

ATTACHMENT 1

M. WALLACE AND SON, INC., SCRAPYARD COBLESKILL, NEW YORK 1992 INTERIM REMEDIAL MEASURES

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A. SITE BACKGROUND INFORMATION

The M. Wallace and Son, Inc., Scrapyard ("the site") is located at the intersection of New York State Route 10 (Elm Street) and West Street in the Village of Cobleskill, Schoharie County, New York. The location of the site is shown on Figure 1. The site is approximately 6.6 acres in size and is bordered to the west by West Street, to the north by a high school athletic field, to the east by several apartments and residential housing, and to the south by Route 10. A site map showing the location of the features at the site is presented as Figure 2.

The site is located near the base of a ridge which extends to an elevation of over 1600 feet and forms the northern boundary of a broad, shallow valley trending towards the northeast. A quarry pond and a quarry pond outlet channel are the only surface water features present at the site. The quarry pond covers an area of approximately 1.3 acres and ranges in depth between 8 and 20 feet (average depth of approximately 15 feet). See Figure 3 for approximate water depths throughout the pond. The quarry pond does not have a water quality classification in accordance with the standards for surface water quality and purity contained in Title 6, Official Compilation of Codes, Rules and Regulations of the State of New York (6NYCRR) Part 701. Flow sources into the pond include direct precipitation and surface water runoff from the upper section of the site which drains southward into the pond. The pond discharges into a small outlet channel which flows into a 3-foot by 5-foot rectangular concrete culvert on the north side of Route 10. The outlet channel re-emerges on the south side of Route 10 and flows for a distance of approximately 75 feet prior to entering a 33-inch by 51-inch elliptical CMP culvert beneath the Delaware and Hudson Railroad track embankment. The outlet channel re-emerges on the south side of the embankment and flows for a short distance prior to entering a 18-inch below ground culvert which combines with storm water flow from a parking lot on a neighboring property. Storm water flow from the parking lot eventually discharges into Cobleskill Creek. Mapping of the city of Cobleskill storm water drainage system can be obtained from Lamont, Von DeValk Engineers, P.C., located in Cobleskill, New York.

The M. Wallace and Son, Inc. Scrapyard is an active salvage business which recovers and resells mechanical parts and materials from various equipment or other items. Between 1978 and the mid-1980s, PCB transformers were purchased by the site operator and transported to the scrapyard. The transformers were disassembled within an electrical equipment gut area to recover copper components which were then resold. During the scrapping operations, transformer dielectric fluid containing polychlorinated biphenyls (PCBs) may have been released from the transformers to the ground surface.

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In June 1983, personnel from the New York State Department of Environmental Conservation (NYSDEC) Bureau of Enforcement and Criminal Investigation (BECI) collected samples of soil in the electrical equipment gut area, sediment and water from the quarry pond, and sediment from the quarry pond outlet channel. Results for the samples collected by BECI indicated that PCBs were present in soils, sediment, and surface water at the site. In response to the BECI sampling results, the Schoharie County Department of Health (SCDH) sampled eight household ground-water supply wells near the site for the presence of purgeable hydrocarbons, purgeable aromatics, PCBs, and metals. Results for the SCDH samples indicated that purgeable hydrocarbons, purgeable aromatics, and PCBs were not detected in off-site wells. Due to the presence of PCBs identified at the site by the BECI sampling, the site is currently listed by the NYSDEC as a Class 2 Inactive Hazardous Waste Site (site # 448003). In response to a lawsuit filed by the State of New York Attorney General, Niagara Mohawk Power Corporation (NMPC) and M. Wallace and Son, Inc., have entered into a Interim Consent Order (case no. 85-CV-219) to address the presence of PCBs and other chemical constituents in environmental media at the site.

In 1989, NMPC performed an initial investigation of soils, sediments, surface water, and ground water at the site in accordance with a NYSDEC-approved work plan. A report summarizing the investigation was submitted to the State of New York Attorney General's office and the NYSDEC in June 1990.

A summary of the results from the investigation is presented below.

Soil Sampling

Analytical results indicated that PCB concentrations ranged between non-detect and 2,100 parts per million (ppm) in the surface soil samples. The highest concentration of both PCBs and oil and grease were found in the vicinity of the electrical equipment gut area, where visibly-stained soils were observed. Volatile and semi-volatile organics, pesticides, and cyanide were not detected in the surface soil sample which was analyzed for the complete set of HSL parameters.

Sediment Sampling

PCB concentrations ranged from 0.23 ppm to 28 ppm in sediment in the quarry pond. Metals detected in the sediment samples include aluminum, arsenic, barium, calcium, chromium, copper, iron, lead, magnesium, manganese, nickel, silver, sodium, vanadium, and zinc.

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Surface Water Sampling

PCB concentrations in the surface water samples ranged from 0.120 parts per billion (ppb) to 0.720 ppb. No volatile or semi-volatile organic compounds were detected in any of the surface water samples. Metals detected include calcium, magnesium, manganese, sodium, and zinc.

Additional geological and analytical data, including boring logs and ground-water elevations (not part of the contract), are available from Blasland & Bouck Engineers, P.C. Please contact Mr. Frederick J. Kirschenheiter, P.E., of Blasland & Bouck at (315) 446-9120 to obtain this information.

Based on the results of the initial site investigation, NMPC prepared an Interim Remedial Measures (IRMs) Work Plan dated March 1991 to address the presence of PCBs in the following site areas:

1. Electrical equipment gut area;
2. Quarry pond sediments; and
3. Quarry pond outlet sediments.

Following approval of the March 1991 IRM Work Plan, NMPC retained Chemical Waste Management, Inc. - Environmental Remedial Action Division (CWM-ENRAC) to implement the following IRMs in August 1991:

1. Excavation and disposal of approximately 2,900 cubic yards of soil in the electrical equipment gut area.
2. Removal and disposal of sediment from the section of the quarry pond outlet channel located south of Route 10 to the northern side of the railroad embankment.
3. Underwater reconnaissance of the quarry pond to determine the extent of sediments which may potentially require removal. Based on sediment depth measurements performed with a calibrated probe, sediments on the bottom of the quarry pond ranged between 1 and 4 feet in depth. During the underwater survey of the quarry pond, the presence of various debris was identified at the bottom of the pond including electrical wire spools, transformers, and 55-gallon drums. The condition and contents of the transformers and drums are unknown. Figure 4 presents the locations of the debris observed in the quarry pond. A sediment sampling program was also conducted which consisted of collecting sediment grab samples from 97 locations within the quarry pond. Forty-four of the sediment samples were analyzed for PCBs. The analytical results indicated that PCBs were

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present in the sediments at concentrations ranging between non-detect and 100 ppm.

4. Collection of ground-water samples for PCB analysis from the four existing monitoring wells at the site. PCBs were not detected in any of the samples collected.

B. GENERAL INFORMATION

The scope of work presented herein presents a task-by-task description of the debris removal activities in and adjacent to the quarry pond to be performed at the M. Wallace and Son, Inc. Scrapyard including mobilization/demobilization, site preparation, two alternatives for removal of debris from the pond, the construction of sediment curtains at the pond outlet, selected pond sediment removal (contingent), removal of subsurface debris adjacent to the pond, backfilling of these areas, and waste characterization, transportation, and disposal. Please review the scope of each work task and subtask to provide a detailed technical approach and a cost proposal to accomplish the debris removal activities. Please note that you are instructed to Bid the work for each of the following alternatives as described herein:

Alternative 1 (Primary Alternative) - Debris Removal After Draining of the Quarry Pond; and

Alternative 2 (Backup Alternative) - Debris Removal Without Draining the Quarry Pond.

Please submit the requested documentation called for below and complete the Bid tables provided in Attachment 2. We request that sufficient detail be provided for the required Bid submittals to allow us to fully assess each Bid for completeness and conformance with the Scope of Work.

PRE-BID MEETING

A pre-bid meeting will be held at the site at 11:00 a.m. on October 7, 1992 to allow the bidders to examine the site and to satisfy himself/herself as to the conditions under which the work will be performed. Contractor's questions during the pre-bid meeting will be addressed in a follow-up Addendum. Only Contractors that attend the pre-bid meeting will be allowed to bid the project.

Schedule

NMPC desires to have the debris removal activities completed by December 18, 1992. This schedule is based on project award by

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October 20, 1992, one week for mobilization, two weeks for subsurface debris removal in areas adjacent to the pond and draining of the pond 15 feet below current water elevation or at the Engineer's discretion, five weeks for debris removal from the pond, and one week for demobilization and off-site transport of wastes.

A hydraulic model of the pond was used to determine the anticipated time required to remove water from the pond. The model used a continuous pumping rate of 400 gallons per minute (gpm) and a hydraulic conductivity value of the surrounding bedrock of 10^{-3} . This correlates to between 10 and 12 days to pump the water from the pond. Based on the model, continued pumping at a rate of up to 100 gpm would be required to maintain the water level in the pond. Please note that these are approximate values and that the Contractor must be prepared to accommodate a longer time period to drain the pond and higher pumping rates to maintain the dewatered condition in the pond.

Engineer's Role

Blasland & Bouck has been retained by NMPC to provide the following engineering services during the interim remedial measures:

- Provide full-time on-site observation services for duration of the project to document daily activities; quantities of materials removed, generated, used, and transported off-site; and document amount of men, materials, and equipment used;
- Review of Contractor submittals;
- Conduct sampling and analysis activities pursuant to the temporary SPDES discharge permit conditions; and
- Conduct perimeter air monitoring.

Bid Contents

The Contractor shall submit a detailed written plan for performing the work along with a cost for each work activity entered in the appropriate space on the Bid Form presented as Attachment 2 for both Alternatives 1 and 2. Alternatives to the attached Scope of Work may be included, but you are still required to complete the pricing sheets based upon the outlined Scope of Work. Your submitted proposal shall also specify hourly rates and markup figures on subcontractors and related materials. The Contractor must provide with the Bid a detailed cost breakdown for each lump sum

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task and unit price. This cost breakdown must include the number of men and their job descriptions and the anticipated hours of each required to complete the tasks; list of equipment and daily/weekly/monthly cost of each type of equipment proposed for use on each task; and the type, amount, and cost of materials for each task.

The Contractor shall identify in their Bid submittal, in sufficient detail, the following:

- Any subcontractors, teaming arrangements, or joint venture to be used on the project. This shall include providing their qualifications and defining the project tasks to be undertaken by others;
- The origin of identified project staff (local versus out-of-town areas);
- Project team members, project management matrix chart, qualifications (i.e., resumes), breakdown of disciplines (management, site health and safety officers, operators, technicians/laborers, etc). The Contractor must also designate the on-site Project Manager responsible for making required decisions and the primary contact for NMPC and Blasland & Bouck during the performance of all work activities;
- A project schedule based upon currently available site information and the Contractor's proposed approach to accomplish this Scope of Work. The schedule should correspond to the various identified task elements in this Bid request for both alternatives;
- A listing of various Contractor equipment anticipated to be used on this project. The availability of additional/back-up equipment should be discussed, as should any corresponding costs. Please specify whether the equipment is owned by the Contractor or if it needs to be leased for the project; and
- The anticipated hours of operation for the staff. The Contractor's hours of operation will constitute a normal or typical work day (i.e., 8-hour, 10-hour, 12-hour period, etc.), and a normal work week (5 days/week). Additional information should be included for any premium time, holiday time, etc., for personnel and equipment. Please supply tables of labor rates and equipment rates for all possible work situations.

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In addition, the Contractor shall submit the following items with the Bid. Details regarding each required submittal are presented in each work task description, as appropriate.

- A decontamination plan for equipment, materials, and personnel;
- A site management plan including work areas, reporting responsibilities, etc.;
- Detailed drawings for temporary staging and storage areas;
- Detailed schematic drawings depicting water treatment system (Alternative 1), including pumping system, piping, treatment vessels, controls, etc.;
- The Contractor's plan for system monitoring of the water treatment system performance (except SPDES discharge monitoring) (Alternative 1);
- Sediment curtain design for the quarry pond outlet channel;
- The designated hazardous and non-hazardous waste haulers, hazardous and non-hazardous waste disposal facilities to be used, and the transportation routes from the site to the disposal facilities;
- A contingency plan for responding to spills and water treatment system shutdown; and
- A dust control plan.

Within one week of award of the contract for this project, the Contractor shall submit the following items to NMPC and Blasland & Bouck:

- A written Health and Safety Plan prepared in accordance with 40 CFR 1910.120; and
- Additional submittals described under the work tasks below.
- A performance bond in the amount of \$15,000 in order to use West Street for heavy truck traffic. The performance bond is required by the village of Cobleskill.

C. WORK TASKS

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Task 1 - Mobilization (Alternatives 1 and 2)

The Contractor shall conduct his operation in a safe manner at all times and shall take all necessary precautions for the health and safety of all on-site employees in compliance with all applicable provisions of federal (40 CFR 1910.120), state, local safety/health laws; and the site-specific Health and Safety Plan (HASP) to be prepared for the project. All on-site personnel must have OSHA 40-Hour Hazardous Waste Training (40 CFR 1910.120) and the corresponding 8-Hour Refresher Course Update. Copies of training certificates will be supplied to NMPC upon acceptance of Bid. The Contractor is directly responsible for the health and welfare of his staff and subcontractors.

The Contractor will be responsible for providing NMPC and Blasland & Bouck with a site-specific HASP as required by applicable OSHA regulations for all operations to be performed at the site. The Contractor shall produce the site-specific HASP to govern their personnel and any of their subcontractors' work efforts. The Contractor will be responsible for conducting medical monitoring including PCB levels in the blood for all on-site employees both pre- and post-remediation effort. The HASP must, at a minimum, contain the following:

1. Name key personnel and alternates responsible for site safety.
2. Describe the risks associated with each operation to be conducted at the site.
3. Confirm that personnel are adequately trained to perform their job responsibilities and to handle the specific hazardous situations they may encounter.
4. Describe the protective clothing and equipment to be worn by personnel during various site operations.
5. Describe the program for periodic air monitoring, if necessary.
6. Describe the actions to be taken to mitigate existing hazards.
7. Define site control measures (e.g., site security) and include a site map.
8. Establish decontamination procedures for personnel and equipment.

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9. Delineate the work zone, decontamination zone, and support zone and describe the activities allowed in each zone.

The Contractor will supply all labor and equipment to be used for this project. The Contractor shall include a list of all equipment projected to be utilized for the project with the Bid. The Contractor will also supply office, equipment storage, operations, and shower trailers, as required, at the site for the duration of the project. In addition, the Contractor shall provide a 30-foot trailer to accommodate the on-site engineering staff (Blasland & Bouck), as well as to accommodate NMPC officials, NYSDOL, and NYSDEC officials.

Along with placement of on-site trailers, the Contractor will be responsible for acquiring all necessary City of Cobleskill, Schoharie County, or New York State permits pertaining to utility hook-ups (i.e., water, sewer, etc.). The Contractor will also be responsible for establishing the utility hook-ups for water, electric, telephone, etc., for on-site trailers and facilities. NMPC has installed 220 volt electrical service at the site and telephone service is also available at the site.

Task 2 - Site Preparation (Alternatives 1 and 2)

Contractor shall provide an overall sequential narrative and site sketch layout of the proposed project approach with the Bid. This shall include traffic movement patterns; site grading (if required); decontamination areas; trailer locations; soil and debris handling, staging, and temporary storage areas; container storage; haul roads; utility routing; and other related concerns.

The site preparation narrative shall address both possible alternatives (Alternatives 1 and 2) as discussed above.

Site preparation activities will consist of clearing and grubbing as required to prepare the site for the removal activities. In addition, the Contractor shall construct the following staging/storage areas:

- A bermed and lined staging area for the placement of electrical equipment removed from the quarry pond and areas adjacent to the pond;
- A bermed and lined staging area for the placement of non-electrical equipment debris removed from the pond and areas adjacent to the pond;

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- A bermed and lined storage area for soils/sediments removed during the removal activities: and
- A bermed and lined temporary storage area, if necessary, for debris removed from the staging areas prior to off-site transport.

The staging/storage areas shall be constructed to contain any spills that may occur using impervious materials. The staging/storage areas shall be constructed to prevent surface water run-on and shall be sheltered from precipitation. The approximate locations of these areas shall be shown on a site map. The Contractor shall submit detailed drawings of each of the staging/storage areas listed above with the Bid. The detailed drawings shall include the sizes of the staging/storage areas, materials of construction, type of puncture-resistant lining, and provisions for spill containment/collection. The Contractor shall also provide details on how he/she intends on dismantling, testing, and disposing of the staging/storage facilities.

The Contractor shall submit a decontamination plan identifying the appropriate procedures and methods that will be employed to properly decontaminate project-related equipment, including expendable personal protective equipment (PPE), trucks, hand tools, etc.

The plan must address the generation, collection, and handling of solids, liquids, PPE, and other related wastes generated by decontamination activities. Provisions must also be made to prevent any off-site tracking of materials (e.g., onto public roadways, etc).

The Contractor will be responsible for the exact location and stakeout of all aboveground and underground public and private utilities. A recent site survey showing the approximate location of the utilities will be provided to the selected Contractor. The Contractor will also be responsible for any utility relocation that may be needed to perform the work. All utility services to the site will need to be maintained throughout the duration of the project; therefore, relocation of interfering utility lines, if any, will need to be relocated and service restored promptly at no additional cost to NMPC. If the Contractor damages existing utilities or structures during the work, the Contractor shall fully repair such damages at no additional cost to NMPC.

Task 3 - Site Security (Alternatives 1 and 2)

The Contractor shall submit a plan with the Bid identifying the procedures and methods to prevent unauthorized persons from entering the site

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throughout the project. This security service shall be based on providing a minimum of one person per shift (e.g., 8-hour, 12-hour) during off-hours (e.g., 6 p.m. to 7 a.m.) and 24 hours per day on weekends, 7 days a week, throughout the duration of the project (from Contractor mobilization through demobilization).

Task 4 - Debris Removal from Fill Areas Adjacent to Quarry Pond

Certain areas adjacent to the quarry pond have been backfilled with soil and debris. Under this task, the Contractor shall excavate these areas and remove subsurface debris. Based on visual assessments, the on-site Engineer will determine the extent to which the excavation and debris removal activities should be performed.

Soil generated during the excavation and debris removal activities shall be segregated from the debris and placed into a separate soil storage area pending off-site disposal. Debris that is excavated/removed shall be staged as described below:

- Electrical equipment (i.e., transformer, capacitors, switchgear, etc.) shall be placed into the electrical equipment staging area and wiped clean to remove soil. The on-site Engineer will inspect and document the electrical equipment placed into the staging area. The Contractor shall then place electrical equipment into the on-site storage area. Any overpacking or liquid draining of electrical equipment shall take place in the staging area.
- Non-electrical equipment debris (i.e., drums, spools, steel, etc.) shall be placed into the non-electrical equipment debris staging area and wiped clean to remove soil. The on-site Engineer will inspect and document the debris placed into this staging area. The Contractor shall then place this debris into the on-site storage area. Any overpacking or liquid transfers from drums shall be conducted in this staging area.

The Contractor shall submit with the Bid a detailed plan to accomplish the debris removal from the adjacent fill areas. This plan shall include procedures, equipment, and methods to be used to excavate, stage, and store debris and soil and backfill the excavated areas, if required.

The Contractor will provide adequate soil storage to accommodate the accumulation of excavated soils. The excavated soils shall be protected from precipitation and the effect of wind to limit dust emissions. Dust control methods are the responsibility of the Contractor. *& during handling!*

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The Contractor will be responsible for providing measures to minimize the generation of dust during site work. The Contractor shall submit a dust control plan which shall include:

- Overall dust control methods (wetting, foams, coverings, surfactants);
- Dust control measures to be in place during off-hours including the soil storage area; and
- Air monitoring procedures, action levels, and contingency measures.

Upon completion of the fill area excavation/removal activities, the excavated areas shall be backfilled to surrounding grade elevation, if required, in order to conduct debris removal activities from the quarry pond. Backfilling shall be accomplished by the use of clean backfill materials. The Contractor shall identify the source of the backfill material with the Bid. The Contractor will be responsible for weighing the backfill material at an approved scale prior to its use on-site.

The backfill material shall consist of soil materials with no cobbles larger than 3 inches in greatest dimension. The soil shall also be free of sticks, roots, refuse, or any other deleterious substances and shall have the following gradation by weight:

<u>% Passing</u>	<u>Sieve</u>
100	3"
20 - 80	#4
10 - 40	#40
0 - 10	#200

The Contractor shall submit particle size analysis test reports and test results for laboratory compaction characteristics of the soil using modified effort, ASTM D-1557-91. In addition, one soil sample of the backfill material shall be analyzed for Target Compound List (TCL) and Target Analyte List (TAL) parameters using United States Environmental Protection Agency (USEPA) Contract Laboratory Program protocols using an NMPC-approved laboratory. These results shall be submitted to NMPC and Blasland & Bouck a minimum of two weeks prior to bringing such materials on-site.

Prior to initiating backfill activities, the excavations shall be lined with 20 mil polyethylene sheeting. The soil backfill material shall be placed and

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compacted in lifts of 1 foot in thickness. The moisture content of the soil shall be maintained within 2 percent of the optimum moisture content and the soil shall be compacted to a density greater than 90 percent of the maximum dry density as determined by testing in accordance with ASTM D-1557. The in-place moisture and density of the soil shall be verified by an independent laboratory (hired by the Contractor) at a frequency of 1 test per 500 square feet per lift, in accordance with ASTM D-2922.

Task 5 - Debris Removal from Quarry Pond

Two alternatives for removing the debris from the bottom of the quarry pond are under consideration. The preferred alternative is draining the quarry pond prior to debris removal. The Contractor shall submit separate plans for removal of the quarry pond debris using each alternative. The plans shall specify the equipment, procedures, methods, and materials to be used to accomplish the debris removal under each alternative. The plans shall be of sufficient detail to allow a comprehensive review of the Contractor's proposed debris removal plans. Additional requirements for the debris removal plans are described below. Common elements to each of the two alternatives under this task are presented below.

Under each alternative, the Contractor shall construct the bermed staging and storage areas discussed in detail under Task 2 - Site Preparation. Debris that is removed from the quarry pond shall be staged as described below.

- Electrical equipment (i.e., transformer, capacitors, switchgear, etc.) shall be placed into the electrical equipment staging area and wiped clean to remove sediment. The on-site Engineer will inspect and document the electrical equipment placed into the staging area. The Contractor shall then place electrical equipment into the on-site storage area. Any overpacking or liquid draining of electrical equipment shall take place in the staging area.
- Non-electrical equipment debris (i.e., drums, spools, steel, etc.) shall be placed into the non-electrical equipment debris staging area and wiped clean to remove sediment. The on-site Engineer will inspect and document the debris placed into this staging area. The Contractor shall then place this debris into the on-site storage area. Any overpacking or liquid transfers from drums shall be conducted in this staging area.

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dewatering pond &
Prior to removing debris from the pond, the Contractor shall construct sediment curtains in the quarry pond outlet channel. The Contractor shall be responsible for the maintenance of the sediment curtains throughout the project and the disposal of the curtains. The Contractor shall install a minimum of two sediment curtains in the quarry pond outlet channel, each consisting of the following:

- Filter fabric supported above the water level by wire cable and secured to the bottom of the entire channel by flexible chains;
- Metal pole supports for the wire cables and flexible chains to be installed on each side of the channel; and
- Reinforced concrete bases to support the metal poles.

The Contractor's design for the sediment curtains shall include the type and performance characteristics of the filter fabric, wire and chain sizes and strengths, specifications for the metal poles and reinforced concrete bases, and drawings showing all components of the sediment curtains.

Specifics related to each of the two alternatives for debris removal from the quarry pond are presented below.

Alternative 1 (Primary Alternative) - Debris Removal After Draining the Quarry Pond

Under this alternative, the Contractor shall drain the pond of water to a depth of 15 feet below the current water level, or to a depth specified by the Engineer, to expose debris on the pond bottom. The pond water shall be removed by the use of submersible pumps and shall be conducted in such a manner as to minimize the occurrence of sediment suspension. The water shall be treated using a mobile on-site water treatment system consisting of the following components, each sized for a maximum flow of 400 gpm:

- Coagulation mix tank with mixer. Size tank for a minimum detention time of 30 seconds at maximum flow;
- Polymer storage and feed system. Polymer feed pump shall be sized based on a maximum polymer output concentration of 25 mg/L;

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- Particle pressure filters. Size for filtration rate of 2 gpm per square foot of filter area. Provide a minimum of 3 feet of filter media.
- A minimum of two granular activated carbon (GAC) vessels placed in series to provide a minimum empty bed contact time of 15 minutes in each vessel;
- The necessary pumps, piping and appurtenances; and
- A sampling port before the coagulation tank, after the pressure filter, and after the two carbon beds. The Contractor will be required to obtain daily water samples after the first carbon treatment bed to monitor PCB breakthrough.

The Contractor must also include provisions for directing the flow after the coagulation tank back into the pond (to an area that can be isolated using a floating baffle system) or to a storage tank should high levels of sediment be detected. If the Contractor elects to use a tank for this purpose, the Contractor shall provide a 30 foot diameter storage tank with a minimum side water depth of 13.5 feet, and the necessary pumps, piping and appurtenances to fill and empty the tank. If the Contractor elects to use baffles for this purpose, a sufficient length of floating baffles shall be provided that can be used to create a quiescent zone in a section of the pond.

The Contractor shall also provide additional pre-treatment and post-treatment process units that may be needed to achieve the required discharge limits.

NMPC has conducted a water treatment pilot test at the site to evaluate the effectiveness of various treatment methods. Information regarding the pilot test can be obtained from Mr. Frederick J. Kirschenheiter of Blasland & Bouck at (315) 446-9120.

A temporary NYSDEC State Pollution Discharge Elimination System (SPDES) permit has been applied for by NMPC for the discharge of the treated pond water. We have not yet received discharge limits for the treatment system. For purposes of the Bid, assume that water must be treated to less than 65 parts per trillion (ppt) of PCBs. The Contractor shall be required to meet all the conditions of the temporary SPDES permit.

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The Engineer will sample and analyze the effluent in accordance with the conditions of the temporary SPDES permit.

The Contractor shall submit with the Bid a plan to pipe treated water to the city of Cobleskill's 18-inch storm water drainage pipe located south of the railroad tracks, south of the site. Alternates to this discharge location may be suggested by the Contractor. The Contractor will be responsible for acquiring easements as needed to install the discharge piping.

Under this alternative, the Contractor must maintain the drained condition of the pond until completion of the debris removal activities. The Contractor may be required to remove stained sediments at the Engineer's direction.

The Contractor shall submit the following information with the Bid under this alternative:

- A contingency plan describing equipment and procedures for responding to a release within the quarry pond during debris transfer activities. This plan must include provisions for spill containment at the spill source, control, and cleanup;
- Details including equipment and procedures for removing sediment, if required, from the bottom of the quarry pond including storage container specifications;
- Detailed design and operational drawings for the mobile water treatment system including materials of construction, equipment sizes and capacities, and process instrumentation; and
- A contingency plan in the event the water treatment system shuts down.

In the event that draining the pond is unsuccessful, the Engineer may inform the Contractor to proceed with the debris removal work under the provisions of Alternative 2. Please include a transitional cost in Attachment 2 in the event that the backup alternative is required.

Alternative 2 (Backup Alternative) - Debris Removal Without Draining the Quarry Pond

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Under this alternative, the Contractor shall remove all the debris present on the bottom of the quarry pond without draining the quarry pond. The Contractor's plan for debris removal using this alternative shall include the following:

- A contingency plan describing equipment and procedures for responding to a release under water, over the pond surface, and during debris transfer activities. This plan must include provisions for spill containment, control, and cleanup; and
- A plan to verify that debris present in the pond has been removed.

Task 6 - Waste Disposal

The Contractor will be responsible for all waste handling/transportation and off-site disposal, as required, for generated waste streams. The Contractor must provide plans for handling, sampling, and testing of the excavated soils, debris, and other wastes. The Contractor must also submit with the Bid both a proposed primary and proposed secondary transporter(s) for hazardous and non-hazardous wastes, and the proposed disposal facilities for each potential waste stream. Also, the Contractor must include written verification (within one week following award of contract) from each identified treatment, storage, and disposal facility (TSDF) stating their regulatory authority and their agreement to accept the various potential waste streams, including volume, to be generated based upon currently available site information. The Contractor is responsible for waste analysis, profiling waste streams, manifesting, and recordkeeping. All waste leaving the site must be weighted at or near the departure point from the site and upon arrival at the TSDF. The Contractor is directly responsible for compliance with all applicable federal, state, and local laws regarding waste storage, handling, manifesting, transportation, and disposal.

The Contractor will provide written details and procedures on proposed recordkeeping and transfer of information to insure timely reporting to NMPC and Blasland & Bouck.

Task 7 - Demobilization

The Contractor is responsible for demobilization of all equipment, trailers, materials, supplies, and personnel from the site. The Contractor is responsible for notifying all applicable utility companies of the closing of operations. All utilities must be returned to pre-existing conditions unless

ATTACHMENT 1

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1992 INTERIM REMEDIAL MEASURES

SCOPE OF WORK

specifically instructed otherwise. Any utility permits must be terminated by the Contractor.

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE COBLESKILL, NEW YORK INTERIM REMEDIAL MEASURES

BID FORM

All lump sum and unit price costs are firm and must be reflective of the Contractor's anticipated effort and project time schedule for each specific task.

The tasks identified below are defined in Attachment 1 - Scope of Work.

Task 1 - Mobilization

- The mobilization effort includes the Contractor's site-specific Health and Safety Plan (HASP) preparation including personnel monitoring.
- The Contractor will supply construction equipment, decontamination equipment, equipped office trailers, and shower trailers necessary at the site for the duration of the project.
- The Contractor will acquire all necessary city, county, and/or state permits and will establish all necessary utility extensions and connections. Assume Level D protection.

Total Mobilization Lump

Sum Cost - Alternative 1:

Words

Figures

Total Mobilization Lump Sum

Cost - Alternative 2:

Words

Figures

Task 2 - Site Preparation

- The Contractor will be responsible for providing labor, materials, and equipment necessary for clearing and grubbing; haul road construction; and construction of facilities, staging areas, and on-site storage areas. Assume Level D protection.

Total Site Preparation Lump Sum

Cost - Alternative 1:

Words

Figures

Total Site Preparation Lump Sum

Cost - Alternative 2:

Words

Figures

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE COBLESKILL, NEW YORK INTERIM REMEDIAL MEASURES

BID FORM

Task 3 - Site Security

- The Contractor will be responsible for providing site security during the project. The security provisions shall consist of a minimum of one person on-site each day during off-hours (e.g., 6 p.m. to 7 a.m.) and for 24 hours a day on weekends throughout the project.

Total Site Security Cost
(per week day):

Words _____

Figures _____

Total Site Security Cost
(per weekend day):

Words _____

Figures _____

Total Site Security Cost
(per week):

Words _____

Figures _____

Total Site Security Cost
(per month):

Words _____

Figures _____

Task 4 - Debris Removal from Fill Areas

- The Contractor will be responsible for excavating fill areas; segregating debris from soil, handling, staging, and storage of the debris; handling and storing excavated soils; and completing backfilling activities, if necessary, as described in Attachment 1.

PRICE SCHEDULE

Activity	<100 CY	100 to <500 CY	500 to <1,000 CY	>1,000 CY
Soil/debris excavation ^{1,2}				
Backfill placement ^{1,2,3}				

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE COBLESKILL, NEW YORK INTERIM REMEDIAL MEASURES

BID FORM

Notes:

- ¹ Cubic yardage based on in-place volume. Contractor will be paid based on actual in-place cubic yardage of materials removed and backfilled.
- ² All costs shall be presented as unit cost/cubic yard (\$/CY).
- ³ Includes providing backfill and compaction efforts.
- ⁴ Assume Level C protection.

Percentage cost increase (%) to unit prices for soil/debris excavation using Level B protection: _____%

Task 5 - Debris Removal from Quarry Pond

Alternative 1 (Primary Alternative) - Debris Removal After Draining the Quarry Pond

- Contractor responsible for draining the quarry pond; treating and discharging treated water; maintaining the drained pond by continued water pumping and treatment; debris removal from the pond; handling and staging debris, on-site storage; and construction of sediment barriers in accordance Attachment 1 - Scope of Work.

Construction/Maintenance of
Sediment Barriers Lump Sum
Cost:

Words

Figures

Dewatering of Quarry Pond to
Expose Debris Including Pumping
and Treating Water 24 Hours/Day,
7 Days/Week Lump Sum Cost:

Words

Figures

Cost per Day to Maintain
Dewatered Quarry Pond (Pump-
and-Treat Water) 24 Hours/Day,
7 Days/Week for up to 20 Days:

Words

Figures

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE
COBLESKILL, NEW YORK
INTERIM REMEDIAL MEASURES

BID FORM

Cost per Day to Maintain
Dewatered Quarry Pond (Pump-
and-Treat Water) 24 Hours/Day,
7 Days/Week for up to 30 Days:

Words

Figures

Cost per Day to Maintain
Dewatered Quarry Pond (Pump-
and-Treat Water) 24 Hours/Day,
7 Days/Week for up to 40 Days:

Words

Figures

Cost per Day to Maintain
Dewatered Quarry Pond (Pump-
and-Treat Water) 24 Hours/Day,
7 Days/Week for over 40 Days:

Words

Figures

Transportation and Disposal
or Regeneration of Carbon
Lump Sum Cost:

Words

Figures

Transportation and Disposal
of Other Treatment Process
Residuals Lump Sum Cost (i.e.,
particulate filters, etc.):

Words

Figures

unit price
per ton

Cost of Equipment, Material,
and Labor for Debris
Removal/Staging Per Day
for up to 20 Days¹:

Words

Figures

Cost of Equipment, Material,
and Labor for Debris
Removal/Staging Per Day
for up to 30 Days¹:

Words

Figures

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE
COBLESKILL, NEW YORK
INTERIM REMEDIAL MEASURES

BID FORM

Cost of Equipment, Material,
and Labor for Debris
Removal/Staging Per Day
for up to 40 Days¹:

Words _____

Figures _____

Cost of Equipment, Material,
and Labor for Debris
Removal/Staging Per Day
for over 40 Days¹ :

Words _____

Figures _____

Additional cost per crew, per day to upgrade from Level C to Level B
protection: \$_____/day.

Note:

- ¹ Days are defined as days of actual debris removal/staging work and
operation of the water treatment system.

Alternative 2 (Backup Alternative) - Debris Removal Without Draining
the Quarry Pond

- Contractor responsible for removing debris from pond,
cleaning of sediments from debris; handling and staging
debris; on-site debris storage, and construction of sediment
barriers in accordance with the scope of work in
Attachment 1.

Construction/Maintenance of
Sediment Barriers Lump
Sum Cost:

Words _____

Figures _____

Cost of Equipment, Materials,
and Labor for debris removal
per day for up to 20 Days¹:

Words _____

Figures _____

Cost of Equipment, Materials,
and Labor for debris removal
per day for up to 30 days¹:

Words _____

Figures _____

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE COBLESKILL, NEW YORK INTERIM REMEDIAL MEASURES

BID FORM

Cost of Equipment, Materials,
and Labor for debris removal
per day for up to 40 days¹:

Words _____

Figures _____

Cost of Equipment, Materials,
and Labor for debris removal
per day for over 40 days¹:

Words _____

Figures _____

Transitional Lump Sum Cost to
Use Alternative 2

Words _____

Figures _____

Additional cost per crew, per day to upgrade from Level C to Level B
protection: \$_____/day.

Note:

¹ Days are defined as days of actual work at the site.

Task 6 - Waste Disposal

UNIT PRICE SCHEDULE

Disposal Activities	<1,000 tons	1,000 to 2,000 tons	>2,000 tons
Hazardous Waste Soils			
Off-site transportation ^{1,2}			
Off-site disposal ^{1,2}			
Non-Hazardous Soils			
Off-site transportation ^{1,2}			
Off-site disposal ^{1,2}			

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE COBLESKILL, NEW YORK INTERIM REMEDIAL MEASURES

BID FORM

Disposal Activities	<1,000 tons	1,000 to 2,000 tons	>2,000 tons
Solid Hazardous Waste from Removal Activities			
Off-site transportation Off-site disposal			
Solid Non-Hazardous Waste from Removal Activities			
Off-site transportation Off-site disposal			
Solid PCB Waste from Removal Activities			
Off-site transportation Off-site disposal			

Disposal Activities	<3,000 gallons	3,000 to 9,000 gallons	>9,000 gallons
Liquid Hazardous Waste from Removal Activities			
Off-site transportation ^{3,4} Off-site disposal ^{3,4}			
Liquid Non-Hazardous Waste from Removal Activities			
Off-site transportation ^{3,4} Off-site disposal ^{3,4}			
PCB Liquid Waste from Removal Activities			
Off-site transportation ^{3,4} Off-site disposal ^{3,4}			

- Contractor will provide necessary labor, equipment, materials, and services required to collect, store, characterize, handle, transport, and dispose of decontamination waters from all site activities.

Cost for Non-Hazardous
Decontamination Waters
(per gallon):

Words

Figures

ATTACHMENT 2

M. WALLACE AND SON, INC., SCRAPYARD SITE COBLESKILL, NEW YORK INTERIM REMEDIAL MEASURES

BID FORM

Cost for Hazardous
Decontamination Waters
(per gallon):

Words

Figures

- Contractor will provide the necessary labor, equipment, materials, and services required to collect, store, characterize, handle, transport, and dispose of PPE.

Cost for PPE (per 55-gallon drum):

Words

Figures

- Contractor will provide necessary labor, equipment, materials, and services required to collect, store, characterize, handle, transport, and dispose of non-hazardous materials removed from the site during site preparation and clearing and grubbing.

Cost for Non-Hazardous Waste
(per ton):

Words

Figures

Notes:

- ¹ All costs to be presented as a unit cost/ton basis (\$/ton).
- ² Payment based on weight of material scale tickets at disposal facilities.
- ³ All costs to be presented as a unit cost/gallon (\$/gallon).
- ⁴ Payment based on gallons received at disposal facilities.

Task 7 - Demobilization

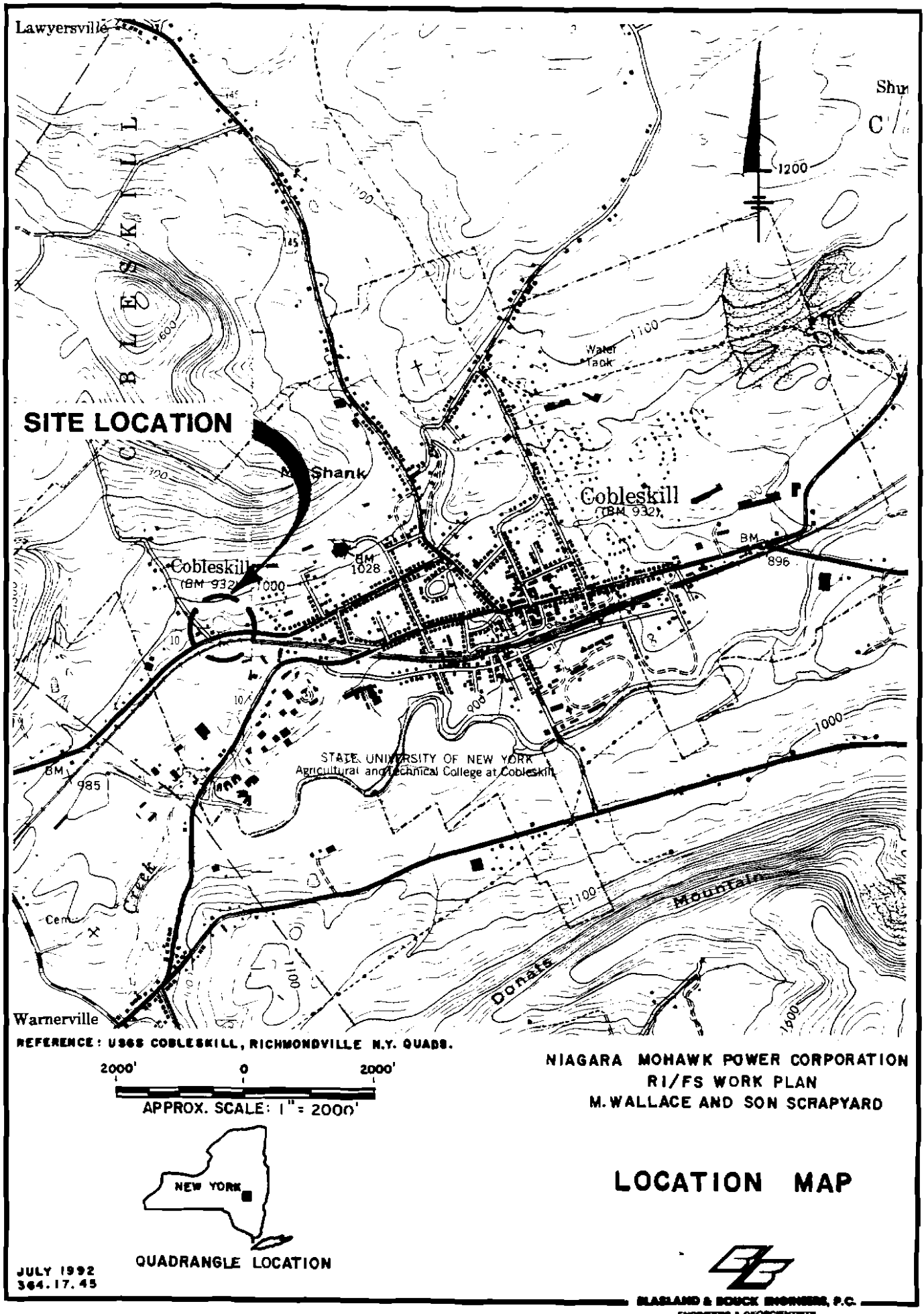
- The Contractor will be responsible for removal of all site trailers, equipment, and personnel.

Total Lump Sum Demobilization
Cost:

Words

Figures

FIGURE 1



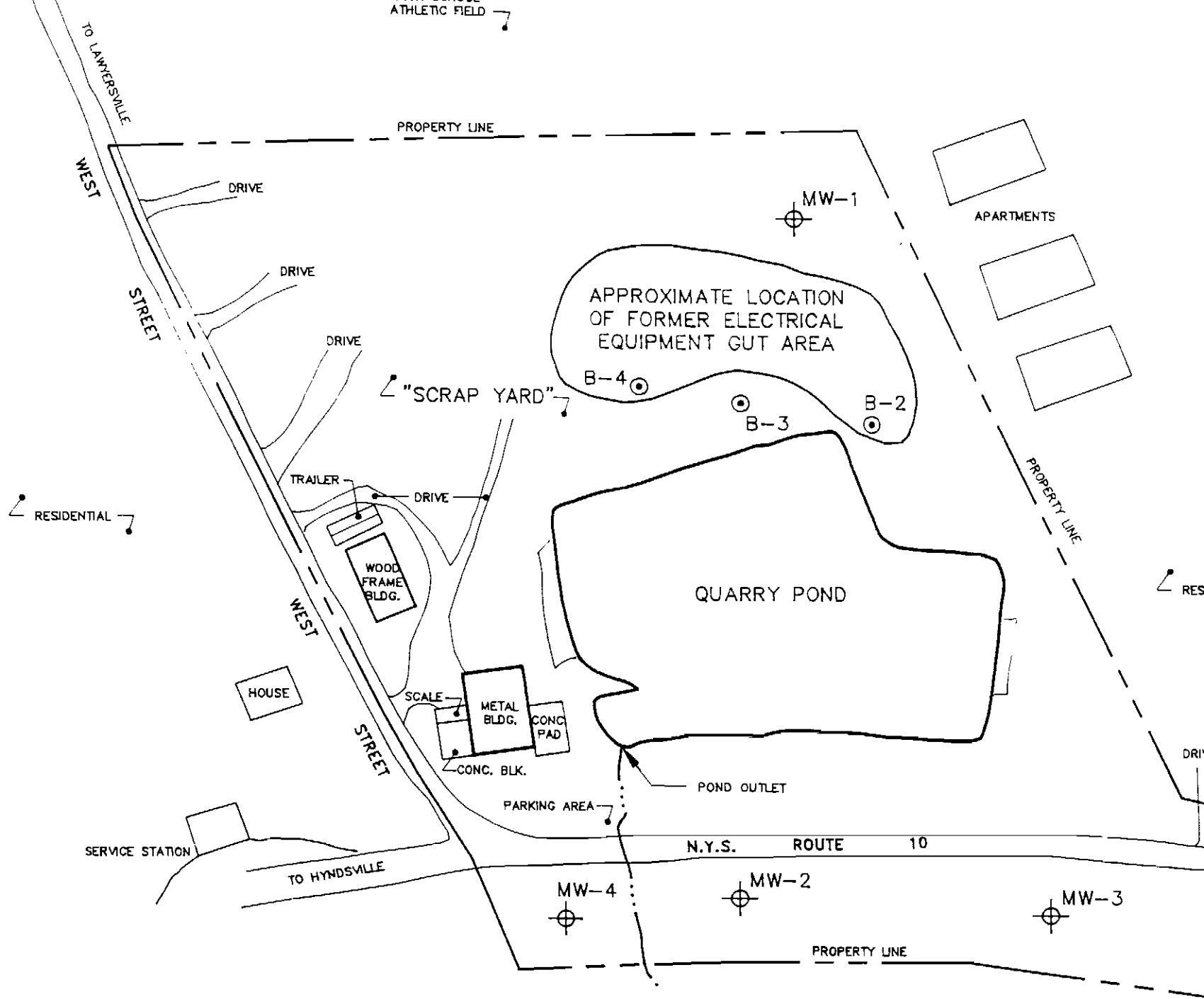
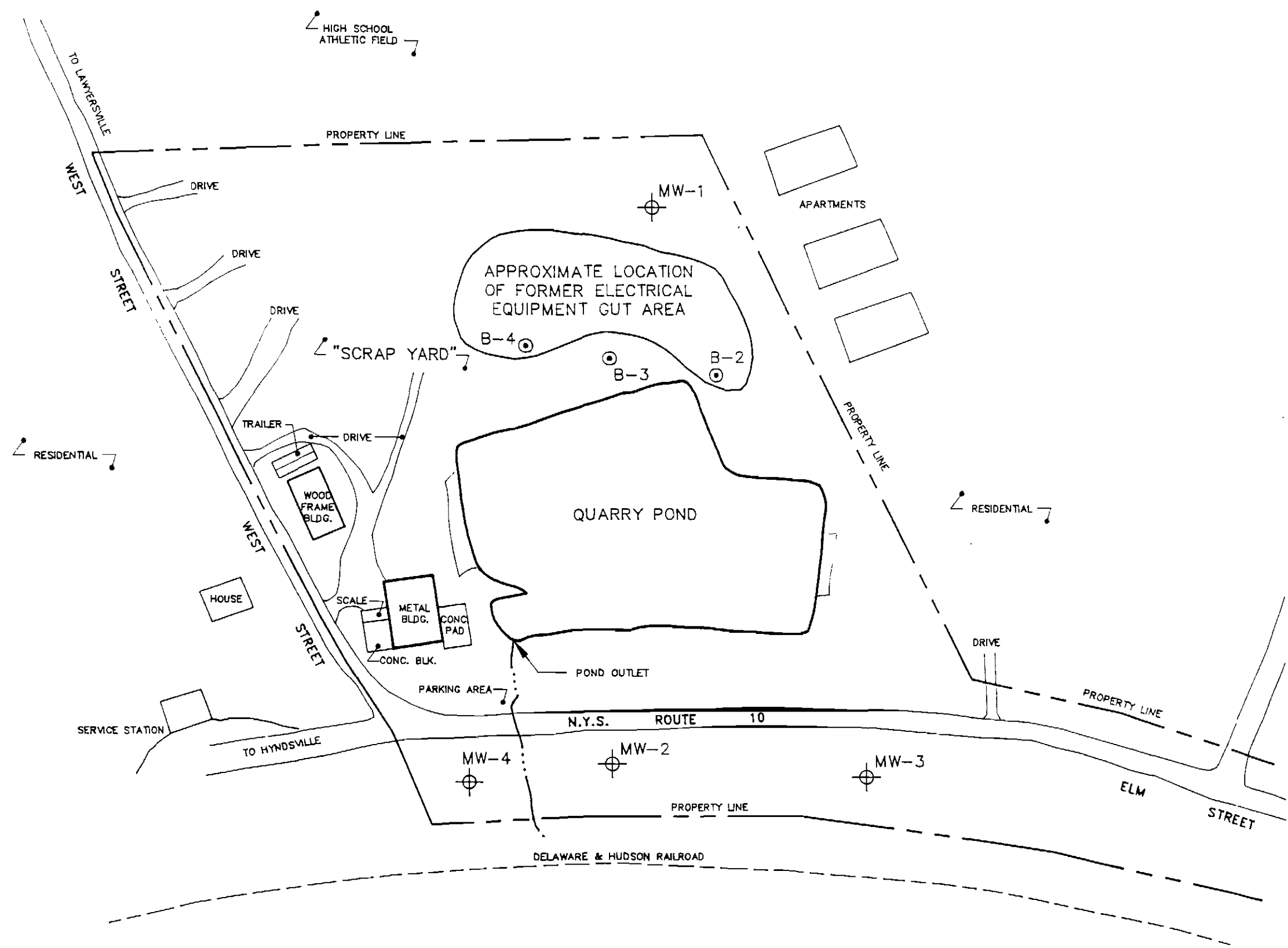


FIGURE 2



LEGEND

- MW-1 EXISTING GROUND-WATER MONITORING WELL LOCATION
- SB-1 EXISTING SOIL BORING LOCATION



NIAGARA MOHAWK POWER CORPORATION
1992 INTERIM REMEDIAL MEASURES
M. WALLACE AND SON SCRAPYARD

SITE MAP



BLASLAND & BOUCK ENGINEERS, P.C.
ENGINEERS & GEOSCIENTISTS

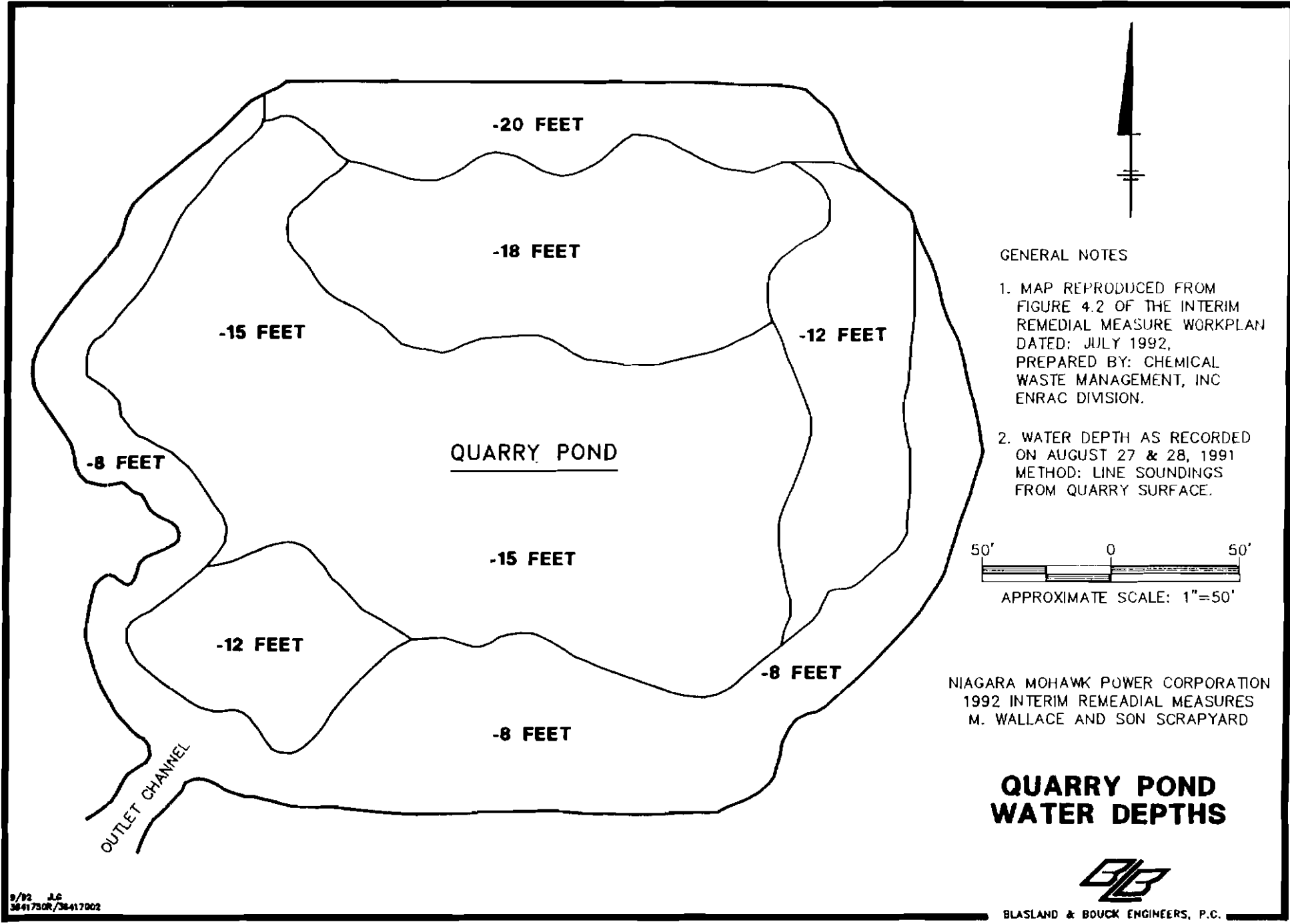
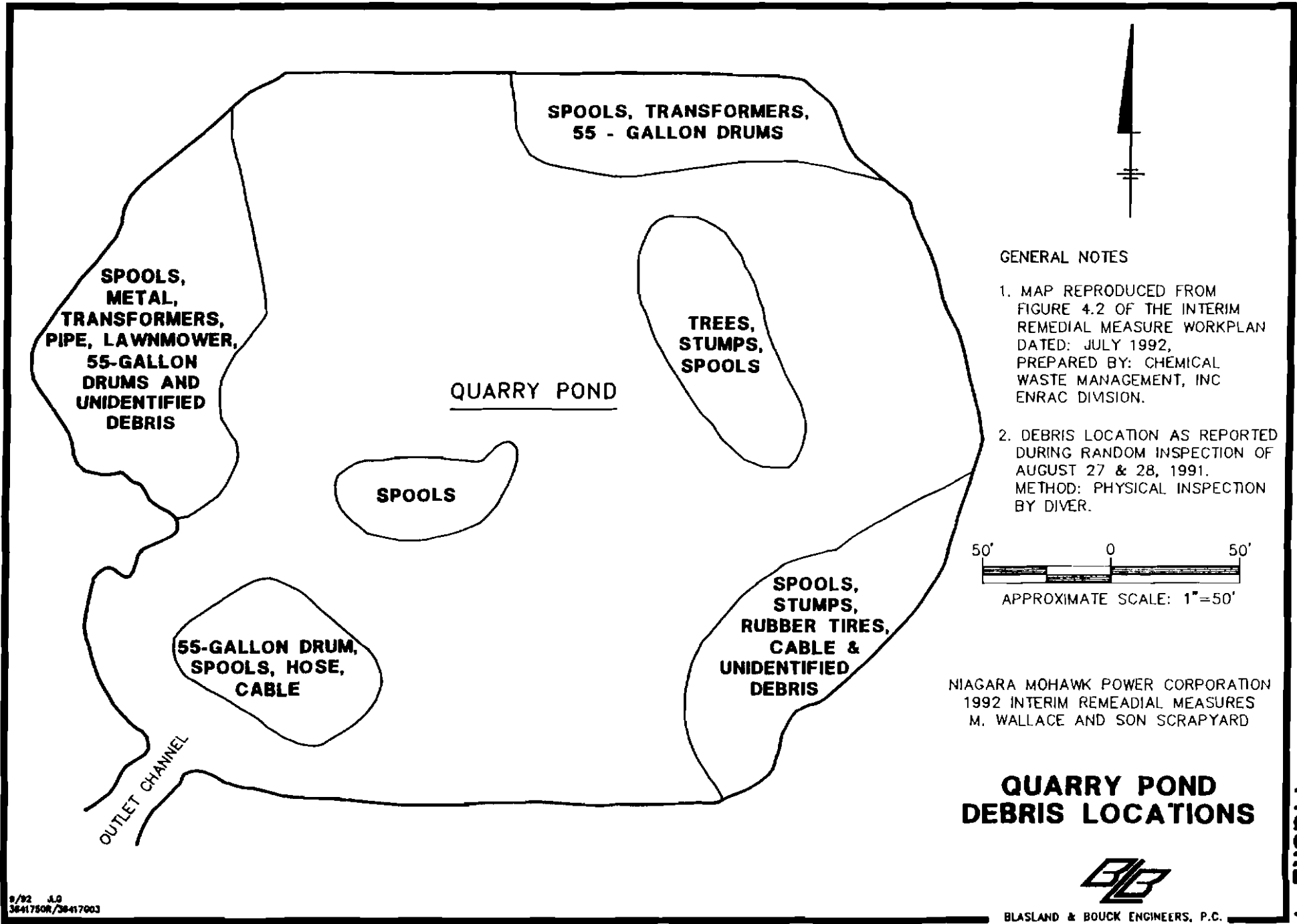


FIGURE 3



9/92 J.O.
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