the west of the NYPA right-of-way (approximately 1,000 feet west of the substation). The main access road to the substation extends from Royal Avenue which borders the substation property to the north. The general layout of the Harper Substation is presented on the Site Plan included as Figure 2.

As indicated on Figure 2, primary features at the Harper Substation property include the following:

- An outdoor 25-cycle electrical substation and switching structure located in the eastern portion of the fenced substation area. The 25-cycle electrical substation and switching structure consists of a bank of three large 25-cycle transformers (Bank No. 7) which each contain approximately 3,000 to 3,500 gallons of mineral oil. Transformer Bank No. 7 is currently energized. The 25-cycle substation formerly included an additional

bank of three large 25-cycle transformers (Bank No. 11, to the north of Bank No. 7). The Bank No. 11 transformers were removed during the fall of 2000. The concrete pad that formerly supported the transformers remains in-place. Several concrete foundations that formerly supported additional electrical equipment items (including synchronous condensers and condenser switches) remain northeast of the pad for former Transformer Bank No. 11;

- A 60-cycle electrical substation and switching structure located in the western portion of the fenced substation area. The 60-cycle substation (installed during the 1940s) consists of two 115-kilovolt (kV), three-phase transformers which each contain approximately 5,500-gallons of mineral oil. A small substation control building is located along the east side of the 60-cycle substation and switching structure;

- A concrete-block storage building is located along the eastern property boundary. The storage building is not currently in use and contains miscellaneous materials and surplus equipment; and

- Three abandoned concrete-lined structures that formerly served as cooling ponds for water-filled electrical equipment at the substation are located to the northwest of the storage building. The cooling ponds were filled during the late 1970s/early 1980s with miscellaneous construction and demolition debris.

A former building associated with past substation operations known as the "Echota Building" was demolished during the Spring of 2000. The former Echota Building consisted of a multi-story brick structure that housed electrical equipment and also contained various support facilities (including a control room, a pump room, a crane and repair room, and a room labeled "Niagara Junction Rotary Building"). A former two-story brick structure referred to as the Terminal Building was demolished at the same time as the Echota Building. The Terminal Building formerly contained electrical equipment (i.e., circuit breakers and switching equipment) associated with on-site electrical operations. During the demolition activities, brick and concrete debris from the buildings was crushed and used as fill material within the basement of the former Echota Building and on the ground surface over the footprints of the two buildings. Brick and concrete extends beyond the former footprint of the Echota Building to the south and east of the former structure.

According to Niagara Mohawk records, PCB containing oil was historically used at the substation. Niagara Mohawk records indicate that electrical equipment in service at the substation as of 1991 contained approximately 15 gallons of PCB oil (oil containing PCBs at a concentration greater than 500 ppm) and approximately 15,500 gallons of PCB-contaminated oil (oil that contains PCBs at concentrations between 50 and 499 ppm). Two pieces of electrical equipment in the 60-cycle substation are currently labeled as PCB-contaminated.

Niagara Mohawk substation drawings indicate that two horizontally mounted, aboveground oil storage tanks (with capacities of approximately 6,100 and 7,300 gallons) were previously located south of the storage building. The oil storage tanks were installed in the late 1920s and were removed in 1990. Concrete tank saddles remain at the substation and subsurface piping formerly associated with the storage tanks has been cut and capped at the ground surface (subsurface piping associated with the tanks appears to remain in place). In addition, a Niagara Mohawk substation drawing indicates that three aboveground oil storage tanks were formerly located immediately west of the crane and repair room of the former Echota Building. The tanks west of the former Echota Building were apparently associated with a system of underground oil supply and return piping utilized in servicing equipment. The concrete foundations that formerly supported the tanks west of the Echota Building remain in-place. Niagara Mohawk drawings also indicate the presence of a gasoline UST immediately south of the storage building. The gasoline UST was encountered in a test pit excavated south of the storage building (test pit TP-21) during PSA activities.

In addition to the electrical equipment that is currently in service at the substation, several pieces of spare electrical equipment are currently stored in the area north of the former Echota Building for potential future use. Wood utility poles are also stored on concrete and steel storage racks in the southern portion of the substation property.

1.3.2 Topography and Drainage

Topographic mapping of the area in the vicinity of the Harper Substation indicates that the site is fairly level with surface elevations ranging between approximately 572 and 574 feet above mean sea level (AMSL). Storm water drainage is conveyed off site via overland flow and various subsurface drainage structures, including drain tile, catch basins, and electrical manholes that discharge to a municipal combined storm/sanitary sewer known as the Falls Street Tunnel (shown on Figure 2).

Niagara Mohawk site drawings indicate that a relatively complex system of underground utilities extends throughout the substation property, including underground conduits and conduit vaults for equipment control cables associated with the substation, subsurface power feeds from the substation to various industrial facilities in the vicinity of the property, municipal sanitary sewers, and water supply piping. Several former or active industrial process pipelines (which convey material between industrial facilities in the vicinity of the property) also extend along the southern and eastern boundaries of the substation property. The approximate locations of subsurface structures that are thought to exist at and in the vicinity of the substation are shown on Figure 3.

1.3.3 Geology and Hydrology

Soil in the vicinity of the substation has been extensively reworked. The majority of the substation is covered with fill material (i.e., crushed stone, sand, and gravel) that extends to depths of up to approximately 3 feet below grade. Overburden soil encountered beneath the fill material consists primarily of glaciolacustrine deposits (mainly brown sand and silt overlying a reddish-brown clay and silt) which extend to bedrock at depths of approximately 14 to 22 feet below the ground surface.

Groundwater beneath the site is generally encountered at depths ranging from approximately 11 to 17 feet below the ground surface. Daily groundwater level fluctuations (up to approximately 2.5 feet in magnitude) occur at the site as a result of water level fluctuations in the NYPA Niagara Power Project forebay canal.

1.4 Summary of Relevant PSA Activities and Results

This section presents a summary of the PSA activities and results that relate to the IRM activities. Niagara Mohawk retained BBL to conduct a PSA of the Harper Substation to evaluate potential environmental concerns associated with electrical transmission and distribution operations at the site. The PSA consisted of a soil investigation, a groundwater investigation, and a subsurface structure investigation. The results of the PSA soil and subsurface structure investigations formed the basis for the IRM activities described in this summary report.

A summary of field activities and results for the PSA soil investigation is presented below, followed by a summary of field activities and results for the PSA subsurface structure investigation.

Soil Investigation Activities and Results

The PSA soil investigation was conducted to evaluate the potential presence and extent (horizontal and vertical) of chemical constituents in soil at the substation. Field activities conducted as part of the soil investigation included:

- collecting surface soil samples from the 0 to 6 inch depth interval at 24 sampling locations (locations S-1 through S-23 and S-30, as shown on Figure 2). Each surface soil sample was submitted for laboratory analysis for PCBs. In addition, surface soil samples collected from nine of the sampling locations (locations S-2, S-9, S-11, S-15, S-18 through S-20, S-23, and S-30) were also submitted for laboratory analysis for SVOCs and Target Analyte List (TAL) inorganic constituents. The surface soil samples were designated by the pre-fix "SS-" and a number that corresponds to the sampling location (e.g., sample SS-1 was collected at sampling location S-1);

- excavating a total of 31 test pits (as shown on Figure 2) to depths ranging from approximately 3 to 11 feet below the ground surface. Test pits were excavated at locations S-1 through S-27 to facilitate observation of subsurface conditions and the collection of subsurface soil samples for laboratory analysis. Test pits were excavated at locations S-28 and S-29 to further evaluate the size of the underground gasoline storage tank that was identified south of the Storage Building. Test pits were excavated at locations CP-1 and CP-2 to evaluate the fill material in the former cooling ponds; and

- submitting subsurface soil samples collected from 25 test pits for laboratory analysis of PCBs. Subsurface soil samples collected from 15 test pits were also submitted for laboratory analysis for volatile organic compounds (VOCs), SVOCs, and TAL inorganic constituents. The subsurface soil samples collected from the test pits were designated by the prefix "TP-" and number and depth corresponding to the sampling location [e.g., sample TP-1 (0.5-1.5') was collected at a depth of 0.5 to 1.5 feet below grade at sampling location S-1].

The analytical results obtained from the laboratory analysis of the PSA soil samples are presented in the PSA analytical data tables included in Appendix A. A summary of relevant results obtained for the laboratory analysis of the PSA surface and subsurface soil samples is presented below:

- PCBs were detected in five of the surface soil samples (samples SS-9, SS-10, SS-11, SS-22, and SS-23) at concentrations exceeding the 1 ppm NYSDEC-recommended surface soil cleanup objective for total PCBs presented in the document entitled "Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels" HWR-94-4046, dated January 24, 1994 (TAGM 4046). Each of these sampling locations is in the vicinity of the 25-cycle transformer banks. PCBs were detected in surface soil sample SS-10 (collected east of former Bank No. 11) at a concentration of 150 ppm, which exceeds the Toxic Substances Control Act (TSCA)/New York State Hazardous Waste regulatory limit of 50 ppm. None of the subsurface soil samples contained PCBs at concentrations exceeding the 10 ppm NYSDEC-recommended subsurface soil cleanup objective;

- Acetone was the only VOC detected at concentrations exceeding the NYSDEC-recommended soil cleanup objectives presented in TAGM 4046. Acetone was detected in subsurface soil sample TP-4 (1-2') and a duplicate of TP-4 (1-2') at concentrations of 0.25 and 0.5 ppm (respectively). The NYSDEC-recommended soil cleanup objective for acetone is 0.2 ppm. VOCs were not detected in any of the other PSA subsurface soil samples at concentrations exceeding the NYSDEC-recommended soil cleanup objectives;

- SVOCs were detected in 6 of the 9 surface soil samples that were analyzed for SVOCs (samples SS-2, SS-11, SS-18, SS-19, SS-20, and S-30) at concentrations exceeding the NYSDEC-recommended soil cleanup objectives presented in TAGM 4046. The SVOC concentrations detected in two surface soil samples (samples SS-2 and SS-30, which were collected south and east of the former Echota Building, respectively) exceeded the NYSDEC-recommended soil cleanup objectives by several orders of magnitude. SVOCs were detected in surface soil samples SS-11, SS-18, SS-19, and SS-20 at concentrations that slightly exceeded the NYSDEC-recommended soil cleanup objectives. SVOCs were also detected in 10 subsurface soil samples [samples TP-2 (1.5-3.5'), TP-4 (1-2'), TP-9 (1.5-2.5'), TP-11 (1-2'), TP-21 (6.5-7'), TP-23 (1-2'), TP-24 (7.5-8'), TP-25 (8-8.5'), TP-CP1 (3.5-5'), and TP-CP2 (3-5')] at concentrations that slightly exceeded the NYSDEC-recommended soil cleanup objectives; and

- Several inorganic constituents were detected in each of the surface and subsurface soil samples collected as part of the PSA at concentrations exceeding the NYSDEC-recommended soil cleanup objectives presented in TAGM 4046. Lead was detected in five surface soil samples (samples SS-9, SS-11, SS-15, SS-23, and SS-30) at concentrations exceeding the 500 ppm average background lead concentration for metropolitan/suburban areas as presented in TAGM 4046. Concentrations of the remaining inorganic constituents detected in surface and subsurface soil may be representative of background concentrations in the vicinity of the site. As established under TAGM 4046, site background concentrations may be used as appropriate cleanup criteria for all inorganic constituents except mercury (which was detected at concentrations exceeding the 0.1 ppm NYSDEC-recommended soil cleanup objective in 8 of the 9 surface soil samples and in 6 of the 15 subsurface soil samples analyzed for TAL inorganic constituents). The presence of mercury in surface soil at the site is likely associated with off-site industrial sources in the vicinity of the substation.

Visibly oil-stained soil was observed at three surface soil sampling locations in the vicinity of the 25-cycle transformer banks (sampling locations S-9, S-10, and S-23) and at one surface soil sampling location directly east of the Echota Building (sampling location S-30). A petroleum-type odor was noticed in soil samples recovered from the two test pits that were excavated in the vicinity of the underground gasoline storage tank south of the Storage Building (test pits TP-21 and TP-29, at depths of approximately 4.5 to 8 feet below grade). Visibly-stained soil was also encountered at a depth of approximately 6.5 to 8 feet below grade in test pit TP-29.

Subsurface Structure Investigation Activities and Results

The PSA subsurface structure investigation was conducted to evaluate whether subsurface structures at the substation are acting as potential pathways for the migration of chemical constituents to and/or from soil and groundwater. Field activities conducted as part of the subsurface structure investigation included:

- performing a field reconnaissance of the substation to verify the locations of the subsurface structures. A total of 12 storm/sanitary sewer manholes, 3 valve boxes, 7 subsurface control cable vaults (referred to as Subway Nos. 1 through 7), and 36 electrical manholes were identified at the substation. The subsurface structure locations are shown on Figure 3. Subway No. 1 was backfilled with brick/concrete debris generated by the demolition of the Echota Building;

- visually inspecting the majority of the subsurface structures identified at the substation to determine construction information (including the locations and orientations of observed drainage pipes entering or exiting the structures), the presence and depth of any accumulated water, the presence of any petroleum/oil sheen on the surface of accumulated water, and the presence and depth of debris within the subsurface structures;

- collecting grab samples of accumulated debris from five subsurface structures, including storm/sanitary sewer manhole S-2, catch basin S-3, Subway No. 2 (below manhole cover M-5), Subway No. 3 (below manhole cover M-21), and Subway No. 7 (below manhole cover M-75). The debris grab sampling locations were selected based on visual characterization (i.e., visible staining, obvious odors, etc.) and to provide a uniform distribution of data for the subsurface structures at the site. The debris samples were submitted for laboratory analysis for PCBs, VOCs, SVOCs, and TAL inorganic constituents; and

- collecting a sample of the oil that was observed floating on the water surface within an electrical manhole north of the Echota Building (manhole H-15). The oil sample was submitted for laboratory analysis of PCBs.

A summary of relevant results obtained from the subsurface structure inspection activities is presented below:

- Visibly-stained debris was observed within Subway No. 2 (below manhole cover M-5) and in the western portion of Subway No. 4 (below manhole covers M-43 and M-46);

- Slight petroleum-type sheens were observed on the surface of standing water in Subway No. 2 (below manhole cover M-1), in Subway No. 3 (below manhole covers M-20, M-25, and M-27), and in electrical manholes H-4, H-12, H-13, 1701, 1702, 1805, 1900, 1903, and 2504;

- Oil droplets were observed on the surface of standing water in Subway No. 2 (below manhole cover M-5) and in Subway No. 3 (below manhole covers M-19 and M-21); and

- An oil film was observed on the water surface in manhole H-15, located north of the former Echota Building.

No directly-applicable NYSDEC cleanup standards/guidance values were identified for accumulated debris within the subsurface structures. Analytical results obtained from the laboratory analysis of the subsurface structure debris samples collected during the PSA for PCBs, VOCs, SVOCs, and TAL inorganic constituents are presented below:

- PCBs were detected in each of the five subsurface structure debris samples at concentrations ranging from an estimated 0.14 ppm in debris sample M-75 to 44 ppm in debris sample M-21;

- VOCs were detected at concentrations exceeding laboratory detection limits in four of the five subsurface structure debris samples;

- SVOCs were detected at concentrations exceeding laboratory detection limits in all five of the subsurface structure debris samples; and

- Several TAL inorganic constituents were detected in each of the subsurface structure debris samples. Lead was detected at a concentration exceeding 500 ppm in subsurface structure debris samples M-5 (3,120 ppm), M-21 (3,920 ppm), M-75 (13,200 ppm), and S-3 (553 ppm). Mercury was detected at a concentration exceeding 1 ppm in subsurface structure debris samples M-5 (11.9 ppm), M-21 (1.3 ppm), and S-3 (1.1 ppm).

PCBs were identified in the oil sample collected from manhole H-15 at a concentration of 54 ppm (which exceeds the New York State hazardous waste/TSCA regulatory limit of 50 ppm).

1.5 IRM Objectives

Based on the results of the PSA, the objectives of the IRM activities at the Niagara Mohawk Harper Substation were to address identified environmental concerns associated with soil and subsurface structures through implementation of the following activities:

- *Concrete Surface Cleaning*: Removing accumulated oil from the concrete pads for the existing and former 25-cycle transformers west of the former Echota Building;

- *Soil Excavation*: Excavating surface soil from the vicinity of the existing and former 25 cycle transformers (near PSA sampling locations S-9, S-10, S-11, S-22, and S-23) to remove visibly stained soil and soil containing PCBs at concentrations exceeding 10 ppm. An additional objective of this IRM activity was to excavate soil from areas south and east of the former Echota Building (near PSA sampling locations S-2 and S-30) to remove visibly oil-stained soil and soil containing SVOCs at concentrations exceeding the NYSDEC-recommended soil cleanup objectives presented in TAGM 4046 by several orders of magnitude;

- *Underground Storage Tank Removal*: Removing the inactive 6,000-gallon gasoline UST located south of the Storage Building and excavating petroleum-impacted soil surrounding the tank; and

- *Subsurface Structure Cleaning*: Removing standing water and accumulated debris from each existing electrical subway (Subway Nos. 2 through 7), 10 electrical manholes (H-4, H-12, H-13, H-15, 1701, 1702, 1805, 1900, 1903, and 2504), one storm/sanitary sewer manhole (S-2), and two catch basins (S-3 and S-11). PSA investigation results indicated the presence of petroleum-type sheens or oil droplets on standing water, oil-stained debris, and the presence of debris containing PCBs and/or lead at elevated concentrations at each of these structures. An additional objective of this IRM activity was to remove the oil containing PCBs at concentrations exceeding 50 ppm from electrical manhole H-15.

2. Description of Interim Remedial Measure Activities

2.1 General

This section presents a description of the IRM activities that were completed to address environmental concerns associated with soil and subsurface structures at the Niagara Mohawk Harper Substation. The IRM activities are discussed in the following subsections:

Subsection Number	Work Task
2.2	Mobilization/Site Preparation
2.3	Concrete Foundation Cleaning
2.4	Soil Excavation
2.5	Underground Storage Tank Removal
2.6	Subsurface Structure Cleaning
2.7	Waste Characterization and Disposal
2.8	Backfilling
2.9	Demobilization/Site Restoration

Location of the IRM soil excavation and UST removal activities that were conducted at the Harper Substation are shown on Figure 4. The final excavation limits and verification sampling locations for the IRM soil excavation and UST removal activities are shown on 5. An analytical sample summary, that indentifies the laboratory analyses performed for each sample is presented in Table 1. Laboratory analysis of the IRM samples was performed by Severn Trent Laboratories, Inc. (STL) of Amherst, New York.

As previously indicated, the IRM activities were conducted by Niagara Mohawk and Op-Tech, and were documented by an onsite BBL observer. In addition, the NYSDEC conducted periodic site visits during the completion of the IRM activities. Work activities conducted by BBL's onsite observer in connection with the IRM activities included:

- reviewing/providing comments on Contractor submittals;
- providing full-time, onsite observation during the project and coordinating with Niagara Mohawk and Op-Tech to complete the IRM activities in general accordance with the NYSDEC-approved IRM Plan (BBL, December 2000) and contract documents;
- documenting daily field activities, material quantities, onsite manpower, and equipment utilization. Copies of the daily field reports prepared by BBL's onsite observer are included in Appendix B of this report;
- conducting air monitoring during the soil excavation activities to evaluate the presence/concentration of airborne particulates;
- visually characterizing soil excavated during the IRM activities;
- collecting soil samples from the limits of the UST excavation area for jar testing to identify petroleum type sheens or droplets of separate phase materials. Soil samples collected at the limits of the UST excavation

were also screened using a photoionization detector (PID) to evaluate the potential presence of volatile organic vapors;

- collecting verification soil samples for laboratory analysis to determine if constituents of concern remained in soil at the excavation limits at concentrations exceeding the IRM cleanup objectives;

- delineating the limits of additional excavation activities that were required based on visual characterization, field screening, and verification soil sampling results; and

- collecting waste characterization samples to evaluate offsite disposal requirements for wastes generated by the IRM activities.

A detailed discussion of each work task associated with the IRM activities is presented below.

2.2 Mobilization/Site Preparation

Contractor mobilization and site preparation activities were initiated by Op-Tech on October 21, 2002 and included:

- mobilizing equipment necessary to complete the IRM activities. Equipment used by Op-Tech during the IRM activities included a tracked excavator, a rubber-tired backhoe, a front-end loader, a 6-wheel dump truck, a 3,500-gallon vacuum truck, and a 2,000-psi pressure washer;

- mobilizing miscellaneous polyethylene tanks for potable water storage and a 6,750-gallon polyethylene storage tank and 20,000-gallon frac tank for temporary storage of wastewater generated during the IRM activities;

- verifying the existing site conditions and marking the locations of aboveground and underground utilities, equipment, and structures, as necessary, to implement the IRM activities;

- installing control measures (i.e., high visibility orange safety fence or caution tape) around the perimeter of the excavation areas to minimize the potential for accidental entry and to limit unauthorized access into the area; and

- constructing a bermed material staging area for temporarily staging of impacted soil excavated as part of the IRM activities, and a decontamination pad for equipment utilized during the completion of the IRM activities. The material staging area was constructed by placing two layers of 6 mil polyethylene sheeting over an area surrounded by a wooden frame constructed of 2- by 8-inch wood boards. The decontamination area was constructed by placing three layers of 6 mil polyethylene sheeting on the ground surface and sloping the area to a low spot to collect water from the decontamination activities.

In addition to the mobilization and site preparation activities described above, Niagara Mohawk also mobilized a separate rubber-tired backhoe and various cleaning supplies to facilitate the soil excavation and concrete foundation cleaning activities that were conducted by Niagara Mohawk personnel.

2.3 Concrete Foundation Cleaning

Prior to conducting soil excavation activities, Niagara Mohawk removed accumulated oil from the surface of concrete foundations for the current and former 25-cycle transformer banks located west of the former Echota Building. Concrete foundation cleaning activities were conducted in accordance with the double wash/rinse procedures presented in 40 CFR 761 Subpart S. Concrete foundation cleaning activities included:

- removing residual oil from the concrete surfaces using absorbent pads;
- covering the concrete foundation surfaces with an industrial strength detergent (Mighty Might T100) and scrubbing/wiping down the concrete surfaces. Residual cleaning solution was recovered using clean absorbent pads; and
- rinsing off the concrete surfaces using clean water, collecting and transferring the rinse water to an appropriate waste container, and wiping up the excess rinse water; and
- repeating the cleaning process where heavy or persistent staining was present.

Waste materials generated during the concrete foundation cleaning activities (i.e., soiled absorbent pads, spent cleaning fluid, etc.) were containerized in 55-gallon drums and transported for off-site disposal in accordance with applicable rules and regulations as discussed below in Section 2.7 – Waste Characterization and Disposal.

2.4 Soil Excavation

Niagara Mohawk excavated soil within the limits of three removal areas that were identified by the PSA activities. In accordance with the IRM Plan, soil was removed from the following areas:

- Excavation Area 1 – Soil containing elevated concentrations of PCBs and lead and visibly oil-stained soil in the vicinity of the 25-cycle transformers;
- Excavation Area 2 – Soil containing elevated concentrations of SVOCs in the area south of the former Echota Building; and
- Excavation Area 3 – Soil containing elevated concentrations of PCBs and visibly oil-stained soil east of the former Echota Building.

Approximately 220 cubic yards (CY) of impacted soil was removed from Excavation Areas 1 through 3. With the exception of approximately 20 CY of soil excavated in the vicinity of PSA soil sampling location S-10 (which contained PCBs at a concentration exceeding the New York State hazardous waste/TSCA regulatory limit of 50 ppm), soil removed from Excavation Areas 1 through 3 was combined into one stockpile. Soil excavated in the vicinity of sampling location S-10 was staged separately for waste characterization purposes to determine appropriate disposal methods.

A detailed description of the work performed for each soil excavation area is presented below.

Excavation Area 1

After completing the concrete foundation cleaning activities, Niagara Mohawk excavated soil within Excavation Area 1 to a target depth of 1 foot (across most of the excavation area, except where noted on Figure 4). After reaching the anticipated target depth, BBL's onsite observer visually assessed the excavation sidewalls and floor to evaluate whether the limits of visibly oil-stained soil had been reached. No visible staining was noticed. BBL's onsite engineer then collected 18 verification soil samples (samples VF-A1-B1 through B7 and VF-A1-S1 through S11) at the locations shown on Figure 4 for laboratory analysis for PCBs, SVOCs, and lead. Results obtained for the analysis of the verification soil samples indicated the following:

- PCBs were not detected at concentrations exceeding the IRM cleanup objectives;
- SVOCs were detected in eight of the verification soil samples at concentrations slightly exceeding the NYSDEC-recommended soil cleanup objectives; and
- Lead was detected at concentrations that appeared to be lower than typical background concentrations for western New York State.

Based on the location and anticipated future use for this site (low-occupancy industrial usage), the concentrations of SVOCs in the remaining soil at the limits of Excavation Area 1 do not warrant additional excavation. Verification soil sampling results are included in Table 2. The final soil removal limits and verification sampling locations for Excavation Area 1 are shown on Figure 3. The final extent of the excavation activities for Excavation Area 1 included the removal of approximately 120 CY of soil across a 2,175-square foot (SF) area.

Excavation Area 2

The soil removal activities in Excavation Area 2 were conducted in four stages as described below.

Stage 1

Prior to initiating soil excavation activities for Excavation Area 2, Niagara Mohawk removed brick/concrete debris from the demolition of the former Echota Building that had been graded across the surface of the excavation area. Niagara Mohawk then excavated soil within the limits of Excavation Area 2 to the target depth of 1 foot. After reaching the anticipated target depth, BBL's onsite observer visually assessed the excavation sidewalls and floor to evaluate whether the limits of visibly oil-stained soil had been reached. No visible staining was noticed. BBL's onsite observer then collected five verification soil samples (samples VF-A2-B1 and VF-A2-S1 through S4) from the bottom and sidewalls of the excavation for laboratory analysis for PCBs, SVOCs, and lead. Results obtained for the analysis of the verification soil samples indicated the following:

- PCBs were not detected at concentrations exceeding IRM objectives.
- SVOCs were detected in each of the verification soil samples at concentrations exceeding NYSDEC-recommended soil cleanup objectives by two to three orders of magnitude.
- Lead was detected at concentrations that appeared to be consistent with typical background concentrations expected for western New York State.

Stage 2

Based on the results obtained for the initial verification soil samples, Niagara Mohawk extended the limits of the excavation by approximately 18 inches laterally in each direction and 18 inches deeper over the entire excavation. After reaching the new excavation limits, BBL's onsite observer collected five additional soil verification samples (samples VF-A2-B1A and VF-A2-S1A through S4A) from the bottom and sidewalls of the excavation. Each sample was submitted to STL for laboratory analysis for SVOCs. Results obtained for the analysis of the soil sample VF-A2-S4A (collected from the southern wall of the excavation) indicated the presence of several SVOCs at concentrations exceeding the NYSDEC-recommended soil cleanup objectives by two to three orders of magnitude. SVOCs were also detected at relatively low concentrations in each of the remaining verification soil samples

Stage 3

Based on the results of the additional verification soil samples, Niagara Mohawk extended the excavation approximately 4 feet to the south across the entire excavation width. Following completion of the additional excavation activities, BBL's onsite observer collected an additional verification sample from the southern sidewall of the excavation (VF-A2-S4B) for laboratory analysis for SVOCs. Results obtained for the analysis of the verification soil sample indicated the presence of SVOCs at concentrations exceeding NYSDEC-recommended cleanup objectives by two to three orders of magnitude.

Stage 4

Based on the verification sampling results following the third stage of excavation efforts for Excavation Area 2, Niagara Mohawk extended the excavation a final time approximately 8 feet to the south across the entire width of the excavation. Following completion of the excavation activities, BBL's onsite observer collected an additional verification soil sample from the southern wall of the excavation (VF-A2-S4C) for laboratory analysis for SVOCs. Results obtained for the analysis of the additional verification soil sample indicated that SVOCs were not present at concentrations exceeding the NYSDEC-recommended soil cleanup objectives.

Verification soil sampling results are included in Table 2. The final soil removal limits and verification sampling locations for Excavation Area 2 are shown on Figure 5. The final extent of the excavation activities for Excavation Area 2 included the removal of approximately 70 CY of soil across an approximately 741 SF area to depths ranging between 2.5 and 5 feet.

Excavation Area 3

The soil removal activities in Excavation Area 3 were conducted in four stages as described below.

Stage 1

Prior to initiating soil excavation activities for Excavation Area 3, Niagara Mohawk removed brick/concrete debris from the demolition of the former Echota Building that had been graded across the excavation area. Niagara Mohawk then excavated soil within the limits of Excavation Area 3 to the target depth of 1 foot. After reaching the anticipated target depth, BBL's onsite observer visually assessed the excavation sidewalls and floor to evaluate whether the limits of visibly oil-stained soil had been reached. No visible staining was noticed. BBL's onsite observer then collected five verification soil samples (samples VF-A3-B1 and VF-A3-S1 through S4) from the bottom and sidewalls of the excavation. Each sample was submitted to STL for laboratory analysis for PCBs, SVOCs, and lead. Results obtained for the analysis of the verification soil samples indicated the following:

- PCBs were not detected at concentrations exceeding IRM cleanup objectives.
- SVOCs were detected in each of the verification soil samples at concentrations exceeding NYSDEC-recommended soil cleanup objectives by two to three orders of magnitude.
- Lead was detected at concentrations that appeared to be consistent with typical background concentrations that would be expected for western New York State.

Stage 2

Based on the results obtained for the initial verification soil samples, Niagara Mohawk extended the limits of the excavation approximately 6 inches laterally in each direction and approximately 1 foot deeper across the entire excavation. After reaching the new excavation limits, BBL's onsite observer collected five additional soil verification samples (samples VF-A3-B1A and VF-A3-S1A through S4A) from the bottom and sidewalls of the excavation. Each sample was submitted to STL for laboratory analysis for SVOCs. Results obtained for the analysis of the soil samples VF-A3-B1A, VF-A3-S1A, and VF-A3-S2A (collected from the bottom, western sidewall, and northern sidewall of the excavation, respectively) indicated the presence of several SVOCs at concentrations exceeding the NYSDEC-recommended soil cleanup objectives by two to three orders of magnitude. SVOCs were also detected in each of the remaining verification soil samples at relatively low concentrations.

Stage 3

Based on the results obtained for the additional verification soil samples, Niagara Mohawk increased the depth of the excavation to approximately 3.5 feet and extended the limits of the excavation approximately 6 inches to the west and 5 feet to the north across the entire excavation. Following completion of the additional excavation activities, BBL's onsite observer collected three additional verification samples from the floor and the northern and western sidewalls of the excavation (samples VF-A3-B1B, VF-A3-S1B, and VF-A3-S2B, respectively) for laboratory analysis for SVOCs. Results obtained for the analysis of the verification soil samples indicated that SVOCs remained in soil at the northern and western excavation sidewalls at concentrations exceeding the NYSDEC-recommended soil cleanup objectives by two to three orders of magnitude. SVOCs were also detected at relatively low concentrations in verification soil sample VF-A3-B1B.

Stage 4

Based on the results of the third set of soil verification samples, Niagara Mohawk extended the excavation approximately 6 inches to the west and 6 feet to the north across the entire width of the excavation. Following completion of the excavation activities, BBL's onsite observer collected additional verification soil samples from the floor and the western and northern sidewalls of the excavation (samples VF-A3-B1C, VF-A3-S1C, and VF-A3-S2C). Each sample was submitted to STL for laboratory analysis for SVOCs. Results obtained for the analysis of the verification soil samples indicated that SVOCs were not detected at concentrations exceeding the IRM cleanup objectives in samples VF-A3-B1C and VF-A3-S1C. SVOCs were detected in sample VF-A3-S2C at estimated concentrations that slightly exceeded the IRM cleanup objectives. However, the estimated SVOC concentrations detected in verification soil sample VF-A3-S2C did not warrant additional excavation efforts based on the location and the anticipated future use of the site.

Verification soil sampling results are included in Table 2. The final soil removal limits and verification sampling locations for Excavation Area 3 are shown on Figure 5. The final extent of the excavation activities

for Excavation Area 3 included the removal of approximately 30 CY of soil across an approximately 271 SF area to depths ranging between 3 and 3.5 feet.

2.5 Underground Storage Tank Removal

In addition to the excavation activities described above, Op-Tech removed the inactive 6,000-gallon gasoline UST that was encountered during the PSA activities immediately south of the inactive onsite Storage Building, as shown on Figure 3. Prior to removing the inactive tank, Niagara Mohawk submitted a Petroleum Bulk Storage Application (included as Appendix C) to register the tank with the NYSDEC. During the removal activities, the NYSDEC conducted a site visit to observe the conditions within the tank excavation. The final limits of the excavation resulting from the UST removal activities and the final soil verification sampling locations are shown on Figure 5. The tank removal activities included:

- identifying the location and uncovering the top of the underground storage tank, vent piping, and the UST fill line;

- excavating soil to expose the top of the UST. A portion of the soil excavated from above the top surface of the UST (approximately 500 CY) was staged on polyethylene sheeting for use as backfill material. The remainder of the soil was staged separately on polyethylene sheeting for off-site disposal. The top of the underground storage tank was approximately 3 feet below the ground surface;

- pumping approximately 4,700 gallons of water with a thin layer of light non-aqueous phase liquid (LNAPL) from the UST to the onsite 6,500-gallon polyethylene storage tank;

- testing the atmosphere inside and outside the tank (for volatile organic vapors, percent oxygen, combustible gas levels) to determine if a potentially hazardous atmosphere existed. Based on the results of the air monitoring, a hazardous atmosphere did not exist;

- cutting piping associated with the tank to facilitate removal of the UST from the ground;

- excavating the UST. The tank was transferred to the polyethylene-lined material staging area to facilitate cleaning of the interior and exterior tank surfaces using a detergent and high pressure water spray. Op-Tech collected and containerized wash waters generated by the tank cleaning activities.

- removing residual debris from the bottom of the UST. The debris was containerized in four 55-gallon drums that were placed in the material staging area for off-site transportation and disposal;

- excavating approximately 250 CY of soil that was visibly-stained and exhibited obvious petroleum-type odors and/or elevated PID readings in the vicinity of the UST excavation following removal of the UST. Op-Tech transferred the excavated soil to the material staging area;

- removing and containerizing liquids from the excavation to facilitate visual characterization and collection of verification soil samples at the excavation limits. Following removal of the visibly-impacted soil, BBL collected samples from the excavation limits for jar testing to evaluate whether petroleum-type sheens or droplets of separate-phase materials were present. Samples collected at the limits of the tank excavation were also screened using a PID to identify the presence/absence of volatile organic vapors in soil at the limits of the excavation. Jar testing did not identify the presence of separate phase materials, and PID readings ranged from 0.5 ppm for the sample collected from the west wall of the excavation to 3.5 ppm for

the sample collected from the bottom of the excavation. No additional excavation activities were conducted based on the results of the soil screening activities; and

- pumping approximately 100 gallons of groundwater/perched water that accumulated within the excavation area, water that accumulated in the material staging area sump during the dewatering of soil that was removed from the UST excavation, and water generated by decontamination activities into the 20,000-gallon onsite storage tank.

BBL collected verification soil samples from each sidewall (at a height of approximately one-third up the sidewall) and the bottom of the UST soil excavation [verification soil samples VF-T-1S(N), VF-T-2S(S), VF-T-3S(E), VF-T-4S(W), and VF-T-5S(B)]. The samples were submitted to STL for laboratory analysis for PCBs, VOCs, SVOCs, and lead. Results obtained for the analysis of the samples indicated the following:

- PCBs were not detected at concentrations exceeding the laboratory detection limit;
- individual VOCs or SVOCs were not detected at concentrations exceeding the NYSDEC-recommended soil cleanup objectives; and
- lead was detected at concentrations that were lower than typical background soil concentrations in western New York.

Following tank cleaning activities, BBL collected two wipe samples (wipe samples VF-T-INSIDE and VF-T-OUTSIDE from the inside and outside surfaces of the tank, respectively) and submitted the samples to STL for laboratory analysis for PCBs. Analytical results for the wipe samples indicated that PCBs were not detected above the laboratory detection limit of 0.5 micrograms per 100 square centimeters ($\mu g/100cm^2$). Based on the wipe sample results, the tank was crushed and transported offsite for smelting at Steel City Recycling located in Lackawanna, New York. Results for the verification wipe samples are included in Table 3.

2.6 Subsurface Structure Cleaning

Op-Tech used the vacuum truck and manual methods (shovels, pressure washer, scrubber, etc.) to remove standing water, accumulated debris, and residual oil staining (where encountered) from selected onsite subsurface structures (including subways, electrical manholes, and sanitary/storm sewer manholes). The subsurface structures cleaned as part of the ICM activities are shown on Figure 3 and include:

- electrical Subway Nos. 2 through 7;
- electrical manholes H-4, H-12, H-13, H-15, 1701, 1702, 1805, 1900, 1903, and 2504;
- storm/sanitary sewer manhole S-2; and
- catch basins S-3 and S-11.

Op-Tech also cleaned the interior surfaces of the structures where residual debris/oil staining was observed. General procedures utilized for the subsurface structure cleaning activities included:

- exposing the subsurface structures (as necessary) by removing crushed stone and/or soil and removing the cover over each structure to provide access;

- removing standing water from each subsurface structure using the vacuum truck and transferring the water to a 20,000-gallon frac tank to allow for settling of suspended solids;

- cleaning the interior surfaces of subsurface structures where residual debris/oil staining was observed (with the exception of subsurface structures that contained energized electrical distribution cable). The cleaning was conducted using a steam cleaner/pressure washer and/or degreaser to remove residual oil to the satisfaction of BBL's onsite observer. Wash waters generated by the cleaning were removed from the structures using the vacuum truck and transferred to the onsite 20,000-gallon frac tank; and

- conducting a post-cleaning visual inspection of the interior surfaces of each subsurface structure to assess the effectiveness of the cleaning activities. Pressure washing activities were repeated until no visible debris remained within the structures.

Op-Tech did not encounter oil on the water surface within electrical manhole H-15 as noted during the PSA activities. However, BBL collected and submitted a water sample (sample H-15) to STL for laboratory analysis for PCBs to identify appropriate water disposal methods. Results of the waste characterization sample and a summary of the wastewater disposal methods are presented below in Section 2.7.

During the completion of the subsurface structure cleaning activities, Op-Tech encountered the following:

- Large pieces of concrete (apparently from the ceiling of the manhole) were encountered within manhole H-12. Based on the size of the debris, Op-Tech cleaned the manholes without removing the debris;

- Debris encountered in the subsurface structures ranged in depth from trace amounts or less than 1 inch (in each of the electrical subways, as well as electrical manholes H-12, H-15, 1805, 1900, and storm/sanitary manhole S-2) to approximately 30 inches in catch basin S-3. With the exception of S-3, debris generally consisted of sand and gravel. Debris encountered in catch basin S-3 consisted of rocks, brick fragments, wood, and concrete. Following removal, debris was transferred to a roll-off container for offsite transportation and disposal; and

- Heavy oil staining was encountered in manholes 19 and 20 along Subway No. 3. After de-energizing wires running through the subway in the vicinity of the oil staining, Op-Tech cleaned the stained concrete surfaces and containerized the wastewater.

2.7 Waste Characterization and Disposal

Waste streams generated during the implementation of the ICM activities included the following:

- A total of approximately 470 cubic yards (CY) of soil from the gasoline UST and the three soil excavation areas;

- A total of approximately 26,400 gallons of wastewater from pumping standing water from the subsurface structures, wash water from the subsurface structure cleaning activities, pumping standing water from the gasoline UST, and equipment decontamination wash water;

- Approximately 15 CY of debris generated during subsurface structure cleaning activities;

- Four 55-gallon drums of debris removed from the gasoline UST;
- Three 55-gallon drums of oil-impacted absorbent pads generated during the concrete foundation cleaning activities; and
- The 6,000-gallon gasoline UST.

In order to characterize the waste materials for disposal purposes, BBL's onsite observer collected the following waste characterization samples:

Sample ID	Waste Material
WC-1	Soil excavated from the vicinity of the gasoline UST
WC-2	Suspected TSCA-regulated soil excavated from the vicinity of PSA soil sampling location S-10
WC-3	Soil removed from the remainder of Excavation Areas 1, 2, and 3
WC-4	Debris removed from the subsurface structures
WC-5	Oil-impacted absorbent pads and debris from concrete cleaning activities
WC-6	Sludge and wash water removed from the gasoline UST
WW-1	Water and LNAPL removed from the gasoline UST
WW-2	Water pumped from the subsurface structures
WW-3	Water generated by the subsurface structure cleaning activities
H-15	Water pumped from manhole H-15

With the exception of samples WC-5 and H-15, the above-listed samples were submitted to STL for laboratory analysis for PCBs, Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, ignitability, corrosivity, and reactivity. Samples WC-5 and H-15 were submitted for analysis for PCBs only. Waste characterization soil/debris analytical results are presented in Table 4, and the wastewater analytical results are presented in Table 5.6.

Based on the results obtained for the analysis of the waste characterization samples, soil, debris, and wastewater generated by the ICM activities were disposed of as follows:

- Results obtained for the analysis of waste characterization sample WC-3 for soil removed from Excavation Areas 1, 2, and 3 (with the exception of the soil in the vicinity of PSA sampling location S-10) indicated the presence of leachable lead at a concentration of 5.9 ppm, which exceeds the 5.0 ppm Resource Conservation and Recovery Act (RCRA) toxicity-characteristic hazardous waste limit. Therefore, this material was transported to the Chemical Waste Management (CWM) Model City Landfill in Niagara Falls, New York for disposal as a characteristic hazardous waste for lead (category D008);
- Results obtained for the analysis of waste characterization sample WC-4 for debris removed from the subsurface structures indicated the presence of leachable tetrachloroethylene (PCE) at a concentration of 1.2 ppm, which exceeds the 0.7 ppm RCRA toxicity-characteristic hazardous waste limit. Therefore, this material was transported to the CWM Model City Landfill for disposal as a characteristic hazardous waste for PCE (category D039);
- Results obtained for the analysis of waste characterization sample WC-5 for absorbent pads and debris generated during the concrete pad cleaning activities indicated the presence of PCBs at a concentration of 36

ppm. Although this concentration does not exceed the 50 ppm regulatory limit, the waste was disposed of at CWM's Model City Landfill as a New York State/TSCA hazardous waste for PCBs;

- Results obtained for the analysis of the waste characterization samples for the remaining solid waste (samples WC-1, WC-2, and WC-6) did not indicate elevated concentrations of PCBs, TCLP VOCs, TCLP SVOCs, TCLP metals, or the hazardous waste characteristics of ignitability, corrosivity, or reactivity. Soil excavated from the vicinity of the gasoline UST and soil removed from the vicinity of PSA soil sampling location S-10 (characterized by samples WC-1 and WC-2) was transported for off-site disposal as a non-hazardous waste at the CID Landfill in Chaffe, New York. Debris removed from the UST (characterized by sample WC-6) was transported for off-site disposal as a non-hazardous waste at High Acres Landfill in Fairport, New York; and

- Results obtained for the analysis of the wastewater characterization samples (samples WW-1, WW-2, WW-3, and H-15) did not indicate elevated concentrations of PCBs, VOCs, SVOCs, or metals or the hazardous waste characteristics of ignitability, corrosivity, or reactivity. However, based on a gasoline-type sheen on the water pumped from the gasoline UST, the waste water was transported to Industrial Oil Tank Services in Oriskany, New York for treatment and disposal. With the exception of two 55-gallon drums of decontamination water that were transported for off-site disposal at High Acres Landfill, the remainder of the liquid waste was transported for disposal at the North Tonawanda Waste Water Treatment Plant in North Tonawanda, New York.

The quantity and disposal location for each waste stream generated by the IRM activities is summarized in the following table.

Waste Stream	Quantity	Classification	Disposal Location
Soil removed from Excavation Areas 1, 2, and 3	200 CY	RCRA Hazardous Lead (D008)	CWM Model City Landfill
Soil removed from the vicinity of the gasoline UST	250 CY	Non-hazardous	CID Landfill
Soil removed in the vicinity of PSA soil sampling location S-10	20 CY	Non-hazardous	CID Landfill
Water generated by the subsurface structure cleaning activities	21,555 gallons	Non-hazardous	North Tonawanda Waste Water Treatment Plant
Water removed from the gasoline UST	4,730 gallons	Non-hazardous (gasoline-type sheen present on water surface)	Industrial Oil Tank Services Corporation
Debris removed from the subsurface structures	1 – 25 CY rolloff	RCRA Hazardous Tetrachloroethene (D039)	CWM Model City Landfill (macroencapsulation)
Oil-impacted absorbent pads and debris from concrete pad cleaning activities	3 – 55-gallon drums	New York State/TSCA-hazardous waste for PCBs	CWM Model City Landfill
debris/water from the gasoline UST	6 – 55-gallon drums	Non-hazardous waste	High Acres Landfill

Copies of the waste manifests for the IRM waste shipments from the site are included in Appendix D of this report.

2.8 Backfilling

Backfilling activities were initiated following receipt of verification soil sampling results indicating that the IRM soil removal objectives had been achieved. Each of the soil excavations (Excavation Areas 1, 2, 3 and the gasoline UST excavation) were backfilled to previous lines and grades with 2-inch crushed limestone obtained from the LaFarge Corporation quarry in Niagara Falls, New York. A total of approximately 410 tons of backfill material was obtained for the soil excavation backfilling activities. Prior to placing the backfill material, each excavation was lined with geotextile fabric to delineate the extent of the soil removal activities. A sample of the backfill material was submitted to STL for laboratory analysis for PCBs, TCL VOCs, TCL SVOCs, and TAL inorganics. Results of the laboratory analysis indicated that the material did not contain PCBs, VOCs, SVOCs, or inorganic constituents at concentrations exceeding the NYSDEC-recommended soil cleanup objectives presented in TAGM 4046. The results of the backfill sample are included in Table 6. 4.

2.9 Demobilization/Site Restoration

Equipment used during the IRM activities (including the excavator, backhoe, front-end loader, dump truck, and vacuum truck, storage tanks, and miscellaneous tools and equipment) were decontaminated prior to demobilization. The demobilization of all equipment, materials, and personnel from the site was completed on December 6, 2002. Prior to demobilization general site cleanup activities were conducted to remove miscellaneous materials utilized during the IRM activities.

3. Summary

The IRM activities at the Niagara Mohawk Harper Substation were implemented to address the following environmental concerns.

- Oil-stained concrete pads for the existing and former 25-cycle transformer banks located west of the former Echota Building;
- Visibly-stained surface and subsurface soil and soil containing PCBs, SVOCs, and/or lead in the vicinity of Excavation Areas 1 through 3;
- The inactive 6,000-gallon gasoline UST that was identified in the area immediately south of the Storage Building and petroleum-impacted soil that was encountered in the vicinity of the UST;
- subsurface structures containing standing water and debris, visible signs of oil (e.g., oil droplets, petroleum-type sheens, oil-impacted debris), and debris containing elevated concentrations of PCBs or lead.

Based on the IRM verification soil sampling results and visual inspections of the cleaned subsurface structures, no further investigation or remedial activities are proposed to address the identified environmental concerns associated with soil and subsurface structures at the Harper Substation.

Hydrologic conditions and groundwater quality in the vicinity of the Niagara Mohawk Harper Substation were also evaluated as part of the PSA activities conducted by BBL. Groundwater conditions in the vicinity of the site are fairly complex due to regional groundwater impacts associated with industrial activities and the hydrologic influence of the NYPA subsurface conduits and Falls Street Tunnel. Niagara Mohawk is currently preparing a PSA Groundwater Investigation Report that will present a detailed description of groundwater flow and quality in the vicinity of the site. The report will also summarize results recently obtained for a NYPA evaluation of NAPL in shallow bedrock beneath NYPA property west of the Harper Substation. Niagara Mohawk anticipates that PSA Groundwater Investigation Report will be submitted to the NYSDEC during March 2004.

Tables

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Table 1

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Analytical Sample Summary

Sample I.D.	Date Sampled	Sample Delivery Group	Laboratory Analysis						
			PCBs	VOCs	SVOCs	Lead	Pesticides & TAL Inorganics	Ignitability, Corrosivity & Reactivity	TCLP VOCs, SVOCs & Metals
Verification Soil Samples									
Underground Storage Tank Excavation Activities									
VF-T-1S(N)	10/23/02	A02-A553	✔	✔	✔	✔			
VF-T-2S(S)	10/23/02	A02-A553	✔	✔	✔	✔			
VF-T-3S(E)	10/23/02	A02-A553	✔	✔	✔	✔			
VF-T-4S(W)	10/23/02	A02-A553	✔	✔	✔	✔			
VF-T-DUP [VF-T-4S(W)]	10/23/02	A02-A553	✔	✔	✔	✔			
VF-T-5S(B)	10/23/02	A02-A553	✔	✔	✔	✔			
Excavation Area 1									
VF-A1-B1	11/14/02	A02-B343	✔		✔	✔			
VF-A1-B2	11/14/02	A02-B343	✔		✔	✔			
VF-A1-B3	11/14/02	A02-B343	✔		✔	✔			
VF-A1-B4	11/4/02	A02-A886	✔		✔	✔			
VF-A1-B5	11/5/02	A02-A934	✔		✔	✔			
VF-A1-B6	11/5/02	A02-A934	✔		✔	✔			
VF-A1-B7	11/5/02	A02-A934	✔		✔	✔			
VF-A1-S1	11/14/02	A03-B343	✔		✔	✔			
VF-A1-S2	11/14/02	A03-B343	✔		✔	✔			
FD111402 [VF-A1-S2]	11/14/02	A03-B343	✔		✔	✔			
FD111402 RI [VF-A1-S2]	11/14/02	A03-B343	✔		✔	✔			
VF-A1-S3	11/14/02	A03-B343	✔		✔	✔			
VF-A1-S4	11/14/02	A03-B343	✔		✔	✔			
VF-A1-S5	11/14/02	A03-B343	✔		✔	✔			
VF-A1-S6	11/14/02	A03-B343	✔		✔	✔			
VF-A1-S7	11/4/02	A02-A886	✔		✔	✔			
VF-A1-S8	11/4/02	A02-A886	✔		✔	✔			
VF-A1-S9	11/4/02	A02-A886	✔		✔	✔			
VF-A1-S10	11/4/02	A02-A886	✔		✔	✔			
VF-A1-S11	11/4/02	A02-A886	✔		✔	✔			
FD110402 [VF-A1-S11]	11/4/02	A02-A886	✔		✔	✔			
Excavation Area 2									
VF-A2-B1	11/12/02	A02-B221	✔		✔	✔			
VF-A2-B1A	11/18/02	A02-B481			✔				
VF-A2-S1	11/12/02	A02-B221	✔		✔	✔			
VF-A2-S1A	11/18/02	A02-B481			✔				
VF-A2-S2	11/12/02	A02-B221	✔		✔	✔			
VF-A2-S2A	11/18/02	A02-B481			✔				
VF-A2-S3	11/12/02	A02-B221	✔		✔	✔			
VF-A2-S3A	11/18/02	A02-B481			✔				
VF-A2-S4	11/12/02	A02-B221	✔		✔	✔			
VF-A2-S4A	11/18/02	A02-B481			✔				
VF-A2-S4B	11/22/02	A02-B664			✔				
VF-A2-S4C	12/3/02	A02-B939			✔				

Table 1

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Analytical Sample Summary

Sample ID	Date Sampled	Sample Delivery Group	Laboratory Analysis						
			PCBs	VOCs	SVOCs	Lead	Pesticides & TAL Inorganics	Hazardous Characteristic Parameters	TCLP VOCs, SVOCs & Metals
VF-A3-B1	11/7/02	A02-B035	✔		✔	✔			
VF-A3-B1A	11/12/02	A02-B221			✔				
VF-A3-B1B	11/19/02	A02-B520			✔				
VF-A3-B1C	11/26/02	A02-B814			✔				
VF-A3-S1	11/7/02	A02-B035	✔		✔	✔			
VF-A3-S1A	11/12/02	A02-B221			✔				
VF-A3-S1B	11/19/02	A02-B520			✔				
VF-A3-S1C	12/3/02	A02-B939			✔				
VF-A3-S2	11/7/02	A02-B035	✔		✔	✔			
VF-A3-S2A	11/12/02	A02-B221			✔				
VF-A3-S2B	11/19/02	A02-B520			✔				
VF-A3-S2C	11/26/02	A02-B814			✔				
VF-A3-S3	11/7/02	A02-B035	✔		✔	✔			
VF-A3-S3A	11/12/02	A02-B221			✔				
VF-A3-S4	11/7/02	A02-B035	✔		✔	✔			
VF-A3-S4A	11/12/02	A02-B221			✔				
Wall Samples									
VF-T-INSIDE	10/24/02	A02-A553	✔						
VF-T-OUTSIDE	10/24/02	A02-A553	✔						
Waste Characterization Samples									
WC-1	10/31/02	A02-A791	✔					✔	✔
WC-2	10/31/02	A02-A791	✔					✔	✔
WC-3	11/14/02	A02-B343	✔					✔	✔
WC-4	11/19/02	A02-520	✔					✔	✔
WC-5	11/20/02	A02-B573	✔						
WC-6	11/21/02	A02-B612	✔					✔	✔
Wastewater Samples									
H-15	10/30/02	A02-A791	✔						
WW-1	10/31/02	A02-A791	✔					✔	✔
WW-2	11/12/02	A02-B221	✔					✔	✔
WW-3	11/20/02	A02-B573	✔					✔	✔
Backfill Sample									
BACKFILL	10/23/02	A02-A553	✔	✔	✔	✔	✔		

Table 1

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Analytical Sample Summary

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. (BBL) on the dates indicated.
2. Sample designations indicate the following:
   * VF = Verification soil sample or wipe sample;
   * T = Sample associated with underground storage tank removal;
   * A1, A2, or A3 = Sample associated with Excavation Areas 1, 2, or 3;
   * B = Sample collected from excavation bottom;
   * S = Sample collected from excavation sidewall;
   * WC = Waste characterization sample;
   * WW = Wastewater sample;
   * H = Wastewater sample from electrical manhole;
   * BACKFILL = Backfill sample; and
   * FD or DUP = Blind duplicate sample.
3. Samples were analyzed by Severn Trent Laboratories, Inc. of Amherst, New York for the following constituents:
   * Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082;
   * Volatile organic compounds (VOCs) using USEPA SW-846 Method 8260;
   * Semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270;
   * Lead using USEPA SW-846 Method 6010;
   * Pesticides using USEPA SW-846 Method 8081;
   * Target Analyte List (TAL) inorganic constituents using USEPA SW-846 Method 6010 (except for mercury which was analyzed using Method 7471 and cyanide which was analyzed using Method 9010).
   * Ignitability using USEPA SW-846 Method 1010;
   * Corrosivity using USEPA SW-846 Method 9045;
   * Reactivity using methods specified in USEPA SW-846 Section 7.3;
   * Toxicity Characteristic Leaching Procedure (TCLP) VOCs using USEPA SW-846 Method 1311/8260;
   * TCLP SVOCs using USEPA SW-846 Method 1311/8270; and
   * TCLP metals using USEPA SW-846 Method 1311/6010.

Table 2

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Verification Soil Sample Results (ppm)

Sampling Location / Compound	NYSDEC Recommended Soil Cleanup Objective	Underground Storage Tank Excavation						[illegible]			
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sampling Location											
Inside Final Excavation Limits (Additional Soil Excavated)											
At Final Excavation Limits		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
PCBs (ppm)											
Total PCBs	1.0 (sidewalls) 10.0 (bottom)	<0.021	<0.021	<0.021	<0.024	<0.022	<0.023	1.4	<0.020	<0.020	0.28
Detected VOCs (ppm)											
Acetone	0.2	0.055	0.048	0.009 J	<0.031	<0.031	0.019 J	NA	NA	NA	NA
Benzene	0.06	<0.006	<0.006	<0.006	<0.006	<0.006	0.003 J	NA	NA	NA	NA
2-Butanone	0.3	0.008 J	0.009 J	<0.032	<0.031	<0.031	<0.033	NA	NA	NA	NA
Carbon Disulfide	2.7	0.001 J	<0.006	<0.006	<0.006	<0.006	<0.006	NA	NA	NA	NA
Methylene Chloride	0.1	0.005 J	0.004 J	0.004 J	0.004 J	0.004 J	0.004 J	NA	NA	NA	NA
n-Butylbenzene	10.0	0.006	<0.006	<0.006	<0.006	<0.006	<0.006	NA	NA	NA	NA
sec-Butylbenzene	10.0	0.010	0.006	<0.006	<0.006	<0.006	<0.006	NA	NA	NA	NA
Isopropylbenzene	2.3	0.002 J	<0.006	<0.006	<0.006	<0.006	<0.006	NA	NA	NA	NA
n-Propylbenzene	3.7	0.006	<0.006	<0.006	<0.006	<0.006	<0.006	NA	NA	NA	NA
p-Cymene	N/A	<0.006	0.002 J	<0.006	<0.006	<0.006	<0.006	NA	NA	NA	NA
Detected SVOCs (ppm)											
Acenaphthene	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Acenaphthylene	41.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Anthracene	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Benzo(a)anthracene	0.224 or MDL	<0.410	<0.420	<0.420	<0.470	<0.420	0.028 J	0.380 J	0.024 J	0.037 J	<1.7
Benzo(b)fluoranthene	1.1	<0.410	<0.420	<0.420	<0.470	<0.420	0.030 J	0.690 J	<0.390	0.046 J	<1.7
Benzo(k)fluoranthene	1.1	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	0.440 J	<0.390	0.041 J	<1.7
Benzo(ghi)perylene	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	0.780 J	<0.390	0.048 J	<1.7
Benzo(a)pyrene	0.061 or MDL	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	0.610 J	<0.390	0.042 J	<1.7
Bis(2-ethylhexyl)phthalate	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	0.034 J	< 0.38	<1.7
Butyl Benzyl Phthalate	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Chrysene	0.4	<0.410	<0.420	<0.420	<0.470	<0.420	0.032 J	0.520 J	0.023 J	0.045 J	0.094 J
Dibenzo(a,h)anthracene	0.014 or MDL	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Dibenzofuran	6.2	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Di-n-butyl phthalate	8.1	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	0.23 J	0.20 J	< 0.38	<1.7
3,3' - Dichlorobenzidine	N/A	<0.820	<0.850	<0.840	<0.950	<0.840	<0.900	<7.6	<0.780	<0.770	<3.4
Di-n-octyl phthalate	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	< 3.8	< 0.39	< 0.38	<1.7
Fluoranthene	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	0.098 J	0.620 J	0.062 J	0.062 J	0.20 J
Fluorene	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Indeno(1,2,3-cd)pyrene	3.2	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	0.470 J	<0.390	0.033 J	<1.7
2-Methylnaphthalene	36.4	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Naphthalene	13.0	<0.410	<0.420	<0.420	<0.470	<0.420	<0.450	<3.80	<0.390	< 0.38	<1.7
Phenanthrene	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	0.047 J	0.580 J	0.037 J	0.042 J	<1.7
Pyrene	50.0	<0.410	<0.420	<0.420	<0.470	<0.420	0.070 J	0.630 J	0.053 J	0.053 J	0.18 J
Inorganic Constituent (ppm)											
Lead	500	11	8.6	7.8	9.4	8.1	48.9	93.4	11.6	356	174

2/27/2004
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Table 2

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Verification Soil Sample Results (ppm)

Sample Location / Compound	NYSDEC Recommended Soil Cleanup Objective	Excavation Area 1									
Sampling Location											
Inside Final Excavation Limits (Additional Soil Excavated)	N/A										
At Final Excavation Limits	N/A	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
PCBs (ppm)											
Total PCBs	1.0 (sidewalls) 10.0 (bottom)	0.20	0.55	2.4	0.078	<0.020	<0.019	NA	0.028	<0.020	<0.020
Detected VOCs (ppm)											
Acetone	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cymene	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Detected SVOCs (ppm)											
Acenaphthene	50.0	<1.7	<0.340	<1.7	<1.6	<1.5	<0.360	<0.360	<0.380	<0.390	<0.390
Acenaphthylene	41.0	<1.7	<0.340	<1.7	<1.6	<1.5	<0.360	<0.360	<0.380	<0.390	<0.390
Anthracene	50.0	<1.7	0.034 J	0.140 J	<1.6	0.120 J	<0.360	<0.360	<0.380	<0.390	<0.390
Benzo(a)anthracene	0.224 or MDL	<1.7	0.120 J	0.420 J	0.160 J	0.410 J	0.100 J	0.099 J	0.051 J	<0.390	0.220 J
Benzo(b)fluoranthene	1.1	0.110 J	0.110 J	0.510 J	0.160 J	0.460 J	0.260 J	0.240 J	0.055 J	<0.390	0.200 J
Benzo(k)fluoranthene	1.1	<1.7	0.120 J	0.270 J	0.160 J	0.320 J	0.170 J	0.200 J	0.046 J	<0.390	0.200 J
Benzo(ghi)perylene	50.0	<1.7	0.078 J	0.310 J	0.110 J	0.550 J	0.370	0.390	0.057 J	<0.390	0.140 J
Benzo(a)pyrene	0.061 or MDL	<1.7	0.110 J	0.390 J	0.150 J	0.440 J	0.230 J	0.240 J	0.055 J	<0.390	0.210 J
Bis(2-ethylhexyl)phthalate	50.0	<1.7	0.034 J	0.200 J	<1.6	<1.5	<0.360	<0.360	<0.380	0.028 J	0.041 J
Butyl Benzyl Phthalate	50.0	<1.7	<0.340	<1.7	<1.6	<1.5	<0.360	<0.360	<0.380	<0.390	0.380 J
Chrysene	0.4	<1.7	0.140 J	0.470 J	0.200 J	0.390 J	0.160 J	0.170 J	0.058 J	<0.390	0.230 J
Dibenzo(a,h)anthracene	0.014 or MDL	<1.7	0.030 J	0.100 J	<1.6	0.140 J	0.080 J	0.089 J	<0.380	<0.390	0.057 J
Dibenzofuran	6.2	<1.7	<0.340	<1.7	<1.6	<1.5	<0.360	<0.360	<0.380	<0.390	<0.390
Di-n-butyl phthalate	8.1	<1.7	<0.340	<1.7	<1.6	<1.5	<0.360	<0.360	<0.380	0.026 J	0.043 J
3,3' - Dichlorobenzidine	N/A	<3.4	<0.680	<3.4	<3.1	<3.0	<0.730	<0.730	<0.760	<0.780	<0.780
Di-n-octyl phthalate	50.0	<1.7	0.017 J	<1.7	<1.6	<1.5	<0.360	<0.360	<0.380	<0.390	0.024 J
Fluoranthene	50.0	0.210 J	0.350	1.0 J	0.480 J	0.600 J	0.150 J	0.140 J	0.100 J	0.029 J	0.220 J
Fluorene	50.0	<1.7	<0.340	<1.7	<1.6	<1.5	<0.360	<0.360	<0.380	<0.390	<0.390
Indeno(1,2,3-cd)pyrene	3.2	<1.7	0.070 J	0.290 J	0.093 J	0.340 J	0.220 J	0.230 J	0.039 J	<0.390	0.130 J
2-Methylnaphthalene	36.4	<1.7	<0.340	<1.7	<1.6	<1.5	0.037 J	0.038 J	<0.380	<0.390	<0.390
Naphthalene	13.0	<1.7	<0.340	<1.7	<1.6	<1.5	0.032 J	0.033 J	<0.380	<0.390	<0.390
Phenanthrene	50.0	0.098 J	0.190 J	0.680 J	0.260 J	0.650 J	0.130 J	0.130 J	0.064 J	<0.390	0.022 J
Pyrene	50.0	0.150 J	0.260 J	0.830 J	0.350 J	0.530 J	0.140 J	0.130 J	0.087 J	0.024 J	0.240 J
Inorganic Constituent (ppm)											
Lead	500	28.2	249	206	143	82.2	83.4	NA	29.1	9.2	12.6

Table 2

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Verification Soil Sample Results (ppm)

Sampling Location & Compound	NYSDEC Recommended Soil Cleanup Objectives	Excavation Area 1							Excavation Area 2		
		VF-A1-S6	VF-A1-S7	VF-A1-S8	VF-A1-S9	VF-A1-S10	VF-A1-S11	VF-A1-S11F	VF-A2-B1	VF-A2-B1F	VF-A2-S1
Sampling Location:											
Inside Final Excavation Limits (Additional Soil Excavated)	N/A								✔		✔
At Final Excavation Limits	N/A	✔	✔	✔	✔	✔	✔	✔		✔	
PCBs (ppm):											
Total PCBs	1.0 (sidewalls) 10.0 (bottom)	<0.020	0.31	0.31	0.31	0.80	0.28	0.280	0.15	NA	0.13
Detected VOCs (ppm):											
Acetone	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cymene	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Detected SVOCs (ppm):											
Acenaphthene	50.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	5.7 J	0.028 J	3.7 J
Acenaphthylene	41.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	0.53 J	0.032 J	<7.3
Anthracene	50.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	15	0.140 J	10
Benzo(a)anthracene	0.224 or MDL	0.036 J	1.0 J	<3.4	0.72 J	1.4 J	0.21 J	0.097 J	28	0.430 J	18
Benzo(b)fluoranthene	1.1	0.035 J	0.70 J	<3.4	0.55 J	1.2 J	0.14 J	0.089 J	40	0.270 J	13 J
Benzo(k)fluoranthene	1.1	0.031 J	0.71 J	<3.4	0.61 J	1.4 J	0.17 J	<1.8	20	0.190 J	8.0 J
Benzo(ghi)perylene	50.0	0.024 J	0.66 J	<3.4	0.61 J	1.4 J	0.15 J	<1.8	9	0.150 J	9.7
Benzo(a)pyrene	0.061 or MDL	0.027 J	0.76 J	<3.4	0.58 J	1.5 J	0.15 J	<1.8	28	0.450 J	15
Bis(2-ethylhexyl)phthalate	50.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	<7.8	<0.400	<7.3
Butyl Benzyl Phthalate	50.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	<7.8	<0.400	<7.3
Chrysene	0.4	0.038 J	1.0 J	<3.4	0.80 J	1.7 J	0.24 J	0.120 J	28	0.310 J	18
Dibenzo(a,h)anthracene	0.014 or MDL	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	5.2 J	0.060 J	4.3 J
Dibenzofuran	6.2	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	3.8 J	0.050 J	2.7 J
Di-n-butyl phthalate	8.1	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	<7.8	<0.400	<7.3
3,3' - Dichlorobenzidine	N/A	<0.790	<8.1	<6.8	<7.9	<7.3	<3.6	<3.5	<16	<0.810	<15
Di-n-octyl phthalate	50.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	<7.8	<0.400	<7.3
Fluoranthene	50.0	0.073 J	2.6 J	0.22 J	2.1 J	4.1	0.57 J	0.270 J	66	0.850	42
Fluorene	50.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	7.2 J	0.081 J	4.9 J
Indeno(1,2,3-cd)pyrene	3.2	<0.400	0.61 J	<3.4	0.53 J	1.3 J	0.12 J	<1.8	23	0.150 J	8.7
2-Methylnaphthalene	36.4	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	1.0 J	<0.400	0.82 J
Naphthalene	13.0	<0.400	<4.1	<3.4	<3.9	<3.6	<1.8	<1.8	2.4 J	<0.400	2.6 J
Phenanthrene	50.0	0.034 J	0.95 J	<3.4	1.3 J	2.6 J	0.35 J	<1.8	52	0.720	38
Pyrene	50.0	0.052 J	2.0 J	0.19 J	1.6 J	3.3 J	0.47 J	0.230 J	47	0.630	34
Inorganic Constituent (ppm):											
Lead	500	18.8	1410	21.5	532	485	129	107	92.5	NA	104

Table 2

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Verification Soil Sample Results (ppm)

Sample Location / Sample Date / Compound	Soil Cleanup Objective	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sampling Location										
Inside Final Excavation Limits (Additional Soil Excavated)	N/A		✔		✔		✔	✔	✔	
At Final Excavation Limits	N/A	✔		✔		✔				✔
PCBs (ppm)										
Total PCBs	1.0 (sidewalls) 10.0 (bottom)	NA	0.14	NA	0.18	NA	0.36	NA	NA	NA
Detected VOCs (ppm)										
Acetone	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cymene	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
Detected SVOCs (ppm)										
Acenaphthene	50.0	0.046 J	4.4 J	0.130 J	9.2	<2.0	6.6 J	9.8 J	11 B	<0.410
Acenaphthylene	41.0	0.052 J	<6.9	<1.9	1.6 J	0.230 J	1.6 J	<19	1.4 BJ	<0.410
Anthracene	50.0	0.240 J	12	0.430 J	23	0.460 J	21	27	30	<0.410
Benzo(a)anthracene	0.224 or MDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.036 J
Benzo(b)fluoranthene	1.1	0.450	[illegible]	0.710 J	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.035 J
Benzo(k)fluoranthene	1.1	0.330 J	[illegible]	0.400 J	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.025 J
Benzo(ghi)perylene	50.0	0.280 J	9.9	0.370 J	15	0.990 J	13	23	15	<0.410
Benzo(a)pyrene	0.061 or MDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.025 J
Bis(2-ethylhexyl)phthalate	50.0	<0.380	<6.9	<1.9	<7.1	<2.0	<7.3	<19	<7.4	<0.410
Butyl Benzyl Phthalate	50.0	<0.380	<6.9	<1.9	<7.1	<2.0	<7.3	<19	<7.4	<0.410
Chrysene	0.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.038 J
Dibenzo(a,h)anthracene	0.014 or MDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	<0.410
Dibenzofuran	6.2	0.058 J	2.8 J	<1.9	[illegible]	<2.0	5.3 J	[illegible]	[illegible]	<0.410
Di-n-butyl phthalate	8.1	<0.380	<6.9	<1.9	<7.1	<2.0	<7.3	<19	<7.4	<0.410
3,3' - Dichlorobenzidine	N/A	<0.760	<14	<3.8	<14	<3.9	<15	<38	<15	<0.820
Di-n-octyl phthalate	50.0	<0.380	<6.9	<1.9	<7.1	<2.0	<7.3	<19	<7.4	<0.410
Fluoranthene	50.0	1.4	[illegible]	2.1	[illegible]	4.8	[illegible]	[illegible]	[illegible]	0.074 J
Fluorene	50.0	0.093 J	5.6 J	0.130 J	13	0.110 J	10	13 J	14	<0.410
Indeno(1,2,3-cd)pyrene	3.2	0.270 J	[illegible]	0.340 J	[illegible]	0.940 J	[illegible]	[illegible]	[illegible]	<0.410
2-Methylnaphthalene	36.4	<0.380	0.61 J	<1.9	2.6 J	<2.0	1.2 J	2.8 J	3.3 BJ	<0.410
Naphthalene	13.0	0.028 J	1.4 J	<1.9	6.6 J	<2.0	2.4 J	9.1 J	7.6 B	<0.410
Phenanthrene	50.0	1.2	42	2.0	[illegible]	2.3	[illegible]	[illegible]	[illegible]	0.028 J
Pyrene	50.0	1.0	42	1.8 J	[illegible]	3.5	[illegible]	[illegible]	[illegible]	0.060 J
Inorganics (Constituent) (ppm)										
Lead	500	NA	91.3	NA	68.3	NA	144	NA	NA	NA

Table 2

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Verification Soil Sample Results (ppm)

Sampling Location & Compound	NYSDEC Recommended Soil Cleanup Objectives	Excavation Area 3									
		VF-A3-V2	VF-A3-S1A	VF-A3-S1B	VF-A3-S1C	VF-A3-S2	VF-A3-S2A	VF-A3-S2B	VF-A3-S2C	VF-A3-S3	VF-A3-S3A
Sampling Location											
Inside Final Excavation Limits (Additional Soil Excavated)	N/A	✔	✔	✔		✔	✔	✔		✔	
At Final Excavation Limits	N/A				✔				✔		✔
PCBs (ppm)											
Total PCBs	1.0 (sidewalls) 10.0 (bottom)	<0.018	NA	NA	NA	<0.020	NA	NA	NA	<0.018	NA
Detected VOCs (ppm)											
Acetone	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cymene	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Detected SVOCs (ppm)											
Acenaphthene	50.0	2.9 J	2.3 J	6.6 BJ	<0.410	2.2 J	2.2 J	2.5 BJ	0.021 J	0.48 J	<3.9
Acenaphthylene	41.0	3.3 J	4.0 J	4.4 J	<0.410	0.87 J	2.7 J	1.2 J	<0.380	2.6 J	0.75 J
Anthracene	50.0	14	11	26	<0.410	8.3	9.5	8.8	0.082 J	4.3 J	0.62 J
Benzo(a)anthracene	0.224 or MDL	34	29	58	0.024 J	17	20	20	0.260 J	16	3.8 J
Benzo(b)fluoranthene	1.1	[illegible]	19	36	<0.410	17	15	17	0.220 J	19	5.2
Benzo(k)fluoranthene	1.1	25	23	49	<0.410	12	13	15	0.200 J	14	2.6 J
Benzo(ghi)perylene	50.0	12	9.5	22	<0.410	5.5 J	6.4 J	6.7 J	0.150 J	6.3 J	2.2 J
Benzo(a)pyrene	0.061 or MDL	31	23	50	<0.410	15	16	17	0.230 J	16	4.2
Bis(2-ethylhexyl)phthalate	50.0	<7.2	<7.5	< 19	<0.410	<7.8	<7.8	< 8.2	<0.380	<7.2	<3.9
Butyl Benzyl Phthalate	50.0	<7.2	<7.5	<19	<0.410	<7.8	<7.8	<8.2	<0.380	<7.2	<3.9
Chrysene	0.4	32	28	56	<0.410	16	19	19	0.250 J	15	4.0
Dibenzo(a,h)anthracene	0.014 or MDL	6.6 J	4.5 J	9.2 J	<0.410	2.7 J	3.5 J	2.8 J	0.050 J	2.8 J	1.0 J
Dibenzofuran	6.2	2.8 J	2.9 J	6.4 J	<0.410	1.7 J	3.3 J	2.1 J	<0.380	0.67 J	<3.9
Di-n-butyl phthalate	8.1	<7.2	<7.5	<19	<0.410	<7.8	<7.8	<8.2	<0.380	<7.2	<3.9
3,3' - Dichlorobenzidine	N/A	<14	<15	< 38	<0.810	<16	<16	< 16	<0.760	<14	<7.7
Di-n-octyl phthalate	50.0	<7.2	<7.5	<19	<0.410	<7.8	<7.8	<8.2	<0.380	<7.2	<3.9
Fluoranthene	50.0	74	66	140	0.050 J	42	45	48	0.58	39	7.6
Fluorene	50.0	5.6 J	6.5 J	12 J	<0.410	3.4 J	6.8 J	3.8 J	0.028 J	1.6 J	<3.9
Indeno(1,2,3-cd)pyrene	3.2	15	10	24	<0.410	6.0 J	6.8 J	7.6 J	0.130 J	6.9 J	2.3 J
2-Methylnaphthalene	36.4	0.57 J	0.66 J	1.7 J	<0.410	<7.8	1.1 J	0.680 J	<0.380	<7.2	<3.9
Naphthalene	13.0	0.98 J	1.3 J	4.8 BJ	<0.410	1.1 J	2.4 J	1.8 BJ	<0.380	<7.2	<3.9
Phenanthrene	50.0	51	47	110	0.027 J	32	39	38	0.39	20	2.5 J
Pyrene	50.0	50	46	100 B	0.039 J	32	34	36 B	0.46	27	5.5
Inorganic Constituent (ppm)											
Lead	500	224	NA	NA	NA	157	NA	NA	NA	115	NA

Table 2

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Verification Soil Sample Results (ppm)

Sample Location & Depth	NYSDEC Recommended Soil Cleanup Objectives	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sample Location							
Inside Final Excavation Limits (Additional Soil Excavated)	N/A	✔		✔	✔	✔	
At Final Excavation Limits	N/A		✔				✔
PCBs (ppm)							
Total PCBs	1.0 (sidewalls) 10.0 (bottom)	<0.019	NA	<0.020	NA	NA	NA
Detected VOCs (ppm)							
Acetone	0.2	NA	NA	NA	NA	NA	NA
Benzene	0.06	NA	NA	NA	NA	NA	NA
2-Butanone	0.3	NA	NA	NA	NA	NA	NA
Carbon Disulfide	2.7	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.1	NA	NA	NA	NA	NA	NA
n-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	10.0	NA	NA	NA	NA	NA	NA
Isopropylbenzene	2.3	NA	NA	NA	NA	NA	NA
n-Propylbenzene	3.7	NA	NA	NA	NA	NA	NA
p-Cymene	N/A	NA	NA	NA	NA	NA	NA
Detected SVOCs (ppm)							
Acenaphthene	50.0	5.3 J	<1.9	1.8 J	0.42 J	0.730 BJ	<0.400
Acenaphthylene	41.0	6.1 J	0.20 J	3.1 J	<4.9	1.3 J	<0.400
Anthracene	50.0	21	0.33 J	10	2.1 J	4.5	<0.400
Benzo(a)anthracene	0.224 or MDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.062 J
Benzo(b)fluoranthene	1.1	[illegible]	0.76 J	[illegible]	[illegible]	[illegible]	0.056 J
Benzo(k)fluoranthene	1.1	[illegible]	1.0 J	[illegible]	[illegible]	[illegible]	0.034 J
Benzo(ghi)perylene	50.0	13	0.35 J	7.1 J	5.4	3.6 J	0.024 J
Benzo(a)pyrene	0.061 or MDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.042 J
Bis(2-ethylhexyl)phthalate	50.0	<7.5	<1.9	<7.6	<4.9	<4.0	<0.400
Butyl Benzyl Phthalate	50.0	<7.5	<1.9	<7.6	<4.9	<4.0	<0.400
Chrysene	0.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.060 J
Dibenzo(a,h)anthracene	0.014 or MDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	<0.400
Dibenzofuran	6.2	5.6 J	<1.9	2.9 J	<4.9	1.1 J	<0.400
Di-n-butyl phthalate	8.1	<7.5	<1.9	<7.6	<4.9	<4.0	<0.400
3,3' - Dichlorobenzidine	N/A	<15	<3.9	<15	<9.8	<8.1	<0.800
Di-n-octyl phthalate	50.0	<7.5	<1.9	<7.6	<4.9	<4.0	<0.400
Fluoranthene	50.0	[illegible]	3.0	[illegible]	14	27	0.140 J
Fluorene	50.0	12	0.15 J	6.1 J	0.54 J	2.7 J	<0.400
Indeno(1,2,3-cd)pyrene	3.2	[illegible]	0.38 J	[illegible]	[illegible]	[illegible]	0.021 J
2-Methylnaphthalene	36.4	1.6 J	<1.9	0.74 J	<4.9	0.250 J	<0.400
Naphthalene	13.0	3.5 J	<1.9	1.3 J	<4.9	0.600 BJ	<0.400
Phenanthrene	50.0	[illegible]	1.6 J	43	8.4	20	0.074 J
Pyrene	50.0	[illegible]	2.0	48	12	18 B	0.110 J
Inorganic Compounds (ppm)							
Lead	500	482	NA	269	NA	NA	NA

Table 2

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Verification Soil Sample Results (ppm)

Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) between October 2002 and December 2002.
2. Samples analyzed by Severn Trent Laboratories, Inc., of Amherst, New York for the following constituents:
   * Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082;
   * Volatile organic compounds (VOCs) using USEPA SW-846 Method 8260;
   * Semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270; and
   * Lead using USEPA SW-846 Method 6010.
3. Concentrations are reported in parts per million (ppm), which are equivalent to milligrams per kilogram (mg/kg).
4. Sample designations indicate the following:
   * VF = Verification soil sample;
   * Sample associated with underground storage tank removal;
   * A1, A2, or A3 = Sample associated with Excavation Areas 1, 2, or 3;
   * B = Sample collected from excavation bottom;
   * S = Sample collected from excavation sidewall; and
   * FD or DUP = Blind duplicate sample.
5. J = Indicates an estimated concentration.
6. < = No Arcolors were detected above the reported concentration (for PCBs) or constituent was not detected at a concentration exceeding the reported laboratory detection limit (for all other parameters).
7. MDL = Method detection limit.
8. NA = Not analyzed.
9. N/A = Not available.
10. The NYSDEC-recommended soil cleanup objectives are presented in the NYSDEC document titled, "Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels" HWR-94-4046 (TAGM 4046), dated January 24, 1994, as revised by a December 20, 2000 internal NYSDEC memorandum.
11. The cleanup objective reported for lead is the 500 ppm average urban background concentration presented in TAGM 4046.
12. Analytical results have not been validated.

Table 3

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measures Summary Report
Verification Wipe Sample Results (µg/100 cm2)

Sample ID	Total PCB Concentration (µg/100 cm2)
VF-T-INSIDE	<0.50
VF-T-OUTSIDE	<0.50

Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) on October 24, 2002.
2. Samples analyzed by Severn Trent Laboratories, Inc., of Amherst, New York for polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082.
3. Concentrations are reported in micrograms per 100 square centimeters (µg/100 cm^2).
4. < = No Aroclors were deteeted above the reported laboratory detection limit.
5. Analytical results have not been validated.

Table 4

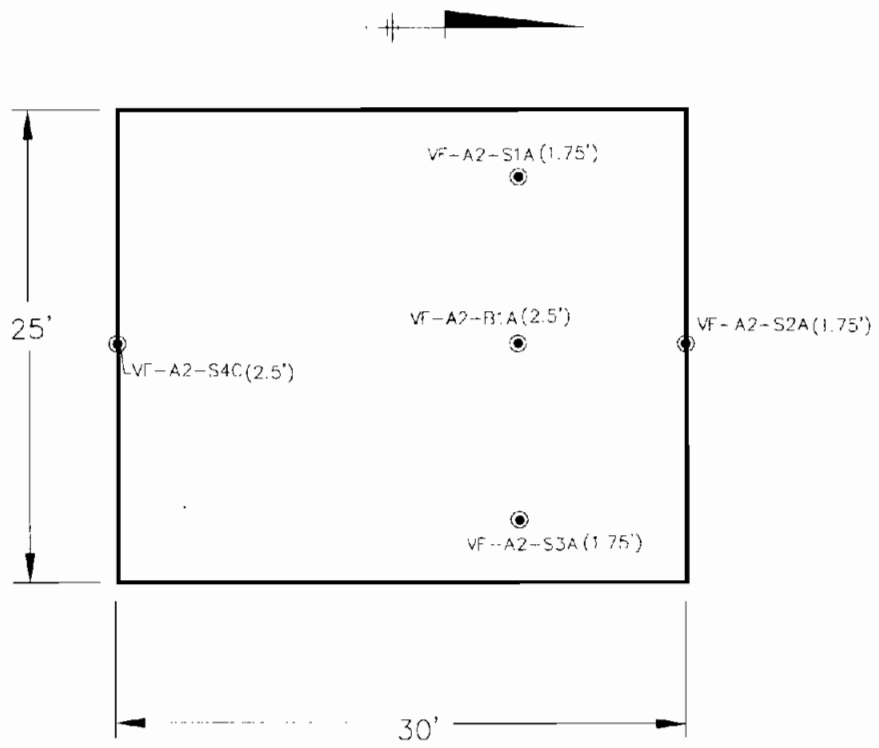
Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Backfill Material Sample Results (ppm)

PCBs		
Total PCBs	1.0	<0.017
Pesticides		
None Detected		
VOCs		
Methylene Chloride	0.1	0.002 J
SVOCs		
Chrysene	0.4	0.027 J
Phenanthrene	50.0	0.023 J
TAL Metals/Inorganics		
Aluminum	SB	1,370
Arsenic	7.5 or SB	3.1
Barium	300 or SB	14.1
Cadmium	1 or SB	2.7
Calcium	SB	183,000
Chromium	10 or SB	3.3
Copper	25 or SB	4.3
Iron	2,000 or SB	7,320
Lead	SB	51.6
Magnesium	SB	92,700
Manganese	SB	779
Nickel	13 or SB	3.9
Potassium	SB	1,190
Sodium	SB	235
Vanadium	150 or SB	3.6
Zinc	20 or SB	752

Notes:

1. Sample collected by Blasland, Bouck & Lee, Inc. (BBL) on October 23, 2002.
2. Sample submitted to Severn Trent Laboratories, Inc., of Amherst, New York for laboratory analysis for the following constituents:
   - Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082;
   - Pesticides using USEPA SW-846 Method 8081;
   - Volatile organic compounds (VOCs) using USEPA SW-846 Method 8260;
   - Semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270; and
   - Target Analyte List (TAL) inorganic constituents using USEPA SW-846 Method 6010, except for mercury, which was analyzed using SW-846 Method 7471.
3. Concentrations reported in parts per million (ppm), which are equivalent to milligrams per kilogram (mg/kg).
4. < = Constituent was not detected at a concentration exceeding the reported laboratory detection limit.
5. J = Indicates an estimated concentration.
6. NYSDEC-recommended soil cleanup objectives from the NYSDEC Technical and Administrative Guidance Memorandum entitled, "Determination of Soil Cleanup Objectives and Cleanup Levels, "HWR-94-4046 (TAGM 4046), dated January 24, 1994, as revised by a December 20, 2000 internal NYSDEC memorandum.
7. SB = Site background.
8. Analytical results have not been validated.



LEGEND:

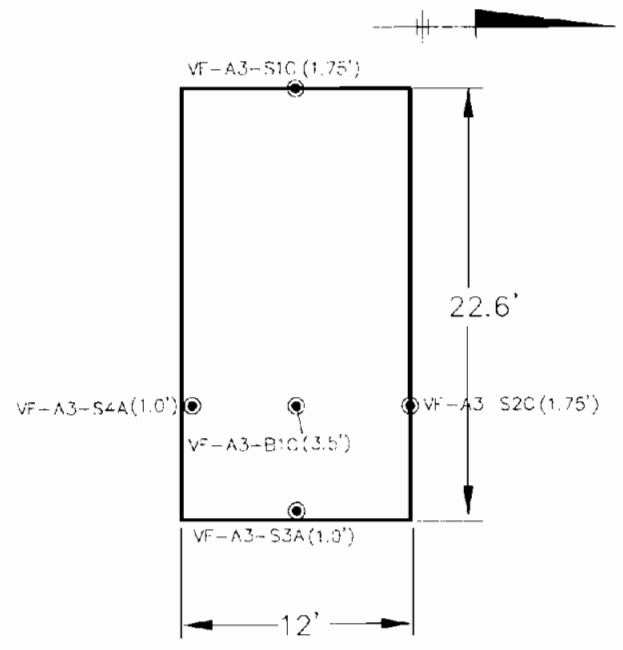
= LIMITS OF FINAL 2.5'-5' DEEP EXCAVATION BELOW SURROUNDING GRADE

VF-A2-S3A(1.75') ◉ VERIFICATION SOIL SAMPLING LOCATION (DEPTH)

0 10' 20'

APPROXIMATE GRAPHIC SCALE

EXCAVATION AREA 2



LEGEND:

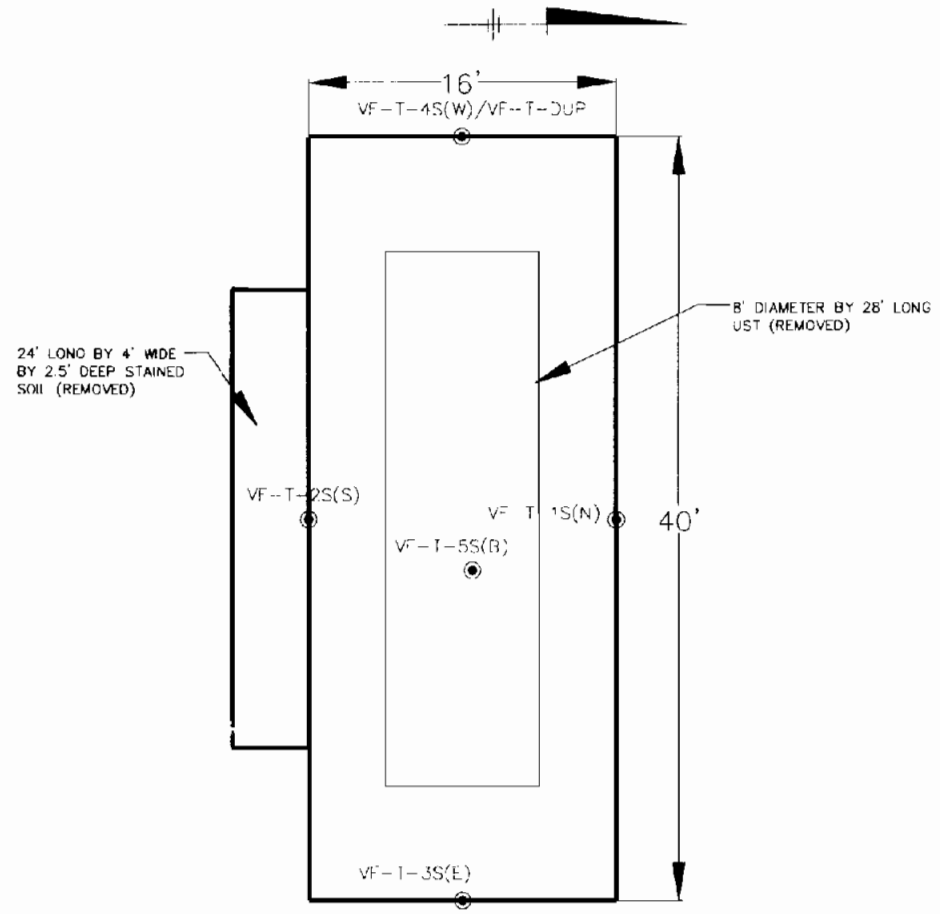
= LIMITS OF FINAL 3'-3.5' DEEP EXCAVATION BELOW SURROUNDING GRADE AS SHOWN

VF-A3-S3A(1.0') ◉ VERIFICATION SOIL SAMPLING LOCATION (DEPTH)

0 10' 20'

APPROXIMATE GRAPHIC SCALE

EXCAVATION AREA 3



= LIMITS OF FINAL 13' DEEP EXCAVATION BELOW SURROUNDING GRADE

VF-T-3S(E) ◉ VERIFICATION SOIL SAMPLING LOCATION (DEPTH)

0 10' 20'

APPROXIMATE GRAPHIC SCALE

UST EXCAVATION AREA

X: NONE
L: ON=*;OFF=*REF*
P: STD-PCP/DL OR B01.PCP
2/23/04 SYR-85-RCB PCL NJR
48107004/48107B02.DWG

NIAGARA MOHAWK,
A NATIONAL GRID COMPANY
HARPER SUBSTATION
NIAGARA FALLS, NEW YORK
INTERIM REMEDIAL MEASURES

SOIL EXCAVATION DETAILS

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 5

Table 5

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Waste Characterization Sample Results

Parameter/Constituent	Regulatory Limit	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TCLP (ppm)							
Total PCBs	50	0.021	4.0	0.63	0.80	36	1.4
TCLP VOCs (ppm)							
Benzene	0.5	<0.050	<0.050	<0.050	<0.050	NA	<0.050
Methyl Ethyl Ketone (2-Butanone)	200.0	<0.10	<0.10	<0.10	<0.10	NA	<0.10
Carbon Tetrachloride	0.5	<0.050	<0.050	<0.050	<0.050	NA	<0.050
Chlorobenzene	100.0	<0.050	<0.050	<0.050	<0.050	NA	<0.050
Chloroform	6.0	<0.050	<0.050	<0.050	<0.050	NA	<0.050
1,2-Dichloroethane	0.5	<0.050	<0.050	<0.050	<0.050	NA	<0.050
1,1-Dichloroethene	0.7	<0.050	<0.050	<0.050	<0.050	NA	<0.050
Tetrachloroethene	0.7	<0.050	<0.050	<0.050	[illegible]	NA	0.017 J
Trichoroethene	0.5	<0.050	<0.050	<0.050	<0.050	NA	<0.050
Vinyl Chloride	0.2	< 0.050	< 0.050	<0.050	<0.050	NA	<0.050
TCLP SVOCs (ppm)							
1,4-Dichlorobenzene	7.5	<0.040	<0.040	<0.040	<0.040	NA	<0.040
2,4-Dinitrotoluene	0.13	<0.040	<0.040	<0.040	<0.040	NA	<0.040
Hexachlorobenzene	0.13	<0.040	<0.040	<0.040	<0.040	NA	<0.040
Hexachlorobutadiene	0.5	<0.040	<0.040	<0.040	<0.040	NA	<0.040
Hexachloroethane	3.0	<0.040	<0.040	<0.040	<0.040	NA	<0.040
3-Methylphenol	200	<0.040	<0.040	<0.040	<0.040	NA	<0.040
2-Methylphenol (o-Cresol)	200	<0.040	<0.040	<0.040	<0.040	NA	<0.040
4-Methylphenol	200	<0.040	<0.040	<0.040	<0.040	NA	<0.040
Nitrobenzene	2.0	<0.040	<0.040	<0.040	<0.040	NA	<0.040
Pentachlorophenol	100.0	<0.20	<0.20	<0.20	<0.20	NA	<0.20
Pyridine	5.0	<0.10	<0.10	<0.10	<0.10	NA	<0.10
2,4,5-Trichlorophenol	400.0	<0.040	<0.040	<0.040	<0.040	NA	<0.040
2,4,6-Trichlorophenol	2.0	<0.040	<0.040	<0.040	<0.040	NA	<0.040
TCLP Metals (ppm)							
Arsenic	5	0.11	0.0087	<0.0070	0.051	NA	<0.0070
Barium	100	0.70	0.80	0.95	1.2	NA	0.48
Cadmium	1	0.0061	0.030	0.026	0.029	NA	0.054
Chromium	5	0.23	0.019	0.050	0.26	NA	0.0052
Lead	5	1.3	0.25	[illegible]	2.4	NA	0.052
Mercury	0.2	0.00042	0.0016	<0.00020	0.0081	NA	<0.00020
Selenium	1	<0.010	<0.010	<0.010	<0.010	NA	<0.010
Silver	5	<0.0030	<0.0030	<0.0030	<0.0030	NA	<0.0030
Other Parameters							
Ignitability (deg C)	<60	> 200	> 200	> 200	> 200	NA	> 200
Corrosivity (S.U.)	≤ 2 and ≥ 12.5	7.81	7.42	9.64	7.43	NA	6.59
Reactive Sulfide (ppm)	500	<10	<10	<10	27.7	NA	30.5
Reactive Cyanide (ppm)	250	<10	<10	<10	32.1	NA	<10

Table 5

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Waste Characterization Sample Results

Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during October 2002 and November 2002.
2. Samples were analyzed by Severn Trent Laboratories, Inc. of Amherst, New York for the following constituents/parameters:
   * Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082;
   * Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) using USEPA SW-846 Method 1311/8260;
   * TCLP semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 1311/8270;
   * TCLP metals using USEPA SW-846 Methods 6010B except for mercury which was analyzed using USEPA SW-846 Method 7470A;
   * Ignitability using USEPA SW-846 Method 1030;
   * Corrosivity using USEPA SW-846 Method 1030; and
   * Reactivity (reactive cyanide and reactive sulfide) using USEPA SW-846 referencing Section 7.3.
3. ppm = Parts per million, which is equivalent to milligrams per kilogram (mg/kg).
4. deg C = Degrees Celcius.
5. Corrosivity (pH) is reported in standard units (S.U.).
6. < = Constituent was not detected at a concentration exceeding the reported laboratory detection limit.
7. Regulatory limits for characteristic hazardous waste are from the following sources:
   - Ignitability - 40 CFR 261.21;
   - Corrosivity - 40 CFR 261.22;
   - Reactivity - In accordance with an April 2, 1998 memorandum from the USEPA's Office of Solid Waste and Emergency Response (OSWER), the USEPA has withdrawn the guidance levels for evaluating potentially reactive cyanide-bearing and sulfide-bearing wastes (i.e., 250 ppm and 500 ppm, respectively); and
   - TCLP VOCs, TCLP SVOCs, and TCLP Metals - 40 CFR 261.24.
8. Sample is ignitable if flashpoint result is less than 60 deg. C.
9. Sample is corrosive if pH is less than or equal to 2 S.U., or greater than or equal to 12.5 S.U.
10. Sample which does not exceed the USEPA action levels of 250 mg HCN/kg waste and 500 mg H2S/kg waste in accordance with SW-846, is not reactive.
11. Shading indicates constituent was identified at a concentration above exceeding the regulatory limit.
12. Analytical results have not been validated.

Table 6

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Wastewater Sample Results

Parameter/Constituent	Regulatory Limit	[illegible]	[illegible]	[illegible]	[illegible]
PCBs (ppm)					
Total PCBs	50	0.0022	0.017	2.2	0.0094
TCL VOCs (ppm)					
Benzene	0.5	NA	<0.05	<0.005	<0.025
Methyl Ethyl Ketone (2-Butanone)	200	NA	0.064 J	<0.01	<0.050
Carbon Tetrachloride	0.5	NA	<0.05	<0.005	<0.025
Chlorobenzene	100	NA	<0.05	<0.005	<0.025
Chloroform	6.0	NA	<0.05	<0.005	<0.025
1,2-Dichloroethane	0.5	NA	<0.05	<0.005	<0.025
1,1-Dichloroethene	0.7	NA	<0.05	<0.005	<0.025
Tetrachloroethene	0.7	NA	<0.05	<0.005	0.090
Trichoroethene	0.5	NA	<0.05	<0.005	<0.025
Vinyl Chloride	0.2	NA	<0.05	<0.005	<0.025
TCL SVOCs (ppm)					
1,4-Dichlorobenzene	7.5	NA	<4.0	<0.04	<0.04
2,4-Dinitrotoluene	0.13	NA	<4.0	<0.04	<0.04
Hexachlorobenzene	0.13	NA	<4.0	<0.04	<0.04
Hexachlorobutadiene	0.5	NA	<4.0	<0.04	<0.04
Hexachloroethane	3	NA	<4.0	<0.04	<0.04
3 Methylphenol	200	NA	<4.0	<0.04	<0.04
2-Methylphenol (o-Cresol)	200	NA	<4.0	<0.04	<0.04
4-Methylphenol	200	NA	<4.0	<0.04	<0.04
Nitrobenzene	2	NA	<4.0	<0.04	<0.04
Pentachlorophenol	100	NA	<20	<0.20	<0.20
Pyridine	5	NA	<10	<0.10	<0.10
2,4,5-Trichlorophenol	2	NA	<4.0	<0.04	<0.04
2,4,6-Trichlorophenol	400	NA	<4.0	<0.04	<0.04
TAL Metals (ppm)					
Arsenic	5	NA	<0.685	0.0076	0.024
Barium	100	NA	0.406	0.668	0.353
Cadmium	1	NA	<0.0979	0.001	0.0084
Chromium	5	NA	<0.196	0.0116	0.187
Lead	5	NA	<0.979	0.17	3.24
Mercury	0.2	NA	<0.0002	<0.0002	0.0016
Selenium	1	NA	<0.979	<0.010	<0.010
Silver	5	NA	<0.294	<0.003	0.0037
Other Parameters					
Ignitability (deg C)	<60	NA	> 200	> 200	> 200
pH	≤ 2 and ≥ 12.5	NA	5.7	7.5	6.5
Reactive Sulfide (ppm)	500	NA	<10	<10	54.2
Reactive Cyanide (ppm)	250	NA	<10	<10	<10

Table 6

Niagara Mohawk, a National Grid Company
Harper Substation
Niagara Falls, New York

Interim Remedial Measure Summary Report
Wastewater Sample Results

Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during October 2002 and November 2002.
2. Samples were analyzed by Severn Trent Laboratories, Inc. of Amherst, New York for the following constituents/parameters
   * Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 808
   * Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) using USEPA SW-846 Method
   * TCLP semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 1311/8270;
   * TCLP metals using USEPA SW-846 Methods 6010B except for mercury which was analyzed using USEPA SW-846 Met
   * Ignitability using USEPA SW-846 Method 1030;
   * Corrosivity using USEPA SW-846 Method 1030; and
   * Reactivity (reactive cyanide and reactive sulfide) using USEPA SW-846 referencing Section 7.3.
3. NA = Not analyzed.
4. ppm = Parts per million, which is equivalent to milligrams per kilogram (mg/kg).
5. deg C = Degrees Celcius.
6. Corrosivity (pH) is reported in standard units (S.U.).
7. < = Constituent was not detected at a concentration exceeding the reported laboratory detection limit.
8. Regulatory limits for characteristic hazardous waste are from the following sources:
   - Ignitability - 40 CFR 261.21;
   - Corrosivity - 40 CFR 261.22;
   - Reactivity - In accordance with an April 2, 1998 memorandum from the USEPA's Office of Solid Waste and Emergency Response (OSWER), the USEPA has withdrawn the guidance levels for evaluating potentially reactive cyanide-bearing and sulfide-bearing wastes (i.e., 250 ppm and 500 ppm, respectively); and
   - TCLP VOCs, TCLP SVOCs, and TCLP Metals - 40 CFR 261.24.
9. Sample is ignitable if flashpoint result is less than 60 deg. C.
10. Sample is corrosive if pH is less than or equal to 2 S.U., or greater than or equal to 12.5 S.U.
11. Sample which does not exceed the USEPA action levels of 250 mg HCN/kg waste and 500 mg H2S/kg waste in accordance with SW-846, is not reactive.
12. Analytical results have not been validated.

Figures

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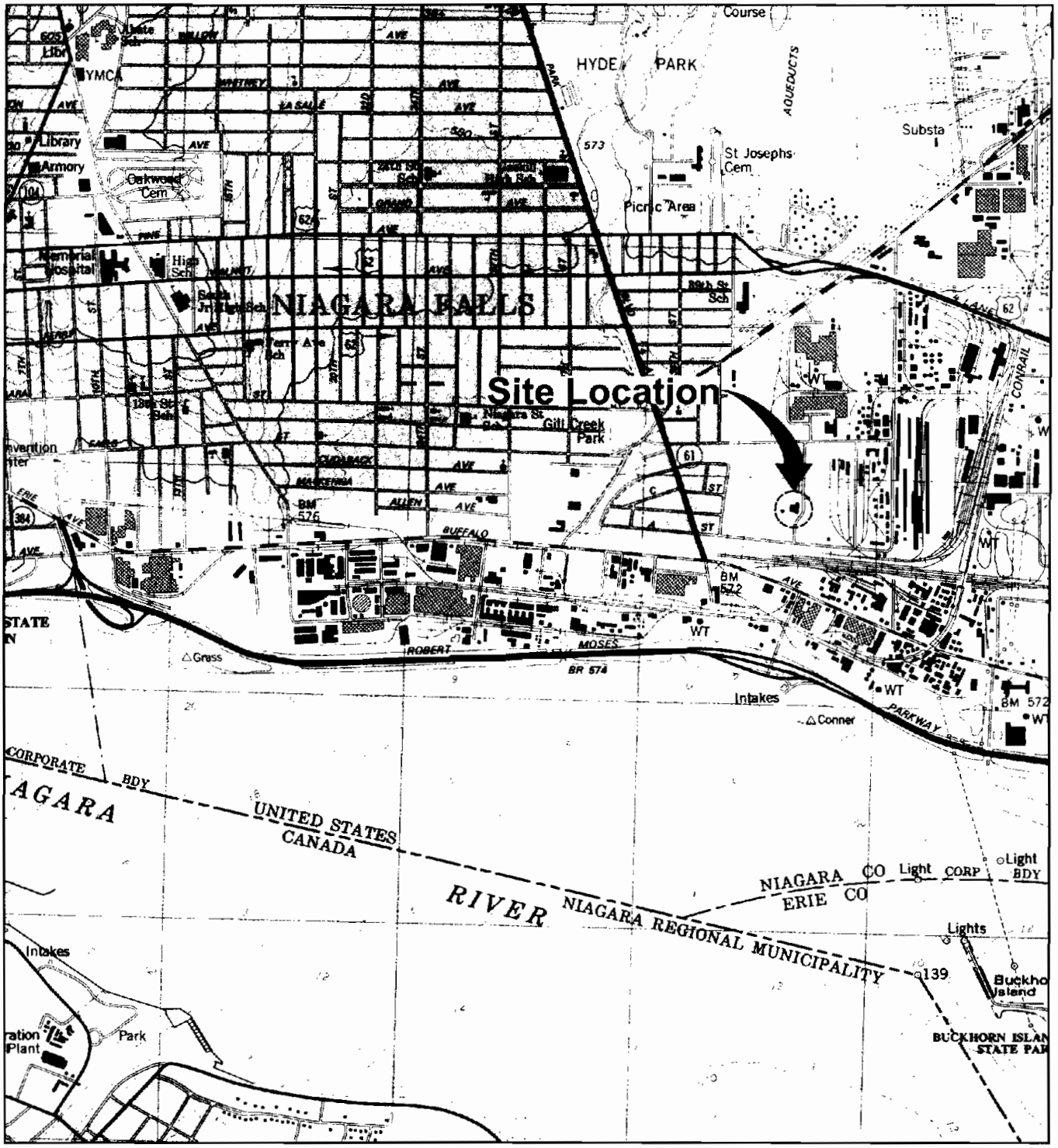
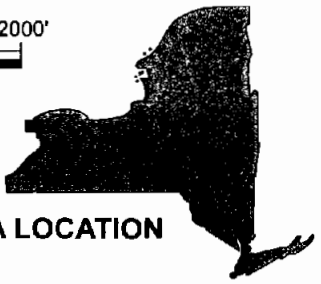
engineers, scientists, economists



REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., NIAGARA FALLS, NY-ONT. 1980.

2000' 0 2000'

Approximate Scale: 1" = 2000'



AREA LOCATION

NIAGARA MOHAWK,
A NATIONAL GRID COMPANY
HARPER SUBSTATION
NIAGARA FALLS, NEW YORK
INTERIM REMEDIAL MEASURES

SITE LOCATION MAP

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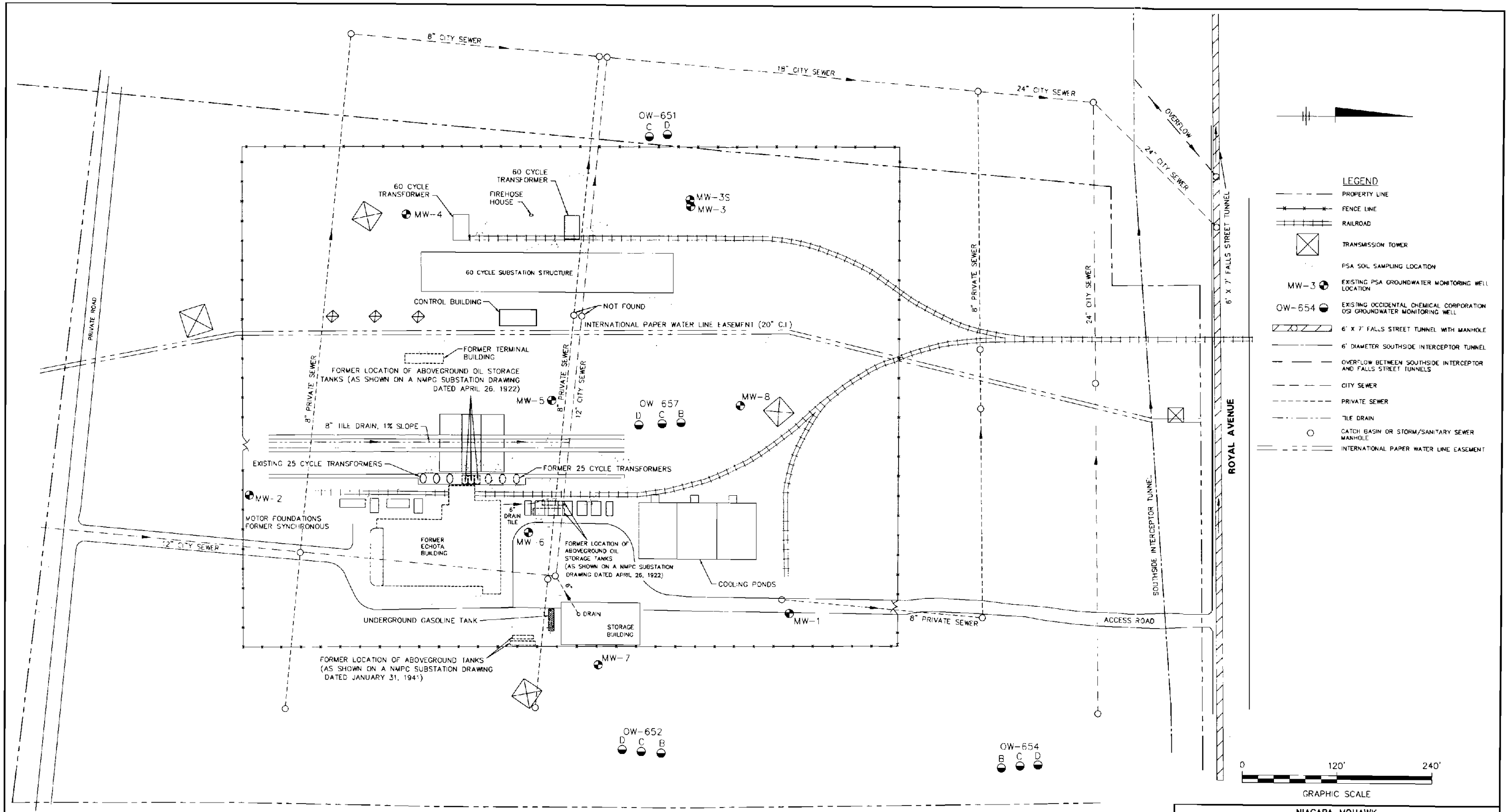
engineers & scientists

FIGURE 1

12/17/02 SYR-D54-DJH LAS
36605007/36605n01.cdr



NOTES:

1. BASE MAP WAS DIGITIZED FROM NIAGARA MOHAWK POWER COMPANY MAP DATED 12/6/41. ADDITIONAL SITE AND DRAINAGE FEATURES WERE ADDED FROM A CITY OF NIAGARA FALLS COMBINATION SEWER PLAN AND VARIOUS OTHER NMPC SITE PLANS.
2. MONITORING WELL LOCATIONS ARE FROM NIAGARA MOHAWK POWER CORPORATION SURVEY DRAWING #D-6137-1, DATED SEPT. 9, 1999, LATEST REVISION DATED SEPTEMBER 12, 2000 (EXCEPT FOR SAMPLING LOCATION S-27, WHICH IS APPROXIMATE).
3. SITE AND DRAINAGE FEATURES ARE APPROXIMATE.
4. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST, THE LOCATION OF WHICH ARE UNKNOWN.
5. LOCATION OF UNDERGROUND GASOLINE STORAGE TANK BASED ON FIELD OBSERVATION/MEASUREMENT.

X 36605X02.DWG
L: ON=*;OFF=*REF*
P: STD-PCP/DL OR B01.PCP
12/19/02 SYR-54-RCB
36605007/36605B01.DWG

NIAGARA MOHAWK,
A NATIONAL GRID COMPANY
HARPER SUBSTATION
NIAGARA FALLS, NEW YORK
INTERIM REMEDIAL MEASURES

SITE PLAN

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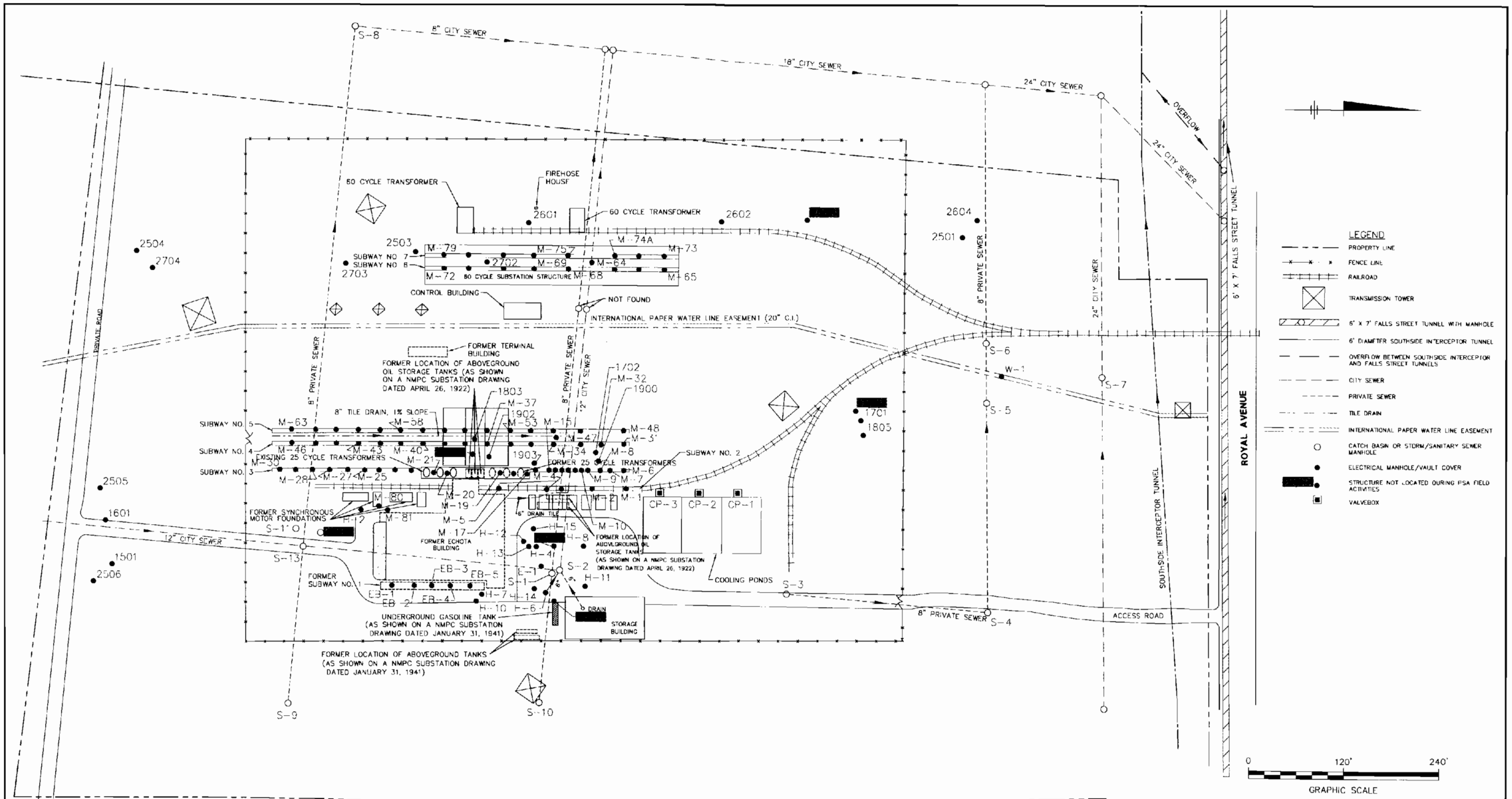
FIGURE 2



NOTES:

1. BASE MAP WAS DIGITIZED FROM NIAGARA MOHAWK POWER COMPANY MAP DATED 12/8/41. ADDITIONAL SITE AND DRAINAGE FEATURES WERE ADDED FROM A CITY OF NIAGARA FALLS COMBINATION SEWER PLAN AND VARIOUS OTHER NMPC SITE PLANS.
2. MONITORING WELL LOCATIONS ARE FROM NIAGARA MOHAWK POWER CORPORATION SURVEY DRAWING #D-5137-1, DATED SEPT. 9, 1999, LATEST REVISION DATED SEPTEMBER 12, 2000 (EXCEPT FOR SAMPLING LOCATION S-27, WHICH IS APPROXIMATE).
3. LOCATIONS OF ELECTRICAL VAULT COVERS ARE APPROXIMATE.
4. SITE AND DRAINAGE FEATURES ARE APPROXIMATE
5. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST, THE LOCATION OF WHICH ARE UNKNOWN

NIAGARA MOHAWK,
A NATIONAL GRID COMPANY
HARPER SUBSTATION
NIAGARA FALLS, NEW YORK
INTERIM REMEDIAL MEASURES

SUBSURFACE STRUCTURE LAYOUT

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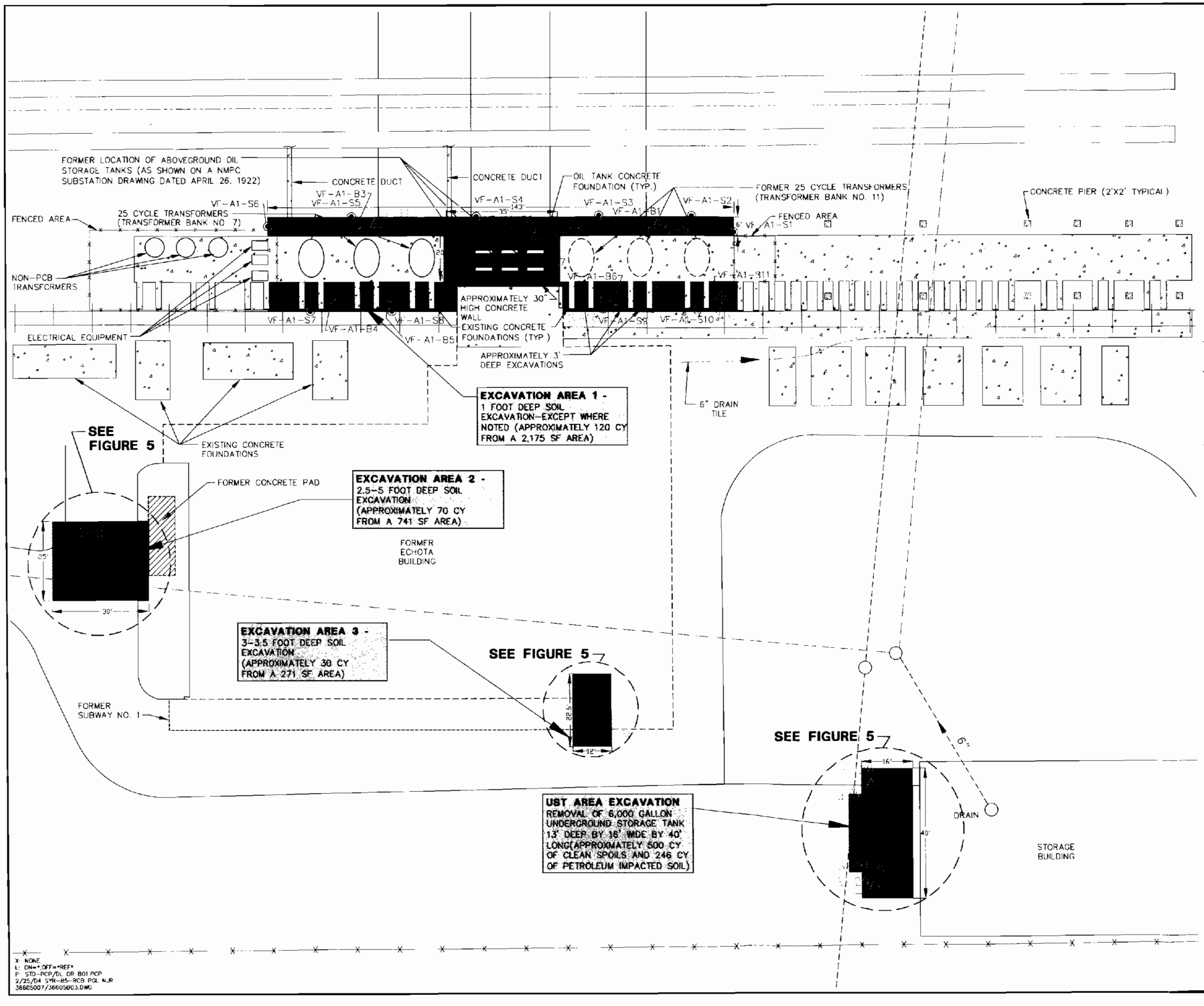
FIGURE 3

X: 36605X02.DWG
L: ON= * OFF= *REF*
P: STD-PCP/DL OR B01.PCP
2/24/04 SYR-85-RCB, NJR
36605007/36605B04.DWG



NOTES:

1. BASE MAP WAS DIGITIZED FROM NIAGARA MOHAWK POWER COMPANY MAP DATED 12/8/41. ADDITIONAL SITE AND DRAINAGE FEATURES WERE ADDED FROM A CITY OF NIAGARA FALLS COMBINATION SEWER PLAN AND VARIOUS OTHER NMPC SITE PLANS.
2. SOIL SAMPLING LOCATIONS ARE FROM NIAGARA MOHAWK POWER CORPORATION SURVEY DRAWING #D-61367-W, DATED SEPT. 9, 1999, LATEST REVISION DATED SEPTEMBER 12, 2000
3. SITE AND DRAINAGE FEATURES ARE APPROXIMATE.
4. OTHER UNDERGROUND UTILITIES AND STRUCTURES EXIST, THE LOCATION OF WHICH ARE NOT SHOWN.

0 30' 60'

APPROXIMATE GRAPHIC SCALE

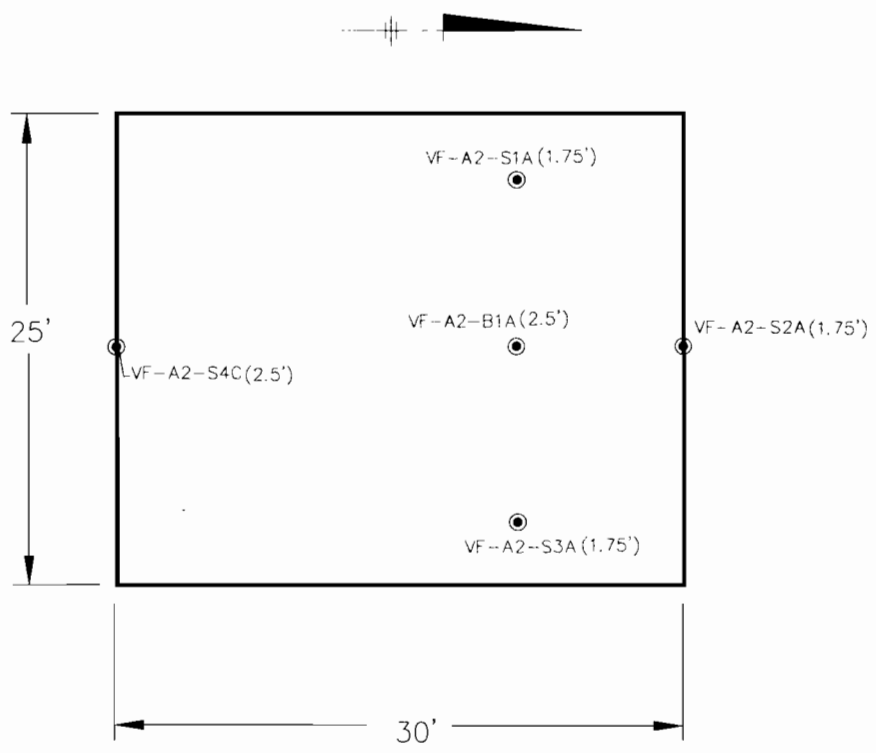
X: NONE
L: ON=*;OFF=*REF*
P: STD-PCP/DL OR B01 PCP
2/25/04 SYR-85-RCB PGL NJR
36605007/36605003.DWG

NIAGARA MOHAWK,
A NATIONAL GRID COMPANY
HARPER SUBSTATION
NIAGARA FALLS, NEW YORK
INTERIM REMEDIAL MEASURES

SOIL EXCAVATION AREAS

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 4



LEGEND:

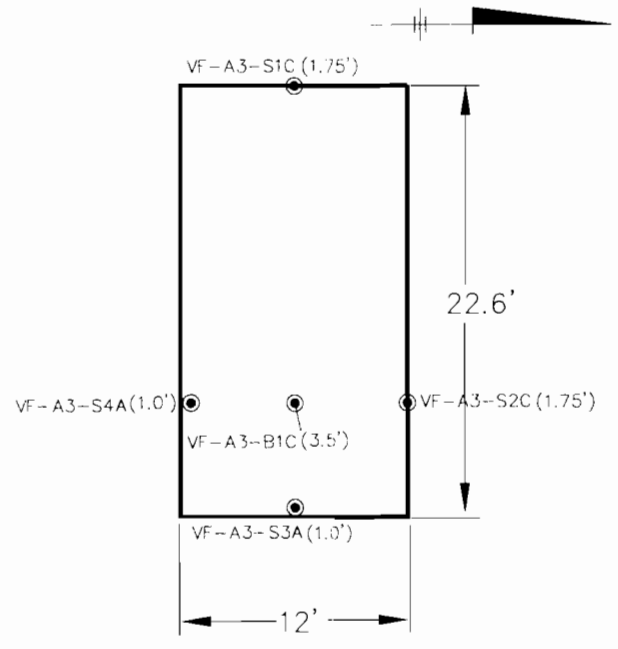
= LIMITS OF FINAL 2.5'-5' DEEP EXCAVATION BELOW SURROUNDING GRADE

VF-A2-S3A(1.75') ◉ VERIFICATION SOIL SAMPLING LOCATION (DEPTH)

0 10' 20'

APPROXIMATE GRAPHIC SCALE

EXCAVATION AREA 2



LEGEND:

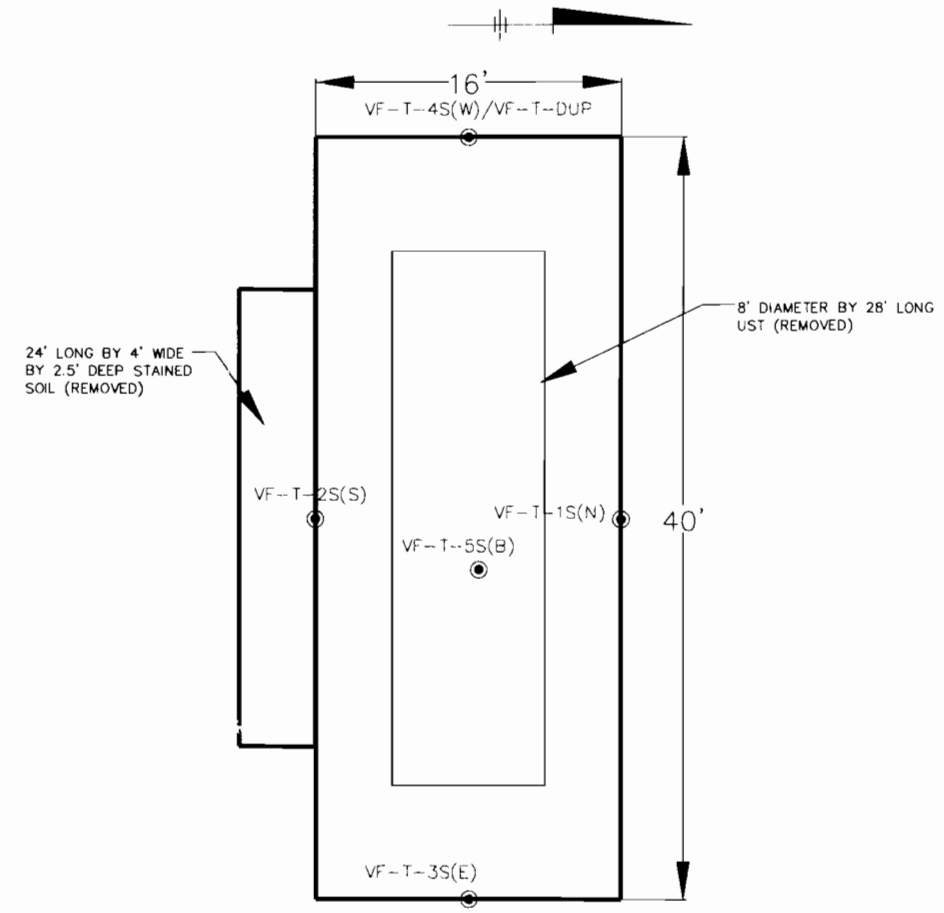
= LIMITS OF FINAL 3'-3.5' DEEP EXCAVATION BELOW SURROUNDING GRADE AS SHOWN

VF-A3-S3A(1.0') ◉ VERIFICATION SOIL SAMPLING LOCATION (DEPTH)

0 10' 20'

APPROXIMATE GRAPHIC SCALE

EXCAVATION AREA 3



= LIMITS OF FINAL 13' DEEP EXCAVATION BELOW SURROUNDING GRADE

VF-T-3S(E) ◉ VERIFICATION SOIL SAMPLING LOCATION (DEPTH)

0 10' 20'

APPROXIMATE GRAPHIC SCALE

UST EXCAVATION AREA

X: NONE
L: ON=*,OFF=*REF*
P: STD-PCP/DL OR B01.PCP
2/23/04 SYR-85-RCB PGL NJR
48107004/48107B02.DWG

NIAGARA MOHAWK,
A NATIONAL GRID COMPANY
HARPER SUBSTATION
NIAGARA FALLS, NEW YORK
INTERIM REMEDIAL MEASURES

SOIL EXCAVATION DETAILS

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FIGURE 5

Appendices

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Appendix A – PSA Analytical Data Tables

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Table 1

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

Preliminary Site Assessment
Analytical Sample Summary

Matrix	Sample ID	Sample Interval	Date Sampled	SDG #	Analyses			
					PCBs	VOCs	SVOCs	Inorganics
Surface Soil	SS-1	(0-0.5')	07/12/99	L52647	X			
	SS-2	(0-0.5')	07/12/99	L52647	X		X	X
	SS-3	(0-0.5')	07/12/99	L52647	X			
	SS-4	(0-0.5')	07/13/99	L52675	X			
	SS-5	(0-0.5')	07/12/99	L52647	X			
	SS-6	(0-0.5')	07/13/99	L52675	X			
	SS-7	(0-0.5')	07/13/99	L52675	X			
	SS-8	(0-0.5')	07/13/99	L52675	X			
	SS-9	(0-0.5')	07/13/99	L52675	X		X	X
	SS-10	(0-0.5')	07/14/99	L52693	X			
	SS-11	(0-0.5')	07/13/99	L52647	X		X	X
	SS-12	(0-0.5')	07/14/99	L52693	X			
	SS-13	(0-0.5')	07/14/99	L52693	X			
	SS-14	(0-0.5')	07/14/99	L52693	X			
	SS-15	(0-0.5')	07/14/99	L52693	X		X	X
	SS-16	(0-0.5')	07/14/99	L52693	X			
	SS-17	(0-0.5')	07/14/99	L52693	X			
	SS-18	(0-0.5')	07/15/99	L52675	X		X	X
	SS-19	(0-0.5')	07/15/99	L52675	X		X	X
	SS-20	(0-0.5')	07/15/99	L52675	X		X	X
	SS-20	(0-0.5')	08/19/99	L53678	X			
	DUP-1 (SS-20)	(0-0.5')	08/19/99	L53678	X			
	SS-21	(0-0.5')	07/13/99	L52675	X			
	SS-22	(0-0.5')	07/13/99	L52675	X			

Table 1
(cont'd)
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

Preliminary Site Assessment (PSA)
Analytical Sample Summary

Matrix	Sample ID	Sample Interval	Date Sampled	SDG #	Analyses			
					PCBs	VOCs	SVOCs	Inorganics
Surface Soil (Cont'd)	SS-23	(0-0.5')	07/14/99	L52693	X		X	X
	SS-30	(0-0.5')	07/22/99	L52926	X		X	X
Subsurface Soil	TP-1	(0.5-1.5')	07/12/99	L52647	X			
	TP-2	(1.5-3.5')	07/12/99	L52647	X		X	X
				L52675		X		
	TP-3	(1-2')	07/12/99	L52647	X			
	TP-4	(1-2')	07/13/99	L52675	X	X	X	X
	DUP-1 (TP-4)	(1-2')	07/13/99	L52647	X		X	X
				L52675		X		
	TP-5	(0.5-1.5')	07/12/99	L52647	X			
	TP-6	(2-3')	07/13/99	L52675	X			
	TP-8	(1.5-2.5')	07/13/99	L52675	X			
	TP-9	(1.5-2.5')	07/13/99	L52675	X	X	X	X
	TP-11	(1-2')	07/13/99	L52647	X		X	X
				L52675		X		
	DUP-2 (TP-11)	(1-2')	07/13/99	L52647	X		X	X
				L52675		X		
	TP-12	(2-3')	07/14/99	L52693	X	X	X	X
	TP-13	(1-2')	07/14/99	L52693	X			
	TP-14	(1-2')	07/14/99	L52693	X			
	TP-15	(1-2')	07/14/99	L52693	X	X	X	X
	DUP-3 (TP-15)	(1-2')	07/14/99	L52693	X	X	X	X
	TP-16	(1-2')	07/14/99	L52693	X			
	TP-17	(0.5-1.5')	07/14/99	L52693	X			

Table 1
(Cont'd)
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

Preliminary Site Assessment (PSA)
Analytical Sample Summary

Matrix	Sample ID	Sample Interval	Date Sampled	SDG #	Analyses			
					PCBs	VOCs	SVOCs	Inorganics
Subsurface Soil (cont'd)	TP-18	(1.5-2.5')	07/15/99	L52675	X	X	X	X
	TP-19	(1.5-2.5')	07/15/99	L52675	X	X	X	X
	TP-20	(2-3')	07/15/99	L52675	X	X	X	X
	TP-21	(6.5-7')	07/13/99	L52675	X	X	X	X
	TP-22	(0.5-1.5')	07/13/99	L52647	X			
	TP-23	(1-2')	07/14/99	L52693	X	X	X	X
	TP-24	(7.5-8')	07/21/99	L52926	X	X*	X	X
	TP-25	(8-8.5')	07/21/99	L52926	X	X*	X	X
	TP-CP1	(1-2')	08/19/99	L53678	X			
		(3.5-5')	07/15/99	L52675		X	X	X
	TP-CP2	(1-2')	08/19/99	L53678	X			
		(3-5')	07/15/99	L52675		X	X	X
Oil/NAPL	Oil-H-15	NA	07/22/99	L52926	X			
Debris	M-5	NA	07/22/99	L52926	X	X*	X	X
	M-21	NA	07/22/99	L52926	X	X*	X	X
	M-75	NA	07/22/99	L52926	X	X*	X	X
	S-2	NA	07/22/99	L52926	X	X*	X	X
	S-3	NA	07/22/99	L52926	X	X*	X	X
	DUP-4 (S-3)	NA	07/22/99	L52926	X	X*	X	X

NOTES:
1. All samples were collected by Blasland, Bouck & Lee, Inc. (BBL) of Syracuse, New York.
2. SDG = Sample delivery group.
3. Sample designations indicate the following:
   - SS = Surface soil sample;
   - DUP of D = Blind duplicate sample;
   - TP = Subsurface soil sample collected from a test pit;

Table 1
(cont'd)
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

Preliminary Site Assessment (PSA)
Analytical Sample Summary

NOTES (Cont'd)

3. Sample designations indicate the following (cont'd):
   - M = Debris sample collected from an electrical manhole;
   - S = Debris sample collected from a storm/sanitary sewer manhole; and
   - NA = Not Applicable.
4. Soil and debris samples were analyzed using the following methods, as referred in the NYSDEC 1995 Analytical Series Protocol (ASP)
   - PCBs = Polychlorinated biphenyls using USEPA SW-846 Method 8082;
   - VOCs = Volatile organic compounds using USEPA SW-846 Method 8260 (including the following supplemental parameters: n-butylbenzene; sec-butylbenzene; tert-butylbenzene; isopropylbenezene; p-isopropyltoluene; n-propylbenzene; 1,2,4-trimethylbenzene; and 1,3,5-trimethylbenzene);
   - SVOCs = Semi-volatile organic compounds using USEPA SW-846 Method 8270; and
   - Inorganics = TAL inorganic constituents using USEPA SW-846 Method 6010 with the following exceptions: mercury was analyzed using Method 7470/7471, and cyanide was analyzed using Method 9010.
5. All laboratory analyses were performed by Galson Lahoratories, Inc. of East Syracuse, New York except where indicated by an asterisk.
6. * = Sample analysis for VOCs or cyanide was performed by O'Brien & Gere Laboratories, Inc. of Syracuse, New York.
7. Analytical results have not been validated.

Table 2

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

Preliminary Site Assessment (PSA)
Headspace Screening Summary

Sample location	Sample depth (feet)	PID headspace reading (ppm)
S-1	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
	4-6	0.0
S-2	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
	4-6	0.0
S-3	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
	4-6	0.0
S-4	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
	4-6	0.0
S-5	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-6	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
	4-6	0.0
S-7	0-0.5	0.0
S-8	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-9	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0

Table 2
(cont'd)
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

Preliminary Site Assessment (PSA)
Headspace Screening Summary

Sample Location	Sample Depth (ft)	PID Headspace Result (ppm)
S-10	0-0.5	0.0
	0.5-2	0.0
S-11	0-0.5	0.0
	2-4	0.0
S-12	0-0.5	0.0
	0.5-2	0.0
S-13	0-0.5	0.0
	0.5-2	0.0
S-14	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-15	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-16	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-17	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-18	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-19	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-20	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0

Table 2
(cont'd)
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

Preliminary Site Assessment (PSA)
Headspace Screening Summary

Sample Location	Sample Depth (feet)	PID Screening Result (ppm)
S-21	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
	4-6	**517**
S-22	0-0.5	0.0
	0.5-2	0.0
	2-4	0.0
S-23	0-0.5	1.2
	0.5-2	0.6
	2-4	0.0

NOTES:
1. PID = Photoionization detector.
2. ppm = Parts per million.
3. Sample location designations indicate the following:
   - S = Soil sampling location.

Table 3

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Surface Soil Analytical Results for Total PCBs (ppm)

Sample ID	Total PCB Concentration
SS-1 (0-0.5')	0.04
SS-2 (0-0.5')	<0.018
SS-3 (0-0.5')	<0.092 D
SS-4 (0-0.5')	<0.017
SS-5 (0-0.5')	0.096
SS-6 (0-0.5')	0.019
SS-7 (0-0.5')	0.77 D
SS-8 (0-0.5')	0.43 D
SS-9 (0-0.5')	[redacted]
SS-10 (0-0.5')	[redacted]
SS-11 (0-0.5')	[redacted]
SS-12 (0-0.5')	0.11
SS-13 (0-0.5')	<0.018
SS-14 (0-0.5')	0.037
SS-15 (0-0.5')	<0.019
SS-16 (0-0.5')	0.137
SS-17 (0-0.5')	0.031
SS-18 (0-0.5')	0.073
SS-19 (0-0.5')	<0.025
SS-20 (0-0.5')	0.024
DUP-1 (SS-20)	<0.018
SS-21 (0-0.5')	<0.017
SS-22 (0-0.5')	[redacted]
SS-23 (0-0.5')	[redacted]
SS-30 (0-0.5')	0.38 D

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999 (except for samples SS-20 and DUP-1 [SS-20] which were collected during August 1999).
2. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York using USEPA SW-846 Method 8082 as referenced in New York State Department of Environmental Conservation (NYSDEC) 1995 Analytical Services Protocol (ASP).
3. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
4. Sample designations indicate the following:
   SS = Surface soil sample
5. < = Each Aroclor was not detected above the presented concentration.
6. D = Constituent concentration is based on a diluted sample analysis.
7. Shaded values indicate that the constituent was detected at a concentration exceeding the recommended surface soil cleanup objective of 1 ppm presented in the NYSDEC document entitled, "Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels" HWR-94-4046 (TAGM 4046), dated January 24, 1994.
8. Analytical results have not been validated.

Table 4

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Surface Soil Analytical Results for Detected SVOCs (ppm)

Constituent	NYSDEC Recommended Soil Cleanup Objective	SS-2	SS-9	[illegible]	SS-15	SS-18	SS-19	SS-20	SS-28	SS-30
1,4-Dichlorobenzene	NA	<0.38	<7.2	0.037 J	<0.38	<0.43	<0.47	<0.39	<22.0	<5.6
1,2,4-Trichlorobenzene	3.3	<0.38	<7.2	0.066 J	<0.38	<0.43	<0.47	<0.39	<22.0	<5.6
Naphthalene	13	0.093 J	<7.2	0.047 J	<0.38	<0.43	<0.47	<0.39	<22.0	[illegible]
2-Methylnaphthalene	36.4	0.094 J	<7.2	0.059 J	<0.38	<0.43	<0.47	<0.39	<22.0	8.4
Acenaphthylene	41	0.29 J	<7.2	<0.36	<0.38	<0.43	<0.47	<0.39	<22.0	4.5 J
2,6-Dinitrotoluene	1.0	<0.38	<7.2	<0.36	<0.38	<0.43	<0.47	<0.39	<22.0	[illegible]
Acenaphthene	50.0*	0.30 J	<7.2	<0.36	<0.38	<0.43	<0.47	<0.39	<22.0	31
Dibenzofuran	6.2	0.36 J	<7.2	<0.36	<0.38	<0.43	<0.47	<0.39	<22.0	[illegible]
Fluorene	50.0*	0.56	<7.2	<0.36	<0.38	<0.43	<0.47	0.052 J	<22.0	40
Phenanthrene	50.0*	7.8 D	<7.2	0.29 J	0.062 J	0.18 J	0.1 J	0.49	3.1 J	[illegible]
Anthracene	50.0*	1.3	<7.2	0.067 J	<0.38	<0.43	<0.47	0.049 J	<22.0	[illegible]
Di-n-butylphthalate	8.1	<0.38	<7.2	<0.36	<0.38	0.5 B	[illegible]	0.3 JB	3.3 J	<5.6
Fluoranthene	50.0*	9.2 D	<7.2	0.51	0.10 J	0.19 J	0.16 J	0.44	2.2 J	[illegible]
Pyrene	50.0*	6.3 D	<7.2	0.32 J	0.075 J	0.35 J	0.16 J	0.59	<22.0	[illegible]
Benzo(a)anthracene	0.224 or MDL	[illegible]	<7.2	0.20 J	0.045 J	0.12 J	0.059 J	0.21 J	<22.0	[illegible]
Chrysene	0.4	[illegible]	<7.2	0.30 J	0.069 J	0.18 J	0.10 J	0.27 J	<22.0	[illegible]
Bis(2-ethylhexyl)phthalate	50.0*	<0.38	<7.2	0.083 J	<0.38	0.34 JB	0.28 JB	0.23 JB	<22.0	0.63 J
Benzo(b)fluoranthene	1.1	[illegible]	<7.2	0.29 J	0.059 J	0.16 J	0.085 J	0.25 J	<22.0	[illegible]
Benzo(k)fluoranthene	1.1	[illegible]	<7.2	0.20 J	0.047 J	0.18 J	0.073 J	0.31 J	<22.0	[illegible]
Benzo(a)pyrene	0.061 or MDL	[illegible]	<7.2	[illegible]	0.051 J	[illegible]	<0.47	[illegible]	<22.0	[illegible]
Indeno(1,2,3-cd)pyrene	3.2	2.3	<7.2	0.12 J	<0.38	<0.43	<0.47	<0.39	<22.0	[illegible]
Dibenzo(a,h)anthracene	0.014 or MDL	[illegible]	<7.2	<0.36	<0.38	<0.43	<0.47	<0.39	<22.0	[illegible]
Benzo(g,h,i)perylene	50.0*	2.60	<7.2	0.15 J	<0.38	<0.43	<0.47	<0.39	<22.0	[illegible]
Total TICS	NA	49.98 J	-	2.67 J	0.88 J	4.21 J	3.54 J	2.18 J	254 J	388.2 J

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Table 4

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Surface Soil Analytical Results for Detected SVOCs (ppm)

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York for SVOCs using USEPA SW-846 Method 8270 as referenced in New York State Department of Environmental Conservation (NYSDEC) 1995 Analytical Services Protocol (ASP).
3. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
4. Sample designations indicate the following:
   SS = Surface soil sample.
5. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
6. B = Compound was identified in the sample as well as its associated blank.
7. D = Indicated concentration is based on a diluted sample analysis.
8. J = Indicates an estimated value.
9. MDL = Method Detection Limit
10. NA = Not available.
11. NYSDEC-recommended soil cleanup Objectives are from the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) document entitled " Determination of Soil Cleanup Objectives and Soil Cleanup Levels," HWR-94-4046 (TAGM 4046), dated January 24, 1999, as amended by a December 20, 2000 NYSDEC interoffice memorandum.
12. Shaded values indicate constituent was detected at concentration exceeding the NYSDEC-recommended soil cleanup objectives.
13. * = As per TAGM 4046, total SVOCs <500 ppm and individual SVOCs <50.
14. TIC = Tentatively identified compound.
15. - = Indicates no TICs detected.
16. Analytical results have not been validated.

Table 5

Niagara Mohawk Power Coporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation

Surface Soil Analytical Results for TAL Inorganic Constituents (ppm)

Constituent	NYSDEC Recommended Soil Cleanup Objective	SS-01	SS-02	SS-11	SS-12	SS-13	SS-19	SS-20	SS-21	SS-30
Aluminum	SB	6,760	2,610	10,600	6,290	25,000	7,650	7,290	15,500	8,640
Antimony	SB	<0.56	5.3 B	<0.54	0.98 B	<0.65	<0.77	<0.60	<0.54	2.1 B
Arsenic	7.5 or SB	82.2	7.7	6.2	4.9	6.1	6.4	5.4	9	19.6
Barium	300 or SB	76.7	672	156	68.9	306	81.5	107	527	1,100
Beryllium	0.16 or SB	0.45 B	0.44 B	1.6	0.38 B	4.3	0.74 B	0.65	2.6	1.1
Cadmium	1.0 or SB	0.99	4.1	3.7	1.1	2.8	0.87	1.7	4.1	12.2
Calcium	SB	72,700	142,000	153,000	34,000	150,000	101,000	46,200	155,000	102,000
Chromium	10 or SB	88.7	59.6	44.9	21.6	83.2	176	51.4	56.9	169
Cobalt	30 or SB	6.5	13.4	43.1	12.4	44.1	28.4	11.6	36.8	85.9
Copper	25 or SB	54.8	566	306	133	343	191	70.3	313	369
Iron	2000 or SB	13,000	17,600	7,910	14,400	16,400	18,200	17,300	10,200	33,800
Lead	SB	169	1,600	528	519	412	124	273	622	5,880
Magnesium	SB	12,400	82,600	59,700	8,690	33,200	35,600	18,300	42,500	21,300
Manganese	SB	360	1,160	1,430	367	2,600	725	475	3,290	2,730
Mercury	0.1	0.09 B	2.8	0.46	0.23	0.63	0.43	0.22	0.53	0.9
Nickel	13 or SB	14.6	31.3	45.6	21.1	52.7	40.1	24.6	50.1	121
Potassium	SB	1,330	365 B	856	600	2,450	1,010	774	1,470	1,010
Selenium	2.0 or SB	1.2	1.3	1.3	0.94	3.2	1.5	0.72	2.2	2.7
Silver	SB	<0.22	1.6	<0.22	<0.22	<0.26	<0.31	0.38 B	<0.22	1.8
Sodium	SB	336 B	356 B	543 B	106 B	648 B	171 B	106 B	984	500 B
Thallium	SB	<0.67	<0.64	0.90 B	<0.66	1.6	<0.92	<0.72	2.1	<0.68
Vanadium	150 or SB	32.2	91.9	31.2	19.5	50.4	24.1	32.6	68.7	268
Zinc	20 or SB	191	1,460	1,060	177	534	182	236	1,100	2,910
Cyanide	***	<0.56	<0.53	<0.54	<0.44	<0.64	<0.60	<0.52	<0.52	<0.56

Table 5

Niagara Mohawk Power Coporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation

Surface Soil Analytical Results for TAL Inorganic Constituents (ppm)

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. TAL = Target Analyte List.
3. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York using USEPA SW-846 Method 6010 with the following exceptions:
   - Mercury was analyzed using Method 7470/7471; and
   - Cyanide was analyzed using Method 9010.
4. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
5. Sample designations indicate the following:
   SS = Surface soil sample
6. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
7. B = Indicates a value which is greater than or equal to the instrument detection limit, but less than the contract required detection limit.
8. SB = Site background.
9. *** = Site-specific form(s) of cyanide shall be considered when establishing soil cleanup objectives.
10. NYSDEC-recommended soil cleanup objectives from the NYSDEC document entitled, "Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels" HWR-94-4046 (TAGM 4046), dated January 24, 1994.
11. Analytical results have not been validated.

Table 6

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for Total PCBs (ppm)

Sample ID	Sample Depth	Total PCB Concentration
TP-1	(0.5-1.5')	<0.019
TP-2	(1.5-3.5')	<0.019
TP-3	(1-2')	<0.019
TP-4	(1-2')	<0.020
DUP-1 (TP-4)	(1-2')	<0.020
TP-5	(0.5-1.5')	<0.022
TP-6	(2-3')	<0.019
TP-8	(1.5-2.5')	<0.020
TP-9	(1.5-2.5')	0.084
TP-11	(1-2')	<0.018
DUP-2 (TP-11)	(1-2')	<0.019
TP-12	(2-3')	<0.019
TP-13	(1-2')	<0.019
TP-14	(1-2')	<0.018
TP-15	(1-2')	<0.019
DUP-3 (TP-15)	(1-2')	<0.019
TP-16	(1-2')	0.034
TP-17	(0.5-1.5')	0.053
TP-18	(1.5-2.5')	<0.023
TP-19	(1.5-2.5')	<0.019
TP-20	(2-3')	<0.023
TP-21	(6.5-7')	<0.020
TP-22	(0.5-1.5')	<0.019
TP-23	(1-2')	<0.018
TP-24	(7.5-8')	<0.020
TP-25	(8-8.5')	<0.021
TP-CP1	(1-2')	0.21
TP-CP2	(1-2')	1.2 D

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York using USEPA SW-846 Method 8082 as referenced in NYSDEC 1995 ASP.
3. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
4. Sample designations indicate the following:
   TP = Test pit (subsurface soil sample)
   TP-CP = Test pit excavateed in former cooling pond (subsurface soil sample)
   DUP = Duplicate sample
5. < = Each Aroclor was not detected above the presented concentration.
6. D = Constituent concentration based on a diluted sample analysis.
7. The NYSDEC-recommended subsurface soil cleanup objective for PCBs as presented in the NYSDEC document entitled, "Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels" HWR-94-4046 (TAGM 4046), dated January 24, 1994, is 10 ppm.
8. Analytical results have not been validated.

Table 7

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for Detected VOCs and SVOCs (ppm)

[illegible]	[illegible] Recommended Soil Cleanup Objectives	[illegible]	[illegible]	[illegible]	[illegible]
VOCs					
Acetone	0.2	<0.012	[illegible]	[illegible]	<0.012
Methylene chloride	0.1	0.043 B	0.029 B	0.029 B	0.043 B
2-Butanone	0.3	<0.012	0.061	0.12	<0.012
Benzene	0.06	0.001 J	<0.012	<0.013	<0.012
Toluene	1.5	0.006 J	<0.012	0.017	0.002 J
Tetrachloroethene	1.4	<0.012	<0.012	<0.013	<0.012
Ethylbenzene	5.5	<0.012	<0.012	<0.013	<0.012
Xylene (Total)	1.2	<0.012	<0.012	<0.013	<0.012
Isopropylbenzene	5.0	<0.012	<0.012	<0.013	<0.012
n-Propylbenzene	14.0	<0.012	<0.012	<0.013	<0.012
1,3,5-Trimethylbenzene	3.3	<0.012	<0.012	<0.013	<0.012
1,2,4-Trimethylbenzene	13.0	<0.012	<0.012	<0.013	<0.012
sec-Butylbenzene	25.0	<0.012	<0.012	<0.013	<0.012
p-Isopropyltoluene	11.0	<0.012	<0.012	<0.013	<0.012
Total TICs	NA	ND	ND	ND	ND
SVOCs					
Benzyl alcohol	NA	<0.40	<0.41	<0.41	<0.39
Isophorone	4.40	<0.40	<0.41	<0.41	<0.39
Naphthalene	13	0.097 J	<0.41	<0.41	<0.39
2-Methylnaphthalene	36.4	0.15 J	<0.41	<0.41	<0.39
Acenaphthylene	41	0.041 J	0.91 J	<0.41	<0.39
Acenaphthene	50.0**	<0.40	<0.41	<0.41	<0.39
Dibenzofuran	6.2	0.057 J	<0.41	<0.41	<0.39
Fluorene	50.0**	<0.40	<0.41	<0.41	<0.39
N-Nitrosodiphenylamine	NA	<0.40	<0.41	<0.41	<0.39
Phenanthrene	50.0**	0.35 J	0.14 J	0.069 J	0.12 J
Anthracene	50.0**	0.063 J	0.047 J	<0.41	<0.39
Di-n-butylphthalate	8.1	<0.40	<0.41	<0.41	<0.39
Fluoranthene	50.0**	0.52	0.34 J	0.18 J	0.13 J
Pyrene	50.0**	0.45	0.23 J	0.11 J	0.11 J
Benzo(a)anthracene	0.224 or MDL	[illegible]	0.17 J	0.075 J	0.11 J
Chrysene	0.4	0.28 J	0.27 J	0.1 J	0.20 J
Bis(2-Ethylhexyl)phthalate	50.0**	<0.40	<0.41	<0.41	0.052 J
Benzo(b)fluoranthene	1.1	0.20 J	0.26 J	0.092 J	0.52
Benzo(k)fluoranthene	1.1	0.23 J	0.25 J	0.065 J	0.18 J
Benzo(a)pyrene	0.061 or MDL	[illegible]	[illegible]	[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	3.2	0.12 J	0.15 J	<0.41	0.36 J
Dibenzo(a,h)anthracene	0.014 or MDL	<0.40	[illegible]	<0.41	[illegible]
Benzo(g,h,i)perylene	50.0**	0.13 J	0.18 J	<0.41	0.59
Total TICs	NA	51.13 J	4.27 J	2.71 J	1.96 J

- see notes on page 6.

Table 7

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for Detected VOCs and SVOCs (ppm)

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VOCs					
Acetone	0.2	<0.011	<0.012	<0.011	<0.012
Methylene chloride	0.1	0.027 B	0.028 B	0.023 B	0.07 B
2-Butanone	0.3	<0.011	<0.012	<0.011	<0.012
Benzene	0.06	<0.011	<0.012	0.002 J	<0.012
Toluene	1.5	0.004 J	0.005 J	0.002 J	<0.012
Tetrachloroethene	1.4	<0.011	<0.012	<0.011	<0.012
Ethylbenzene	5.5	<0.011	<0.012	<0.011	<0.012
Xylene (Total)	1.2	<0.011	<0.012	<0.011	<0.012
Isopropylbenzene	5.0	<0.011	<0.012	<0.011	<0.012
n-Propylbenzene	14.0	<0.011	<0.012	<0.011	<0.012
1,3,5-Trimethylbenzene	3.3	<0.011	<0.012	<0.011	<0.012
1,2,4-Trimethylbenzene	13.0	<0.011	<0.012	<0.011	<0.012
sec-Butylbenzene	25.0	<0.011	<0.012	<0.011	<0.012
p-Isopropyltoluene	11.0	<0.011	<0.012	<0.011	<0.012
Total TICs	NA	ND	ND	ND	ND
SVOCs					
Benzyl alcohol	NA	<0.38	<0.37	<0.36	<0.39
Isophorone	4.40	<0.38	<0.37	<0.36	<0.39
Naphthalene	13	<0.38	<0.37	<0.36	<0.39
2-Methylnaphthalene	36.4	<0.38	<0.37	<0.36	<0.39
Acenaphthylene	41	<0.38	<0.37	<0.36	<0.39
Acenaphthene	50.0**	<0.38	<0.37	<0.36	<0.39
Dibenzofuran	6.2	<0.38	<0.37	<0.36	<0.39
Fluorene	50.0**	<0.38	<0.37	<0.36	<0.39
N-Nitrosodiphenylamine	NA	<0.38	<0.37	<0.36	<0.39
Phenanthrene	50.0**	0.41	<0.37	0.092 J	<0.39
Anthracene	50.0**	0.11 J	<0.37	<0.36 J	<0.39
Di-n-butylphthalate	8.1	<0.38	<0.37	<0.36	<0.39
Fluoranthene	50.0**	0.79	0.070 J	0.14 J	<0.39
Pyrene	50.0**	0.56	0.055 J	0.12 J	<0.39
Benzo(a)anthracene	0.224 or MDL	[illegible]	0.043 J	0.072 J	<0.39
Chrysene	0.4	0.36 J	0.056 J	0.10 J	<0.39
Bis(2-Ethylhexyl)phthalate	50.0**	<0.38	<0.37	<0.36	<0.39
Benzo(b)fluoranthene	1.1	0.27 J	0.056 J	0.068 J	<0.39
Benzo(k)fluoranthene	1.1	0.31 J	0.060 J	0.076 J	<0.39
Benzo(a)pyrene	0.061 or MDL	[illegible]	0.052 J	0.061 J	<0.39
Indeno(1,2,3-cd)pyrene	3.2	0.16 J	<0.37	<0.36	<0.39
Dibenzo(a,h)anthracene	0.014 or MDL	<0.38	<0.37	<0.36	<0.39
Benzo(g,h,i)perylene	50.0**	0.16 J	<0.37	<0.36	<0.39
Total TICs	NA	6.05 J	7.83 J	0.4 J	0.36 J

- see notes on page 6.

Table 7

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for Detected VOCs and SVOCs (ppm)

Constituent	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VOCs					
Acetone	0.2	<0.012	<0.014	<0.012	<0.015
Methylene chloride	0.1	0.019 B	0.018 B	0.015 B	0.009 JB
2-Butanone	0.3	<0.012	<0.014	<0.012	<0.015
Benzene	0.06	0.002 J	<0.014	<0.012	<0.015
Toluene	1.5	0.003 J	<0.014	0.001 J	<0.015
Tetrachloroethene	1.4	<0.012	<0.014	<0.012	<0.015
Ethylbenzene	5.5	<0.012	<0.014	<0.012	<0.015
Xylene (Total)	1.2	0.002 J	<0.014	<0.012	<0.015
Isopropylbenzene	5.0	<0.012	<0.014	<0.012	<0.015
n-Propylbenzene	14.0	<0.012	<0.014	<0.012	<0.015
1,3,5-Trimethylbenzene	3.3	<0.012	<0.014	<0.012	<0.015
1,2,4-Trimethylbenzene	13.0	<0.012	<0.014	<0.012	<0.015
sec-Butylbenzene	25.0	<0.012	<0.014	<0.012	<0.015
p-Isopropyltoluene	11.0	<0.012	<0.014	<0.012	<0.015
Total TICs	NA	ND	ND	ND	ND
SVOCs					
Benzyl alcohol	NA	<0.38	0.054 J	<0.39	0.053 J
Isophorone	4.40	<0.38	<0.46	<0.39	<0.45
Naphthalene	13	<0.38	<0.46	<0.39	<0.45
2-Methylnaphthalene	36.4	<0.38	<0.46	<0.39	<0.45
Acenaphthylene	41	<0.38	<0.46	<0.39	<0.45
Acenaphthene	50.0**	<0.38	<0.46	<0.39	<0.45
Dibenzofuran	6.2	<0.38	<0.46	<0.39	<0.45
Fluorene	50.0**	<0.38	<0.46	<0.39	<0.45
N-Nitrosodiphenylamine	NA	<0.38	<0.46	<0.39	<0.45
Phenanthrene	50.0**	0.056 J	<0.46	<0.39	<0.45
Anthracene	50.0**	<0.38	<0.46	<0.39	<0.45
Di-n-butylphthalate	8.1	<0.38	0.53 B	0.16 JB	0.48 B
Fluoranthene	50.0**	0.058 J	<0.46	<0.39	<0.45
Pyrene	50.0**	0.045 J	<0.46	<0.39	<0.45
Benzo(a)anthracene	0.224 or MDL	<0.38	<0.46	<0.39	<0.45
Chrysene	0.4	<0.38	<0.46	<0.39	<0.45
Bis(2-Ethylhexyl)phthalate	50.0**	<0.38	0.32 JB	0.12 JB	0.24 JB
Benzo(b)fluoranthene	1.1	<0.38	<0.46	<0.39	<0.45
Benzo(k)fluoranthene	1.1	<0.38	<0.46	<0.39	<0.45
Benzo(a)pyrene	0.061 or MDL	<0.38	<0.46	<0.39	<0.45
Indeno(1,2,3-cd)pyrene	3.2	<0.38	<0.46	<0.39	<0.45
Dibenzo(a,h)anthracene	0.014 or MDL	<0.38	<0.46	<0.39	<0.45
Benzo(g,h,i)perylene	50.0**	<0.38	<0.46	<0.39	<0.45
Total TICs	NA	ND	3.43 J	2.24 J	3.53 J

- see notes on page 6.

Table 7

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for Detected VOCs and SVOCs (ppm)

Constituent	NYSDEC Recommended Soil Cleanup Objectives	[illegible]	[illegible]	[illegible]	[illegible]
VOCs					
Acetone	0.2	<0.061	<0.011	<0.012	<0.013
Methylene chloride	0.1	0.099 B	0.021 B	<0.006	<0.006
2-Butanone	0.3	<0.061	<0.011	<0.012	<0.013
Benzene	0.06	<0.061	<0.011	<0.003	0.0007 J
Toluene	1.5	<0.061	<0.011	0.0008	0.001 J
Tetrachloroethene	1.4	<0.061	<0.011	<0.003	<0.003
Ethylbenzene	5.5	0.11	<0.011	<0.003	<0.003
Xylene (Total)	1.2	0.17	<0.011	<0.003	0.0008 J
Isopropylbenzene	5.0	0.14	<0.011	<0.003	<0.003
n-Propylbenzene	14.0	0.25	<0.011	<0.003	<0.003
1,3,5-Trimethylbenzene	3.3	0.30	<0.011	<0.003	<0.003
1,2,4-Trimethylbenzene	13.0	0.63	<0.011	<0.003	<0.003
sec-Butylbenzene	25.0	0.22	<0.011	<0.003	<0.003
p-Isopropyltoluene	11.0	0.17	<0.011	<0.003	<0.003
Total TICs	NA	19.1 J	ND	0.006 J	0.007 J
SVOCs					
Benzyl alcohol	NA	<0.40	<0.36	0.040 J	0.045 J
Isophorone	4.40	0.31 J	<0.36	<0.40	<0.42
Naphthalene	13	<0.40	<0.36	<0.40	0.088 J
2-Methylnaphthalene	36.4	<0.40	<0.36	<0.40	<0.42
Acenaphthylene	41	0.077 J	<0.36	<0.40	<0.42
Acenaphthene	50.0**	0.062 J	<0.36	<0.40	0.12 J
Dibenzofuran	6.2	0.18 J	<0.36	<0.40	0.11 J
Fluorene	50.0**	0.44	<0.36	<0.40	0.17 J
N-Nitrosodiphenylamine	NA	0.072 J	<0.36	<0.40	<0.42
Phenanthrene	50.0**	2.5	0.047 J	0.065 J	1.7
Anthracene	50.0**	0.52	<0.36	<0.40	0.29 J
Di-n-butylphthalate	8.1	<0.40	<0.36	0.99 B	0.59 B
Fluoranthene	50.0**	2.1	0.11 J	0.19 J	1.9
Pyrene	50.0**	1.4	0.099 J	0.13 J	1.2
Benzo(a)anthracene	0.224 or MDL	[illegible]	0.063 J	0.14 J	[illegible]
Chrysene	0.4	[illegible]	0.084 J	0.18 J	[illegible]
Bis(2-Ethylhexyl)phthalate	50.0**	<0.40	0.038 J	0.14 J	0.20 J
Benzo(b)fluoranthene	1.1	0.44	0.076 J	0.16 J	0.45
Benzo(k)fluoranthene	1.1	0.55	0.075 J	0.13 J	0.59
Benzo(a)pyrene	0.061 or MDL	[illegible]			
Indeno(1,2,3-cd)pyrene	3.2	0.24 J	<0.36	0.062 J	0.31 J
Dibenzo(a,h)anthracene	0.014 or MDL	[illegible]	<0.36	<0.40	[illegible]
Benzo(g,h,i)perylene	50.0**	0.21 J	<0.36	<0.40	0.28 J
Total TICs	NA	32.76 J	0.36 J	3.69 J	3.8 J

- see notes on page 6.

Table 7

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for Detected VOCs and SVOCs (ppm)

Compound	NYSDEC Recommended Soil Cleanup Objective	[illegible]	[illegible]
VOCs			
Acetone	0.2	<0.012	<0.012
Methylene chloride	0.1	0.017 B	0.020 B
2-Butanone	0.3	<0.012	<0.012
Benzene	0.06	<0.012	<0.012
Toluene	1.5	<0.012	<0.012
Tetrachloroethene	1.4	0.005 J	<0.012
Ethylbenzene	5.5	<0.012	<0.012
Xylene (Total)	1.2	<0.012	<0.012
Isopropylbenzene	5.0	<0.012	<0.012
n-Propylbenzene	14.0	<0.012	<0.012
1,3,5-Trimethylbenzene	3.3	<0.012	<0.012
1,2,4-Trimethylbenzene	13.0	<0.012	<0.012
sec-Butylbenzene	25.0	<0.012	<0.012
p-Isopropyltoluene	11.0	<0.012	<0.012
Total TICs	NA	ND	ND
SVOCs			
Benzyl alcohol	NA	0.056 J	<0.38
Isophorone	4.40	<0.39	<0.38
Naphthalene	13	0.051 J	0.076 J
2-Methylnaphthalene	36.4	0.050 J	0.084 J
Acenaphthylene	41	<0.39	<0.38
Acenaphthene	50.0**	<0.39	0.071 J
Dibenzofuran	6.2	<0.39	0.042 J
Fluorene	50.0**	<0.39	0.038 J
N-Nitrosodiphenylamine	NA	<0.39	<0.38
Phenanthrene	50.0**	0.52	0.55
Anthracene	50.0**	0.099 J	0.12 J
Di-n-butylphthalate	8.1	0.22 JB	0.76 B
Fluoranthene	50.0**	0.71	0.82
Pyrene	50.0**	0.67	1.4
Benzo(a)anthracene	0.224 or MDL	[illegible]	[illegible]
Chrysene	0.4	[illegible]	[illegible]
Bis(2-Ethyihexyl)phthalate	50.0**	0.16 JB	0.33 JB
Benzo(b)fluoranthene	1.1	0.5	0.69
Benzo(k)fluoranthene	1.1	0.37 J	0.77
Benzo(a)pyrene	0.061 or MDL	[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	3.2	0.21 J	<0.38
Dibenzo(a,h)anthracene	0.014 or MDL	[illegible]	<0.38
Benzo(g,h,i)perylene	50.0**	0.21 J	<0.38
Total TICs	NA	5.65 J	6.79 J

- see notes on page 6.

Table 7

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for Detected VOCs and SVOCs (ppm)

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York for VOCs using USEPA SW-846 Method 8260 and for SVOCs using USEPA SW-846 Method 8270 except where noted by an asterisk (*). Samples identifications marked with an asterisk were analyzed by O'Brien & Gere Laboratories, Inc. of Syracuse, New York using the above-refernced methods.
3. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
4. Sample designations indicate the following:
   TP = Test pit (subsurface soil sample)
   TP-CP =Test pit excavated in a former cooling pond (subsurface soil sample)
   DUP = Duplicate sample
5. VOCs analytical results samples TP-2, TP-9, TP-12, DUP-3, TP-18, TP-19, TP-CP1, and TP-CP2 are from analysis of re-extracted samples. SVOCs analytical results for sample TP-9 are from re-analysis of initial sample extraction.
6. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
7. B = Compound was identified in the sample as well as its associated blank.
8. J = Indicates an estimated value.
9. MDL = Method Detection Limit
10. NYSDEC-recommended Soil Cleanup Objectives are from the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) document entitled "Determination of Soil Cleanup Objectives and Cleanup Levels," HWR-94-4046 (TAGM 4046), dated January 24, 1999, as amended by a December 20, 2000 NYSDEC interoffice memorandum.
11. Shaded values indicate constituent was detected at concentration exceeding the NYSDEC-recommended soil cleanup objectives.
12. ** = As per TAGM 4046, Individual SVOCs <50 ppm and total SVOCs <500ppm.
13. TIC = Tentatively identified compound.
14. ND = Indicated no TICs detected.
15. Analytical results have not been validated.

Table 8

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for TAL Inorganic Constituents (ppm)

Constituent	NYSDEC Recommended Soil Cleanup Objectives	TP-2 (11-13.5)	TP-4 (10-12)	DUP-1 <TP-4> (8-12)	TP-9 (1.5-2.5)	TP-11 (8-10)	DUP-2 <TP-11> (12-14)	TP-12 (8-10)	TP-15 (8-10)	DUP-3 <TP-15> (8-10)	TP-18 (10.5-12.5)
Aluminum	SB	2,590	9,580	8,730	2,940	8,150	5,800	4,820	6,560	6,130	9,950
Antimony	SB	<0.61	<0.62	<0.61	1.1 B	<0.56	<0.57	<0.57	<0.60	<0.59	<0.70
Arsenic	7.5 or SB	62.3	4.0	2.3	7.2	7.8	15.7	41.7	2.8	4.5	6.5
Barium	300 or SB	48.0	62.7	61.4	65	83.0	56.8	419	46.1	49.4	64.5
Beryllium	0.16 or SB	0.35 B	0.7	0.44 B	0.37 B	0.77	0.31 B	0.30 B	0.31 B	0.35 B	0.81
Cadmium	1.0 or SB	0.43 B	0.40 B	0.47 B	1.0	1.0	0.84	1.2	0.44 B	1.1	0.43 B
Calcium	SB	5,110	8,600	11,900	28,800	68,900	31,100	66,900	40,400	39,800	18,300
Chromium	10 or SB	6.4	24.8	24.4	14.9	21.2	31.1	126	12.3	16.9	25.6
Cobalt	30 or SB	4.8 B	8.0	7.4	4.5 B	4.6 B	6.6	7.5	6.0	7.5	10.1
Copper	25 or SB	21.6	19.8	16	89.2	49.6	26.0	34.6	32.7	85.2	23.3
Iron	2000 or SB	18,900	20,100	16,300	5,930	9,440	14,200	10,200	13,200	14,700	20,800
Lead	SB	52.7	23.7	35.3	129	73.0	57.3	72.7	61.8	160	25.3
Magnesium	SB	488 B	3,520	4,960	9,820	21,500	9,960	30,600	9,140	9,180	5,930
Manganese	SB	38.3	222	219	225	433	307	985	272	302	396
Mercury	0.1	0.08 B	0.08 B	0.07 B	0.14	0.09 B	0.06 B	0.21	0.08 B	0.06 B	0.14 B
Nickel	13 or SB	8.5	17.2	16.2	13.9	12.1	14.2	16.3	14.8	15.9	21.6
Potassium	SB	417 B	673	617	395 B	578	6.49	536 B	517 B	513 B	970
Selenium	2.0 or SB	2.0	0.73	0.45 B	0.61	<0.34	<0.34	0.65	<0.36	0.6	1.4
Silver	SB	<0.24	<0.25	<0.24	<0.23	<0.22	<0.23	<0.23	<0.24	<0.23	<0.28
Sodium	SB	85.4 B	<66.9	<65.6	192 B	241 B	211 B	226 B	91.7 B	130 B	<75.6
Thallium	SB	<0.73	<0.75	<0.73	<0.70	<0.67	<0.69	<0.68	<0.72	<0.70	<0.85
Vanadium	150 or SB	10.9	18.8	16.2	16.4	11.7	15.3	12.7	13.0	15.6	23.4
Zinc	20 or SB	15.4	80.2	79.4	254	243	166	231	111	256	76.9
Cyanide	***	<0.60	<0.62	<0.63	<0.59	<0.47	<0.57	<0.50	<0.56	<0.52	<0.70

- see notes on page 3

Table 8

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for TAL Inorganic Constituents (ppm)

Constituent	NYSDEC Recommended Soil Cleanup Objectives	TP-10 (0.5-2.5)	TP-10 (2.5-5.0)	TP-11 (0.5-2.5)	TP-11 (2.5-5.0)	TP-12 (0.5-2.5)	TP-12 (2.5-5.0)	TP-13 (0.5-2.5)	TP-13 (2.5-5.0)
Aluminum	SB	7,400	8,050	7,860	5,180	12,700	7,330	8,190	7,840
Antimony	SB	<0.58	<0.73	<0.61	<0.56	<0.63	<0.64	0.96 B	<0.60
Arsenic	7.5 or SB	3.9	4.7	7.8	6.4	5.1	4.6	10.2	5.2
Barium	300 or SB	39.3	71.5	49.6	61.7	94.9	40.3	93.9	111
Beryllium	0.16 or SB	0.63	0.68 B	0.59 B	0.35 B	0.69	0.44 B	0.66	0.64
Cadmium	1.0 or SB	0.28 B	1.3	0.28 B	0.79	0.32 B	0.21 B	1.2	0.93
Calcium	SB	26,100	52,300	71,700	47,600	57,900	22,900	56,400	70,800
Chromium	10 or SB	15.9	73.3	28.1	84.1	49.9	15.6	21.6	32.0
Cobalt	30 or SB	8.1	10.9	8.6	5.3 B	10.5	7.6	7.6	8.2
Copper	25 or SB	17.6	35.9	19.1	30.7	22.5	22.6	98.9	45.9
Iron	2000 or SB	16,400	17,500	17,200	13,000	25,800	18,500	19,300	17,000
Lead	SB	33.6	71.1	11.6	72.5	10.8	15.7	311	85.8
Magnesium	SB	6,830	18,100	11,400	19,400	10,200	6,800	18,100	29,300
Manganese	SB	331	373	459	430	629	332	682	563
Mercury	0.1	<0.06	0.11 B	<0.06	0.09 B	<0.06	<0.06	0.41	0.55
Nickel	13 or SB	16.9	20.0	18.1	13.4	24.2	18.2	20.9	20.1
Potassium	SB	711	784	906	560 B	2,040	858	1,310	1,380
Selenium	2.0 or SB	0.77	0.74	0.54 B	<0.34	0.38 B	<0.39	0.93	0.58 B
Silver	SB	<0.23	<0.29	<0.24	<0.23	<0.25	<0.26	<0.24	<0.24
Sodium	SB	76.6 B	98.7 B	124 B	121 B	191 B	105 B	157 B	183 B
Thallium	SB	<0.70	<0.88	<0.73	<0.68	<0.76	<0.77	<0.73	<0.72
Vanadium	150 or SB	16.0	20.8	17.2	11.6	26.2	18.3	21.4	23.1
Zinc	20 or SB	60.6	130	49.6	177	60.1	66.5	280	671
Cyanide	***	<0.56	<0.62	<0.60	<0.50	<0.61	<0.51	<0.51	<0.59

- see notes on page 3

Table 8

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Soil Investigation
Subsurface Soil Analytical Results for TAL Inorganic Constituents (ppm)

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. TAL = Target Analyte List.
3. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York using USEPA SW-846 Method 6010 with the following exceptions:
   - Mercury was analyzed using Method 7470/7471; and
   - Cyanide was analyzed using Method 9010.
4. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
5. Sample designations indicate the following:
   TP = Subsurface soil sample collected from a test pit
   TP-CP = Test pit excavated in a former cooling pond (subsurface soil sample)
   DUP = Duplicate sample
6. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
7. B = Indicates a value which is greater than or equal to the instrument detection limit, but less than the contract required detection limit.
8. SB = Site background.
9. *** = Site-specific form(s) of cyanide shall be considered when establishing soil cleanup objective.
10. NYSDEC-recommended soil cleanup objectives from the NYSDEC document entitled, "Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels" HWR-94-4046 (TAGM 4046), dated January 24, 1994.
11. Analytical results have not been validated.

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catchbasin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (Inches)	Description of Water	Approximate Depth of Debris (Inches)	Description of Debris
Storm/Sanitary Sewer Manholes and Catch Basins						
S-1	No	Brick and mortar sidewalls. Construction of bottom undetermined. Sidewalls appear to be in good condition based on visual inspection and probing.	12	No Visible Sheen Apparent on Water Surface.	6	Silt/Gravel
S-2	Debris Sample S-2	Brick and mortar sidewalls. Construction of bottom undetermined. Sidewalls appear to be in good condition based on visual inspection and probing.	6	No Visible Sheen Apparent on Water Surface.	<1	Silt/Sand
S-3	Debris Sample S-3	Brick and mortar sidewalls. Construction of bottom undetermined. Sidewalls appear to be in good condition based on visual inspection and probing.	9	Not Applicable.	30	Silt/Sand/Gravel
S-4	No	Brick and mortar sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable	10	Silt/Sand
S-5	No	Brick and mortar sidewalls. Construction of bottom undetermined. Sidewalls appear to be in good condition based on visual inspection and probing.	<1	No Visible Oil Sheen Apparent on Water Surface.	4	Silt/Sand/Rock/Brick

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (inches)	Description of Water	Approximate Depth of Debris (inches)	Description of Debris
S-6	No	Brick and mortar sidewalls. Construction of bottom undetermined. Sidewalls appear to be in good condition based on visual inspection and probing.	0	Not Applicable	4-6	Silt/Sand/Brick/Metal/ Clay Tile
S-7	No	Brick and mortar sidewalls. Construction of bottom appears to be concrete. Sidewalls and bottom appear to be in fair to good condition based on visual inspection and probing.	0	Not Applicable	<1	Silt/Sand/Rust
S-8	No	Brick and mortar sidewalls. Construction of bottom appears to be concrete. Sidewalls and bottom appear to be in fair to good condition based on visual inspection and probing.	8	No Visible Oil Sheen Apparent on Water Surface.	<1	Gravel/Sand
S-9	No	Brick and mortar sidewalls. Construction of bottom appears to be concrete. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	6	No Visible Oil Sheen Apparent on Water Surface.	3-4	Silt/Sand
S-10	No	Brick and mortar sidewalls. Construction of bottom appears to be concrete. Sidewalls and bottom appear to be in fair to good condition based on visual inspection and probing.	0	Not Applicable.	9	Silt/Sand

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basin	Approximate Water Depth (inches)	Description of Water	Approximate Depth of Debris (inches)	Description of Debris
S-11	No	Brick and concrete sidewalls. Construction of bottom appears to be concrete. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	1	No Visible Oil Sheen Apparent on Water Surface.	2	Silt/Sand
S-13	No	Brick and mortar sidewalls. Construction of bottom appears to be concrete. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable	6	Silt/Sand
Valve Boxes						
CP-1	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable.	<1	Silt/Sand
CP-3	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable.	<1	Silt/Sand
W-1	No	Concrete sidewalls and bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	78	No Visible Sheen Apparent on Water Surface.	<1	Silt/Sand

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (inches)	Description of Water	Approximate Depth of Debris (inches)	Description of Debris
Subway Access Points						
EB-1 to EB-5 Subway No. 1	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection.	1	No Visible Sheen Apparent on Water Surface.	Trace to 1	Sand/Silt/Brick
M-1 to M-5 Subway No. 2	Collected debris sample below M-5 based on oil on water surface in structure.	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in fair to good condition based on visual inspection and probing.	1	Film of Oil Observed Below Cover	Trace to 1	Silt/Sand/Rusted Metal (oil-soaked gray-black silt and sand material below M 5)
M-6 to M-30 Subway No. 3	Collected debris sample below M-21 based on oil droplets on water surface.	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0 to 6	Oil droplets observed below cover of M-19 and M-21. Slight sheen below M-20, M-25, and M-27.	Trace to 1	Silt/Sand/Rusted Metal
M-31 to M-46 Subway No. 4	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable	Trace to 1	Black -Stained Silt/Sand Below Cover of M-43 and M-46 and Silt/Sand Below Remaining Covers
M-48 to M-63 Subway No. 5	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0 to Trace	NoVisible Oil Sheen Apparent on Water Surface.	0 to <1	Sand/Silt
M-65 to M-72 Subway No. 6	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	10 to 15	No Visible Oil Sheen Apparent on Water Surface.	<1	Silt/Sand

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected?	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (Inches)	Description of Water	Approximate Depth of Debris (Inches)	Description of Debris
M-73 to M-79 Subway No. 7	Collected debris sample below M-75.	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0 to <1	No Visible Oil Sheen Apparent on Water Surface.	0 to <1	Silt/Sand
Electrical Manholes in Vicinity of Subways						
M-47	No	Brick, concrete, and steel sidewalls. Construction of bottom undetermined.	24	NoVisible Oil Sheen	<1	Silt/Sand
M-64	No	Concrete sides and bottom. Good condition based on visual inspection.	0	NA	< 1	Sand/Silt
M-80	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	<1	No Sheen Observed.	1	Silt/Sand/Gravel
M-81	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	8	No Visible Sheen Apparent on Water Surface.	<1	Silt/Sand/Gravel
Electrical Manholes North of Echotal Building						
H-2	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	19	No Visible Sheen Apparent on Water Surface.	1	Silt/Sand/Gravel

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (Inches)	Description of Water	Approximate Depth of Debris (Inches)	Description of Debris
H-4	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	<1	Slight Sheen Apparent on Water Surface.	1-2	Silt/Sand
H-6	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	1	No Visible Sheen Apparent on Water Surface.	2	Sand/Gravel
H-7	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	1	No Visible Sheen Apparent on Water Surface	1	Sand
H-8	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable	1	Sediment/Sand
H-10	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable	1	Silt/Sand/Gravel

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (Inches)	Description of Water	Approximate Depth of Debris (Inches)	Description of Debris
H-11	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	60	No Visible Sheen Apparent on Water Surface.	2	Sand
H-12	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	<1	Slight Sheen Apparent on Water Surface.	<1	Silt/Sand
H-13	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	<1	Slight Sheen Apparent on Water Surface.	1	Silt/Sand
H-14	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	1	No Visible Sheen Apparent on Water Surface.	1	Silt/Sand
H-15	Collected Oil Sample	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	60	Thin Film of Oil on Water Surface	Trace	Not Applicable

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (Inches)	Description of Water	Approximate Depth of Debris (Inches)	Description of Debris
E-1	No	Brick and mortar sidewalls. Soil bottom. Brick debris observed on bottom of structure.	0	Not Applicable.	2	Brick/Soil
Electrical Manholes Primarily around Perimeter of Site						
1501	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	29	No Visible Sheen Apparent on Water Surface.	<1	Silt/Sand
1601	No	Concrete sidewalls. Concrete bottom. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	24	No Visible Sheen Apparent on Water Surface.	<1	Silt/Sand
1701	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	23	Slight Sheen Apparent on Water Surface after Probing Debris.	2	Silt/Sand
1702	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	28	Slight Sheen Apparent on Water Surface.	2	Silt/Sand

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole / Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basins	Approximate Water Depth (Inches)	Description of Water	Approximate Depth of Debris (Inches)	Description of Debris
1803	No	Brick and mortar sidewalls. Sidewalls appeared to be in good condition, bottom construction unknown.	12	No Apparent Sheen Visible on Water Surface.	1	Silt/Sand
1805	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	24	Slight Sheet Apparent on Water Surface.	Trace	Silt/Sand
1900	No	Construction material for sidewalls and bottom were not recorded by the on-site engineer.	30	Slight Sheen Apparent on Water Surface.	<1	Silt/Sand
1902	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	0	Not Applicable.	1-2	Silt/Rusted Metal
1903	No	Concrete sidewalls. Solid bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	16	Slight Sheet Apparent on Water Surface.	1-3	Silt/Sand

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Construction Material and Structural Condition of the Manhole/Catch Basin	Approximate Depth of Water in Inches	Description of Odor	Approximate Depth of Debris in Inches	Description of Debris
2501	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to	22	No Apparent Sheen Visible on Water Surface.	<1	Silt/Sand
2503	No	Could Not Access	NA	NA	NA	NA
2504	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	8	Slight Sheen Apparent on Water Surface.	1	Silt/Sand
2505	No	Unknown Construction.	0	Not Applicable.	<1	Silt/Sand
2506	No	Concrete sidewalls. Unknown Construction for bottom. Sidewalls appear to be in good condition based on visual inspection.	<1	No Apparent Sheen Visible on Water Surface.	<1	Silt/Sand
2601	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	30	No Apparent Sheen Visible on Water Surface.	<1	Sand/Silt

Table 9
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Subsurface Structure Inspection Summary

Manhole/Catch Basin Identification	Sample Collected	Description of Material and Structural Condition of the Manhole/Catch Basin	Approximate Water Depth (inches)	Description of Water	Approximate Depth of Debris (inches)	Description of Debris
2602	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection.	0	Not Applicable.	<1	Sand/Silt
2604	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection.	0	Not Applicable.	<1	Silt/Sand
2702	No	Concrete sidewalls. Concrete based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	30	No Apparent Sheen Visible on Water Surface.	<1	Silt/Sand
2703	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing.	28	No Apparent Sheen Visible on Water Surface.	<1	Silt/Sand
2704	No	Concrete sidewalls. Concrete bottom based on probing. Sidewalls and bottom appear to be in good condition based on visual inspection and probing	16	No Apparent Sheen Visible on Water Surface.	1	Silt/Sand

Table 10

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Debris Analytical Results for Total PCBs (ppm)

Sample ID	Total PCB Concentration
M-5	1.6 D
M-21	44 D
M-75	0.14 D
S-2	3.7 D
S-3	2.2 D
DUP-4 (S-3)	2.3 D

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York using USEPA SW-846 Method 8082 as referenced in New York State Department of Environmental (NYSDEC) 1995 Analytical Services Protocol (ASP).
3. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
4. Sample designations indicate the following:
   M = Debris sample collected from an electrical manhole
   S = Debris sample collected from a storm/sanitary sewer manhole
   DUP = Duplicate sample
5. < = Each Aroclor was not detected above the presented concentration.
6. D = Constituent concentration based on a diluted sample analysis.
7. Analytical results have not been validated.

Table 11

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Debris Analytical Results for Detected VOCs and SVOCs (ppm)

Compound	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VOCs						
Acetone	0.2	0.29	<0.015	0.11	<0.013	0.015
Carbon disulfide	0.002 J	0.003 J	<0.004	0.005 J	0.001 J	0.003 J
1,1-Dichloroethane	<0.005	0.002 J	<0.004	<0.020	<0.003	<0.003
2-Butanone	0.036	<0.022	<0.015	<0.078	<0.013	<0.013
1,1,1-Trichloroethane	<0.005	0.004 J	<0.004	<0.020	<0.003	<0.003
Benzene	<0.005	0.001 J	<0.004	<0.020	<0.003	0.0007 J
Trichloroethene	<0.005	0.007	<0.004	<0.020	<0.003	<0.003
Toluene	<0.005	0.001 J	<0.004	0.051	<0.003	0.001 J
Tetrachloroethene	<0.005	0.012	<0.004	<0.020	<0.003	<0.003
Chlorobenzene	<0.005	<0.006	<0.004	1.2	<0.003	<0.003
Xylene (total)	<0.005	<0.006	<0.004	0.46	<0.003	0.0009 J
Isopropylbenzene	<0.005	<0.006	<0.004	0.41	<0.003	<0.003
n-Propylbenzene	<0.005	<0.006	<0.004	0.8	<0.003	<0.003
1,3,5-Trimethylbenzene	<0.005	<0.006	<0.004	1.2	<0.003	<0.003
n-Butylbenzene	<0.005	<0.006	<0.004	2.5	<0.003	<0.003
1,2,4-Trimethylbenzene	0.012	<0.006	<0.004	20.0 D	<0.003	<0.003
sec-butylbenzene	0.002 J	<0.006	<0.004	2.4	<0.003	<0.003
1,3-Dichlorobenzene	0.005 J	<0.006	<0.004	23.0 D	<0.003	<0.003
1,4-Dichlorobenzene	0.013	<0.006	<0.004	50.0 D	<0.003	<0.003
p-Isopropyltoluene	<0.005	<0.006	<0.004	2.2	<0.003	<0.003
1,2-Dichlorobenzene	0.004 J	<0.006	<0.004	9.7 D	<0.003	<0.003
Total TICs	0.647 J	0.917 J	0.207 J	1,132 J	0.136 J	0.349 J
SVOCs						
1,4-Dichlorobenzene	0.43 J	0.38 J	<5.1	140 D	0.086 J	0.31 J
1,2-Dichlorobenzene	<1.3	<3.6	<5.1	36	<0.43	<0.4
Benzyl alcohol	<1.3	<3.6	<5.1	<4.6	<0.43	0.049 J
N-Nitroso-di-n-propylamine	<1.3	<3.6	<5.1	77 D	<0.43	<0.40
1,2,4-Trichlorobenzene	0.71 J	0.67 J	<5.1	70 D	0.098 J	0.32 J
Naphthalene	0.72 J	0.45 J	<5.1	4.2 J	0.074 J	0.27 J
Hexachlorobutadiene	<1.3	<3.6	<5.1	0.94 J	<0.43	<0.40
2-Methynaphthalene	0.34 J	<3.6	<5.1	3.3 J	0.074 J	0.23 J
2,4,5-Trichlorophenol	<1.3	<3.6	<5.1	5.7 JD	<0.43	<040
Acenaphthylene	0.74 J	2.3 J	<5.1	0.9 J	0.090 J	0.26 J
Acenaphthene	0.86 J	0.49 J	<5.1	1.8 J	<0.43	0.10 J
Dibenzofuran	0.83 J	<3.6	<5.1	2.8 J	0.070 J	0.19 J
Fluorene	1.1 J	<3.6	<5.1	1.6 J	0.11 J	0.28 J
Hexachlorobenzene	<1.3	<3.6	<5.1	9.3	<0.43	<0.40
Phenanthrene	12.0	22.0	8.7	13.0	0.7	2.2
Anthracene	2.6	3.2 J	2.3 J	2.9 J	0.13 J	0.43
Di-n-butylphthalate	<1.3	<3.6	<5.1	<4.6	0.24 JB	0.25 JB
Fluoranthene	14	48	20	4.7	1.1	4.2
SVOCs (cont'd)						
Pyrene	20	45 JD	14	16	1.6	5.0 D
Benzo(a)anthracene	5.4	36	9.9	3.7 J	0.5	1.8

Table 11

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Debris Analytical Results for Detected VOCs and SVOCs (ppm)

Constituent	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chrysene	6.3	42	11	5.8	0.82	2.8
bis(2-Ethylhexyl)phthalate	<1.3	15	2.4 J	7.6	0.19 J	0.33 J
Di-n-octylphthalate	<1.3	<3.6	0.51 J	<4.6	<0.43	<0.40
Benzo(b)fluoranthene	5.5	37	9.8	<4.6	0.69	3
Benzo(k)fluoranthene	5.6	25	12	<4.6	0.65	2
Benzo(a)pyrene	5.4	25	10	<4.6	0.48	1.9
Indeno(1,2,3-cd)pyrene	2.6	13	4.0 J	<4.6	0.25 J	1.2
Dibenzo(a,h)anthracene	<1.3	2.7 J	0.94 J	<4.6	<0.43	<0.40
Benzo(g,h,i)perylene	2.3	13	3.6 J	<4.6	0.17 J	1
Total TICs	37.86 J	64.6 J	11.5 JD	955 J	3.95 J	5.68 J

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
   Samples analyzed for VOCs by O'Brien & Gere Laboratories, Inc. (OBG) of Syracuse, New York using
2. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
3. Sample designations indicate the following:
   M = Debris sample collected from an electrical manhole
   S = Debris sample collected from a storm/sanitary sewer manhole
   DUP = Duplicate sample
4. Laboratory analysis results presented for VOCs in debris samples M-75 and S-3 are from re-extraction
5. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
6. B = Compound was identified in the sample as well as its associated blank.
7. D = Constituent concentration based on a diluted sample analysis.
8. J = Indicates an estimated value.
9. TIC = Tentatively identified compound.
10. Analytical results have not been validated.

Table 12

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Subsurface Structure Investigation
Debris Analytical Results for TAL Inorganic Constituents (ppm)

Constituent	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Aluminum	6,090	4,580	6,630	1,950	2,810	2,290
Antimony	3.8 B	5.0 B	120	<0.69	0.83 B	<0.62
Arsenic	21.4	76.5	35.4	6.6	6.4	6.6
Barium	224.0	497	907	11,400	63	61.5
Beryllium	0.70 B	0.56 B	0.64 B	<0.28	<0.25	<0.25
Cadmium	4.6	11.7	41.4	0.85	1.1	1.2
Calcium	88,000	88,400	54,900	124,000	149,000	142,000
Chromium	166	252	264	48.5	92.8	115
Cobalt	87.9	60.1	41.1	5.8	16.8	19.2
Copper	355	1,860	6,490	46	65.2	61.9
Iron	30,700	112,000	189,000	15,900	7,170	7,530
Lead	3,120	3,920	13,200	181	553	711
Magnesium	20,000	16,600	9,200	41,700	78,400	73,900
Manganese	986	2,210	3,510	825	772	747
Mercury	11.9	1.3	0.93	0.7	1.1	1
Nickel	115	166	235	26.6	28.4	25.7
Potassium	1,030 B	630 B	690 B	384 B	534 B	539 B
Selenium	2.4	3.9	0.54 B	0.69	1.2	0.88
Silver	0.85 B	2.0 B	6.7	<0.28	<0.25	<0.25
Sodium	312 B	720 B	1,010	246 B	292	279 B
Thallium	<1.2	<1.4	<3.7	<0.83	<0.76	<0.75
Vanadium	90.2	176	227	16.8	15.9	18.6
Zinc	952	4,760	9,960	176	243	274
Cyanide	<0.94	<1.1	<0.70	<0.62	<0.54	<0.57

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. TAL = Target Analyte List.
3. Samples analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York using USEPA SW-846 Method 6010 with the following exceptions:
   - Mercury was analyzed using Method 7470/7471; and
   - Cyanide was analyzed using Method 9010.
4. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
5. Sample designations indicate the following:
   M = Debris sample collected from an electrical manhole
   S = Debris sample collected from a storm/sanitary sewer manhole
   DUP = Duplicate sample
6. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
7. B = Indicates a value which is greater than or equal to the instrument detection limit, but less than the contract required detection limit.
8. Analytical results have not been validated.

Table 13

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Ground-Water Investigation
LNAPL Analytical Results

Constituent	MW-[illegible]
PCBs	
Total PCBs	37 D
Detected VOCs	
Methylene chloride	150 J
n-Propylbenzene	110
1,3,5-Trimethylbenzene	140
n-Butylbenzene	250
1,2,4-Trimethylbenzene	240
sec-butylbenzene	270
Total TICs	32,880 J
Detected SVOCs	
1,2,4-Trichlorobenzene	440
Fluorene	22 J
Phenanthrene	59 J
Bis(2-ethylhexyl)phthalate	42 J
Total TICs	30,880 J

NOTES:

1. Sample collected by Blasland, Bouck & Lee, Inc. (BBL) during July 1999.
2. LNAPL = Light non-aqueous phase liquid.
3. Sample analyzed by Galson Laboratories, Inc. (Galson) of East Syracuse, New York for PCBs using USEPA SW-846 Method 8082 and for SVOCs using USEPA SW-846 Method 8270.
4. Sample analyzed by O'Brien & Gere Laboratories, Inc. (OBG) of Syracuse, New York for TCL VOCs using USEPA SW-846 Method 8260.
5. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
6. Sample designation indicates the following:
   MW = Monitoring well (LNAPL sample)
7. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
8. D = Constituent concentration based on a diluted sample analysis.
9. J = Indicates an estimated value.
10. TIC = Tentatively identified compound.
11. Analytical results have not been validated.

Table 14

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Ground-Water Investigation
Ground-Water Analytical Results for Total PCBs (ppb)

Sample ID	Total PCB Concentration
MW-1	<0.48
MW-2	<0.50
MW-4	<0.48
MW-5	<0.48
DUP-2 (MW-5)	<0.48

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during August 1999.
2. Samples analyzed using USEPA SW-846 Method 8082 as referenced in NYSDEC 1995 ASP.
3. Concentrations reported in parts per billion (ppb) or micrograms per kilogram (µg/kg).
4. Sample designations indicate the following:
   MW = Monitoring well (Ground-water sample)
   DUP = Duplicate sample
5. < = Each Aroclor was not detected above the presented concentration.
6. Analytical results have not been validated.

Table 15

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Ground-Water Investigation
Ground Water Analytical Results for Detected VOCs and SVOCs (ppb)

Constituent	NYSDEC Groundwater Standard/Guidance Value	MW-1	MW-2	MW-3	MW-5	DUP-1 (MW-5)
VOCs						
Vinyl Chloride	2	<1.0	[redacted]	<1.0	[redacted]	[redacted]
1,1-Dichloroethene	5	<1.0	3	<1.0	<1.0	<1.0
Acetone	50	<5.0	10	<1.0	<5.0	<5.0
cis-1,2-Dichloroethene	5	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
trans-1,2-Dichloroethene	5	<1.0	2	1	<1.0	<1.0
Benzene	1	<1.0	[redacted]	<1.0	<1.0	<1.0
Trichloroethene	5	[redacted]	1	[redacted]	[redacted]	[redacted]
Toluene	5	<1.0	2	<1.0	<1.0	<1.0
Tetrachloroethene	5	3	<1.0	3	2	2
Chlorobenzene	5	<1.0	[redacted]	<1.0	<1.0	1
Xylenes (Total)	5	<2.0	1 J	<1.0	<2.0	<2.0
1,3-Dichlorobenzene	3	<1.0	[redacted]	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	3	<1.0	[redacted]	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	3	<1.0	[redacted]	<1.0	<1.0	<1.0
Total TICs	NA	--	43 J	--	--	--
SVOCs						
1,3-Dichlorobenzene	3	<1.0	[redacted]	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	3	<1.0	[redacted]	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	3	<1.0	[redacted]	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	5	<1.0	3 J	<1.0	<1.0	<1.0
Bis(2-ethylhexyl)phthalate	5	<1.0	<1.0	1 J	<1.0	<1.0
Total TICs	NA	8 J	48 J	-	55 J	21 J

Table 15

Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York

PSA Ground-Water Investigation
Ground Water Analytical Results for Detected VOCs and SVOCs (ppb)

NOTES:

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during August 1999.
2. Samples analyzed for VOCs using USEPA SW-846 Method 8260 and for SVOCs using USEPA SW-846 Method 8270.
3. Concentrations reported in parts per billion (ppb) or micrograms per kilogram (µg/kg).
4. Sample designations indicate the following:
   MW = Monitoring well (Ground-water sample)
   DUP = Duplicate sample
5. < = Constituent was not detected at a concentration exceeding the listed value.
6. D = Constituent concentration based on a diluted sample analysis.
7. J = Indicates an estimated value.
8. Ground-Water Standards/Guidance Values for Class GA water presented in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) document entitled "Ambient Water Quality Standards and Guidance Values and Ground-Water Effluent Limitations", dated June 1998.
9. Shaded values indicate constituent was detected at concentration exceeding the TOGS 1.1.1 standard/guidance value.
10. TIC = Tentatively identified compounds.
11. - = Indicates no TICs detected.
12. Analytical results have not been validated.

Table 16
Niagara Mohawk Power Corporation
Harper Substation
Niagara Falls, New York
PSA Ground-Water Investigation
Ground-Water Analytical Results for TAL Inorganic Constituents (ppb)

Compound	Ground-Water Standards/Guidance Values	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] (DUP-01)
Aluminum	100	31.9 B	138	29,400	57.4 B	66.1 B
Antimony	3	<4.0	<4.0	<4.0	<4.0	4.9 B
Arsenic	25	<4.0	<4.0	5.5 B	<4.0	<4.0
Barium	1,000	27.2 B	19.7 B	253	34.2 B	34.0 B
Beryllium	3*	<2.0	<2.0	2.3 B	<2.0	<2.0
Cadmium	5	<1.0	<1.0	<1.0	<1.0	<1.0
Calcium	NA	55,500	53,700	264,000	61,800	62,300
Chromium	50	<2.0	10.5	40.4	<2.0	<2.0
Cobalt	5	<1.0	<1.0	21.7 B	<1.0	<1.0
Copper	200	<2.0	<2.0	47.6	<2.0	<2.0
Iron	300	<20.0	202	48,500	<20.0	<20.0
Lead	25	3.6	3.2	62.6	<2.0	<2.0
Magnesium	35,000*	10,100	35,300	94,200	8,640	9,060
Manganese	300	<2.0	17.2	1,490	<2.0	<2.0
Mercury	0.7	<0.10	<0.10	<0.10	<0.1	<0.1
Nickel	100	<3.0	<3.0	48.2	<3.0	<3.0
Potassium	NA	1,930 B	4,700 B	10,100	2,240 B	2,620 B
Selenium	10	<4.0	<4.0	<4.0	<4.0	<4.0
Silver	50	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	20,000	10,900	31,900	12,400	10,200	10,400
Thallium	0.5*	<4.0	<4.0	<4.0	<4.0	<4.0
Vanadium	14	<2.0	<2.0	56.6	<2.0	<2.0
Zinc	2,000*	199	5.0 B	322	32.9	33.8
Cyanide	200	<10	<10	<10	<10	<10

NOTES

1. Samples collected by Blasland, Bouck & Lee, Inc. (BBL) during August 1999.
2. TAL = Target Analyte List.
3. Samples analyzed by Galson Laboratories, Inc. of East Syracuse, New York using USEPA SW-846 Method 6010 with the following exceptions:
   - Mercury was analyzed using Method 7470/7471; and
   - Cyanide was analyzed using Method 335.2 by O'Brien & Gere Laboratories, Inc. (OBG) of Syracuse, New York.
4. Concentrations reported in parts per billion (ppb) or micrograms per kilogram (µg/kg).
5. Sample designations indicate the following:
   MW = Monitoring well (Ground-water sample)
   DUP = Duplicate sample
6. < = Constituent was not detected at a concentration exceeding the laboratory detection limit.
7. B = Indicates a value which is greater than or equal to the instrument detection limit, but less than the contract required detection limit.
8. Ground-Water Standards/Guidance Values presented in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) document entitled "Ambient Water Quality Standards and Guidance Values and Ground-Water Effluent Limitations", dated June 1998. Class GA standards/guidance values are reported where available (standards/guidance values for other water classes are reported where no GA standards/guidance values are available).
9. NA = Not available.
10. * = Indicates a NYSDEC ambient water guidance value.
11. Analytical results have not been validated.

Appendix B – Daily Field Reports

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Daily Field Report

Date/Day: Monday, October 21, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Partly Sunny
Temperature: 50 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck

Work Completed:

0750 Niagara Mohawk, Arlauckas, and Op-Tech on site
0830 Op-Tech transporter dropped off the track excavator, Op-Tech builds the containment pad for the underground storage tank (UST).
0900 Arlauckas calls Glen May (DEC); He and Paul Kultina will be on site about 1100.
0915 Op-Tech finish building the containment pad. Arlauckas stated that other activities must be done: decon pad and an containment pad for the excavated soil.
0915-0945 Op-Tech on break.
0950-1000 Op-Tech builds a 24' by 16' by 5.5" decon pad lined with polyethylene plastic.
Op-Tech has not yet provided potable water for decon and other use.
Niagara Mohawk is waiting for Paul Stefano before begin to work (clean concrete slab).
1010-1050 Frank Grabowski (Niagara Mohawk) on site, Arlauckas, and Stefano walk the site and locate the areas of concern.
1050 Op-Tech started to excavate for the UST - Grabowski gave the go ahead.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Monday, October 21, 2002

1110 Op-Tech exposed the top of the UST, vent piping and fill line.
Hageman (Op-Tech) stated the tank was approximately 8.0-feet diameter and has approximately 40" liquid (product) in it. Linda Scott (Op-Tech) is bring out a chloro/oil test kit to sample the product
1125-1140 Arlauckas spoke to John Brussel (BBL-Syracuse); John stated to check for a phase layer, ask Grabowski if he wants to run a full analytical sweep on the liquid, transfer the liquid to another container, or leave the liquid in the UST until the analytical data comes back.
1200 Scott (Op-Tech) on site with the test kit, Hageman stated that the tank contained pure product (he placed a stick into the tank) - Arlauckas explained that a polyethylene bailer is a more appropriate method of checking for LNAPL and DNAPL.
1215 Hageman used a polyethylene bailer to check the product...there is a thin layer of a yellowish product on the surface of the liquid...mostly water is in the tank. Arlauckas calls Brussel; Brussel stated to have Op-Tech pump out the liquid in a Baker Tank and continue to dig...place all the excavated soil on plastic.
1230-1315 Lunch
1315-1410 Hageman off site
1320-1400 Op-Tech laid out a larger area to stage the soil from the UST.
Op-Tech is wondering what the 4-inch diameter steel pipe that is crossing over the top of the UST, Arlauckas suggests that it may be the fill pipe...Hageman calls Dig Safe and reviews the stake out.
1405 Arlauckas uncovers the 4-inch diameter steel pipe and discovers that in fact it is the fill tube. The fill line enters the east side of the UST.
1410 Op-Tech cuts the 4-inch diameter steel pipe on the west side of the tank, Arlauckas asked if they are going to fill the end of the pipe with a non-shrinking grout...no comment from Hageman. The 2000 Scope of Work stated to use non-shrinking grout, the 2002 Scope of Work stated to pull the piping.
1515 Niagara Mohawk crew cleans up, Op-Tech lays out 50 feet of polyethylene to place the soil on during the UST removal.
1520 Op-Tech off site
1530 Arlauckas and Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Tuesday, October 22, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Light Rain
Temperature: 45 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
David Roberts

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0715 Niagara Mohawk and Arlauckas on site
0750 Op-Tech on site with a Vac Truck
0800 Crew began to pump liquid out of the UST.
0900 Op-Tech cut the manhole cover bolts off the UST using a gas powered cut-off saw, removed the 14-inch diameter steel lid off, and removed the 4-inch diameter fill pipe.
0915 Baker Tanks dropped off a 6,800 gallon polyethylene storage tank.
0930 Op-Tech off loads the liquid into the storage tank.
Hageman fills out the excavation log for Niagara Mohawk.
1000 Op-Tech begins to excavate next to the UST on the north side towards the building.
Readings: bucket-69.9 ppm, air=8.9 ppm and decreasing.
1030 Arlauckas calls Brussel - separate the soil from yesterday, make sure that it is covered and bermed.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Tuesday, October 22, 2002

1045-1150 Hageman off site
1050 Paul Stefano (Niagara Mohawk) on site - Arlauckas and Stefano discuss the UST removal.
1215 UST is half out of the excavation
1225-1300 Lunch
1310 UST was lifted out of the excavation and placed on 2 layers of polyethylene sheeting, 55-gallon steel drums were placed around the UST and the plastic sheeting was placed over the drums creating a bermed area - plastic sheeting was draped over the entire UST.
1320-1400 Paul Kultina (DEC) on site - took pictures, sketched a diagram, took notes.
2 by 6 pieces of wood were removed from the bottom of the excavation
1400 Arlauckas calls Brussel: Arlauckas stated that Hageman and Arlauckas have a disagreement about what is visibly clean and what is not...last bucket of soil was 35.7 ppm.
Hageman wants to take the verification soil sample
Arlauckas inspected the excavation - stained soils are still present, they did not remove soil on the south side of the UST. Arlauckas made it very clear on what needs to be done.
* in the southeast corner of the excavation, a 4 to 6 -inch diameter clay pipe is exposed (broken) Op-Tech will have to investigate the pipe.
Vac truck off site without being deconned.
1500 Scott (Op-Tech) on site, stated the UST will be removed on Friday and the equipment also.
1530 Niagara Mohawk, Arlauckas, and Op-Tech off site

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Wednesday, October 23, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 50 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
David Roberts

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0720 Arlauckas on site
0730 Op-tech on site
No health and safety meeting conducted by Op-Tech today
0800-0830 Hageman and Roberts off site for more lumber and a hardhat.
Hewitt removes more soil from the excavation, Arlauckas asks Hageman if the Vac truck was deconned last night prior to leaving the site. Hageman stated no, but it was washed out at the shop. Arlauckas also stated what is Op-Tech going to do about the 4-6 -inch diameter clay pipe in the southeast corner of the excavation.
The Vac truck is filled with 1,200 to 1,500 gallons of water to be used as decon water. Arlauckas stated no way is that water to be used for decon, the water may be contaminated.
Hageman calls Scott, Scott then called Brussel, and confirmed that the vac truck was cleaned out
1030 Hageman off site to the hospital due to chest pains.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Wednesday, October 23, 2002

1045 Arlauckas samples the soil in the excavation for headspace screening

Location	PID Reading	Oil/Water
bottom	3.5	none
west wall	0.5	none
east wall	0.7	none
north wall	0.6	none
south wall	0.7	none

Op-Tech transfers the water from the Vac truck to a 1,500 gallon polyethylene tank, Arlauckas checks the water as per Brussel - oily sheen on the surface and gasoline odor. Arlauckas rejects the water.
1200 Op-Tech begins to clean out the UST, cut a 2 by 5 foot hole in the west end of the tank.
The outside was scraped clean, exposing many holes near the center line of the tank.
1245 Op-Tech begins to decon the 1,500 gallon polyethylene tank to be used for potable water storage, the 1,500 gallons and the wash water were taken off site by Op-Tech.
1300 Niagara Mohawk finished cleaning the north end of the concrete slab in Excavation Area #1.
1300-1400 Arlauckas collects the verification samples front the UST excavation, VF=verification, T=tank, 1s=location, (N)=side wall (compass).

Location		Time	Date
VF-T-1S (N)		1300	10/23/2002
VF-T-2S(S)	MS/MSD	1315	10/23/2002
VF-T-3S(E)		1330	10/23/2002
VF-T-4S(W)	Field Dup	1345	10/23/2002
VF-T-5S(B)		1400	10/23/2002
VF-T-DUP			10/23/2002

Analyzed for: PCBs - 8082, VOCs - 8260 + 8 supplemental, SVOCs - 8270, and Lead - 6010.
1430 Arlauckas collected a sample of the backfill material

Location	Time	Date
Backfill	14:30	10/23/2002

Analyzed for: PCBs - 8082, VOCs - 8260 + 8 supplemental, SVOCs - 8270, and Lead - 6010. Pesticides - 8081, TAL inorganic constituents including cyanide.
1500 Op-Tech off site
1530 Niagara Mohawk and Arlauckas off site

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Thursday, October 24, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 50 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Keith Oliver

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0715 Arlauckas on site
0740 Op-Tech on site, Arlauckas calibrates the Mini-RAE.
0830 Op-Tech begins to clean out the inside of the UST, Hageman stated it is a non-confined space permit entry, the Niagara Mohawk employees say that it is a confined space entry, Arlauckas calls Greg Ertel (BBL) - left a message.
0835 Water truck on site to fill 1,500 gallon polyethylene tank.
UST size - 8-feet in diameter, 28-feet long, 36-inches of liquid, and 3/16-inch of product.
Volume = $\pi \times r^2 \times h$

$\pi = 3.1415$

$r^2 = 8.0$ ft (D) = 4.0 ft (R) = $4^2 = 16.0$ ft

$h = 28.0$ ft

$V = (3.1415)(16.0)(28.0) = 1{,}407.39$ cu ft.

Convert to gallons

(1,407.39 cu ft.)(7.4805.2 gal/cu ft.) = 10,528.02 gallons

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Thursday, October 24, 2002

Horizontal cylinder fillage

gallons remaining = depth factor x total tank gallons
ratio = h/d, ratio determines the depth factor from the conversion table for liquids in a cylinder.
r = h/d, r=36.0", and d = 96.0"
r = (36.0") / (96.0") = 0.375
conversion table: 0.375 = 0.3486910
gallons remaing = (0.3486910)(10,528 gallons) = 3,671.01 gallons

Excavation volume

V = l x w x h
V = (40 ft) x (16 ft) x (13 ft)
V = 8,320.0 cu ft.
tank volume = 1,407 cu ft.
total excavation volume = (8,320.0 cu ft.) - (1,407.0 cu ft.)

Adjacent excavation area

V = l x w x h
V = (24 ft) x (4 ft) x (2.5 ft)
V = 7,153 cu ft.

Subtract "clean" soil off top

V = l x w x h
V = (28 ft) x (12 ft) x (3 ft)
V = 1,008 cu ft.

only 500 cu ft of clean soil is on poly, the remaining was placed on the waste (hazardous) pile.

Total cubic yards of potential hazardous soil

excavation volume	8,320 cu ft.
adjacent area	+ 240 cu ft.
"clean soil"	- 500 cu ft.
tank volume	-1,407 cu ft.
total	6,653 cu ft.

conversion to cubic yards

(6,653.0 cu ft.) x(0.03704) = 246.42 cu. yds

cubic yards of "clean" soil

(500.0 cu ft) x (0.03704) = 18.52 cu yards

1030-1050 Baker Tanks delivered a 20,000 gallon steel tank (single wall #SL)
1010-1030 Op-Tech on break
Niagara Mohawk begins to excavate west of the concrete slab in Excavation Area # 1 (1.0 ft deep by 6.0 ft wide).
* as Op-Tech washed the inside and outside of the UST, the containment pad was pumped.
Op-Tech lifted the tank, placed two layers of polyethylene sheeting beneath it and wrapped the entire tank with plastic sheeting. Three (3) 55-gallon stell drums of debris was removed from the UST during cleaning.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Thursday, October 24, 2002

1130 Arlauckas collects two wipe samples from the UST

Location	Time	Date
VF-T-INSIDE	1130	10/24/2002
VF-T-OUTSIDE	1140	10/24/2002

Analyzed for PCBs - 8082
Op-Tech took the samples from the inside of the tank.
1200-1245 Op-Tech extended Niagara Mohawk's's soil staging area (containment pad)
1240-1310 Op-Tech off site for lunch
1345 Op-Tech off site for the day.
1400 Arlauckas checks the water in the 1500 gallon polyethylene tank - gasoline odor and sheen on top of the water.
1530 Niagara Mohawk and Arlauckas off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Friday, October 25, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Bob

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0715 Niagara Mohawk and Arlauckas on site.
0730 Op-Tech on site, Arlauckas calibrates the Min-Rae.
Arlauckas spoke to Hageman about the water in the 1500 gallon polyethylene tank, and also about the confined space entry for the UST.
0825 Arlauckas calls Brussel and explains about the water and the confined space entry. Brussel calls Scott (Op-Tech) - the crew will use two (2) 55-gallon poly drums and get water from off site.
0935 Op-Tech begins to clean MH-4. Niagara Mohawk employees voice their concerns about the confined space entry - Op-Tech will adjust to Niagara Mohawk's's request.
1015 Finish cleaning MH-4
1025 Set up on MH-13, possible asbestos in manhole, crew closed MH-13. Arlauckas calls Brussel.
1030 Op-Tech sets up on MH-12.
1030 Hageman off site for water
1030-1050 Op-Tech on break.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Friday, October 25, 2002

1050 Op-Tech continues to clean MH-12, crew stated the ceiling is in bad shape - chunks of ceiling are on the floor. Removed about 800 gallons of water from the manhole prior to cleaning.
There is a hole in the southeast corner of the manhole.
1200-1240 Op-Tech off site
1245 Hageman asked Arlauckas he they can place contaminated material in the bucket of the loader over night, Arlauckas stated no.
Op-Tech starts to clean-up, stating that they cannot continue. Arlauckas calls Scott (Op-Tech) and talks about the "down time" that Hageman talked about, she said that she would consider it.
Arlauckas stated the waste can go into 55-gallon steel drums, Op-Tech continues to work.
Arlauckas also spoke to Scott about a clean tank and potable water supply.
1345 MH-12 complete, large concrete fragments left in manhole (to large to remove).
1350-1415 Op-Tech cleaned up site and secured the staged soil
1430 Op-Tech off site
1500 Niagara Mohawk continues to clean the side walls of the concrete structure (east side)
1530 Niagara Mohawk and Arlauckas off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Monday, October 28, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 40 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Keith Oliver

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0730 Arlauckas and Op-Tech on site, Arlauckas calibrates the Mini-RAE.
Hewitt off site to the shop, the polyethylene sheeting is falling off the UST and the soil pile was uncovered.
0810 Hewitt on site, Op-Tech conducts a Health and Safety meeting.
0820-0830 Baker Tanks drop off two roll-off containers # R3237RT and # R3081
0830 Op-Tech begins to set-up on catch basin S-3, Hageman considers the catch basin a non-confined space - Hewitt will wear a safety harness.
the debris is 46.0 inches from the top of the steel ring.
1030 Baker Tanks drop off another 20,000 gallon steel double-wall tank, and removes the single wall tank. Tank # DW1103 SDL
1100-1145 Op-Tech off site for lunch
1150-1200 Op-Tech sets-up to pressure wash S-3

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Monday, October 28, 2002

1205 Op-Tech begins to pressure wash S-3 - rocks, brick fragments, wood and concrete are removed
Paul Stefano on site
1230 Op-Tech finished S-3
1240 Op-Tech sets up on location S-11, top of debris is 64.5 inches from the manhole cover.
1310-1330 Arlauckas moves equipment and supplies into the west end of the field trailer.
Niagara Mohawk crew continues to clean the west side of the concrete structure.
1335 Mostly sand and fine gravel is removed from S-11
1345 Op-Tech begins to power wash the inside of S-11
1405 Arlauckas inspects S-11 - clean
1415-1430 Op-Tech cleans up the site and replaces the plastic sheeting on the soil piles, and covers the roll-off containers.
1430 Op-Tech off site
Niagara Mohawk continues to work in cleaning the west side of the concrete structure.
1530 Niagara Mohawk and Arlauckas off site

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Tuesday, October 29, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35-40 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
David Roberts

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0730 Niagara Mohawk, Arlauckas, and Op-Tech on site, Arlauckas calibrates the equipment.
0745 Op-Tech refuels the vac truck
Op-Tech will set up on manhole #2504, which is located outside the fence.
Op-Tech pumps water out of the manhole, Hewitt states there's possible 50.0 feet of asbestos in the manhole.
0915 Arlauckas calls Brussel, Arlauckas states that 80% is on the wire and 20% is on the floor.
0920 Op-Tech begins to set up on manhole #1702, pump out water
1000 Op-Tech finished cleaning manhole #1702 - good condition
1005-1040 Op-Tech removes water and cleans manhole # 1900.
1045-1055 Op-Tech empties the water from the vac truck into the 20,000 gallon Baker Tank.
1105-1120 Op-Tech off site

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Tuesday, October 29, 2002

1135 Op-Tech begins to clean manhole #1903
1240 Op-Tech finishes cleaning manhole #1903 - looks good, Hageman looks for manholes #1701 and #1805.
1240-1300 Op-Tech cleans up near manhole #1903 and moves equipment to S-2
1310 Op-Tech begins to pump out water in S-2, Kevin Glaser (DEC) on site
1310 Niagara Mohawk begins to excavate TSCA soil, and place it on polyethylene sheeting in containment area.
1330-1345 Op-Tech transfers water from the vac truck to the 20,000 gallon Baker Tank.
Crew removed about 3,000 gallons of water from S-2.
Hageman stated that they are going to clean up for the night and regroup in the morning, possibly send a person down the manhole and plug the line.
1400 Op-Tech still looking for manholes #1701 and #1805
1415 Op-Tech off site
1530 Niagara Mohawk and Arlauckas off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Wednesday, October 30, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
David Roberts

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss
Kenny James

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0715 Arlauckas and Op-Tech on site
0720-0740 Arlauckas off site to Home Depot for supplies.
0740 Op-Tech located manhole #1701 and #1805 outside the fence.
0745 Op-Tech pumped a total of approximately 800 gallons of water from the manholes.
0830 Op-Tech finished cleaning both manholes, no debris was found in either of the manholes.
0840-0900 Op-Tech relocates on H-15 location
There is no visible oil layer on H-15
Arlauckas calls Brussel. Brussel stated to draft off the top layer of water and place it in 55-gallon steel drums, and pump the rest into the 20,000 gallon Baker Tank
0950-1005 Op-Tech off loads the vac truck into the 20,000 gallon Baker Tank.
0955-1030 Hageman off site for supplies at Home Depot.
1010 Arlauckas samples the water from H-15.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Wednesday, October 30, 2002

Location	Time	Date
H-15	1010	10/30/2002

Analyze: PCBs - 8082
The drum was labeled and set aside for TSCA removal.
1030-1040 Op-Tech off loaded the vac truck
1040-1105 Op-Tech on break
1105-1155 Op-Tech pressure washed H-15 and removed debris from the bottom of the manhole.
1200-1125 Op-Tech on lunch
1235 Arlauckas inspects H-15 - clean. Looks good
Op-Tech will clean up area and extend the soil containment areas
1245-1310 Arlauckas and Hageman look over S-2 manhole.
Approximately 3.0 feet of water is in the manhole, strong flow, the steel ladder does not exist anymore (rusted), and the diameter of the manhole is too small to place a ladder down and enter.
1320 Arlauckas calls Brussel, Brussel stated that the hole is done
Arlauckas poked the bottom with a long stick, hard , not much sediment (~20 %)
1325-1350 Arlauckas and Op-Tech evaluated the Subways 2-7.
1350-1425 Crew closed up site.
1430 Op-Tech off site
Niagara Mohawk continues to clean concrete structure.
1530 Niagara Mohawk and Arlauckas off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Thursday, October 31, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt

Niagara Mohawk, a National Grid Company
Ed
Gary Hotchkiss

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0715 Niagara Mohawk, Arlauckas, and Op-Tech on site.
Arlauckas calibrates the equipment.
0800 Op-Tech sets-up on manhole #2504 to remove the asbestos material in the manhole.
Op-Tech will remove the asbestos and clean the manhole.
1000 Arlauckas collects samples from the liquid from the UST.

Sample I.D.	Time	Date
USTLIQUID	1000	10/31/2002

Analysis: PCBs - 8082, TCLP VOCs - 8260/1311 + 8 supplemental, TCLP SVOCs - 8270/1311
TCLP Metals - 6010/7470/1311, ignitability, corrosivity, reactivity.
1115 Arlauckas calls Brussel, asks about sampling the TSCA soil pile and the UST stockpile. Brussel stated yes, and since it was TCLP it has a 3-day turn around time.
Soil excavated in the vicinity of S-10 location

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Thursday, October 31, 2002

Sample I.D.	Time	Date
TSCASOIL	1130	10/31/2002

Analysis: PCBs - 8082, TCLP VOCs - 8260/1311 + 8 supplemental, TCLP SVOCs - 8270/1311
TCLP Metals - 6010/7470/1311, ignitability, corrosivity, reactivity.

Sample I.D.	Time	Date
USTSOIL	1300	10/31/2002

Analysis: PCBs - 8082, TCLP VOCs - 8260/1311 + 8 supplemental, TCLP SVOCs - 8270/1311
TCLP Metals - 6010/7470/1311, ignitability, corrosivity, reactivity.

1115 Op-Tech finished #2504 manhole
1115-1150 observed air in and around manhole #2504 with air monitoring equipment.
1205-1310 Op-Tech removed the asbestos and cleaned H-13 manhole.
1315 Arlauckas inspects manhole H-13, clean.
1315-1330 Op-Tech cleans up site
1330 Op-Tech off site
1530 Niagara Mohawk and Arlauckas off site (Arlauckas off to lab).

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Friday, November 01, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Dan Landers
Jessica Landroche

Niagara Mohawk, a National Grid Company
Gary Hotchkiss

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site.
0715 Op-Tech on site
0725 Arlauckas on site, Arlauckas calibrated equipment.
0800 Op-Tech sets up to clean Subway #5, entering M-58 work towards M-63.
1000-1020 Hageman off site, crew continues to clean.
1120 Arlauckas inspects Subway #5 near M-63, Arlauckas stated the trough on the east side must be cleaned more.
1125-1200 Op-Tech on water run.
1205-1125 Op-Tech on lunch.
1230 Op-Tech continues to clean Subway #5.
1300 Snow falling.
1300 Dan Landers off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Friday, November 01, 2002

1150-1235 Second Niagara Mohawk crew on site to go over what is going to happen next week.
1230 Op-Tech continues to clean Subway #5 near M-53 to M-48
1430 Op-Tech off site.
1530 Niagara Mohawk and Arlauckas off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Monday, November 04, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Rain
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Dan Landers
Pat Falls
Jessica Landroche

Niagara Mohawk, a National Grid Company
Mike Renee
Joe Melin

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck

Work Completed:

0700 Niagara Mohawk on site
0715 Op-Tech on site.
0730 Arlauckas on site, calibrates equipment
0740 Op-Tech box truck on site.
0750 Arlauckas spoke to Hageman - UST tank will be removed, backfill (start) the excavation.
0800 Arlauckas runs the following field screen testing for PCBs.
Op-Tech removed water from the bottom of the UST excavation.
0905 1st 18 wheeler dump truck on site,
Op-Tech placed geotextile fabric in the excavation - will fold the fabric into the center of the excavation at approximately 1.0 foot below grade.
1030-1100 Op-Tech on lunch.
1200 Arlauckas calls Candice Fox (Severn Trent Laboratories), and let her know about a sample drop off for today, and a change in the sample I.D.s' as per Brussel.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Monday, November 04, 2002

Change: USTLIQUID - WW-1, USTSOIL - WC-1, TSCASOIL - WC-2.

Truck #	Time
1	905
2	950
3	1010
4	1020
5	1030
6	1105
7	1105
8	1105
9	1150
10	1155
11	1200
12	1230
13	1230
14	1230
15	1330
16	1330
17	1330
18	1345

Op-Tech continues to clean Subway #5, pressure wash from south of M-63 to north of M-48.
1240-1300 Paul Stephano on site, wants Op-Tech to have cones around any opened manhole.
1400 UST excavation is filled in - all remaining pipe is removed.
Soil samples to be analyzed from Area #1.
All samples are from east of concrete structure.

Sample I.D		Time	Date
VF-A1-S11		900	11/4/2002
VF-A1-S7		915	11/4/2002
VF-A1-S8		930	11/4/2002
VF-A1-S9		945	11/4/2002
VF-A1-S10		1000	11/4/2002
VF-A1-B4	MS/MSD	1015	11/4/2002
FD110402 (VF-A1-S11)			11/4/2002

Analyzed for: PCBs - 8082, SVOCs - 8270, Lead - 6010.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Tuesday, November 05, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 40 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Jessica Landroche
Dan Landers
Pat Falls

Niagara Mohawk, a National Grid Company
Mike Renee
Joe Melin

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0715 Arlauckas and Op-Tech on site
0730 Arlauckas calibrates equipment
0745 Arlauckas off site to purchase supplies.
0810 Arlauckas on site, Op-Tech continues to clean Subway #5.
0900 Op-Tech finishes Subway #5.
0910 Op-Tech sets up on Subway #4, will clean from M-31 south to M-37.
1100-1130 Op-Tech on lunch.
1215 Arlauckas talks with Brussel about the cleaning process and generating waste water and cleaning the walls, ceiling and floors. Arlauckas spoke to Hageman and stated (as per Brussel) 1- shovel the floor, 2- wash the small debris to the vac truck hose, 3- final rinse, any oil will be cleaned with mighty might T100 - and waste water generated per day is 300 to 400 gallons.
1230 Op-Tech continues to clean Subway #4.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Tuesday, November 05, 2002

Soil samples to be analyzed from Area #1.
All samples are from east of concrete structure.

Sample I.D	Time	Date
VF-A1-B5	1000	11/5/2002
VF-A1-B6	1015	11/5/2002
VF-A1-B7	1030	11/5/2002

Analyzed for: PCBs - 8082, SVOCs - 8270, Lead - 6010.
1245 Kevin Cannon (Op-Tech) on site, he will be here tomorrow.
1430 Arlauckas off site to Severn Trent Laboratories.
1500 Op-Tech off site.
1530 Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Wednesday, November 06, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Kevin Cannon
Deke Hewitt
Jessica Landroche
Dan Landers
Pat Falls

Niagara Mohawk, a National Grid Company
Joe Melin

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0730 Arlauckas and Op-Tech on site
0810 Hewitt and Landroche on site with water.
0815 Op-Tech Health and Safety meeting, Arlauckas calibrates equipment.
0840 Op-Tech continues to clean Subway #4.
1030 Op-Tech crew Hewitt and Landroche continue to clean Subway #4 M-40 south to M-46.
Falls and Landers begin to remove debris from Subway #2 M1 south to M-5.
1035-1040 Op-Tech re-fuels the Vac truck via the back of the pick-up truck.
1045-1120 Op-Tech lunch.
1130 Op-Tech continues to clean Subway #4 and #2.
1230 Cannon talks to Arlauckas about the access near M-17, M-21, and the middle of Subway # 3 - Arlauckas stated not to go in there. 1 - for safety issues due to the removal of the soil 1 to 1.5 feet of soil removal. 2- the possibility of removing the debris from the Subway could come into contact with the clean soil.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Wednesday, November 06, 2002

1315 Landers and Falls finished removing debris from Subway #2, and located to Subway #3 starting at manhole M-6 working towards M-16
1345 Drum count
4 - 55 gallon steel drums labeled Harper tank sludge
1 - oil from Harper station truck wash 10/23/02
1 - PPE
1 - trash
1 - PPE from H-15
1 - liquid from H-15
1350 Arlauckas asked Hewitt if he noticed any stained areas in the Subways - Arlauckas stated to look for sheens after the pressure washer passes the area - possibly an area near M-29, Arlauckas stated he should use the Mighty Mite T-100 on it, also measure the area.
1430 Falls and Landers begin to clean up
1435 Light rain falling
1445 Rain stopped
1500 Subway #4 is cleaned to M-46
1510 Op-Tech off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Thursday, November 07, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Clear
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Pat Falls
Jessica Landroche
Mike Canute

Niagara Mohawk, a National Grid Company
Mike Rende
Joe Melin

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site.
0715 Op-Tech on site
0730 Arlauckas on site.
0800 Hewitt and Landroche on site with potable water (400 gallons)
0815 Hewitt and Landroche off site, Landroche is sick, Hewitt off to court for tickets.
Op-Tech is setting to finish Subway #4 near M-46.
0900 Niagara Mohawk begins to remove soil at Excavation Area #3 (10.0' by 10.0' by 1.0'), Arlauckas spoke with Scott (Op-Tech) about paper work for Mike Canute.
Two sections of transit pipe approximately 3.0 feet long are located near M-9 (Subway #3).
1000 Roberts (Op-Tech) on site will clean and remove debris from M-25 south to M-30.
1030 Niagara Mohawk finishes soil removal at Excavation Area #3.
Arlauckas collects samples for the PCBs using the Ensys kit.
1045-1100 Op-Tech empties the vac truck into the 20,000 gallon Baker Tank.
1100-1130 Op-Tech lunch.
1140 Hewitt on site, Op-Tech continues to clean Subway #3 from manhole M-28 north to M-21.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Thursday, November 07, 2002

Soil samples to be analyzed from Excavation Area #3.
All samples are from east of concrete structure.

Sample I.D	Time	Date
VF-A3-S1	1200	11/7/2002
VF-A3-S2	1215	11/7/2002
VF-A3-S3	1230	11/7/2002
VF-A3-S4	1245	11/7/2002
VF-A3-B1	1300	11/7/2002

Analyzed for: PCBs - 8082, SVOCs - 8270, Lead - 6010.
1230 Op-Tech continues to clean the south end of Subway #3.
1500 Op-Tech off site.
1530 Niagara Mohawk and Arlauckas off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Friday, November 08, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Clear
Temperature: 50 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Dave Roberts
Deke Hewitt
Pat Falls
Jessica Landroche

Niagara Mohawk, a National Grid Company
Mike Rende

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0730 Op-Tech Health and Safety meeting.
0730 Arlauckas calibrates the equipment
0745 Possible asbestos pipe, but cannot find it - Op-Tech will begin to clean, if they find it, they will will remove it.
0800 Op-Tech on site to remove the UST liquid from the 6,500 gallon polyethylene tank.
0850 Op-Tech transports 4,700 gallons of liquid to Industrial Oil for disposal/treatment.
0900-0930 Remove potential asbestos pipe from M-9.
0945 Continue to clean Subway #2.
1100-1130 Lunch.
1135 Continue to clean Subway #2 and the north end of Subway #3.
1515 Op-Tech off site
1530 Arlauckas and Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Tuesday, November 12, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 40 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Pat Falls
Dan Landers
Jessica Landroche

Niagara Mohawk, a National Grid Company
Mike Rende
Joe Melin

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0715 Arlauckas and Op-Tech on site
0730 Arlauckas calibrates the Mini-RAE.
0800 Op-Tech crew on site with water.
Arlauckas checks the 20,000 gallon Baker Tank - it is full.
0830 Op-Tech sets-up on Subway #7.
0845 Arlauckas and Brussel discuss the results obtained for the analysis of soil samples collected from Excavation Area #3 - will have to remove more soil and re-sample for SVOCs only.
Also - sample Excavation Area #2 and sample the 20,000 gallon storage tank.
0900 Mike Rende had the Op-Tech crew move over to Subway #6 - possible bad cable in manhole the line department will be out to fix-it.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Tuesday, November 12, 2002

20,000 gallon storage tank

Sample I.D	Time	Date
WW-2	1000	11/12/2002

Analyze for: PCBs - 8082, TCLP VOCs - 1311/8260, TCLP SVOCs - 1311/8270, TCLP Metals - 1311/6010/7470, ignitability, corrosivity, reactivity.

1040 Hageman indicated approximately 3' of transit pipe located near M-86 in Subway #6.

1100-1135 Op-Tech on lunch

1135 Op-Tech will place polyethylene sheeting on the transit pipe - and the crew will continue to clean Subway #6.

Excavation Area #2

Soil samples to be analyzed from Excavation Area #2.

Sample I.D	Time	Date
VF-A2-S1	1230	11/12/2002
VF-A2-S2	1245	11/12/2002
VF-A2-S3	1300	11/12/2002
VF-A2-S4	1315	11/12/2002
VF-A2-B1	1330	11/12/2002

Analyzed for: PCB's - 8082, SVOC's - 8270, Lead - 6010.

1235 Niagara Mohawk begins to extend the Excavation Area #3 one foot larger in all directions and 1.0 foot deeper.

Resample Area # 3

Soil samples to be analyzed from Area #3.

Sample I.D	Time	Date
VF-A3-S1A	1400	11/12/2002
VF-A3-S2A	1410	11/12/2002
VF-A3-S3A	1420	11/12/2002
VF-A3-S4A	1430	11/12/2002
VF-A3-B1A	1440	11/12/2002

Analyzed for: SVOC's - 8270

1400 Op-Tech continues to clean the north end of Subway # 6.

1500 Arlauckas off site enroute to Severn Trent Laboratories.

1515 Niagara Mohawk and Op-Tech off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Wednesday, November 13, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Clear
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Jessica Landroche
Dan Falls

Niagara Mohawk, a National Grid Company
Mike Rende
Joe Melin
Willie

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0715 Arlauckas and Op-Tech on site
0730 Arlauckas calibrates the equipment
0745 Op-Tech on site (Hewitt and Landroche)
0850 Op-Tech crew sets-up on Subway #3 to finish the center section.
0935 Niagara Mohawk begins to excavate more soil west of the concrete slab (Subway #3).
1045-1130 Op-Tech on Lunch.
1135 Op-Tech continues to work (cleaning) Subway #3 and Subway #2 (north end).
Hageman stated that Scott called Niagara Mohawk to have the electrians look into Subway #7 - exposed wires.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Wednesday, November 13, 2002

He also stated that they will load out all the material associated with the UST excavation..
1520 Op-Tech off site.
1530 Arlauckas and Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Thursday, November 14, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
David Roberts
Jeff Scott

Niagara Mohawk, a National Grid Company
Mike Rende
Joe Melin
Willie

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site.
0725 Op-Tech and Arlauckas on site.
0740 Arlauckas calibrates equipment.
0745 Trucks to haul out soil start to arrive.
Arlauckas asks Hageman if the trucks are lined as per specs, he stated no - Arlauckas calls Brussel Hageman calls Scott.
RESULT : Scott stated the landfill is going to use it as cover material - Brussel agrees.
Trucking Company - Zoladz Construction
1000 Arlauckas sampled excavation area west of the TSCA excavation to check for PCBs.
Niagara Monawk crew continues to excavate south of the area.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Thursday, November 14, 2002

NY Plate Number
NY31959PA
NYAC98341
NY31969PA
NY54533JB
NYA83808A
NY21971PA
NYAC98408
NY31961PA
NYAA98672 - LCA DEVELOPMENT
NYAC98408
NYAC98341

Soil samples to be analyzed from Excavation Area #1.

Sample I.D		Time	Date
VF-A1-S1		1130	11/14/2002
VF-A1-S2		1145	11/14/2002
VF-A1-S3		1200	11/14/2002
VF-A1-B1		1215	11/14/2002
VF-A1-B2		1230	11/14/2002
FD111402 (VF-A1-S2)			11/14/2002
VF-A1-S4		1300	11/14/2002
VF-A1-S5	MS/MSD	1315	11/14/2002
VF-A1-S6		1330	11/14/2002
VF-A1-B3		1345	11/14/2002

Analyzed for: PCBs - 8082, SVOCs - 8270, Lead - 6010.

Sample I.D	Time	Date
WC-3	1430	11/14/2002

Waste Characterization of Excavation Area #1, #2, and #3.
Analyze for: PCBs - 8082, TCLP VOCs - 1311/8260, TCLP SVOCs - 1311/8270, TCLP Metals - 1311/6010/7470, ignitability, corrosivity, reactivity.
1350 Op-Tech off site.
1525 Arlauckas and Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Friday, November 15, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Light rain
Temperature: 40 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Deke Hewitt
Pat Falls
Jessica Landroche

Niagara Mohawk, a National Grid Company
Mike Rende
Joe Kennedy
Willie

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0715 Niagara Mohawk, Arlauckas and Op-Tech on site.
0800-1045 Op-Tech finished cleaning the center section of Subway #3.
1045-1130 Op-Tech on lunch.
1140 Op-Tech continues to clean Subway #3 and moves over to Subway #7.
* heavy oil staining under manhole #19 and #20, with tower wires/lines running thru.
Hageman states it might be difficult to clean - Mighty Mite T100 may not work.
1500 Op-Tech off site.
1530 Arlauckas and Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Monday, November 18, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Wet Snow
Temperature: 32 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Dave Roberts
Pat Falls
Jessica Landroche

Niagara Mohawk, a National Grid Company
Tom Kennedy
Joe Melin
Bill Schmidt

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck

Work Completed:

0700 Niagara Mohawk on site.
0730 Arlauckas and Op-Tech on site.
0805 Op-Tech continues to clean Subway # 7.
0900 Arlauckas spoke with Brussel about soil results from Excavation Areas #2 and #3.
Excavation Area #2

original size:	15.0 ft by 15.0 ft by 1.0'
expanded	18.0 ft by 18.0 ft by 2.5 ft
resample for SVOC's	

Excavation Area #3

original size:	10.0 ft by 10.0 ft by 1.0'
1 - expansion	11.0 ft by 11.0 ft by 2.0 ft
2 - expansion	12.0 ft by 12.0 ft by 3.0 ft
resample for SVOC's	

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Monday, November 18, 2002

1030 Paul Stephano on site, Arlauckas spoke to him about M-19 and M-20 - he stated it was clear Arlauckas explained it to Hageman.
1140-1245 Op-Tech on lunch.
Niagara Mohawk crew #2 cleaned area near cycle 60 transformer (north and south)
Arlauckas resample Excavation Area #2

Sample I.D	Time	Date
VF-A2-S1A	1420	11/18/2002
VF-A2-S2A	1430	11/18/2002
VF-A2-S3A	1440	11/18/2002
VF-A2-S4A	1450	11/18/2002
VF-A2-B1A	1500	11/18/2002

Analyzed for: SVOCs - 8270
1445 Op-Tech off site.
1515 Niagara Mohawk and Arlauckas off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Tuesday, November 19, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Overcast
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
Jessica Landroche
Dave Roberts
Pat Falls

Niagara Mohawk, a National Grid Company
Bill Schmidt
Joe Melin

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site.
0730 Arlauckas and Op-Tech on site, Arlauckas calibrates equipment - Op-Tech conducts the Health and Safety meeting.
0745 Op-Tech sets-up on M-20 and M-21 to remove the oil stained debris from the floor.
0800 Niagara Mohawk begins to remove soil from Excavation Area # 3 west, north and bottom.

Sample I.D	Time	Date
WC-4	1030	11/19/2002

Waste characterization of subsurface debris.
Analyze for: PCBs - 8082, TCLP VOCs - 1311/8260, TCLP SVOCs - 1311/8270, TCLP Metals - 1311/6010/7470, ignitability, corrosivity, reactivity.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Tuesday, November 19, 2002

Resample of Excavation Area #3.

Sample I.D	Time	Date
VF-A3-S1B	1100	11/19/2002
VF-A3-S2B	1110	11/19/2002
VF-A3-B2B	1120	11/19/2002

Analyzed for: SVOCs - 8270

1130-1230 Op-Tech on lunch.

1230-1500 Op-Tech cleaned out vac truck - discharged water into the 6,500 gallon polyethylene tank. solid debris will be removed and placed in the roll-off containers.

1300-1515 Arlauckas inspected Subways.

1530 Arlauckas, Op-Tech and Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Wednesday, November 20, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Clear
Temperature: 45 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Jim Hageman
John

Niagara Mohawk, a National Grid Company
Joe Melin
Bill Schmidt

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
0730 Arlauckas and Op-Tech on site
Op-Tech changes plates on the vac truck - will transport 20,000 gallons of waste water.
0900 Hageman Op-Tech off site.
Niagara Mohawk will begin to backfill the east side of concrete Subway #3.
Arlauckas calculated the amount of soil removed from Excavation Area #1.
Excavation Area #1
Non TSCA = 102.02 yards
TSCA = 19.84 yards
Excavation Area #2
288 inches by 288 inches by 30 inches = 2,488,320 cubic inches = 53.36 yards.
Excavation Area #3
216 inches by 216 inches by 30 inches = 1,399,680 cubic inches = 30.02 yards.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Wednesday, November 20, 2002

Waste water in the 20,000 gallon Baker Tank.
Void = 417 inches by 96 inches by 5 inches = 200,160 cubic inches
(200,160 cubic inches)(0.00433) = 866.69 gallons
20,000 gallons - 866.69 gallons = 19.133.31 total gallons

Sample I.D	Time	Date
WC-5	1000	11/20/2002

Waste characterization of debris off concrete structure near 25-cycle transformer.
Analyze for: PCBs - 8082

Sample I.D	Time	Date
WW-3	1200	11/20/2002

Waste water - 6,500 gallon poly tank (decon water and Subway rinse water)
Analyze for: PCBs - 8082, TCLP VOCs - 1311/8260, TCLP SVOCs - 1311/8270, TCLP Metals - 1311/6010/7470, ignitability, corrosivity, reactivity.
1235 Niagara Mohawk continued to backfill east side of Excavation Area #1.
1400 Op-Tech off site
1445 Arlauckas off site to drop off samples at Severn Trent Laboratories.
1530 Niagara Mohawk off site.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Thursday, November 21, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Clear
Temperature: 35 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Dave Roberts

Niagara Mohawk, a National Grid Company
Bill Schmidt
Joe Melin

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site
07300 Arlauckas and Op-Tech on site
Roberts will transport water.
Niagara Mohawk will continue to backfill Excavation Area # 1.

Sample I.D	Time	Date
WC-6	900	11/21/2002

Waste characteristics for UST tank sludge.
Analyze for: PCBs - 8082, TCLP VOCs - 1311/8260, TCLP SVOCs - 1311/8270, TCLP Metals - 1311/6010/7470, ignitability, corrosivity, reactivity.
1130 Op-Tech removed the vac truck off site without deconing it.
Arlauckas spoke to Roberts, he stated there is an emergency at their office.
1300 Arlauckas off site to Severn Trent Laboratories
1630 Niagara Mohawk off site.

Excavation Area #1 and the excavation area near the 60 cycle transformer are completely backfilled with geotextile fabric and # 2 crushed stone.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Date: Thursday, November 21, 2002

Time	Date
1200	11/7/2002
1215	11/7/2002
1230	11/7/2002
1245	11/7/2002
1300	11/7/2002

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Daily Field Report

Date/Day: Friday, November 22, 2002
Project: *Niagara Mohawk, a National Grid Company*
Harper Substation
Niagara Falls, New York
Interim Remedial Measure Activities

Weather: Rain 32 F
Temperature: 50 F
Wind:
Humidity:

Job Number: 366.05.006
Contractor: Op-Tech Environmental Services, Inc

Personnel On-Site:

Blasland, Bouck & Lee, Inc.
Michael R. Arlauckas

Op-Tech Environmental Services, Inc
Dave Roberts
Linda Scott
Pat Falls

Niagara Mohawk, a National Grid Company
Joe Melin
Bill Schmidt

Equipment On-Site:

Track Excavator - CASE 920
Front-End Loader - CASE 821C (2 cubic yard)
Box Truck
Pick-up Truck
Vac Truck (3500 gallon) - International

Work Completed:

0700 Niagara Mohawk on site.
0715 Arlauckas on site.
0800 Op-Tech on site.
0830 Op-Tech begins to clean - decon the 20,000 gallon Baker Tank.
0800-0840 Scott on site. Arlauckas stated the soil piles need to be covered due to the inclement weather.
0900 Arlauckas calls Brussel for analytical results for Excavation Areas #2 and #3.
Excavation Area #2 clean except sample VF-A2-S4 for SVOC's, Brussel stated to excavate an additional 30 feet out the south wall.
No results from Area # 3.

Sample I.D	Time	Date
VF-A2-S4B	930	11/22/2002

Analyze for: SVOCs - 8270
1130 Op-Tech off site.
1300 Arlauckas enroute to Severn Trent Laboratories.

Signed by: _____ **BBL**

Signed by: _____ **Op-Tech**

Appendix C - Petroleum Bulk Storage Application

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Niagara Mohawk
A **National Grid** Company

Helen A. Baird
Sr. Engineering Clerk

August 14, 2002

Mr. Paul Kutlina
New York State Department of
Environmental Conservation
270 Michigan Ave., Region 9
Buffalo, NY 14203

Dear Mr. Kutlina:

SUBJECT: Niagara Mohawk, a National Grid Company
Harper Substation
Unregistered Tank

As the result of preliminary remediation work at the above-referenced facility, an abandoned 6,000 gallon underground gasoline tank was located. There is no other information in regards to this tank known at this time.

The tank will be removed sometime in September of this year. The attached application completes the registration, closure and fee payment requirements for this tank. Mr. Glen May, is the NYSDEC Remediation representative for this facility.

Please contact me at (315) 428-6611 if you have questions.

Sincerely,

Helen A. Baird
Sr. Engineering Clerk

HAB:jw
Attachments
bpc: R. W. Cummings, Jr. (w/o attach.)
W. J. Holzhauer (w/attach.)
J. F. Morgan (w/o attach.)

300 Erie Boulevard West
Environmental Department, A-2
Syracuse, NY 13202
315.428.6611 Fax: 315.428.3549
Helen.Baird@us.ngrid.com

93-19-1 (10/93)—26c

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SPILLS MANAGEMENT • BUREAU OF SOURCE CONTROL

PETROLEUM BULK STORAGE APPLICATION

Pursuant to the Petroleum Bulk Storage Law, Article 17, Title 10 of ECL; and 6 NYCRR 612-614.

(Continued on Reverse Side—Please Be Sure to Complete Section B)

Please Type or Print Clearly and Complete All Items

SECTION A—See Instructions on Cover Sheet

PBS NUMBER: N/A

Indicate Other Existing DEC Numbers, if any, for this Facility:

CBS Number:

SPDES Number:

TRANSACTION TYPE (Check all that apply)
NOTE: Transaction Types 1, 2 and 5 require a fee.

1. [X] Initial/New Facility
2. [ ] Change of Ownership
3. [ ] Substantial Tank Modification
4. [ ] Information Correction
5. [ ] Renewal

Geographical Locator for this Facility: (If known)

LATITUDE: DEG MIN SEC

LONGITUDE: DEG MIN SEC

FACILITY

NAME: Harper Substation

LOCATION (Not P.O. Boxes): Royal Ave.

LOCATION (Continued):

CITY/TOWN/VILLAGE: Niagara Falls, | STATE: NY | ZIP CODE: 14303

COUNTY: Niagara | TOWNSHIP OR CITY:

NAME OF OPERATOR AT FACILITY: Niagara Mohawk | FACILITY TELEPHONE NUMBER: (315) 474-1511

EMERGENCY CONTACT NAME: Frank Grabowski | EMERGENCY CONTACT PHONE NO.: (315) 460-2351

OWNER

NAME: Niagara Mohawk, A National Grid Company

ADDRESS (Street and/or P.O. Box): 300 Erie Blvd. West

CITY: Syracuse | STATE: NY | ZIP CODE: 13202

FEDERAL TAX ID NO.: 15-0265555 | OWNER TELEPHONE NUMBER: (315) 474-1511

TYPE OF OWNER (Check only one)
1 [ ] Private Resident 2 [ ] State Government 3 [ ] Local Government
4 [ ] Federal Government 5 [X] Corporate/Commercial

MAILING CORRESPONDENCE

ATTENTION: Helen A. Baird

NAME OF COMPANY: Niagara Mohawk, A National Grid Company

ADDRESS: 300 Erie Blvd. West

ADDRESS: Environmental Affairs, A-2

CITY/STATE/ZIP CODE: Syracuse, New York 13202

TELEPHONE NUMBER: (315 474-1511

TYPE OF PETROLEUM FACILITY:

(Check all that apply)

A. [ ] Storage Terminal/Petroleum Distributor
B. [ ] Retail Gasoline Sales
C. [ ] Other Retail Sales
D. [ ] Manufacturing
E. [X] Utility
F. [ ] Trucking/Transportation
G. [ ] Apartment Building
H. [ ] School
I. [ ] Farm J. [ ] Private Residence
K. [ ] Airline (Air Taxi) L. [ ] Other (Specify)

I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

NAME OF OWNER OR AUTHORIZED REPRESENTATIVE: Helen Baird | AMOUNT ENCLOSED: $ 250.00

TITLE: Sr. Engineering Clerk

SIGNATURE: Helen Baird | DATE: 8-14-02

OFFICIAL USE ONLY

Page _____ of _____

Date Received: ____/____/____

Date Processed: ____/____/____

Amount Received $ _____

Reviewed By: _____

Appendix D – Waste Manifests

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

CWM Chemical Services, Inc., Model City, NY

Hazardous Waste Solid – Lead (D008)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

NYG 1502568

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

15563

Please type or print. Do not staple

(Hazardous Waste Manifest 1/28/98)

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577
Manifest Doc. No.: 84236
2. Page 1 of 1
Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address: Niagara Mohawk Power Corp. 93 Dewey Avenue Buffalo, NY 14214
4. Generator's Telephone Number (716) 831-7428 Attn:M.Morrow

A. NYG 1502568
B. Generator's ID: Harper Station 411/25

5. Transporter 1 (Company Name): Price Trucking Corp.
6. US EPA ID Number: NYD046765574
C. State Transporter's ID
D. Transporter's Telephone (716) 822-1414

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address: CWM Chemical Services 1550 Balmer Rd. Model City, NY 14107
10. US EPA ID Number: NYD049836679
G. State Facility ID
H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Solid,NOS(Lead), 9, NA3077, PG III	001	DT		Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. Approval ACW 2809
b. Service request# 663455
c.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
Job # 7NR174 EAG # 171
PO # 35001777
Incase of emergency call 1-800-225-6750
8156#458

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott
Signature: [signature]
Mo. 11 Day 25 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. | Day | Year

19. Discrepancy Indication Space
Actual Recd 66700 P

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: EILEEN CARTER
Signature: Eileen Carter
Mo. 11 Day 25 Year 02

GENERATOR / TRANSPORTER / FACILITY

COPY 7—Transporter Copy—Retained by Transporter

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

40
Cubic Yards

R1560845P
Receipt #

2216A2 NY
Trailer License Plate # and State

1da3455 | CW28209 | 9A025
Service Req. # | Profile # | Permit #

PRICE TRUCKING CORP | 827/1850
Transporter Name | Tractor/Trailer/Roll-off #

RALPH M. CROSS | NIA. MOHAWK POWER CORP.
Driver's Name | Generator

6:40 P

Scheduled Arrival: _____ (Date) _____ (Time)

Actual Arrival: _____ (Date) 926 (Time In) _____ (Time Out)

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: C (Initials) _____ (Comments)

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory					
Stabilization					
Landfill					
Other					
Aqueous Treatment			Signature (NO Initials)		

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

NYG 1502577

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/28/93)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
	NYD980782577	BK235	1	

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Avenue Buffalo, NY 14214

4. Generator's Telephone Number (716) 831-7428 Attn: M.Morrow

A. NYG 1502577

B. Generator's ID ~~XXXXX~~ Harper Station

5. Transporter 1 (Company Name): Price Trucking Corp.
6. US EPA ID Number: NYD046765574
C. State Transporter's ID 211125
D. Transporter's Telephone (716) 822-1414
7. Transporter 2 (Company Name)
8. US EPA ID Number
E. State Transporter's ID 22754-2(W)
F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address: CWM Chemical Services LLC e11/25
1550 Balmer Rd.
Model City, NY 14107
10. US EPA ID Number: NYD049836679
G. State Facility ID: same
H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous waste Solid,NOS(Lead), 9, NA 3077, PG III	001	DT	30	Y	EPA D008 / STATE
b.					EPA / STATE
c					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. Approval # CW 2809
b. Service request # 663454

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750
Job # FNM376 ERG # 171
PO # 85001777
8150845?

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Agent for Niagara Linda Scott
Signature: Mohawk Linda Scott
Mo. 11 Day 25 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Luis Nieves
Signature:
Mo. 11 Day 25 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Mo. Day Year

FACILITY

19. Discrepancy Indication Space
Actual Read: 80220 L. Item K-T

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: EILEEN CARTER
Signature: Eileen Carter
Mo. 11 Day 25 Year 02

GENERATOR

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

100100

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

40
Cubic Yards

81568457 — Receipt #
2215A2 . NY — Trailer License Plate # and State

Service Req. #: [illegible] | Profile #: CW2509 | Permit #: 9A025

Transporter Name: Price Trucking Corp | Tractor/Trailer/Roll-off #: 1286 1200

Driver's Name: [illegible] | Generator: Niagara Mohawk Power Corp

802261

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date | 926 Time In | ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: [illegible] Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory	Time In	Time Out	Initials	Comments	
Stabilization	Time In	Time Out	Initials	Gross Wt.	Comments
Landfill	Time In	Time Out	Initials	Comments	
Other	Time In	Time Out	Initials	Comments	
Aqueous Treatment	Time In	Time Out	Signature (NO Initials)	Comments	

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas | ______ Leaving truck unattended

______ Failure to obey instructions of facility personnel | ______ Failure to display overweight flag

______ Failure to wear appropriate PPE | ______ Improper tarping or detarpin

______ Unsafe driving practices | ✓ Overweight upon arrival

______ Other (specify) 104,000

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Rec[illegible] | [illegible]y: Accts Rec. | Pink: Environmental | Goldenrod: Driver

NYG 1502541

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/26/98)

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980781257 7
Manifest Doc. No.: BK234
2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

A. NYG 1502541

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Avenue Buffalo, NY 14214

4. Generator's Telephone Number (716) 831-7428 Attn: M.Morrow

B. Generator's ID: XXXX Harper Station

5. Transporter 1 (Company Name): Price Trucking Corp.
6. US EPA ID Number: NYD046765574

C. State Transporter's ID: 3151A4 NY HT1/2
D. Transporter's Telephone (716) 822-1414

7. Transporter 2 (Company Name):
8. US EPA ID Number:

E. State Transporter's ID: 3957A4
F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address
CWM Chemical Services
1550 Balmer Rd.
Mocel City, NY 14107

10. US EPA ID Number: NYD049836679

G. State Facility ID: same
H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Solid, NOS(Lead), 9, NA 3077, PG III	001	DT	30	Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. Approval # CW 2809
b. Service request # 663454
c.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
Job # FNM376 ERG # 171
PO # 85001777
IN case of emergency call 1-800-225-6750
81568563

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
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Printed/Typed Name: Linda SCott Agent for Niagare Mohawk
Signature: Linda Scott
Mo. Day Year: 11 25 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mike DAVIS
Signature: [signature]
Mo. Day Year: 11 25 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Mo. Day Year:

19. Discrepancy Indication Space
Act.Rec. 73240P

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Michelle Fleck
Signature: Michelle Fleck
Mo. Day Year: 11 27 02

GENERATOR / TRANSPORTER / FACILITY

COPY 1—Disposer State—Mailed by TSD Facility

DEC. 23. 2002 8:49AM NO. 1779 P. 21

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

40 Cubic Yards

R1518553 — Receipt #
395144-NY — Trailer License Plate # and State
163454 — Service Req. #
Profile #
9A-025 — Permit #
Price Trucking — Transporter Name
9600 / ARSCO — Tractor/Trailer/Roll-off #
Mike Davis — Driver's Name
Niagara Mohawk — Generator

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 1447 Time Out ____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF (Initials) ____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas
____ Leaving truck unattended
____ Failure to obey instructions of facility personnel
____ Failure to display overweight flag
____ Failure to wear appropriate PPE
____ Improper tarping or deterpin
____ Unsafe driving practices
____ Overweight upon arrival
____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Re... Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

NYG 1502586

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/28/98)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
	NYD980782577	BK237	1	

3. Generator's Name and Mailing Address	A. NYG 1502586
Niagara Mohawk Power Corp. 93 Dewey Avenue Buffalo, NY 14214 4. Generator's Telephone Number (716) 831-7428 ATTN: M.Morrow	B. Generator's ID: Harper Station
5. Transporter 1 (Company Name): Price Trucking Corp. — 6. US EPA ID Number: NYD046765574	C. State Transporter's ID: 2217A2 NY — D. Transporter's Telephone (716) 822-1414
7. Transporter 2 (Company Name) — 8. US EPA ID Number	E. State Transporter's ID: 2217A2 — F. Transporter's Telephone ( )
9. Designated Facility Name and Site Address CWM Chemical Services 1550 Balmer Rd. Model City, NY 14107 — 10. US EPA ID Number: NYD049836679	G. State Facility ID: same H. Facility Telephone ( ): 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Solid,NOS(Lead),9, NA 3077, PG III	001	DT	30	Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above	K. Handling Codes for Wastes Listed Above
a. Approval # CW2809 — c.	a. L — c.
b. Service request # 663455 — d.	b. — d.

15. Special Handling Instructions and Additional Information

Job # FNM376
PO # 85001777
ERG #171

In case of emergency call 1-800-225-6750

81568539

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo.	Day	Year
Agent for Niagara Mohawk Linda Scott	Linda Scott	11	25	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
X IVAN ZIVKOV		11	25	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

FACILITY

19. Discrepancy Indication Space

Ant Rec. 74480P

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year
Michelle Fleck	Michelle Fleck	11	27	02

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

GENERATOR

COPY 1—Disposer State—Mailed by TSD Facility

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

Cubic Yards

81508539 — Receipt #
237A2 NJX — Trailer License Plate # and State
663155 — Service Req. #
Profile #
Permit #
Pride — Transporter Name
1600 - 1200 — Tractor/Trailer/Roll-off #
Driver's Name
Generator

74480P

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 700 Time Out ____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF Initials ____ Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas
____ Failure to obey instructions of facility personnel
____ Failure to wear appropriate PPE
____ Unsafe driving practices
____ Other (specify) ____

____ Leaving truck unattended
____ Failure to display overweight flag
____ Improper tarping or detarpin
____ Overweight upon arrival

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

NYG 1502595

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please Type or print. Do not staple

(Hazardous Waste Manifest 1/26.96)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
NYD980782577	BK240	1	

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Ave. Buffalo, NY 14214

4. Generator's Telephone Number (716) 831-7428 M. Morrow

A. NYG 1502595

B. Generator's ID Harper Station

5. Transporter 1 (Company Name)	6. US EPA ID Number
Price Trucking Corp.	NYD046765574
7 Transporter 2 (Company Name)	8. US EPA ID Number

C. State Transporter's ID 22166A2 NY NF 11/27
D. Transporter's Telephone (716) 822-1414
E. State Transporter's ID 22166A2
F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address	10. US EPA ID Number
CWM Chemical ~~Svcs.~~ LLC MF 11/27 1550 Balmer Rd. Model City, NY 14107	NYD049836619

G. State Facility ID Same
H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste, Solid, NOS, (Lead) 9, NA3077, PGIII	001	DT	30	Y	EPA D008 STATE
b.					EPA STATE
c					EPA STATE
d.					EPA STATE

GENERATOR

J. Additional Descriptions for Materials listed Above
a # CW2809
b Ser. Request # 663455

K. Handling Codes for Wastes Listed Above
a L
b
c
d

15. Special Handling Instructions and Additional Information 81568519
For release call the National Responce Center at 1-800-424-8802 and 911. If 911 is not in service, call local operator. Emergency contact: Chemtrec 1-800-424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
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Printed/Typed Name	Signature	Mo.	Day	Year
Agent for Niagara Mohawk LINDA SCOTT	Linda Scott	11	25	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
X RALPH M. CROSS	Ralph M. Cross	11	25	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

FACILITY

19. Discrepancy Indication Space
Act. Rec 060240P

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year
Michelle Fleck	Michelle Fleck	1	1	2702

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

100210

40
Cubic Yards

81568519
Receipt #

2216A2 NY
Trailer License Plate # and State

163455
Service Req. #

CW2809
Profile #

9A025
Permit #

PRICE TRUCKING CORP
Transporter Name

827/1858
Tractor/Trailer/Roll-off #

RALPH CROSS
Driver's Name

NIA MOHAWK POWER CORP.
Generator

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 535 Time In _____ Time Out

1602 40P

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In | Time Out | Initials | Comments

Stabilization

Time In | Time Out | Initials | Gross Wt. | Comments

Landfill

Time In | Time Out | Initials | Comments

Other

Time In | Time Out | Initials | Comments

Aqueous Treatment

Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

NYG 1502604

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
	NYD980782577	BK241	1	

GENERATOR

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Ave. Buffalo, NY 14214

4. Generator's Telephone Number (716) 831-7428 Attn: M Morrow

A. NYG 1502604

B. Generator's ID Harper Station

C. State Transporter's ID 2215A2 NY MF 11/27

D. Transporter's Telephone (716) 822-1414

E. State Transporter's ID 2215A2

F. Transporter's Telephone ( )

G. State Facility ID Same

H. Facility Telephone ( ) 716-754-8231

5. Transporter 1 (Company Name): Price Trucking Corp.

6. US EPA ID Number: NYD046765574

7. Transporter 2 (Company Name)

8. US EPA ID Number

9. Designated Facility Name and Site Address MF 11/27
CWM Chemical ~~Svcs~~ LLC
1550 Balmer Rd.
Model City, NY 14107

10. US EPA ID Number: NYD049836679

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazzardous Waste, Solid, NOS, (Lead) 9, NA3077, PGIII	001	DT	36	Y	EPA D008 / STATE
b.					EPA / STATE
c					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. # CW2809
b. Ser. Request # 663455

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
81568521
For release call the National Responce Center at 1-800-424-8802 and 911. If 911 is not in service, call local operator. Emergency contact: Chemtrec 1-800-424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
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Printed/Typed Name	Signature	Mo.	Day	Year
Agent for Niagara Mohawk LINDA SCOTT	Linda Scott	11	25	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
X Luis Mirena		11	25	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

FACILITY

19. Discrepancy Indication Space
Act. Rec 72000 P

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year
Michelle Fleck	Michelle Fleck	1	1	02

COPY 1—Disposer State—Mailed by TSD Facility

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

40
Cubic Yards

81568521
Receipt #

2215 A.2. N.Y.
Trailer License Plate # and State

663455
Service Req. #

CWI809
Profile #

9A-025
Permit #

Price Trucking Co. NY
Transporter Name

1386 1209
Tractor/Trailer/Roll-off #

Luis Nieves
Driver's Name

Niagara Mohawk Power Ny
Generator

726000P

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 536 Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☑ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

NYG 1502622

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/28/98)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
	N Y D 9 8 0 7 8 2 5 7 7	B K 2 3 8	1	

GENERATOR

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Avenue Buffalo, NY 14214

4. Generator's Telephone Number (716) 831-7428 AttnM.Morrow

A. NYG 1502622

B. Generator's ID
Harper Station

C. State Transporter's ID 230387 NY MF 11/27

D. Transporter's Telephone (716) 822-1414

E. State Transporter's ID 230387

F. Transporter's Telephone ( )

G. State Facility ID
same

H. Facility Telephone ( )
XXXXX 716-754-8231

5. Transporter 1 (Company Name)
Price Trucking Corp.

6. US EPA ID Number
N Y D 0 4 6 7 6 5 5 7 4

7. Transporter 2 (Company Name)

8. US EPA ID Number

9. Designated Facility Name and Site Address
CWM Chemical Services LLC
1550 Balmer Rd.
Model City, NY 14107 MF 11/27

10. US EPA ID Number
N Y D 0 4 9 8 3 6 6 7 9

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Solid, NOS(Lead), 9, NA 3077 PG III	001	DT	30	Y	EPA D008 STATE
b.					EPA STATE
c					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a. Approval # CW 2809
b. Service request # 663455

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
81568537
For release call the National Response Center at 1-800-424-8802 and 911. If 911 is not in service, call the local operator. Emergency contact: CHEMTREC 1-800-424-9300.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: LINDA SCOTT (Agent for Niagara Mohawk) Signature: Linda Scott Mo. 11 Day 26 Year 02 11/27 MF

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: PAVEL ZINKOV Signature: Pavel Zinkov Mo. 11 Day 26 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Mo. Day Year

FACILITY

19. Discrepancy Indication Space
Act Rec 102780.P

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Michelle Fleck Signature: Michelle Fleck Mo. 11 Day 27 Year 02

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

DEC. 23. 2002 8:52AM NO. 1779 P. 29

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

50
Cubic Yards

8568537
Receipt #

230387 NY
Trailer License Plate # and State

Service Req. # *Profile #* *Permit #*

Pace Trucking
Transporter Name

Tractor/Trailer/Roll-off #

Driver's Name

Generator

102780P

Scheduled Arrival: ____ ____
Date *Time*

Actual Arrival: ____ 659 ____
Date *Time In* *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: MF ____
Initials *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In *Time Out* *Initials* *Comments*

Stabilization
Time In *Time Out* *Initials* *Gross Wt.* *Comments*

Landfill
Time In *Time Out* *Initials* *Comments*

Other
Time In *Time Out* *Initials* *Comments*

Aqueous Treatment
Time In *Time Out* *Signature (NO Initials)* *Comments*

Facility Personnel (*please Initial*)

____ Smoking or eating in prohibited areas
____ Failure to obey instructions of facility personnel
____ Failure to wear appropriate PPE
____ Unsafe driving practices
____ Leaving truck unattended
____ Failure to display overweight flag
____ Improper tarping or detarpin
____ Overweight upon arrival
____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Acct Rec.   Pink: Environmental   Goldenrod: Driver

NO. 1779 P. 28

DEC. 23. 2002 8:51AM

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYG 1502694

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/28/98)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N Y D 9 8 0 7 8 2 5 7 7
Manifest Doc. No.: B K 2 7 9
2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address:
Niagara Mohawk Power Corp.
93 Dewey Avenue Buffalo, NY 14214

4. Generator's Telephone Number (716) 831-7428 Attn;M.Morrow

A. NYG 1502694

B. Generator's ID: Harper Station

5. Transporter 1 (Company Name): Price Trucking Corp.
6. US EPA ID Number: N Y D 0 4 6 7 6 5 5 7 4

C. State Transporter's ID: 2C23B7 NY

D. Transporter's Telephone (716) 822-1414

7. Transporter 2 (Company Name):
8. US EPA ID Number:

E. State Transporter's ID
F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address:
CWM Chemical Services LLC
1550 Balmer Rd.
Model City, NY 14107

10. US EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

G. State Facility ID: same

H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Siolid, NOS(Lead), 9, NA 3077 PG III	001	DT	00030	Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials Listed Above
a. Approval # CW 2809
b. Service request # 665040
c.
d.

K. Handling Codes for Wastes Listed Above
a. T
b.
c.
d.

15. Special Handling Instructions and Additional Information
Job # FNM376 ERG # 171
In case of emergency call 1-800-225-6750
8156917?

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott
Signature: Linda Scott
Mo. 12 Day 6 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Simpson
Signature: James Simpson
Mo. 12 Day 16 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

19. Discrepancy Indication Space
actual Recd 39780#

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Michelle Fleck
Signature: Michelle Fleck
Mo. 12 Day 6 Year 02

GENERATOR / TRANSPORTER / FACILITY

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

JAN. 6. 2005 12:11PM 105878 NO. 2205 P. 10/30

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

Cubic Yards

8156177 — Receipt #
20327 NY — Trailer License Plate # and State
Service Req. # — Profile # CW2209 — Permit #
Transporter Name — Tractor/Trailer/Roll-off #
Driver's Name — Generator

397000

Scheduled Arrival: Date — Time

Actual Arrival: Date — Time In 1151 — Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials — Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In — Time Out — Initials — Comments

Stabilization
Time In — Time Out — Initials — Gross Wt. — Comments

Landfill
Time In — Time Out — Initials — Comments

Other
Time In — Time Out — Initials — Comments

Aqueous Treatment
Time In — Time Out — Signature (NO Initials) — Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas
_____ Failure to obey instructions of facility personnel
_____ Failure to wear appropriate PPE
_____ Unsafe driving practices
_____ Other (specify)

_____ Leaving truck unattended
_____ Failure to display overweight flag
_____ Improper tarping or detarping
_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

JAN. 0. 2003 12:12PM NO. 2203 P. 23/30

NYG 1502703

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/18/98)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577 | Manifest Doc. No.: BK2718 | 2. Page 1 of: 1 | Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Avenue Buffalo, NY 14214

4. Generator's Telephone Number (716) 831-7428 ATIN: M.Morrow

A. NYG 1502703

B. Generator's ID: Harper Station

5. Transporter 1 (Company Name): Price Trucking Corp. | 6. US EPA ID Number: NYD046765574 | C. State Transporter's ID: 995144 NY | D. Transporter's Telephone (716) 822-1414

7. Transporter 2 (Company Name) | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address: CWM Chemical Svcs. LLC 1550 Balmer Rd. Model City, NY 14107 | 10. US EPA ID Number: NYD049836679 | G. State Facility ID: same | H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. *RQ, Hazardous Waste Solid,NOS(Lead), 9, NA 3077, PG III	001	DT	00030	Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above: a. Approval # CW 2809

K. Handling Codes for Wastes Listed Above: a. T

15. Special Handling Instructions and Additional Information: Service request # 665040 81569184
Job # FNM376 ERG # 171
In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott | Signature: Linda Scott | Mo. 12 Day 16 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: | Mo. 12 Day 16 Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. Day Year

FACILITY

19. Discrepancy Indication Space: Act:Rec 50400#

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Michelle Fleck | Signature: Michelle Fleck | Mo. 12 Day 16 Year 02

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

50
Cubic Yards

8156 9184 — Receipt #
395 1A9 NY — Trailer License Plate # and State

11:36 90080
12/16/02

65040 — Service Req. #
Profile #
Permit #

Price — Transporter Name
1200 - 2050 — Tractor/Trailer/Roll-off #

14:23 94160
12/16/02
50400P

Waj Zinkiv — Driver's Name
Niagara Mohawk — Generator

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 1105 Time In ______ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☑ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory: Time In / Time Out / Initials / Comments

Stabilization: Time In / Time Out / Initials / Gross Wt. / Comments

Landfill: Time In / Time Out / Initials / Comments

Other: Time In / Time Out / Initials / Comments

Aqueous Treatment: Time In / Time Out / Signature (NO Initials) / Comments

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas
______ Leaving truck unattended
______ Failure to obey instructions of facility personnel
______ Failure to display overweight flag
______ Failure to wear appropriate PPE
______ Improper tarping or detarpin
______ Unsafe driving practices
______ Overweight upon arrival
______ Other (specify) ______

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWM Chemical Services, Inc., Model City, NY

Hazardous Waste Solid – Tetrachloroethane (D039)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

NYG 1502667

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/28/98)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
NYD980782577	BK251	1	

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Avenue Buffalo, NY 14214
4. Generator's Telephone Number (716) 831-7428 Attn: M.Morrow

A. NYG 1502667
B. Generator's ID Harper Station
C. State Transporter's ID NY 4180900
D. Transporter's Telephone (716) 822-1414
E. State Transporter's ID
F. Transporter's Telephone ( )
G. State Facility ID same
H. Facility Telephone ( ) 716-754-8231

5. Transporter 1 (Company Name): Price Trucking Corp.
6. US EPA ID Number: NYD046765574
7. Transporter 2 (Company Name):
8. US EPA ID Number:
9. Designated Facility Name and Site Address: CWM Chemical Services LLC 12/10
1550 Balmer Road
Model City, NY 14107
10. US EPA ID Number: NYD049836679

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Solid, NOS(Tetrachloroethane), 9, NA 3077, PG III	001	CM	00025	Y	EPA D039 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

GENERATOR

J. Additional Descriptions for Materials listed Above
a. Approval # CW2957
b. ERG # 171
c.
d.

K. Handling Codes for Wastes Listed Above
a. T
b.
c.
d.

15. Special Handling Instructions and Additional Information Service request # 664896 $1568893
For release call the National Response Center at 1-800-424-8802 and 911. If 911 is not in service, call the local operator. Emergency contact: CHEMTREC 1-800-424-9300.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
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Printed/Typed Name: Agent of Niagara Mohawk James V. Hageman
Signature:
Mo. 12 Day 10 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JEFFREY P PRICE
Signature:
Mo. 12 Day 10 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Mo. Day Year

FACILITY

19. Discrepancy Indication Space
Actual Recd 30540P

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Michelle Fleck
Signature:
Mo. 12 Day 10 Year 02

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

30 Cubic Yards

81560893 Receipt #

4/1509PA NY Trailer License Plate # and State

664096 Service Req. #

CW2957 Profile #

9A-025 Permit #

PRICE TRUCKING Transporter Name

4000-3081 Tractor/Trailer/Roll-off #

JIM PRICE Driver's Name

NIAGARA MOHAWK Generator

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 1051 Time In _____ Time Out

30540P

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: _____ Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☐ Bulk to Landfill ☐ No wet fine ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In | Time Out | Initials | Comments

Stabilization

Time In | Time Out | Initials | Gross Wt. | Comments

Landfill

Time In | Time Out | Initials | Comments

Other

Time In | Time Out | Initials | Comments

Aqueous Treatment

Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accu Rec. Pink: Environmental Goldenrod: Driver

CWM Chemical Services, Inc., Model City, NY

Hazardous Waste Solid – PCBs (B007)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

NYG 1502649

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

(4)

Please type or print. Do not staple

(Hazardous Waste Manifest 1/28/98)

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy-bold line is not required by Federal Law.
NYD980782577		1	

GENERATOR

3. Generator's Name and Mailing Address
Niagara Mohawk Power Corp.
93 Dewey Avenue Buffalo, NY 14214
4. Generator's Telephone Number (716) 831-7628 Attn: M.Morrow

A. NYG1502649
B. Generator's ID: Harper Station
C. State Transporter's ID: 45742JD(NY)
D. Transporter's Telephone (716) 873-7610
E. State Transporter's ID:
F. Transporter's Telephone ( )
G. State Facility ID:
H. Facility Telephone ( ) 716754-8231

5. Transporter 1 (Company Name): Q.-Tech Environmental Svcs.
6. US EPA ID Number: NYD986508753
7. Transporter 2 (Company Name):
8. US EPA ID Number:
9. Designated Facility Name and Site Address: CWM Chemical Services, Inc. 1550 Balmer Rd. Model City, NY 14107
10. US EPA ID Number: NYD049836679

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Polychlorinated Biphenyl, Solid, 9, UN 2315 PG II	003	DM	001360	L	EPA STATE R007
b.					EPA STATE
c					EPA STATE
d					EPA STATE

J. Additional Descriptions for Materials listed Above
a. Approval # CM2613 PCB Debris < 500 ppm
out of service date 11/18/02
b.
d.

K. Handling Codes for Wastes Listed Above
a. T
c.
b.
d.

15. Special Handling Instructions and Additional Information
Service request # 664134
For release, call the National Response Center at 1-800-424-8802 and 911. If 911 is not in service, call the local operator. Emergency contact: CHEMTREC 1-800-424-9300.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
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Printed/Typed Name	Signature	Mo.	Day	Year
Agent for Niagara Mohawk Linda Scott	Linda Scott	12	05	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
DAVID		12	05	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year
Richard LaBrake		12	05	02

COPY 7—Transporter Copy—Retained by Transporter

High Acres Landfill, Fairport, NY

Non-Hazardous Waste – Oily Sludge

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980762577

Manifest Document No.: 3K258

2. Page 1 of 1

3. Generator's Name and Mailing Address:
NIAGARA MOHAWK POWER CORPORATION
50 Conway Avenue Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 Attn:M.Morrow

5. Transporter 1 Company Name: Op-Tech Environmental Svcs.

6. US EPA ID Number: NYD986980753

A. State Transporter's ID: 45742JD(NY)

B. Transporter 1 Phone: 716-873-7680

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address:
High Acres Landfill
425 Perinton Pkwy.
Fairport, NY 14450

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 585-223-6132

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Waste NON RCRA Liquid,NOS(Oily sludge)	~~1~~ 6 ~~4~~	DM	~~250~~ 300 ~~15~~	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above:
Job # NM376
Approval # CJ2543

G. Handling Codes for Wastes Listed Above: a.) L

15. Special Handling Instructions and Additional Information: In case of emergency call 1-800-225-6750.

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott | Signature: Linda Scott | Date: Month 12 Day 05 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David [illegible] | Signature: [illegible] | Date: Month [illegible] Day [illegible] Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
High Acres Landfill

Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month 12 Day 11 Year 02

RCRA NON-HAZARDOUS WASTE — GENERATOR — TRANSPORTER — FACILITY

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North Tonawanda Wastewater Treatment Plant, N. Tonawanda, NY

Non-Hazardous Liquid Wastewater

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

NON-HAZARDOUS WASTE MANIFEST

#1

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RCRA NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 253

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 attn M. Morrow

5. Transporter 1 Company Name: OP-Tech Environmental Svcs.

6. US EPA ID Number: NYD986980753

A. State Transporter's ID 46757PA

B. Transporter 1 Phone 716- 873-7630

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
630 River Rd.
North Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone 716- 695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Liquid, NOS, (cont. Water)	1	TT	3079	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # NM376
PO # 85001772

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott

Signature: Linda Scott

Date: Month 11 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Scott

Signature: John Scott

Date: Month 11 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name:

Signature: Mary Belinke

Date: Month 11 Day 20 Year 02

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#2

NON-HAZARDOUS WASTE MANIFEST

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 254

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave, Buffalo, Ny 14214
4. Generator's Phone (716) 831- 7428 attn: M. Morrow

Harper Station

5. Transporter 1 Company Name: CP-Tech Environmental Svcs.
6. US EPA ID Number: NYD986980753
A. State Transporter's ID: 46757PA
B. Transporter 1 Phone: 716-873-7680

7. Transporter 2 Company Name
8. US EPA ID Number
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
830 River Rd.
North Tonawanda, NY 14120
10. US EPA ID Number: N/A
E. State Facility's ID: same
F. Facility's Phone: 716-695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Liquid, NOS, (Cont. water)	1	TT	3079	G
b.				
c.				
d.				

GENERATOR

F. Additional Descriptions for Materials Listed Above
Job # FNM376
P O # 85001772

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750

RCRA NON-HAZARDOUS WASTE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Agent for Niagara Mohawk Linda Scott	Linda Scott	11	20	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
John Scott	John Scott	11	20	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
STEPHEN J SABO	Stephen J Sabo	11	20	02

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#3

NON-HAZARDOUS WASTE MANIFEST

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NY0980782577

Manifest Document No. BK 255

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
99 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831- 7428 attn: M. Morrow

5. Transporter 1 Company Name: OP-Tech Environmental Services

6. US EPA ID Number: NY0986980753

A. State Transporter's ID 467575PA

B. Transporter 1 Phone 716- 873-7680

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
830 River Rd.
North Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Liquid, NOS, (Cont. water)	1	TT	3,079	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376
PO # 85001772

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information: In case of emergency call 1-800-225-5750

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott — Signature: Linda Scott — Date: Month 11 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Scott — Signature: John Scott — Date: Month 11 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name: JOHN WENTZ — Signature: John Wentz — Date: Month 11 Day 20 Year 02

RCRA NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

#4

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 256

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716)831-7428

5. Transporter 1 Company Name: GP-Tech Environmental

6. US EPA ID Number: NYD986980753

A. State Transporter's ID: 467572A

B. Transporter 1 Phone: 716- 873-7680

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
North Tonawanda WWTP
830 River Rd.
North Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716- 695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Liquid, NOS, (Cont. water)	1	TT	3079	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376
PO # 85001772

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information: In case of emergency call 1-800-225-3750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott — Signature: Linda Scott — Date: Month 11 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Scott — Signature: John Scott — Date: Month 11 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: [illegible] — Signature: — Date: Month 11 Day 20 Year 02

GENERATOR
TRANSPORTER
FACILITY
RCRA NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD980782577

Manifest Document No. NK 257

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
95 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 851- 7428

5. Transporter 1 Company Name: Or Tech Environmental Svcs.

6. US EPA ID Number: NYD986960753

A. State Transporter's ID 46757PA

B. Transporter 1 Phone 716- 873-7680

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
830 River Rd.
North Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone 716- 695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Liquid, NOS,(Cont. water)	1	TT	3079	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FM378
PO # 8500172

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information: In case of emergency call 1-800-225-6750

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott — Signature: Linda Scott — Date: Month 11 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID Roberts — Signature: David W. Roberts — Date: Month 11 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: JOHN WENTZ — Signature: John Wentz — Date: Month 11 Day 21 Year 02

RCRA NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980732577

Manifest Document No.: BK 258

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
Harper Station
95 Dewey Ave. Buffalo, NY 14214

4. Generator's Phone (716) 831- 7428

5. Transporter 1 Company Name: OP-Tech Environmental Svcs.

6. US EPA ID Number: NYD986980753

A. State Transporter's ID 46757PA

B. Transporter 1 Phone 716-873-7680

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
850 River Rd.
North Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: ~~Xxxx~~ 716-695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Liquid, NOS, (Cont. water)	1	TT	1156	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # ENM376
P O # 85001772

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information: In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott
Signature: Linda Scott
Date: Month 11 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID Roberts
Signature: David W. Roberts
Date: Month 11 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: MARY BEHNKE
Signature: Mary Behnke
Date: Month Day Year

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

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NON-HAZARDOUS WASTE MANIFEST

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 259

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 DeweyAve. Buffalo, 14214

Harper Station

4. Generator's Phone (716) 831-7428

5. Transporter 1 Company Name: OP-Tech Environmental Svcs.

6. US EPA ID Number: NYD936980753

A. State Transporter's ID 46757PA

B. Transporter 1 Phone 716-873-7680

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
830 River RD.
North Tonawanda, NY 1420

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-695- 8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Liquid, NOS, (Cont.water)	1	TT	769	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM375
PO # 85001772

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Agent for Niagara Mohawk Linda Scott	Linda Scott	11	22	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
David Roberts	David W. Roberts	11	22	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

RCRA NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD980732577

Manifest Document No. BK270

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
95 Dewey Avenue Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 Attn:M.Morrow

5. Transporter 1 Company Name: Op-Tech Environmental Svcs.

6. US EPA ID Number: NYD986980753

A. State Transporter's ID 4672TPA(NY)

B. Transporter 1 Phone 716-873-7830

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
330 River Rd.
North Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Waste NON RCRA Liquid,NOS(Cont. Water)	1	TT	3047	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FMM376

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information In case of emergency call 1-800-225-6750

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott

Signature: Linda Scott

Date: Month 12 Day 04 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID Roberts

Signature: David W. Roberts II

Date: Month 12 Day 04 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: MICHAEL LEHMAN

Signature:

Date: Month Day Year

RCRA NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: 6K271

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Avenue Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 Attn: M. Morrow

5. Transporter 1 Company Name: Op-Tech Environmental Svcs.

6. US EPA ID Number: NYD986980753

A. State Transporter's ID: 116757

B. Transporter 1 Phone: 716-873-7680

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
North Tonawanda WWTP
830 River St.
Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Waste NON RCRA Liquid, NOS (Cont. Water)	1	TT	717	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott
Signature: Linda Scott
Date: Month 12 Day 04 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID Roberts
Signature:
Date: Month 12 Day 04 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name:
Signature: Mary Bellucci
Date: Month Day Year

RCRA NON-HAZARDOUS WASTE

F14 Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK267

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harbor Station

4. Generator's Phone (716) 851-7428 Attn: M.Morrow

5. Transporter 1 Company Name: Op-Tech Environmental Svcs.

6. US EPA ID Number: NYD986980753

A. State Transporter's ID: 46757PA(NY)

B. Transporter 1 Phone: 716-873-7680

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
North Tonawanda WWTP
830 River Rd.
North Tonawanda, NY 14120

10. US EPA ID Number: N/A

E. State Facility's ID

F. Facility's Phone: 716-695-8560

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Waste NON RCRA liquid,NOS(Cont.water)	1	TI	471	G
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM576

G. Handling Codes for Wastes Listed Above
a.) T

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk
Linda Scott

Signature: Linda Scott

Date: Month 12 Day 6 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID Roberts

Signature:

Date: Month 12 Day 06 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month Day Year

RCRA NON-HAZARDOUS WASTE

F14 Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60648 (800) 621-5808

Rev. 3/95

Industrial Oil, Inc., Oriskany, NY

Non-Hazardous Liquid Wastewater

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

NON-HAZARDOUS WASTE MANIFEST

TO: BUFFALO (for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NYD 980782577	Manifest Document No. BK 209	2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 attn: M. Morrow

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
OP-Tech Environmental	NYD 986980753	B. Transporter 1 Phone 716-873-7680
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
Industrial Oil 120 Dry Rd. Oriskany, NY 13424	NYR 000005298	same F. Facility's Phone 315-736-4649

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Liquid, NOS (Cont. Water)	1	TT	4730	G
b.				
c.				
d.				

GENERATOR

RCRA NON-HAZARDOUS WASTE

F. Additional Descriptions for Materials Listed Above
Job # FNM 376
PO # 85001748

G. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Agent for Niagara Mohawk Linda Scott	Linda Scott	11	22	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
James Hammer	James Hammer	11	08	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
MARK Polisse	Mark Polisse	11	08	02

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CID Landfill, Chaffee, NY

Non-Hazardous Soil

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 821

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Avenue Buffalo, NY 14214

4. Generator's Phone (716) 831-7428 ATTN: M.Morrow

Harper Station

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.
6. US EPA ID Number: 9A-499
A. State Transporter's ID: NY 31[illegible]
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:
8. US EPA ID Number:
C. State Transporter's ID:
D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT Regulated Soil,NOS(Cont.soil)	1	DT	estimated 20	T
b.				
c.				
d.				

GENERATOR

RCRA NON-HAZARDOUS WASTE

F. Additional Descriptions for Materials Listed Above
Job # FNM376
PO # 85001746
Approval # CR 6541

G. Handling Codes for Wastes Listed Above
a.)L

16. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750

tan fr excavation

15. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk ~~Linda Scott~~ (s) James V. Hageman
Signature:
Date: Month 11 Day 19 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steve Harris
Signature:
Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
RF 9784

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature:
Date: Month 11 Day 14 Year 02

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97884
DATE: 11/14/2002
TIME: 08:54 -- 09:10

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOL61
TRAILER:
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK221
ROUTE: NA / Non App GRID: 60 / 461640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 73240 LBS
TARE: 27460 LBS
NET: 45780 LBS
TONS: 22.89

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		22.89

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER:

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 222

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 Attn: M. Morrow

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.
6. US EPA ID Number: 9A-499
A. State Transporter's ID: NY 4C98408
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name
8. US EPA ID Number
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030
10. US EPA ID Number: N/A
E. State Facility's ID: same
F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Solid, NOS (Cont. Soil)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-225-6750
Tank excavation

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott 11/14/02 James V. Hagerman
Signature:
Date: Month 11 Day 14 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dave Geil
Signature: Dave Geil
Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dave Geil DSS
Signature: Dave Geil DSS
Date: Month 11 Day 14 Year 02

FACILITY

19. Discrepancy Indication Space
Ref 9785

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name: Tom Shaffer Schaefer
Signature:
Date: Month 11 Day 14 Year 02

RCRA NON-HAZARDOUS WASTE

GENERATOR

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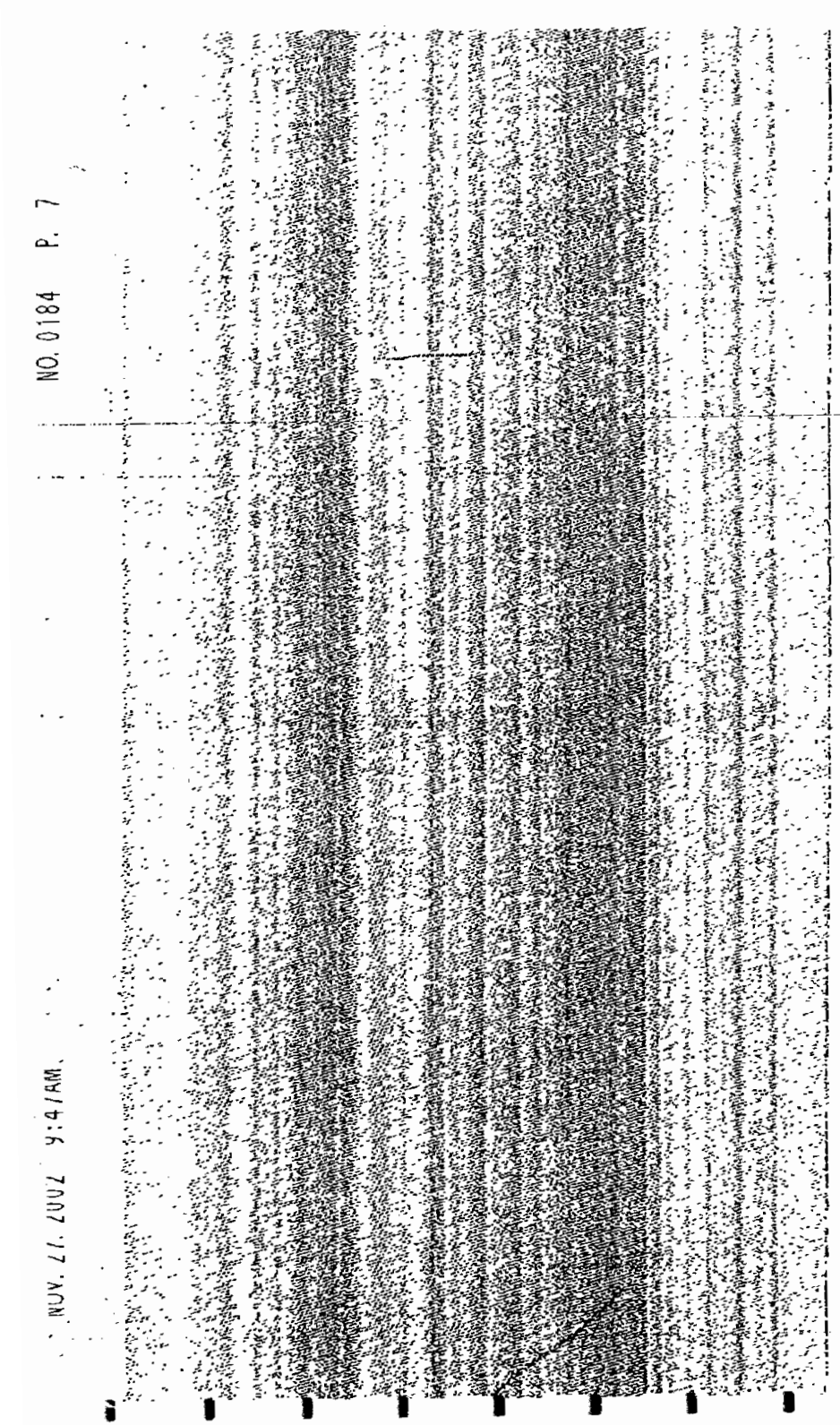
Rev. 3/9



WASTE MANAGEMENT

CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97895
DATE: 11/14/2002
TIME: 09:30 - 09:58

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOL82
TRAILER: T 17
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK222
ROUTE: NA / Non App GRID: 60 / 4G1640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 99640 LBS
TARE: 32940 LBS
NET: 66700 LBS
TONS: 33.35

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		33.35

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER: Dave Sel

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

RCRA NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	NYD980782577
Manifest Document No.	BK 223
2. Page 1 of	1
3. Generator's Name and Mailing Address	NIAGARA MOHAWK POWER CORPORATION 93 Dewey Ave. Buffalo, NY 14214 Harper Station
4. Generator's Phone	(716)831-7428 Attn: M. Morrow
5. Transporter 1 Company Name	Zoladz Const. Co. Inc.
6. US EPA ID Number	9A-499
A. State Transporter's ID	NY3197IPA
B. Transporter 1 Phone	716-937-6575
7. Transporter 2 Company Name	
8. US EPA ID Number	
C. State Transporter's ID	
D. Transporter 2 Phone	
9. Designated Facility Name and Site Address	CID Landfill 10860 Olean Rd. Chaffee, NY 14030
10. US EPA ID Number	N/A
E. State Facility's ID	same
F. Facility's Phone	716-496-5000

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Solid, NOS (Cont. soil)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above

Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above

a.) L

15. Special Handling Instructions and Additional Information In case of emergency call 1-800-225-6750

tank excavation

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
~~Linda Scott~~ Agent for Niagara Mohawk JW 11/14/02 James V. Hageman	[signature]	11	14	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Dan Fugle	Dan Fugle	11	14	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

Tkt 97890

20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
CID Chaffee Landfill	[signature]	11	14	02

WASTE MANAGEMENT
CHAFFEE LANDFILL
10380 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97890
DATE: 11/14/2002
TIME: 09:31 - 09:45

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOL32
TRAILER:
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK223
ROUTE: NA / Non App GRID: 60 / 461640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 64620 LBS
TARE: 26940 LBS
NET: 37680 LBS
TONS: 18.84

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		18.84

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER:

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD980782577

Manifest Document No. BK 224 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214
Attn: M. Morrow

Harper Station

4. Generator's Phone (716) 831-7428

5. Transporter 1 Company Name: Zoladz Const. Co. Inc. | 6. US EPA ID Number: 9A-499

A. State Transporter's ID: NYA938OEAV
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name | 8. US EPA ID Number

C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Cheffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same
F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Solid, NOS (Cont. soil)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
Tank excavation

In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk - Thomas Scott | Signature: [signature] | Date: Month 11 Day 14 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ANGELO MERLINO | Signature: [signature] | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy/Indication Space
HT 9897

20. Facility Owner or Operator: Certification of receipt of the hazardous materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name | Signature [signature] | Date: Month 11 Day 14 Year 02

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Rev. 5/97

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97897
DATE: 11/14/2002
TIME: 09:49 - 10:03

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: MALLACE-42
TRAILER:
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK224
ROUTE: NA / Non App GRID: 60 / 4G1640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 66820 LBS
TARE: 27860 LBS
NET: 38960 LBS
TONS: 19.48

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		19.48

IN OPERATOR: SUSAN . O U T OPERATOR: SUSAN

DRIVER: [signature]

NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NYD 980782577	Manifest Document No. BK 225	2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214
4. Generator's Phone (716) 831-7428 Attn: M. Morrow

Harper Station

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.
6. US EPA ID Number: NA-499
A. State Transporter's ID: NY5453348
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name
8. US EPA ID Number
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030
10. US EPA ID Number: N/A
E. State Facility's ID: same
F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RR RCRA, NON DOT, Regulated Solid, NOS (Cont. soil)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
tank excavation
In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Linda Scott Agent for Niagara Mohawk June V. Hageman
Signature
Date: Month 11 Day 14 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Richard Edwards JR
Signature
Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy/Alternative Space
RF 6981

20. Facility Owner or Operator: Certification of receipt of the materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name
Signature
Date: Month 11 Day 14 Year 02

NOV. 27. 2002 3:34PM NO. 0184 P. 9

WASTE MANAGEMENT

CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97901
DATE: 11/14/2002
TIME: 09:51 - 10:10

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: MALLARE-43
TRAILER:
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK225
ROUTE: NA / Non App GAID: 60 / 461640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 65100 LBS
TARE: 27980 LBS
NET: 37120 LBS
TONS: 18.56

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		18.56

IN OPERATOR: SUSAN OUT OPERATOR: SUSAN

DRIVER: Rick Edwards

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

RCRA NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD980782577

Manifest Document No. BK 226

2. Page 1 of

3. Generator's Name and Mailing Address

NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716)831-7428 Attn: M. Morrow

5. Transporter 1 Company Name: Zoladz Cinst. Co. Inc.
6. US EPA ID Number: 9A-499

A. State Transporter's ID: NY3P69PA
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:
8. US EPA ID Number:

C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address

CID Landfill
10860 Olean Rd.
Chaffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same
F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Solid, NOS, (Cont. soil)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above

Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above

a.) L

15. Special Handling Instructions and Additional Information

Tank excavation

In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk ~~Linda Scott~~ JOB 11/14/02 James Vitagenan
Signature: [signature]
Date: Month 11 Day 14 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michelle L West
Signature: [signature]
Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

TKT 97902

20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: CID Chaffee Landfill
Signature: [signature]
Date: 11/14/02

NOV. 0184 P. 10

WASTE MANAGEMENT

CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97902
DATE: 11/14/2002
TIME: 10:00 - 10:14

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOLB
TRAILER:
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BX226
ROUTE: NA / Non App GRID: 60 / 461640
P.O.: 05001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 59860 LBS
TARE: 27120 LBS
NET: 32740 LBS
TONS: 16.37

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		16.37

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER: M. West

NOV. 21. 2002 2:01PM

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD980782577

Manifest Document No. BK 227

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214
4. Generator's Phone (716) 831-7428 Attn: M. Morrow

Harper Station

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.
6. US EPA ID Number: 9A-499
A. State Transporter's ID: NYAC 983341
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:
8. US EPA ID Number:
C. State Transporter's ID:
D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030
10. US EPA ID Number: N/A
E. State Facility's ID: same
F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON, RCRA, NON DOT Regulated Soild, NOS, (Cont. sail)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
tank excavation
In case of ~~emergency~~ emergency call 1-800-225-6750

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott 11/4/02 James V. Hagerman
Signature:
Date: Month 11 Day 14 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: wheeler
Signature:
Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

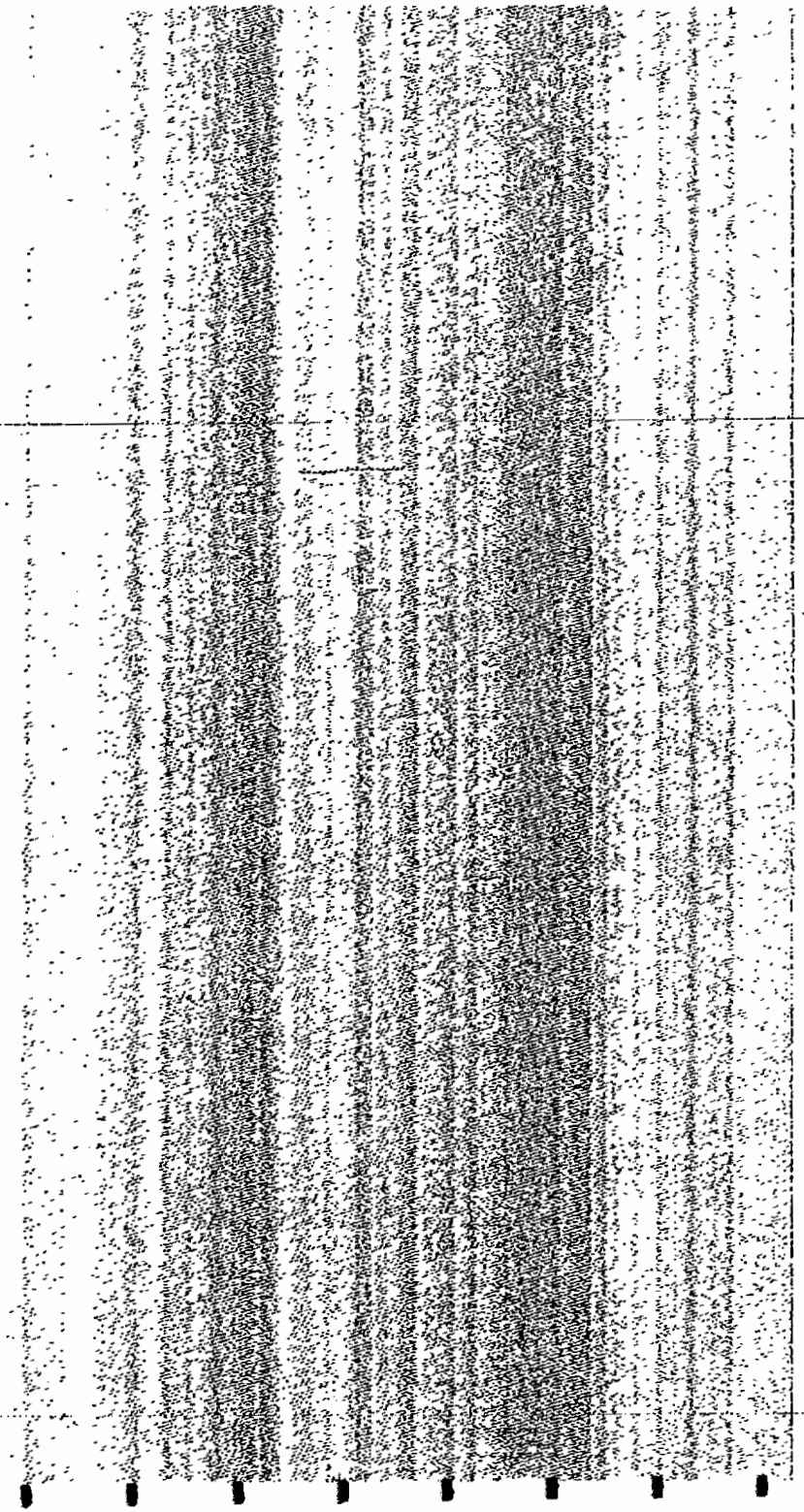
19. Discrepancy Indication Space
RF 9794

20. Facility Owner or Operator: Certification of receipt of the materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name: Christopher Schaefer
Signature:
Date: Month 11 Day 14 Year 02

RCRA NON-HAZARDOUS WASTE

F14 Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808

Rev. 3/95



WASTE MANAGEMENT

CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97904
DATE: 11/14/2002
TIME: 10:02 - 10:17

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZDL59
TRAILER: T 1
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK227
ROUTE: NA / Non App GRID: 60 / 461640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 96880 LBS
TARE: 33960 LBS
NET: 62920 LBS
TONS: 31.46

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		31.46

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER: [signature]

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 228

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 Attn: M. Morrow

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.

6. US EPA ID Number: 9A-499

A. State Transporter's ID: NY3195994

B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Soil, NOS (Cont. soil)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376
PO # 85001746
Approval # CR 6541

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
tank excavation
In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for Niagara Mohawk Linda Scott/JD 11/14/02 James V. Hagerar
Signature:
Date: Month 11 Day 14 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MARK KAUSCHENGER
Signature:
Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
RF 9918

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest, except as noted in item 19.

Printed/Typed Name:
Signature:
Date: Month 11 Day 14 Year 02

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97912
DATE: 11/14/2002
TIME: 10:21 - 10:40

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOL100
TRAILER:
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BR228
ROUTE: NA / Non App GRID: 60 / 461640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 77920 LBS
TARE: 27920 LBS
NET: 50000 LBS
TONS: 25

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		25

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER: Mark

WASTE MANIFEST

NYD980782577

Document No. BK 229 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831- 7428 Attn: M. Morrow

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.
6. US EPA ID Number: 9A-499
A. State Transporter's ID: NY AA9867Z
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:
8. US EPA ID Number:
C. State Transporter's ID:
D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030
10. US EPA ID Number: N/A
E. State Facility's ID: same
F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT Regulated Soil, NOS(Cont. soil)	1	DT	estimated 20	T
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above
Job# FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
Tank Excavation — In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Linda Scott 11/14/02 James V. Torgerson (Agent for Niagara Mohawk) Signature: [signature] Date: Month 11 Day 14 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HYDE Signature: Hyde Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Tk 9919

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name: Tom Chaffee Signature: [signature] Date: Month 11 Day 14 Year 02

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97919
DATE: 11/14/2002
TIME: 10:49 - 11:14

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: LCA33
TRAILER: T 13
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK229
ROUTE: NA / Non App GRID: 60 / 4G1640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 90320 LBS
TARE: 34700 LBS
NET: 55620 LBS
TONS: 27.81

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		27.81

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER:

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

RCRA NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 230

2. Page 1 of 1

3. Generator's Name and Mailing Address:
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716)831-7428 Attn: M. Morrow

GENERATOR

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.
6. US EPA ID Number: 9A-499

A. State Transporter's ID: NY AC984408
B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:
8. US EPA ID Number:

C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same
F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Soil, NOS (Cont. soil)	1	DT	estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above:
Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above: a.) L

15. Special Handling Instructions and Additional Information: Tank Excavation
In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Month	Day	Year
Agent for Niagara Mohawk ~~Linda Scott~~ James V. Hageman	[signature]	11	14	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DAVE Geil	Dave Geil	11	14	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space: TKT# 97938

20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.
Waste Management Chaffee Landfill

Printed/Typed Name	Signature	Month	Day	Year
Jennifer Chapman	Jennifer Chapman	11	14	02

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97938
DATE: 11/14/2002
TIME: 13:07 - 13:20

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOL82
TRAILER: T 17
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK230
ROUTE: NA / Non App GRID: 60 / 451640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION/JOB# FNM376

GROSS: 100540 LBS
TARE: 32740 LBS
NET: 67800 LBS
TONS: 33.9

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		33.9

IN OPERATOR: JENNY

OUT OPERATOR: JENNY

DRIVER: Dave Bel

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 231

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 Attn: M. Morrow

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.

6. US EPA ID Number: 9A-499

A. State Transporter's ID: NY AC9834

B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Soil, NOS (Cont. soil)	1	DT	Estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376 Approval # CR 6541
PO # 85001746

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
Tank Excavation
In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Linda Scott / Agent for Niagara Mohawk / for James V. Hageman — Signature — Date: Month 11 Day 14 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: W Healer — Signature — Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
TK# 97939

20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name: Jennifer Chapman for Wm Chaffee Landfill — Signature: Jennifer Chapman — Date: Month 11 Day 14 Year 02

RCRA NON-HAZARDOUS WASTE

GENERATOR

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Rev. 5/95

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97939
DATE: 11/14/2002
TIME: 13:14 - 13:32

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOL59
TRAILER: T 1
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK231
ROUTE: NA / Non App GRID: 60 / 4G1640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION/JOB# FNM376

GROSS: 88840 LBS
TARE: 33780 LBS
NET: 55060 LBS
TONS: 27.53

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		27.53

IN OPERATOR: JENNY

OUT OPERATOR: JENNY

DRIVER:

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK232

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428 Attn: M. Morrow

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.

6. US EPA ID Number: 9A-499

A. State Transporter's ID: NY AA98672

B. Transporter 1 Phone: 716-937-6575

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated Soil, NOS (Cont. soil)	1	DT	Estimated 20	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above
Job # FNM376
PO # 85001746
Approval # CR 6541

G. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
TANK EXCAVATION
In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Linda Scott Agent for Niagara Mohawk — Signature: James V. Hagelman — Date: Month 11 Day 14 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: H Yde — Signature — Date: Month 11 Day 14 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the above materials covered by this manifest, except as noted in item 19.

Printed/Typed Name — Signature — Date: Month 11 Day 14 Year 02

GENERATOR
TRANSPORTER
FACILITY
RCRA NON-HAZARDOUS WASTE

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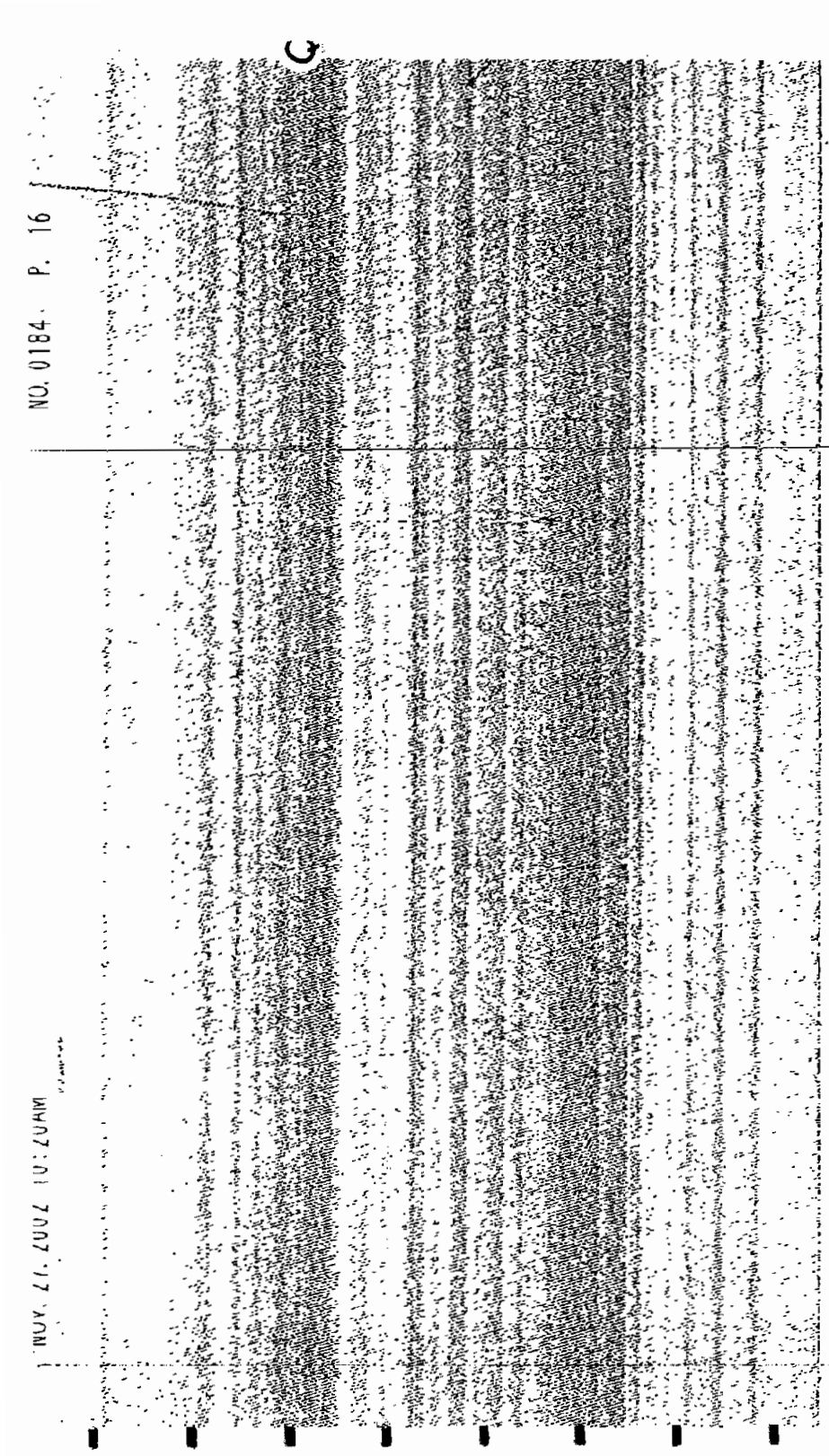

WASTE MANAGEMENT

CHAFFEE LANDFILL
10880 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 97958
DATE: 11/14/2002
TIME: 14:24 - 14:51

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: LCA33
TRAILER: T 13
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK232
ROUTE: NA / Non App GRID: 60 / 461640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 80200 LBS
TARE: 34500 LBS
NET: 45700 LBS
TONS: 22.85

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		22.85

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER:

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD980782577

Manifest Document No.: BK 233

2. Page 1 of 1

3. Generator's Name and Mailing Address
NIAGARA MOHAWK POWER CORPORATION
93 Dewey Ave. Buffalo, NY 14214

Harper Station

4. Generator's Phone (716) 831-7428

5. Transporter 1 Company Name: Zoladz Const. Co. Inc.

6. US EPA ID Number: 9A-499

A. State Transporter's ID

B. Transporter 1 Phone: 716-937-6576

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID: AC98608

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CID Landfill
10860 Olean Rd.
Chaffee, NY 14030

10. US EPA ID Number: N/A

E. State Facility's ID: same

F. Facility's Phone: 716-496-5000

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA, NON DOT, Regulated solid, NOS (contaminated soil)	1	DT	32.00	T
b.				
c.				
d.				

F. Additional Descriptions for Materials Listed Above

Job # FNM376

Approval # CR 6541

PO # 85001746

25cycle transfer site

G. Handling Codes for Wastes Listed Above: L

15. Special Handling Instructions and Additional Information

In case of emergency call 1-800-225-6750

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for NIAGARA Mohawk Linda Scott — Signature — Date: Month 11 Day 25 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: GARY RYSZKIEWICZ — Signature — Date: Month 11 Day 25 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

Not Rec'd

20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month 11 Day 25 Year 02

RCRA NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

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WASTE MANAGEMENT
CHAFFEE LANDFILL
10660 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 98661
DATE: 11/25/2002
TIME: 10:20 - 10:51

CUSTOMER: 174-1003 /NIAGARA MOHAWK (CR6541)
GENERATOR: /Non App
COUNTY: NIAGARA / NIAGARA
TRUCK: ZOL72
TRAILER: T 17
PROF #: CR6541 / CONT. SOIL - COVER
MANIFEST: BK233
ROUTE: NA / Non App GRID: 60 / 461640
P.O.: 85001746
CUYDS: 0
COMMENT: HARPER STATION

GROSS: 82880 LBS
TARE: 33920 LBS
NET: 48960 LBS
TONS: 24.48

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		24.48

IN OPERATOR: SUSAN

OUT OPERATOR: SUSAN

DRIVER: