Report

Site Investigations

M. Wallace and Son, Inc. Scrapyard Cobleskill, New York

June 1990



REPORT

SITE INVESTIGATION

M. WALLACE AND SON, INC. SCRAPYARD

COBLESKILL, NEW YORK

JUNE 1990

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SECTION 1 - INTRODUCTION

1.01 Purpose of Investigation

Niagara Mohawk Power Corporation (NMPC) and M. Wallace and Son, Inc. (MW&S) have been named as defendants in a lawsuit filed by the State of New York Attorney General over alleged PCB contamination at the M. Wallace and Son, Inc. Scrapyard in Cobleskill, New York (Figure 1). This property has been designated as an inactive hazardous waste site by the New York State Department of Environmental Conservation (NYSDEC) and is identified as site number 448003. A site investigation of the M. Wallace & Son, Inc. scrapyard has been conducted. The objectives of the site investigation were to:

- evaluate the locations, extent (including the vertical and lateral limits) and concentrations of oil and grease and PCBs in on-site soils, ground water, surface water and sediments;
- 2) identify and characterize the potential for off-site migration of oil and grease PCBs.

A Work Plan (October 1987) was prepared to achieve these objectives. Based upon the results of the initial sampling completed under the work plan the remaining investigatory work was modified to include the characterization of the presence of and potential for off-site migration of hazardous substance list metals and volatile organics.

This report is organized into five sections, tables, figures and appendices. The sections are as follows:

Section 1 - Introduction - presents the purpose of the investigation and a general site description.

- Section 2 Field Investigation Methodology presents the objectives, the methodology and the output of the field investigation tasks.
- Section 3 Summary of Field Investigation Results presents the physical and chemical results of the field investigation.
- Section 4 Discussion of Results presents a discussion of the results as they relate to the objectives of the report.
- Section 5 Summary provides conclusions based on the field investigation as well as recommendations for future action.

1.02 Background

M. Wallace and Son, Inc. Scrapyard is located at the intersection of New York Route 10 (Elm Street) and West Street in the Village of Cobleskill, Schoharie County, New York (Figure 1). The site on Route 10 consists of an office/garage building, a quarry pond and areas of stockpiled scrap material. The remaining areas are vegetated (Figure 2).

The site is allegedly contaminated with PCBs due to spillage of oil residue contaminated with PCBs over a period of years.

Sampling and analysis of soil, surface water, sediment, and nearby household wells has been conducted. On June 10, 1983, the Bureau of Enforcement and Criminal Investigation (BECI) of the NYSDEC sampled soil and sediment and water from the quarry pond and from an on-site stream. The analytical results allegedly revealed PCB concentrations

ranging from 170-200 parts per million (ppm) in the soil, 34 ppm in a sediment sample, 0.5 ppb in water from the quarry pond, and 0.5 ppb in water from the stream. On December 19, 1984, the Schoharie County Department of Health sampled 8 household ground water supply wells near the scrapyard for purgeable hydrocarbons, purgeable aromatics, PCBs, and heavy metals. The results of this effort revealed no detectable levels of organic contaminants.

1.03 Site Description

1.03.01 Site Physiography and Topography

M. Wallace and Son, Inc., Scrapyard is located in the glaciated Mohawk section of the Appalachian Plateau Physiographic Province (Figure 1). This region is characterized by low rolling hills at an average elevation of 1200 feet dissected into a limestone plateau. During the Pleistocene Epoch, ice sheets advanced over the entire area rounding and smoothing the hilltops, deepening the valleys and depositing a veneer of glacial till on the uplands. As the glaciers receded, streams flowing in the valleys deposited outwash sand and gravel or, if dammed, created glacial lakes where fine material such as silt and clay were deposited (USDA-SCS, 1969).

Elevation at the site ranges from 960 feet above mean sea level (amsl) on the south side of NY Route 10 to 1000 feet amsl at the northern fenceline.

1.03.02 Site Drainage

Surface water features on the MW&S site include a pond which formed in the old limestone quarry on the site and a stream formed by the overflow from the quarry pond. The stream flows into a culvert on the north side of Route 10, re-emerges on the south side, turns to the east and enters a culvert with an unknown discharge point on Cobleskill Creek. The quarry pond is fed from ground water issuing from fractures on the bottom and sides of the pond. Fractures are visible in the bedrock wall around the quarry and during early site visits water was occasionally observed to be flowing from these fractures. Another source of water for the pond is surface runoff and direct precipitation.

1.02.03 Land Use

The area surrounding the site is used for various residential and commercial purposes. To the north of the site is the Cobleskill High School athletic field. On the east side of the site are several apartments and single family residences. To the south of the site is New York State Route 10, the Delaware and Hudson Railroad. On the west side of the site there is a service station, and bus garage.

SECTION 2 - FIELD INVESTIGATION METHODOLOGY

2.01 Initial Surface Soil Sampling

As part of implementing the site Work Plan (October 1987) two surface soil samples were collected on December 17, 1987, and analyzed for full NYSDEC Hazardous Substance List (HSL) parameters using Contract Laboratory Protocols (CLP). The purpose of these analyses was to provide the basis for selecting a reduced set of HSL analytical parameters for the subsequent soil, ground water, sediment and surface water sampling. Compounds detected included PCBs, phthalates, polynuclear aromatic hydrocarbons 1,1-dichloroethene, xylene and metals. Based on the HSL results, the selected reduced list of HSL parameters included: volatile and semi-volatile organics and metals analyses for surface water and ground water; metals analysis for sediments; and volatile organics and metals analyses for subsurface soils. This reduced list of HSL parameters as well as the inclusion of five additional HSL samples was presented to the NYSDEC in a letter from O'Brien & Gere dated May 19, 1989 and subsequently approved by the NYSDEC.

2.02 Air Monitoring

An air monitoring program was conducted before and during the site investigation. This was completed to evaluate ambient air emissions from the site and consisted of evaluating volatile organic releases, PCBs and particulates.

An HNU Model PI-101 photoionization detector (PID) was used to monitor the air for volatile organic compounds at one upwind and one downwind location prior to beginning any site work. This PID survey

was conducted on December 17, 1987. In addition, PID air monitoring was periodically performed during boring and monitoring well installation, and collection of surface water, ground water and sediment samples for investigation work health and safety.

Particulate and vapor phase PCB samples were collected during site work at the two locations shown on Figure 4. The NYSDEC field representative agreed to the sample locations. Samples were collected during the surface and near-surface soil sampling event on August 29, 1989, using an air sampling pump operated at an air flow rate of 0.05 to 0.2 liters/minute until from 1 to 50 liters of air passed through the filter. The particulate sample was collected on a 25 ml, 0.8 micron filter. The air stream was then passed through a Florisil trap for vapor phase analysis. These samples were analyzed for PCBs in accordance with the method set forth in the section entitled "Polychlorinated Biphenyls in Ambient Air" of the New York State Department of Health (NYSDOH) document "Analytical Handbook" (NYSDOH, 1980). PCB air monitoring data are presented in Appendix A.

PID air monitoring data collected during site activities were compared to guidelines presented in the site Health and Safety Plan.

PID readings did not exceed background concentrations for organic vapors throughout the site investigation.

PID and PCB air monitoring data is presented in Appendix A and discussed in Section 3.01.

2.03 Surface and Near-Surface Soil Sampling

Surface and near-surface soil samples were collected to identify the horizontal extent and concentration of oil and grease and PCB

contamination at the site. A total of 67 surface soil samples were collected per the MW&S Site Investigation Work Plan (October 1987) and analyzed for oil and grease and PCBs (see Table 1). The sampling strategy focused on areas exhibiting discoloration and/or staining of the soil. Samples were collected approximately every 15 feet on both the north-south and east-west traverse lines (Figures 3 & 4). The locations of the traverses were surveyed with respect to an on-site datum. At each sample location, a representative sample was collected between 0 and 6 inches below the ground surface. Seven samples were collected in isolated stained areas and thus are not on the traverse lines. Also included in the 67 sampling locations were 7 samples from non-stained areas of the site.

Fill material had been placed over some work areas. Therefore, eight samples of the total 67 samples were collected at a depth of 6 to 12 inches which was the top 6 inches of the native soil. These deeper samples were taken where visually clean soil was encountered during the collection of the 0 to 6 inch samples (Figure 4). At these locations, the 0 to 6 inch sample was not collected; only the 6 to 12 inch sample was collected and analyzed.

One sample (Line 1-270') of the 67 total was analyzed per Contract Laboratory Protocols (CLP) for NYSDEC Hazardous Substance List (HSL) metals, cyanide, and organics (see Table 1). The location of this sample was agreed upon in the field by a representative of the NYSDEC.

For quality assurance/quality control purposes, six of the 67 samples were duplicates, six were for matrix spike analysis and one was

a trip blank. Chain-of-custody procedures were followed during sample collection.

A laboratory report was generated that contains analytical results for oil and grease and PCBs that were in the soil samples (Appendix A). The laboratory report also includes the analytical results for the HSL sample.

2.04 Test Borings

Four test borings were drilled on the site by the subcontractor, Parratt-Wolff, Inc. to characterize and assess contamination in the subsurface soil. An O'Brien & Gere hydrogeologist was present during drilling to maintain boring logs and collect soil samples. One soil boring was placed north of the work area north of the quarry pond area. The other three borings were installed in the immediate vicinity of the work area north of the quarry pond to evaluate the vertical extent of soil contamination (see Figure 5). The locations were agreed to in the field by a representative of the NYSDEC. A laboratory report was generated that contains analytical results for the NYSDEC HSL parameters (Appendix A).

Hollow stem auger drilling techniques were used for the test borings. Soil samples were collected continuously to the top of bedrock using the Standard Split Barrel Sampling Method (ASTM D 1586-84). Geologic classification of the split-spoon samples was performed and boring logs maintained by the supervising field hydrogeologist (see Appendix B). Split-spoons were decontaminated between samples using a soap and water wash followed by a potable water rinse and a methanol rinse. Drilling equipment was decontaminated between borings by steam

cleaning. Boring and decontamination spoils were discarded on-site at each boring location. Sufficient water (3 ft or greater) was not found in Boring B-2, therefore per the approved work plan, the boring was not converted to an overburden monitoring well. Borings were backfilled with a bentonite grout.

Two split spoon samples from each boring were analyzed for the reduced NYSDEC Hazardous Substance List compounds which included PCBs, metals and volatile organics (Table 1). One split spoon sample from Boring B-2 (6 to 8 ft) was analyzed for NYSDEC HSL parameters. The selection of this sample was agreed to in the field by a representative from the NYSDEC. One sample collected was the first visually clean sample encountered in the boring. The second sample collected was the soil sample at the bedrock interface. However, at Boring B-4, insufficient soil was collected in the 2 to 4 feet split spoon sample, therefore, a composite of the 2 to 4 feet and 4 to 6 feet samples was collected for analysis as the first visually clean sample. Boring B-1, the upgradient boring, had only 3.3 feet of overburden to bedrock, therefore, only one sample, 0 to 3.3 feet, was collected for analysis as both the first visually clean soil sample and the bedrock interface soil sample. These modifications were agreed to by the NYSDEC field representative. One duplicate sample, one matrix spike, and one trip blank were analyzed for QA/QC purposes.

Three split-spoon samples were selected that are representative of subsurface lithologies. The samples selected were Boring B-1, 0 to 3.3 feet, Boring B-2, 6 to 8 feet, and Boring B-4, 2 to 4 feet. These samples were analyzed for grain size, Atterburg limits, and moisture content (Appendix C).

2.05 Ground Water Monitoring and Sampling

Four monitoring wells, 1 upgradient and 3 downgradient, were installed as directed by a hydrogeologist, to determine ground water flow direction and ground water impact, if any (Figure 6).

Monitoring well MW-1 was installed at the location of Boring B-1. Three wells were installed in the anticipated downgradient direction along the south side of the M. Wallace and Son, Inc. property (on the south side of Rt. 10) (Figure 6) per the Work Plan. Specific monitoring well locations were agreed to in the field by a representative of the NYSDEC. These three wells and the upgradient well were installed 10 feet into the first encountered bedrock ground water. Monitoring well MW-1 was installed, at the location of Boring B-1, to a depth of 35.9 feet. MW-2 was installed to a depth of 34.5 feet, MW-3 to a depth of 25.5 feet and MW-4 to a depth of 34.5 feet. The well depths varied because the depth to the first encountered bedrock ground water varied.

Per the approved site investigation Work Plan, the wells were completed as open rock wells, 3 inch nominal diameter. A 4 inch steel locking casing was cemented a minimum of 2 feet into the bedrock. Drilling equipment was decontaminated between wells by steam cleaning. Each monitoring well was developed by bailing to assure the collection of representative samples. This procedure was continued until each well yielded relatively sediment-free water.

All monitoring wells were surveyed, by a New York State licensed surveyor for elevation, to 0.01 feet, and location with respect to an on-site datum. Ground water elevations in each well were measured to

determine ground water flow direction. The elevation of the quarry pond was also measured when ground water elevations were measured (Table 2).

In-situ hydraulic conductivity tests were conducted on the monitoring wells using positive or negative displacement. For the positive displacement method, a teflon rod was placed into the well. The water level within the well was measured prior to the insertion of the rod and measured at predesignated intervals after insertion. The recorded data was analyzed using Hvorslev's Method (Appendix D). The hydraulic conductivity tests for MW-3 and MW-4 were performed using the positive displacement method.

For the negative displacement method, water was bailed out of the well. The water level within the well was measured prior to the removal of the water and measured at predesignated intervals after removal. The hydraulic conductivity tests for MW-1 and MW-2 were performed using this method.

A ground water sample was collected from each monitoring well in accordance with the Work Plan. A dedicated stainless steel bailer was used for each well. Ground water sampling logs are in Appendix E.

Two (2) seep samples were to be collected from the northern quarry wall to evaluate ground water quality. No quarry seep samples were collected during the sampling event since no seeps were actively flowing. The decision not to collect seep samples was concurred with in the field by the NYSDEC representative. A subsequent conversation with Sue McCormick of the NYSDEC resulted in an agreement, documented in a letter dated November 3, 1989, that no quarry seep samples would be collected during the site investigation.

The ground water samples were analyzed for reduced NYSDEC Hazardous Substances List (HSL) parameters which included PCBs, volatile organics, semi-volatile organics and metals. In addition, one ground water sample (MW-3) was analyzed for full NYSDEC HSL parameters. The selection of this sample was agreed to in the field by a representative from the NYSDEC. Analytical methods used are listed on Table 1. A total of one duplicate sample, one matrix spike, and one trip blank were also analyzed for QA/QC purposes. A laboratory report was generated that contains analytical data for the ground water samples. NYSDEC HSL parameters are also included (Appendix A).

2.06 Surface Water and Sediment Sampling

Two surface water samples from the on-site quarry pond and two water samples from the quarry outflow ditch were collected using the procedures in the approved Site Investigation Work Plan to characterize the surface water in the on-site quarry and drainage stream. Sample locations are shown on Figure 7. Each water sample was analyzed for reduced NYSDEC Hazardous Substances List (HSL) parameters which included PCBs, volatile organics, semi-volatile organics and metals. One surface water sample (W-1) was analyzed for NYSDEC HSL parameters. The selection of this sample was agreed upon in the field by a representative from the NYSDEC. Analytical methods used are listed on Table 1.

Sediment samples were collected from four different locations in the on-site quarry pond. Sediment sample locations are shown on Figure 7. The sediment samples were collected from 0 to 12 inches below the bottom. These samples were not composited by the laboratory as the

Work Plan had specified so four discrete samples were analyzed rather than two composite samples. Two sediment samples were also collected from the quarry outflow stream (Figure 7). Five of the six sediment samples were analyzed for PCBs and metals. One sediment sample (SED-3) was analyzed for NYSDEC HSL parameters. The selection of this sample was agreed to in the field by a representative from the NYSDEC.

The detection limit for PCBs was 0.1 ppm. Proper collection procedures and chain-of-custody were maintained per the Work Plan during the sampling event. A laboratory report was generated that contains the analytical results for NYSDEC HSL parameters in the surface water and sediment samples (Appendix A).

SECTION 3 - SUMMARY OF FIELD INVESTIGATION RESULTS

3.01 Geology

3.01.01 Soils

Soils in the vicinity of the site consist of the well drained to moderately well drained Schoharie and Hudson series soils and the somewhat poorly drained Odessa and Rhinebeck series soils. All the soil series are silt loams developed in red and gray calcareous glacio-lacustrine silt and clays on gently sloping terrain (USDA-SCS, 1969). Soils on-site have probably been reworked or covered over due to the nature of past and present activities.

3.01.02 Unconsolidated Material

A thin veneer of glaciolacustrine silt and clay underlies the surface. This material formed during the recession of the ice sheets which once covered the area. The valleys draining the glacial meltwater would become blocked by ice or other material and a glacial lake would form behind the dam. As the water entering the lake calmed, fine sediments would fall out of suspension in the water and deposit beds of silt and clay (USDA-SCS, 1969). Visual observation and grain size analyses conducted on soils from the soil boring task indicate the site is underlain by glaciolacustrine silt and clays. This layer is 3.3 ft. thick at B-1, the upgradient soil boring, thickening to 18 ft. at MW-4, a downgradient monitoring well.

3.01.03 Bedrock

The bedrock in the region is chiefly carbonate rock of the Lower to Middle Devonian. The bedrock dips 100 to 135 ft. per mile to the south-southwest (USDA-SCS, 1969).

Based upon cores collected during the installation of the monitoring wells the bedrock directly underlies the silts and clays, and is composed of a light to medium gray limestone containing chert, rugose coral, brachiopod and bioherm fossils. Data from geologic maps indicate the bedrock is the Onondaga Limestone of Lower to Middle Devonian age (Fisher, et. al., 1970).

3.02 Hydrogeology

Ground water in the area is found primarily in the bedrock. The water in the bedrock occurs in fractures, bedding planes and joints. Many of these features could be solutionally enlarged due to the action of acidic water on the limestone, creating highly permeable ground water zones. Yields can vary depending on the number and size of conduits found in the limestone. Ground water in the bedrock flows to the south-southeast (Figure 8). Ground water from upgradient enters the site from the north-northwest, flows beneath the work area north of the quarry pond and enters the quarry pond through fractures in the quarry wall and floor. The quarry pond acts as a ground water discharge boundary with most of the shallow site ground water entering the pond exiting as surface water. Some ground water flows to the south in the area of the downgradient monitoring wells.

The bedrock monitoring wells installed during the site investigation have hydraulic conductivities ranging from 1.7×10^{-5} ft/sec (11 gpd/ft²) at MW-3 to 1.5×10^{-8} ft/sec (9.7×10⁻³ gpd/ft²) at MW-1. These values are close to published values of hydraulic conductivity for limestone of 10 gpd/ft² to 1×10^{-3} gpd/ft² (Freeze and Cherry, 1979). The variability depends on the degree of fracturing and solutional enlargement in the limestone.

Little or no water was encountered during soil boring advancement in the glaciolacustrine overburden

3.03 Air Monitoring Analyses

Results of the air monitoring indicate that PCB and total particulates were not detected. The laboratory detection limits were $0.001~\text{mg/m}^3$ for PCBs and $0.1~\text{mg/m}^3$ for total particulates. In addition, PID testing at the site during various tasks indicated no readings above background (<1 ppm).

3.04 Surface and Near-Surface Soil Analyses

Soil samples were submitted for laboratory analyses of PCB and Oil and Grease. Of the 67 total samples submitted for laboratory analysis, six were duplicates, six were for matrix spike quality assurance/quality control and one was a trip blank. Therefore, at 54 locations, surface and near-surface soil samples were collected at the site. Seven samples were collected in isolated stained areas. Seven samples were collected in isolated unstained areas and eight samples were collected from 6 to 12 inches which was the top 6 inches of native material (See Figures 3 and 4).

3.04.01 Oil and Grease Analyses

Concentrations of oil and grease was detected in each of the surface and near-surface soil samples collected at the site. Concentrations ranged from 130 ppm at sample site #22 to 120,000 ppm at Line 7-15' S (See Figures 9 and 10). Table 3 summarizes the surface soil oil and grease results. The highest concentrations of oil and grease were in areas that exhibited staining of the soil. Non-stained areas had concentrations of oil and grease ranging from 130 ppm to 17,000 ppm. The high values of oil and grease at non-stained sites #23, #24, and #25 were probably due to their proximity to the public roads near the site. Soil samples collected from 6 to 12 inches exhibited lower concentrations of oil and grease than the surface soil samples collected from 0 to 6 inches.

3.04.02 PCB Analyses

PCB concentrations in the surface and near-surface soil samples ranged in concentration from not detected at several sampling locations to 2100 ppm at Line 7-12' N. (See Figures 9 and 11). Arochlors detected included 1248, 1260 and 1254. Table 3 summarizes the surface soil PCB results.

Highest concentrations of PCBs were observed in the vicinity of areas that exhibited staining of the soil. Non-stained areas had lower concentrations of PCBs than stained areas, ranging from non-detectable to 6.4 ppm. Soil samples collected from 6 to 12 inches below the surface also had lower concentrations of PCBs than the stained surface samples. In comparing PCB concentrations to oil and grease concentrations, both have the highest

levels in the vicinity of the work area north of the quarry pond.

3.04.03 HSL Parameters

Three soil samples for Hazardous Substance List analyses were collected at the MW&S site. Two samples, WS-1 and WS-2, were collected during the initial phase of the site investigation work and were used to determine the reduced HSL list. The third sample was collected at Line 1-270 ft. at a depth of 6 to 12 inches. Results are summarized on Tables 3, 4, 5 and 6.

HSL parameters detected include PCB-1016/1242, PCB-1248, PCB-1260, PCB-1254. HSL PCB concentrations were within the range of PCB concentrations for non-HSL soil samples indicating that the non-HSL analytical method provides an acceptable means for evaluating PCB concentrations in the soil. Volatile organics and semi-volatile organics (phthalates and polynuclear aromatic hydrocarbons) were detected during the initial soil sampling event (WS-1 and WS-2). These compounds were not detected in the HSL surface soil sample collected at Line 1-270'. Metals analyses indicate that the trace metals in sample Line 1-270' were within the typical range of concentrations for trace metals in soils (Table 4). HSL metal concentrations in samples WS-1 and WS-2 were within the typical ranges for metals in soils except for arsenic, cadmium, copper, lead and zinc (Table 4). Pesticides and cyanide were not detected in any of the HSL soil samples.

3.05 Subsurface Soil Analyses

Four soil borings were completed to the top of bedrock at the site. One upgradient boring, B-1, was completed to a depth of 3.3 feet and three downgradient borings in the immediate vicinity of the work area north of the quarry pond, B-2, B-3 and B-4, completed to a depth of 8.2 feet, 6.7 feet and 7.2 feet, respectively (Figure 5). Two soil samples were collected from each boring with the exception of B-1 due to the shallow depth to bedrock. Soil samples collected were analyzed for PCBs, metals and volatile organics. One sample, boring B-2, 6-81, was analyzed for full NYSDEC HSL parameters.

3.05.01 PCB Analyses

PCBs in the subsurface soil samples ranged in concentration from 0.25 ppm at boring B-3, 2 to 4 ft. to 6.6 ppm at boring B-3, 6 to 8 ft. Arochlors detected were 1248 and 1260. PCB results are summarized on Table 5. The concentrations of PCBs are less in the subsurface samples than the surface soil PCB concentrations. In borings B-2, B-3 and B-4, concentrations of PCB are higher at the overburden/bedrock interface than at the first visually clean sample.

3.05.02 Metals

Metals analyses revealed the presence of arsenic, barium, chromium, lead and zinc in each of the samples. Results are summarized on Table 4. Boring B-1 contained the highest concentrations of detected metals except for chromium, which was highest in boring B-2, 6 to 8 feet. The concentration of lead in soil

sample B-1 0-3.3' at 240 mg/kg was the only metal detected in the subsurface soil samples that exceeded the typical range for lead in soils. The other subsurface soil samples revealed metal concentrations within the typical range for soils.

3.05.03 Volatile Organics

Volatile organics were not detected in any subsurface soil samples.

3.05.04 HSL Parameters

A soil sample was collected for NYSDEC HSL analyses at boring B-2, 6-8¹. The NYSDEC field representative agreed to the selection of this sample. HSL parameters detected include PCB-1248 at 0.47 ppm, PCB-1260 at 0.53 ppm and HSL metals with the exception of antimony, beryllium, cadmium, cobalt, mercury, selenium, silver and thallium. PCB concentrations were within the range of concentrations of PCB detected in the non-HSL subsurface samples. Metal concentrations are within the typical range for North American soils. Bis (2-ethylhexyl) phthalate was also detected at a concentration of 880 ppb. Volatile organics, pesticides and cyanide were not detected. Results are summarized on Tables 4, 5 and 6.

3.06 Ground Water Analyses

Ground water samples were collected on a single occasion from each of the four monitoring wells installed. One well is located upgradient of the work area north of the quarry pond and three are located downgradient of the quarry pond on the south side of NY Route 10 (Figure 6).

The well locations were agreed to by the NYSDEC field representative Water samples collected from the monitoring wells were analyzed for PCBs, unfiltered metals, volatile organics, and semi-volatile organics. One sample, from monitoring well MW-3, was analyzed for NYSDEC HSL parameters. The ground water samples from the monitoring wells all had some turbidity and were not filtered for PCB or metal analyses.

3.06.01 PCB Analyses

PCBs were not detected (detection limit of 0.065 ppb) in any of the three downgradient wells. PCB-1260 was detected at a concentration of 1.5 ppb in the upgradient well, MW-1. This value is above the NYS Class GA standard of 0.1 ppb for ground water. Table 5 summarizes the PCB concentrations.

3.06.02 Total Metals

Lead at 0.22 ppm was detected in MW-1. This above the NYS Class GA standard of 0.025 ppm for ground water. Zinc concentrations ranged from 0.02 ppm at MW-4 to 0.14 ppm at MW-1. These values were below the NYS Class GA standard of 5 ppm. Total metal analyses for ground water is summarized on Table 7. Monitoring well MW-1, the upgradient well, had higher concentrations of lead and zinc than the downgradient wells.

3.06.03 Organics Analyses

Table 6 summarizes the volatile and semi-volatile organic compounds in the ground water samples. Chloroform was detected at a level of 2 ppb in MW-1, which is below the NYS Class GA

standard of 100 ppb. Bis(2-ethylhexyl) phthalate was detected at 16 ppb in MW-4. This is below the NYS Class GA guidance value of 4200 ppb in ground water. No other volatile or semi-volatile organics were detected.

3.06.04 HSL Parameters

A ground water sample was collected from MW-3 for HSL analyses. Table 7 summarizes the analyses. Total metals were the only parameters detected. Iron was detected at 18 ppm which is above the NYS Class GA standard of 0.3 ppm. Manganese was detected at 1.1 ppm which is also above NYS Class GA standard of 0.3 ppm for ground water. Other metals detected were aluminum, barium, calcium, lead, magnesium, sodium and zinc. The concentration of these metals is either below the NYS Class GA standards or there are no standards established. No volatile, semi-volatile organics or cyanide were detected.

3.07 Surface Water Analyses

Four surface water samples were collected for laboratory analyses. Two samples were collected from the quarry pond and two were collected from the quarry pond outflow stream (Figure 7). Three of the samples were analyzed for PCBs, metals, volatile organics and semi-volatile organics. One water sample taken at W-1 was analyzed for full NYSDEC HSL parameters.

3.07.01 PCB Analyses

PCBs ranged in concentration from 0.12 ppb at W-3 to 0.72 ppb at W-4. The concentration of PCBs in the surface water samples was above the NYS Class A standard of 0.01 ppb for surface water. The arochlors detected were 1248 and 1260.

3.07.02 Metals

Zinc was the only metal detected in the surface water samples. Concentrations ranged from 0.01 to 0.03 ppm which are below the NYS Class A standard of 0.3 ppm for surface water. Table 7 summarizes the metal analyses.

3.07.03 Organics Analyses

Volatile and semi-volatile organics were not detected in the surface water samples.

3.07.04 HSL Parameters

A surface water sample was collected at W-1 for NYSDEC HSL analyses. Tables 5 and 7 summarize the HSL analyses. HSL parameters detected include PCB-1248 and PCB-1260 at a concentration of 0.39 ppb which is above the NYS Class A standard of 0.01 ppb for surface water. Metals that were detected include calcium, magnesium, manganese, sodium and zinc. Magnesium, manganese and zinc were all detected at levels below NYS Class A standards. Calcium and sodium do not have standards or guidance values. Volatile and semi-volatile organics and cyanide were not detected in the sample.

3.08 Sediment Analyses

Six sediment samples were collected at the site. Four samples, SED-1, SED-2, SED-3 and SED-4, were collected, using a sediment sampler and rowboat, from the bottom of the quarry pond. Two other sediment samples, SED-5 and SED-6 were collected from the quarry outflow stream (Figure 7). Five of the samples were analyzed for PCBs and metals. One sample, SED-3 from the quarry pond was analyzed for NYSDEC HSL parameters.

3.08.01 PCB Analyses

Table 5 summarizes the PCB analyses for the sediment samples. PCB concentrations ranged from 3.8 ppm in SED-1 to 28 ppm in SED-5. Arochlors detected were 1248, 1254, and 1260. The highest concentration of PCB was in the stream sediment at the outflow of the quarry pond (SED-5).

3.08.02 Metals

Metals detected include arsenic, chromium, lead and zinc. Table 7 summarizes the metal analyses. Lead and zinc concentrations were highest in the sediment at the outflow of the quarry pond (SED-5). Arsenic and chromium concentrations were highest in the sediment in the quarry pond at location SED-2.

3.08.03 HSL Parameters

A sediment sample was collected at SED-3 in the quarry pond for NYSDEC HSL analyses. Table 5, 6 and 7 summarize the HSL analyses. PCB-1254 was detected and estimated at 0.23 ppm which

is below the detection limit of 6.4 ppm for this sample. HSL metals were detected excluding antimony, cadmium, cobalt, mercury, potassium, selenium and thallium. Methylene chloride was detected at 54 ppb and acetone was detected at 150 ppb. These organic compounds were detected at the same concentration in the trip blank which indicates sample contamination in the field or in the laboratory. Pesticides and cyanide were not detected in sample SED-3.

SECTION 4 - DISCUSSION OF RESULTS AND INTERPRETATION

4.01 Air Monitoring

Short term air monitoring using an photoionization detector and long term air monitoring using sampling pumps indicate there were no detectable airborne releases of PCB's or volatile organic compounds or dust from the site during the field investigation. Since field investigation, activities were occurring on the site during the air monitoring, detectable airborne releases would not be expected at other times when no activities occur on the site.

4.02 Surface, Near-Surface and Subsurface Soils

Analyses of the soils indicate there are detectable levels of oil and grease at the site with highest concentrations in stained areas. Figure 9 shows the concentration of oil and grease in the isolated soil samples. Figure 10 shows the concentration and contours in the stained work area north of the quarry pond. High concentrations of oil and grease in non-stained sites #23, #24, and #25 are probably due to their proximity to the public roads near the site. Precipitation events can also mobilize oil and grease and transport it across the site.

PCBs at detectable levels were highest at areas where scrap operations were conducted. PCBs at concentrations of 50 ppm or greater were present in soils proximate to the work area north of the quarry pond. Figure 11 illustrates the concentration of PCB and delineates the area of 10 ppm and 50 ppm concentration or greater. The PCB concentrations outside the work area north of the quarry pond were generally low - less than 6.4 ppm. This is also true of PCB concentrations below

the upper 1 foot of soil. The highest concentration of PCBs in the subsurface soil samples was 6.6 ppm. Since the soil borings were placed in the immediate vicinity of the work area, the lower concentrations of PCBs indicate vertical migration of PCBs below 1 foot is limited. PCB concentrations in the soils 6 to 12 inches below the surface ranged from nondetectable to 32 ppm. This indicates that vertical migration of PCBs through the top 6 inches of soil is also limited.

The surface area of soil with PCB concentrations of 50 ppm or greater is approximately 1125 square yards (Figure 11). This area also includes the area surrounding soil samples #18, #19 and #20 which are isolated stained areas just to the north of the stained work area.

The surface area of soil with PCB concentrations of 10 ppm or greater is estimated at 2100 square yards. Based on the subsurface soil samples which indicate PCB concentrations of less than 10 ppm, a depth estimate of soil with a PCB concentrations of 10 ppm or greater is 1 foot. Therefore, a conservative estimate of the volume of soils with a PCB concentration of 10 ppm or greater is 700 cubic yards.

4.03 Ground Water

The only monitoring well that appears to exhibit elevated concentrations of contaminant indicators at this time is the upgradient well MW-1. MW-1 contains lead and PCBs at concentrations greater than NYS Class GA standards for ground water.

Based on the analytical results, three possible explanations for the elevated readings in MW-1 are:

- The well was not placed far enough upgradient from the work area or other sources of contamination to accurately represent upgradient ground water quality.
- 2. There is an upgradient source of PCBs in the ground water.
- 3. The sediment entrained in the ground water sample contains PCBs and lead and the analytical results do not accurately represent dissolved ground water quality.

Ground water flowing beneath the work area north of the quarry pond probably enters the quarry pond through the fractures in the bottom and sides. This ground water could contain contaminants either in solution or as suspended colloid particles in the ground water as flow occurs through bedrock fractures where particles could be transported. This could in turn affect the surface water and sediment chemistry in the guarry pond and discharge stream.

The ground water quality at downgradient wells, MW-2, MW-3 and MW-4, apparently has not been affected with concentrations of substances which would likely be indicators of the site. The probable reason PCBs were not detected is because they are not very soluble in water but readily adhere to soil particles, and oil and grease. The quarry pond is a principle discharge boundary for the ground water flowing beneath the site. Ground water, containing contaminants, upgradient of the quarry pond enters the pond through fractures in the bedrock and then exits via the quarry pond discharge stream.

4.04 Surface Water and Sediments

PCBs are present in the quarry pond water and sediments, the discharge stream water and in the discharge stream sediments. As discussed previously (Section 4.03), PCBs tend to adsorb to soil particles and oil and grease which can be mobilized in the surface water. This mechanism is the probable explanation of higher concentrations of PCB in the outflow stream sediment. The water in the stream is flowing at a higher velocity than water in the pond. This causes more turbulent flow which suspends a greater amount of soil particles with PCBs adhering to them. The sediments in the stream and pond are soil particles, some with PCBs adhering to them, that have fallen out of suspension in the water.

4.05 Contaminant Transport Mechanism

The common transport mechanism for PCBs is adsorption to a soil particle which can then be mobilized via air, surface water or ground water flow. Limited solubility of PCBs in water can occur and therefore PCB transport as a dissolved constituent in surface water and/or ground water can occur. Mobilization of oil and grease or organic compounds with PCB adsorbed to them can also transport PCBs.

Based on the analytical results, contaminant transport by surface water flow is the most probable transport mechanism for PCBs on the site. Surface water samples from the quarry pond and stream detected PCBs. Limited contaminant transport by ground water flow into the quarry pond may be suggested by the analytical results from well MW-1. This data should be confirmed.

Oil and grease also appears to be transported in the same manner by surface water on the site.

Based on the air sampling results, transport of PCBs by air does not appear to be a probable transport mechanism at the site. The soils at the site are fairly cohesive and, due to the oil and grease in the more contaminated areas, are not mobilized by air currents.

4.06 PCB Remediation Technologies

PCBs have been observed at the Wallace & Sons Site (Site) in soil, sediment, and surface water. The following presents an overview of remedial technologies which may be suitable for managing the contaminated media at the site.

4.06.01 Soil

Soil contaminated with PCBs can be remediated by a number of technologies. The type of technology used is often predicated by the volume of soil which requires remediation. On-site treatment technologies are generally used in situations where large volumes of highly contaminated soils are present, whereas off-site treatment or containment are the remedial methods of choice when smaller volume of soil with relatively low levels of contamination are present. The latter situation appears to be the case at the Site.

Typically, PCB-contaminated soils such as those observed at the Site are excavated using standard construction techniques and either incinerated or disposed in a properly designed landfill. Incineration involves the permanent destruction of PCBs in a high temperature vessel. Landfilling involves placement of the soils in a landfill designed to contain PCB-contaminated materials. Either of these methods could be readily implemented at the Site.

Other technologies which could potentially be applicable for soils at the Site include the following:

- vitrification
- chemical extraction
- soil washing
- stabilization/solidification
- biodegradation
- glycolate dechlorination

These technologies are treatment technologies which can be used to reduce the toxicity, mobility, or volume of PCBs in the soil.

4.06.02 Sediment

Sediments in the quarry pond which have been contaminated with PCBs could be managed similarly to the soils. The sediments could be removed from the pond and incinerated, landfilled, or treated using the same technology as that for the soil. If the sediments were to be landfilled, they would require dewatering prior to landfilling. The sediments could be removed from the quarry using hydraulic dredging techniques, although the effectiveness of hydraulic dredging may be reduced by the conditions of the bottom of the quarry. Spoils from the dredging operation would require special handling and space. Lack of spoils storage space may preclude the removal of the sediments from the quarry.

The sediments could also be immobilized in place by adding activated carbon to treat the water in the quarry pond. This is discussed below.

4.06.03 Surface Water

PCBs have been observed in the water in the quarry pond. Carbon adsorption is the treatment technology of choice for removal of PCBs from water. Activated carbon filters could be used to treat the water as it leaves the quarry pond through the drainage channel. Alternatively, powdered or granular activated carbon could be added to the pond. As the carbon settles, PCBs in the water column would adsorb to the carbon. The carbon could also be expected to bind PCBs which have been observed in the sediment, making them immobile.

SECTION 5 - SUMMARY

5.01 Conclusions

The following presents conclusions regarding the site conditions at M. Wallace and Son, Inc. Scrapyard. These conclusions are based on data collected during the site investigation completed at the site.

- Visual observation and grain size analyses of the subsurface soils indicate they consist primarily of silt and clay. These deposits are glaciolacustrine in origin and known to range at least 3.3 to 18 feet in thickness at the site.
- The bedrock underlying the glaciolacustrine deposits is gray Onondaga Limestone from the Lower to Middle Devonian. Fractures, bedding planes and joints control ground water movement.
- Soils at the site were found to contain oil and grease and PCBs. Highest concentrations were found in the work area north of the quarry pond.
- Concentrations of PCBs in soils beneath the top 12 inches of soil are lower, below 10 ppm, than the concentrations of PCB in the top 12 inches of soil.
- An estimated 700 cubic yards of soil have PCB concentrations
 of 10 parts per million (ppm) or greater.
- The surface water in the quarry pond and outflow stream contain concentrations of PCBs ranging from 0.12 ppb to 0.72 ppb.

- Sediment samples from the quarry pond and outflow stream contain PCB at concentrations ranging from 3.8 ppm to 28 ppm.
- The upgradient ground water monitoring well contains lead at 0.22 ppm and PCB at 1.5 ppb.
- Analytical data for downgradient ground water monitoring wells indicate the parameters tested for are below NYS Class
 GA standards and guidelines for ground water. No PCBs were detected.
- Hydraulic conductivity tests conducted on the monitoring wells indicate hydraulic conductivity values ranging from 1.7×10^{-5} ft/sec (11 gpd/ft²) to 1.5×10^{-8} ft/sec (9.7×10⁻³ gpd/ft²). Ground water in the bedrock is flowing to the south-southwest.
- The quarry pond appears to be part of the ground water system. Ground water flows into the pond through fractures in the sides and bottom of the quarry and exits via the outflow stream and possibly fractures on the downgradient (south) side of the quarry.

5.02 Recommendations

The following presents recommendations regarding the M. Wallace and Son, Inc. Scrapyard.

 Ground water samples should be periodically collected to confirm previous analytical results and monitor the site ground water quality.

- Pending soil removal, access to portions of the site should be further controlled to prevent people from coming into direct contact with compounds found at the site.
- 3. Access to the quarry pond should be further controlled.
- 4. Soils with PCB concentrations in excess of 10 ppm should be excavated and removed from the site. Off-site soil treatment or disposal options should be evaluated.
- 5. On-site stream sediments with PCB concentrations in excess of 10 ppm should be excavated and removed from the site. Off-site treatment or disposal options should be evaluated.
- 6. Surface water discharge from the quarry pond should be treated for PCBs prior to surface water discharge off-site. The surface water quality and treatment system performance should be periodically monitored.

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- Fisher, D.W. et al., 1970, Geologic Map of New York, Hudson-Mohawk Sheet: New York State Museum and Science Service, Map and Chart Series No. 15.
- Freeze, R.A. and J.A. Cherry, 1979, Ground Water. Prentice-Hall, Inc., Englewood Cliffs, New Jersey.
- K.W. Brown & Associates, 1980; "Hazardous Waste Land Treatment;" United States Department of Commerce, Publication PB81-182107.
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TABLE 1 ANALYTICAL METHODS FOR SAMPLES M. WALLACE & SON, INC. SCRAPYARD COBLESKILL, NEW YORK

Sample Matrix	<u>Analysis</u>	USEPA Analytical Method (USEPA, 1982a)
Soil	Oil and Grease PCBs (detection limit of 5 ppm)	9070 8080
	NYSDEC HSL	8080, 6000 & 7000 Series 9010, 8240, 8270
Surface Water and Ground Water	Purgeables Base Neutrals	608 601 & 602 625
	Metals (As, Ba, Cd, Cr, Pb, Hg, Ag, Zn)	200 Series
	NYSDEC HSL	608, 624, 625, 200 Series, 335
Subsurface Soil	PCBs Metals (As Ba Cd Cr Pb	8080
3011	Metals (As, Ba, Cd, Cr, Pb, (Hg, Ag, Zn) Purgeables	7000 Series 8010 & 8020
	NYSDEC HSL	8080, 6000 & 7000 Series, 9010, 8240, 8270
Sediment	PCBs Metals (As, Ba, Cd, Cr, Pb,	8080
	(Hg, Ag, Zn)	7000 Series
	NYSDEC HSL	8080, 6000 & 7000 Series, 9010, 8240, 8270

Note: #1: Methodology in NYSDOH <u>"Analytical Handbook"</u> (1980) will be used.

TABLE 2

GROUND WATER ELEVATIONS
11/19/89
DATUM USED: 400 FT.

M. WALLACE & SON, INC. SCRAPYARD COBLESKILL, NEW YORK

	Ground Elevation	Casing Elevations	Elevation of Bottom of Well	Depth to <u>Water</u>	Ground Water Elevation
Pond	NA	NA	NA	NA	394.51*
MW-1	436.5	438.59	400.6	23.54	415.05
MW-2	397.7	399.36	363.7	7.18	392.18
MW-3	392.2	401.00	373.7	7.68	393.32
MW-4	397.4	39.21	363.4	5.00	394.21

All measurements in feet

NA - Not Applicable

^{*}Surface of water in pond

TABLE 3 SURFACE AND NEAR SURFACE SOIL ANALYSES

M. WALLACE AND SON SCRAPYARD COBLESKILL, NEW YORK

SAMPLE NO.	OIL & GREASE	PCB	AROCLOR
LINE 1-0'	10,000	39	1260
LINE 1-15'	20,000	140	1254+1260
LINE 1-301	12,000	56	1260
LINE 1-45'	38,000	170	1260
LINE 1-60'	48,000	560	1260
LINE 1-75'	58,000	190	1260
LINE 1-90'	50,000	34	1260
LINE 1-105'	81,000	88	1260
LINE 1-120'	74,000	74	1248+1260
LINE 1-135'	44,000	3 2	12 48+1 260
LINE 1-135'(DUP1)	54,000		
LINE 1-135' (DUP2)	44,000		
LINE 1-150'	110,000	91	1248+1260
LINE 1-165'	23,000	40	1260
LINE 1-180'	42,000	56	1248+1260
LINE I-195'	45,000	140	1248+1260
LINE 1-210°	59,000	62	1248+1260
LINE 1-225'	66,000	31	1248+1260
LINE 1-240°	78,000	35	1248+1260
LINE I-255'	58,000	300	1248+1260
LINE 1-270'+	9,100	14	1260
LINE 1-285'	820	(0.6	
LINE 1-300'	840	(0.6	
LINE 2-15'N	22,000	97	1260/54
LINE 2-15'S	52,000	33	1260
LINE 3-15'N	11,000	54	1260
LINE 3-15'S	16,000	14	1260
LINE 4-15'N	2,300	4.0	1260
LINE 4-15'S	63,000	32	1260
LINE 4-15'S(DUP1)	62,000		
LINE 4-15'5(DUP2)	42,000		
LINE 5-15'N	63,000	51	1260
LINE 5-22'S	32,000	10	1260
LINE 5-30'S	28,000	13	1260
LINE 6-15'N	8,800	3.7	1260
LINE 6-15'N(DUP1)	7,300	G) i	1200
LINE 6-15'N(DUP2)	3,600		
LINE 6-15'S	65,000	91	1248+1260
LINE 6-30'S	36,000	32	1260
LINE 7-12'N	25,000	2100	1248
LINE 7-12'N (DUP1)	20,000	2100	12.0
	•		
LINE 7-12'N(DUP2)	28,000	50	1248+1260
LINE 7-15'S	120,000		
LINE 7-30'S	95,000	15	1254/1260
LINE 8-15'N	1,400	2.0	1260
LINE 8-15'S	26,000	50	1248+1260
LINE 8-30'S	380	15	1248+1254
LINE 8-45'S	42,000	25	1248+1260
LINE 8-45'S(DUP1)	34, 000		

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TABLE 3 SURFACE AND NEAR SURFACE SOIL ANALYSES

M. WALLACE AND SON SCRAFYARD COBLESKILL, NEW YORK

SAMPLE NO.	DIL & GREASE	PC9	AROCLOR
LINE 8-45'S(DUP2)	30,000		
#16	450	4.7	1248+1260
#17	54,000	1.9	1260
#18	58,000	160	1248+1260
#19	38,000	120	1260
#20	112,000	470	1248+1260
#21	190	(0.6	
122	130	(0.7	
#23	15,000	(0.6	
#24	1,700	1.9	1260
#25	3,500	(0.5	
#26	8,000	5.0	1260/54
\$27	7,500	4.7	1248+1260
#29	420	2.2	1248+1250
#30	1,800	6.4	1248+1260
WS-1*	NA	31	1016/1242
₩5-1*	NA	6 9	1260
WS-2*	₩	6.3	1016/1242
WS-2*	NA	39	1260

NOTES: All analytical values reported in mg/kg (ppb).

* - Identifies HSL sample.

NA - Not analyzed.

VS-1

) Initial sois samples collected/December 1987.

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METALS ANALYSIS FOR SOILS

M. WALLACE AND SON SCRAPYARD

COBLESKILL, NEW YORK

BORING NO.	CONCENTRATION IN	B-1	B-1	B-5	B-2*	B-3	B-3	B-4	B-4	LINE 1		
DEPTH (FT)	SOILS (1)	0-3.3'	0-3.3(DUP)	2-41	6-8¹	2-41	6- 8'	2-41	6-8'	270' *	WS-1*	WS-2*
ALUMINUM		NA	NA	NA	17,000	NA NA	NA	NA	NA	18,000	4, 110	10, 200
ANT I MONY		N / A	NA	NA	(12	NA	NA	NA	NA	(6	(6	(6
ARSENIC	0.1 - 40	8.3	8. 2	7.5	7.8	7.9	4	4.5	5.3	9	10	99.6
BAR1UM		190	210	150	110	77	50	51	67	130	119	1,370
BERYLLIUM		NA ·	NA	NA	(2.4	NA	NA	NA	NA	(1.2	0.77	0.85
CADMIUM	0.01 - 7	(1.2	(1.2	(1.3	(2.4	(1.2	(5.6	(2, 2	(2.3	(1.2	5.6	71.6
CALCIUM		NA	N/A	NA	67,000	NA	NA	NA	NA	11,000	198,000	32,500
CHROMIUM	5 - 3,000	29	34	27	47	18	18	12	16	26	161	81.2
COBALT	1 - 40	NA	NA	NA	(12	NA	NA	NA	NA	9.4	12.3	7.5
COPPER	2 - 100	NA	NA	NA	26	NA	NA	NA	NA	66	4,600	2,940
I RON		NA	NA	NA	23,000	NA	NA	NA	NA	26,000	24,400	86,100
LEAD	2 - 200	240	130	27	41	16	62	11	95	110	682	8,860
MAGNESIUM		NA	NA	NA	4,400	NA	NA	NA	NA	4,300	4,880	4,240
MANGANESE	100 - 4,000	NA	NA	NA	560	NA	NA	NA	NA	570	461	617
MERCURY		(0.5	(0.5	(0.5	(0.5	(0.5	(0.5	(0.5	(0.5	(0.5	0.4	1.9
NICKEL	10 - 1,000	NA	NA	NA	45	NA	NA	NA	NA	31	147	(4
POTASSIUM		NA	NA	NA	3,100	NA	NA	NA	NA	2,500	(500	(500
SELENIUM	0.1 - 2.0	NA	NA	NA	(6	NA	NA	NÃ	NA	(6. 0	0.5	0.5
SILVER		(1.2	(1.2	(1.3	(2.4	(1.2	(5.6	(2.2	(2.3	0.2	4.2	8.4
SODIUM		NA	NA	NA	250	NA	NÃ	NA	NA	130	(500	(500
THALLIUM		NA	NA	NA	(1.2	NA	NA	NA	NA	(1.2	5.6	14.2
VANADIUM	20 - 50 0	NA	NA	NA	35	NA	NÃ	NA	NA	37	25.6	16.6
ZINC	10 - 300	130	100	82	83	82	39	49	170	160	734	3,840

NOTES:

TYPICAL RANGE OF

All analytical values measured in mg/kg.

^{* -} Identifies HSL sample.

NA - Not analyzed.

^{(1) -} Typical ranges of concentration for trace metals in soils from "Hazardous Waste Land Treatment," 1980, U.S. Dept. of Commerce Publication PB81 - 182107

TABLE 5 PCB AMALYSIS FOR WATER, SEDIMENTS AND SUBSURFACE SOILS

M. WALLACE AND SON SCRAPYARD COBLESKILL, NEW YORK

SAMPLE NO.	UNITS	PCB	ARDCLOR
₩-1 +	ug/I	0.39	1248+1260
₩ - 2	ug/l	0.24	1248+1260
₩-3	ug/l	0.12	1248+1260
H-4	ug/I	0.72	1248+1260
MH-1	ug/l	i.5	1260
 4 −2	ug/l	(0.065	
MH-3*	ug/l	(0.065	
MU-4	ug/l	(0.065	
SED-1	ng/kg	3.8	1254/1260
SED-2	mg/kg	5.8	1248+1254/60
SED-3*	mg/kg	(6.4 (0.23)**	1254
SED-4	mg/kg	4.6	1248+1254/60
SED-5	ng/kg	28	1248+1260
SED-6	mg/kg	5.0	1248+1254/60
B-1 (0-3, 31)	mg/kg	0.31	1260
B-2 (2-41)	∞ g/kg	0.38	1248+1260
B-2* (6-81)	mg/kg	1.0	1248+1260
B-3 (2-41)	mg/kg	0.25	1248+1260
B-3 (6-8 ¹)	mg/kg	6.6	1248+1260
B-4 (2-61)	mg/kg	1.5	1260
B-4 (6-81)	mg/kg	4.2	1248+1260

NOTES: * - Indicates HSL sample.

^{** -} Estimated value.

TABLE 6
VOLATILE AND SEMI-VOLATILE ANALYSES

M. WALLACE AND SON SCRAPYARD COBLESKILL, NEW YORK

	MH-1 	MW-4 	SED-3*	WS-1*	WS-2*	B-2+ (6-8')
1-DICHLOROETHENE	(1	(1	(13	9, 385	4, 800	(6
XYLENES	(1	(1	(13	(625	1,580	(6
***SETONE	NA	NA	150 B	(1,250	2,600 B	(12
.(NA	NA	NA	7,390 B	6,700	NA
CHLOROFORM	5	(1	(13	(625	(625	⟨6
THYLENE CHLORIDE	(1	{1	54 B	(1,250	(1,250	· (6
PHANATHRENE	(11	(11	(8, 700	15,000	(3, 300	(400
THYTHRACENE	(11	(11	(8, 700	4,000	(3, 300	(400
-N-BUTYL-PHTHALATE	(11	(11	(8,700	6,000	10,000	(400
FLUORANTHENE	(11	(11	(8, 700	52,000	21,000	(400
RENE	(11	(11	(8,700	11,000	3,400	(400
BUTYL BENZYL PHTHALATE	(11	(11	(8, 700	(3,300	7,000	(400
WES (2-ETHYLHEXYL) PHTHALATE	(11	16	(8,700	5,800	(3, 300	880
RYSENE	(11	(11	(8, 700	30,000	9,000	(400
BENZO (A) ANTHRACENE	(11	(11	(8,700	23,000	7,000	(400
NZG(B) FLUDRANTHENE	(11	(11	(8, 700	11,000	(3, 300	(400
RFNZO(K) FLUORANTHENE	(11	(11	(8,700	11,000	(3, 300	(400
BENZD (A) PYRENE	(11	(11	(8, 700	5,000	9,100	(400
DENO(1,2,3-CD)PYRENE	{11	(11	(8,700	5,000	(3, 300	(400

NOTES: All analytical values measured in (ppb).

^{* ~} Identifies HSL sample.

B - Detected in blank.

NA - Not analyzed.

TABLE 7 METALS ANALYSIS FOR WATER AND SEDIMENT

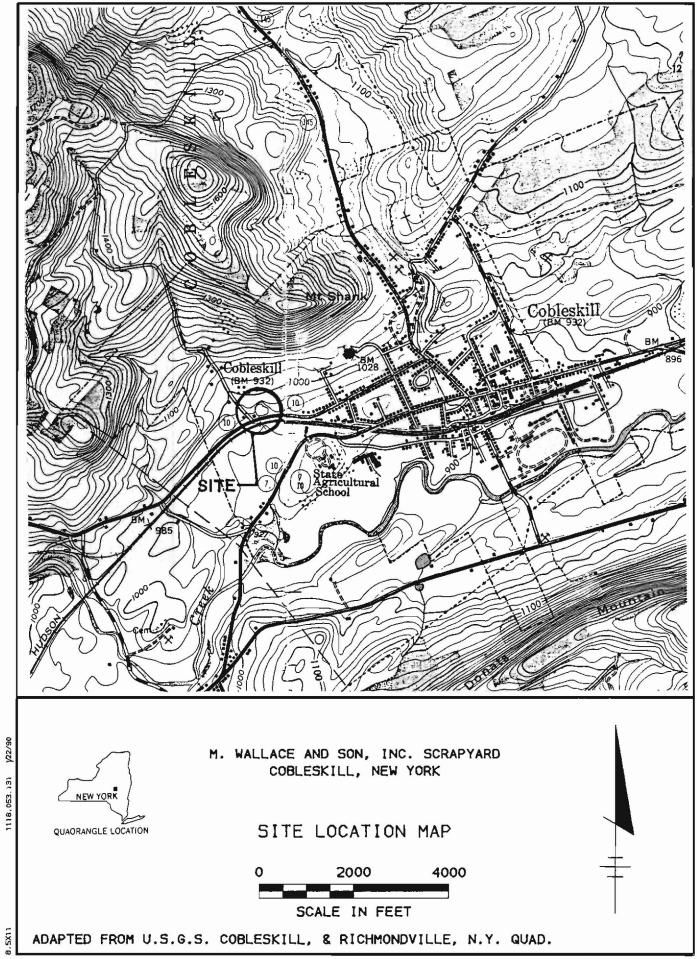
M. HALLACE AND SON SCRAPYARD COBLESKILL, NEW YORK

SAMPLE NO. UNITS	SED-1 (mg/kg)	SED-2 (mg/kg)	SED-3* (mg/kg)	SED-4 (mg/kg)	SED-5 (mg/kg)	SED-6 (mg/kg)	(mg/1)	MH-2 (mg/1)	MW~3* (mg/1)	MW-4 (mg/l)	₩-1 = (mg/l)	W-1(DUP) (mg/l)	₩-2 (mg/l)	W-3 (mg/1)	¥-4 (юg/l)
ALUMINUM	NA	NA	B, 400	NA NA	NA NA	NA	NA	NA NA	5.0	NA	(0.2	NA NA	NA	NA NA	•• ∿A
PANTIMONY	NA	NA	⟨26	N/A	NA	NA	NA	NA	(0.06	NA	(0.06	NA	NA	NA	NĤ
ARSENIC	6.1	8.4	3.5	3.3	5.6	2.6	(0.005	(0.005	(0.005	(0.005	(0.005	(0.005	(0.005	(0.005	(0.005
BARIUM	(180	(210	100	(230	(160	(74	(0.5	(0.5	0.3	(0.5	(0.2	(0.5	(0.5	(0.5	(0.5
BERYLLIUM	N A	NA	1.3	NA	NA	NA	NA	NA	(0.005	NA	(0.005	NA	N#A	NA	NA
CADMIUM	(4)	(5	(1.1	(5	{3	(2	(0.01	(0.01	(0.005	(0.01	(0.005	(0.01	(0.01	(0.01	(0.01
CALCIUM	NA	NA	140,000	NA	NA	NA	NA	NA	230	NA	100	NA	NA	NA	NA
CHROMIUM	22	31	18	19	31	13	(0.05	(0.05	0.02	(0.05	(0.01	(0.05	(0.05	(0.05	(0.05
COBALT	NA	NA	(2.6	NA	NA	NA	NA	NA	(0.05	NA	(0.05	NA	NA	NA	NA
COPPER	NA	NA	43	NA	NA	NA	NA	NA	(0.025	NA	(0.025	NA	NA	NA	NA
IRON	NA	NA	13,000	NA	N#A	NA	NA	NA	18	NA	(0.1	NA	NA	NA	NA
LEAD	84	84	32	37	910	160	0.22	(0.05	0.007	(0.05	(0.005	(0.05	(0.05	(0.05	(0.05
MAGNESIUM	NA	NA	2,600	NA	NAR	NA	NA	NA	19	NA	6	NA	NA	NA	NA
MANGANESE	NA	NA	150	NA	NA	NA	NA	NÐ	1.1	NA	0.16	NA	NA	NA	NA
MERCURY	(1.8	(2.1	(1.3	(1.2	(0.8	(0.8	(0.0005	(0.0005	(0.0005	(0.0005	(0.0005	(0.0005	(0.0005	(0.0005	(0.0005
NICKEL	NA	NA	15	NA	NA	NA	NA	NA	(0.04	N A	(0.04	NA.	NA	NA	NA
POTASSIUM	NA	NA	(530	NA	NA	NA	NA	NA	(50	NA	(50	NA	NA	NA	NA
SELENIUM	NA	NA	(1.3	NA	NA	NA.	NA	NA	(0.005	NA	(0.005	NA	NA	NA	NA
SILVER	(4	(5	1.3	(5	(3	(2	(0.01	(0.01	(0.01	(0.01	(0.01	(0.01	(0.01	(0.01	(0.01
SODIUM	NA	NA	490	NA	NA	NA	NA	NA	170	NA	24	NA	NA	NA	NA
THALL IUM	NA	NA	(3	NA	NA	NA	NA	NA	(0.01	NA	(0.01	NA	NA	NA	NA
MUIDAMAY	NA	NA	18	NA	NA	NA	NA	NA	(0.05	NA	(0.05	NA	NA	NA	NA
ZINC	220	230	109	140	440	110	0.14	0.04	0.03	0.02	0.02	0.07	0.01	0.03	0.02

NOTES: All analytical values measured in mg/l unless otherwise noted.

* Identifies HSL sample.

NA - Not analyzed.

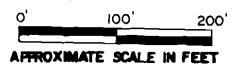


SITE INVESTIGATION
M. WALLACE AND SON, INC.
SCRAPYARD
COBLESKILL, NEW YORK

SITE MAP ,

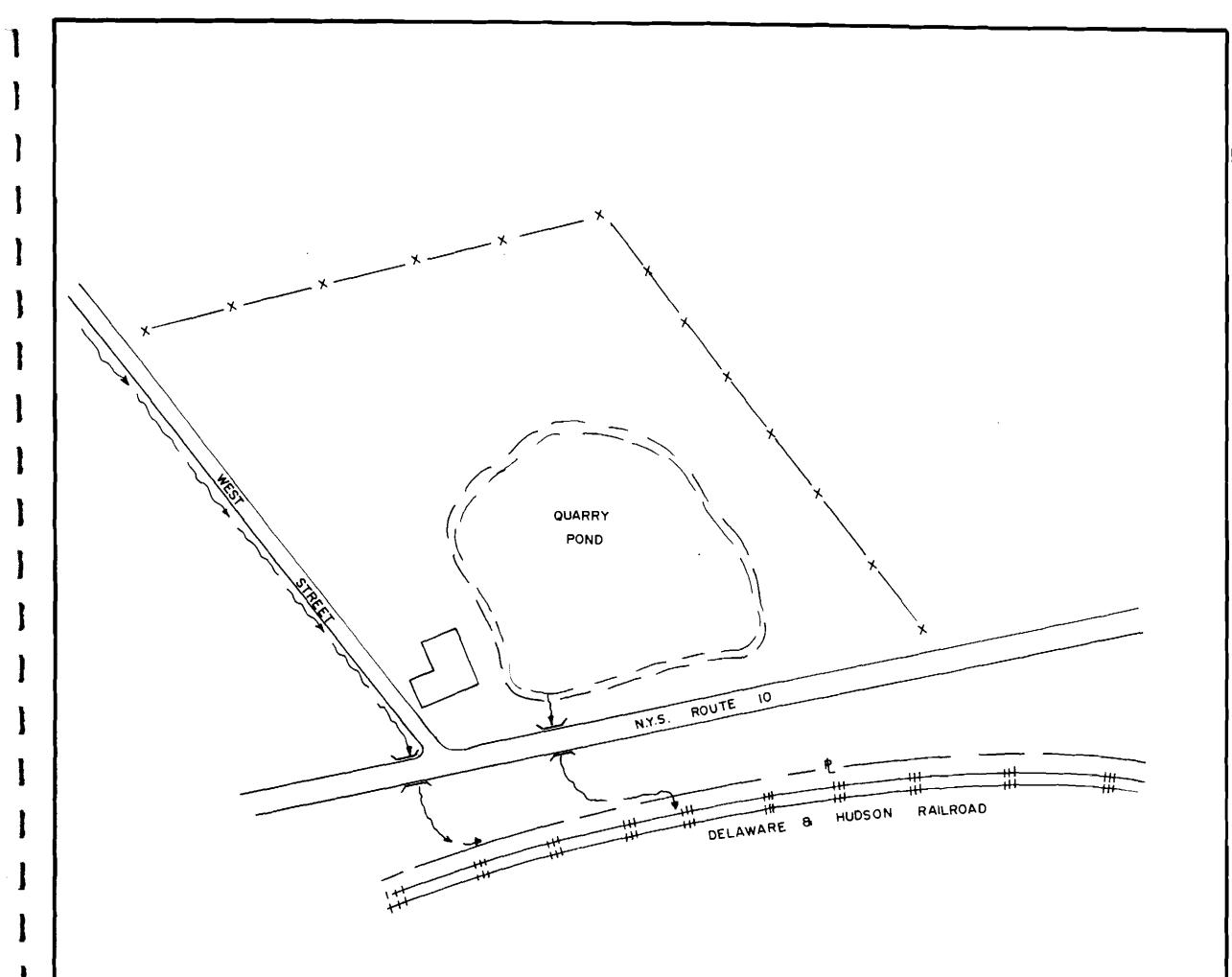
LEGEND

SYMBOL FOR STREAMS



NOTE SITE FEATURES MAY NOT BE TO SCALE





SCRAPYARD COBLESKILL, NEW YORK

·

SURFACE AND NEAR-SURFACE SOIL SAMPLING LOCATIONS



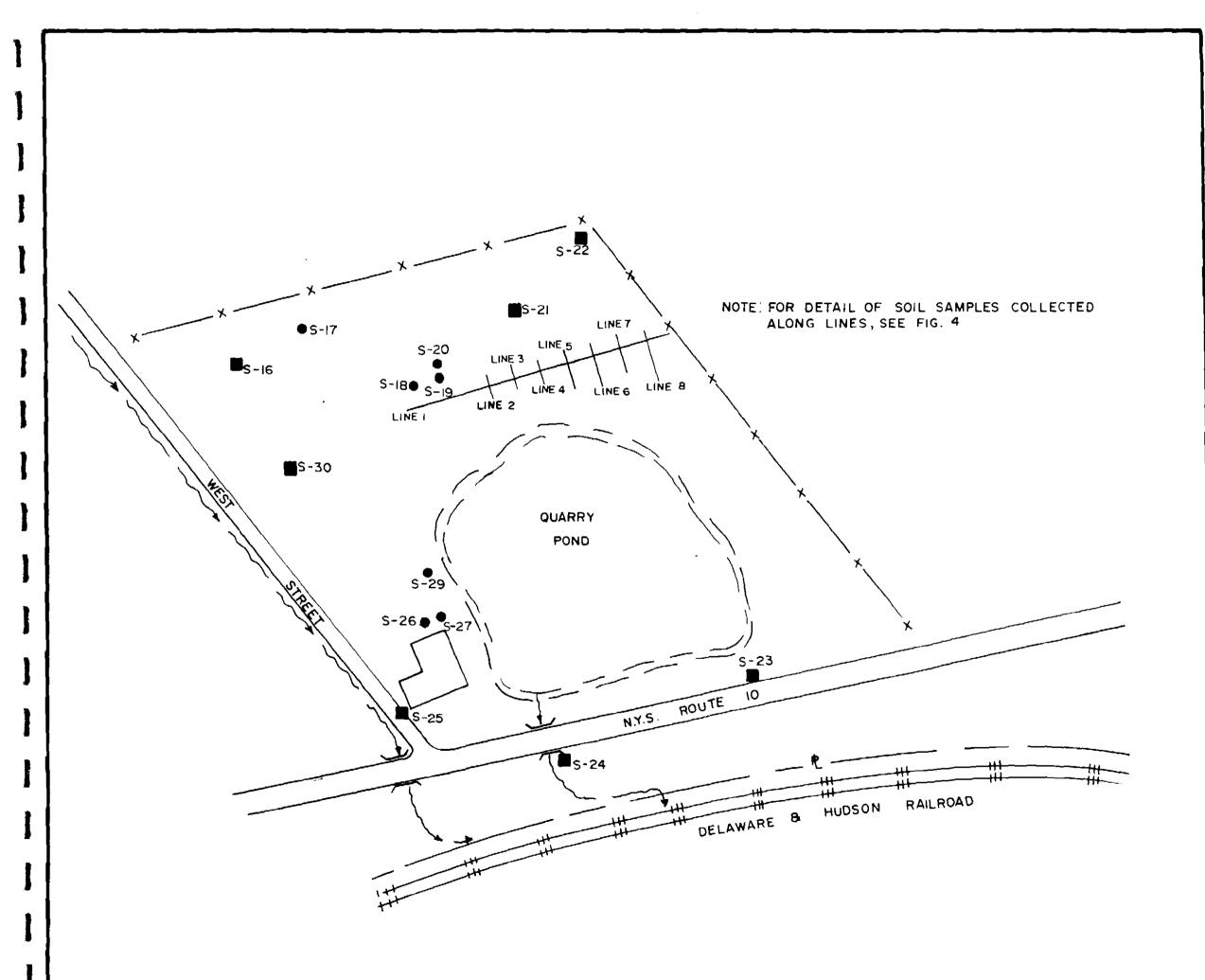
- SOIL SAMPLE-(STAINED)
- SOIL SAMPLE -(UNSTAINED)

O' 100' 200'

APPROXIMATE SCALE IN FEET

NOTE SITE FEATURES MAY NOT BE TO SCALE

OTERHEN 6 GERE





DETAIL OF SURFACE AND NEAR-SURFACE SOIL SAMPLING AND AIR SAMPLING LOCATIONS



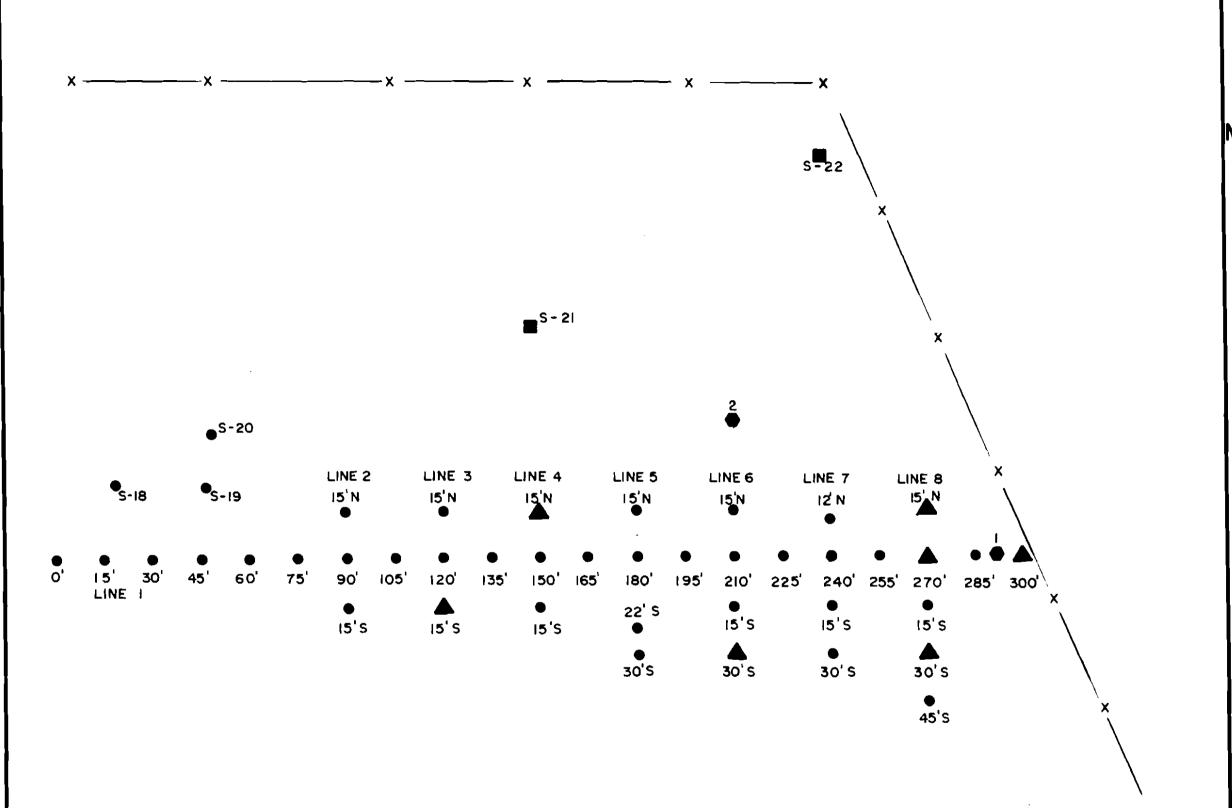
<u>LEGEND</u>

- AIR SAMPLING LOCATION
- SOIL SAMPLE 0-6" DEEP
- SOIL SAMPLE 6-12 DEEP
- SOIL SAMPLE 0-6" DEEP

(UNSTAINED)

APPROXIMATE SCALE IN FEET

OBRIEN S GERE



SITE INVESTIGATION
M. WALLACE AND SON,INC.
SCRAPYARD
COBLESKILL, NEW YORK

SOIL BORING LOCATIONS

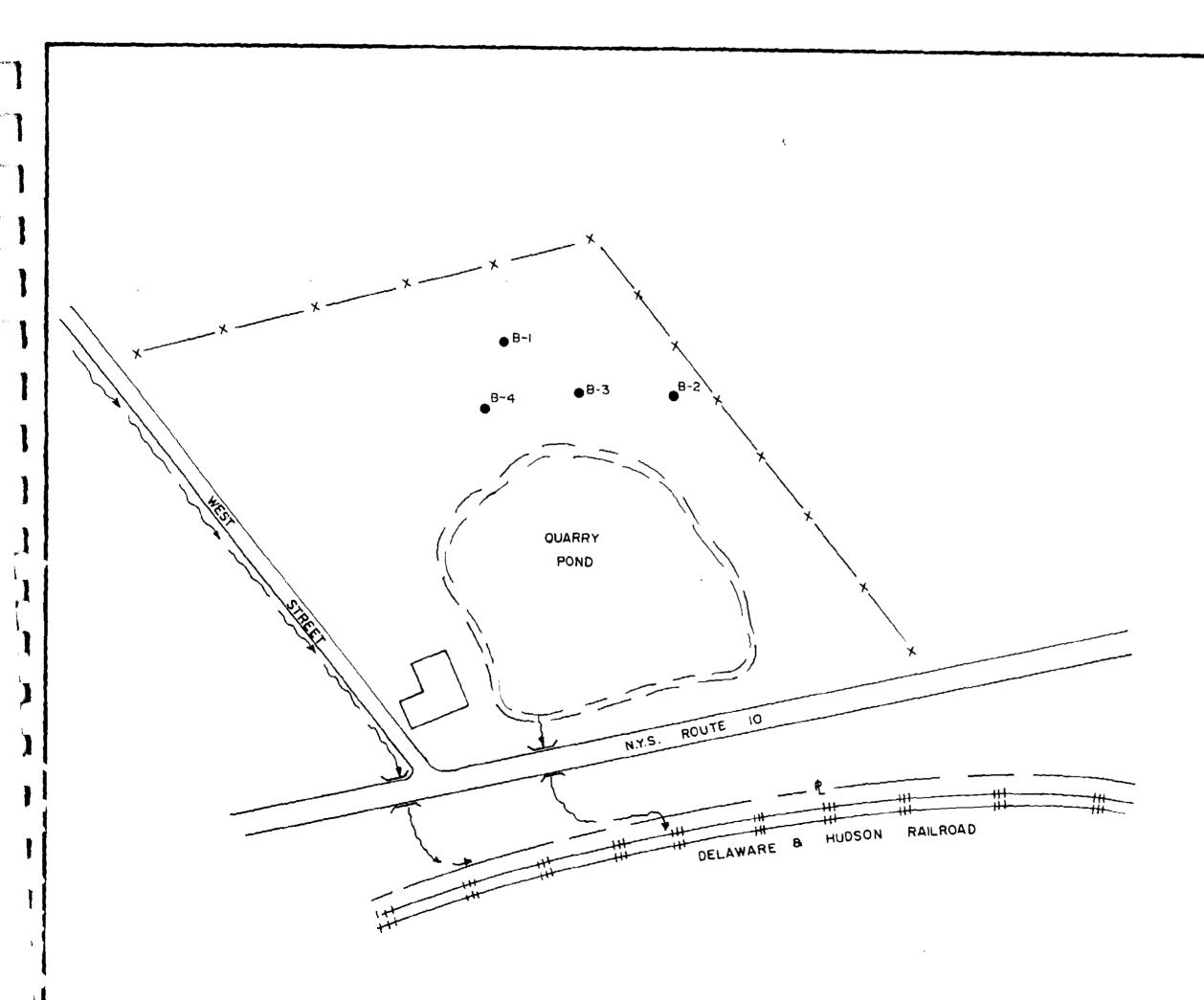
LEGEND

• SOIL BORING

SYMBOL FOR STREAMS

APPROXIMATE SCALE IN FEET

NOTE: SITE FEATURES MAY NOT BE TO SCALE

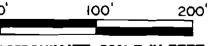


SITE INVESTIGATION SCRAPYARD COBLESKILL, NEW YORK **→**MW-I **WELL LOCATIONS** QUARRY POND ROUTE LEGEND **⊕** MW-2 **⊕**_{MW-3} SYMBOL FOR STREAMS DELAWARE & HUDSON RAILROAD APPROXIMATE SCALE IN FEET NOTE: SITE FEATURES MAY NOT BE TO SCALE

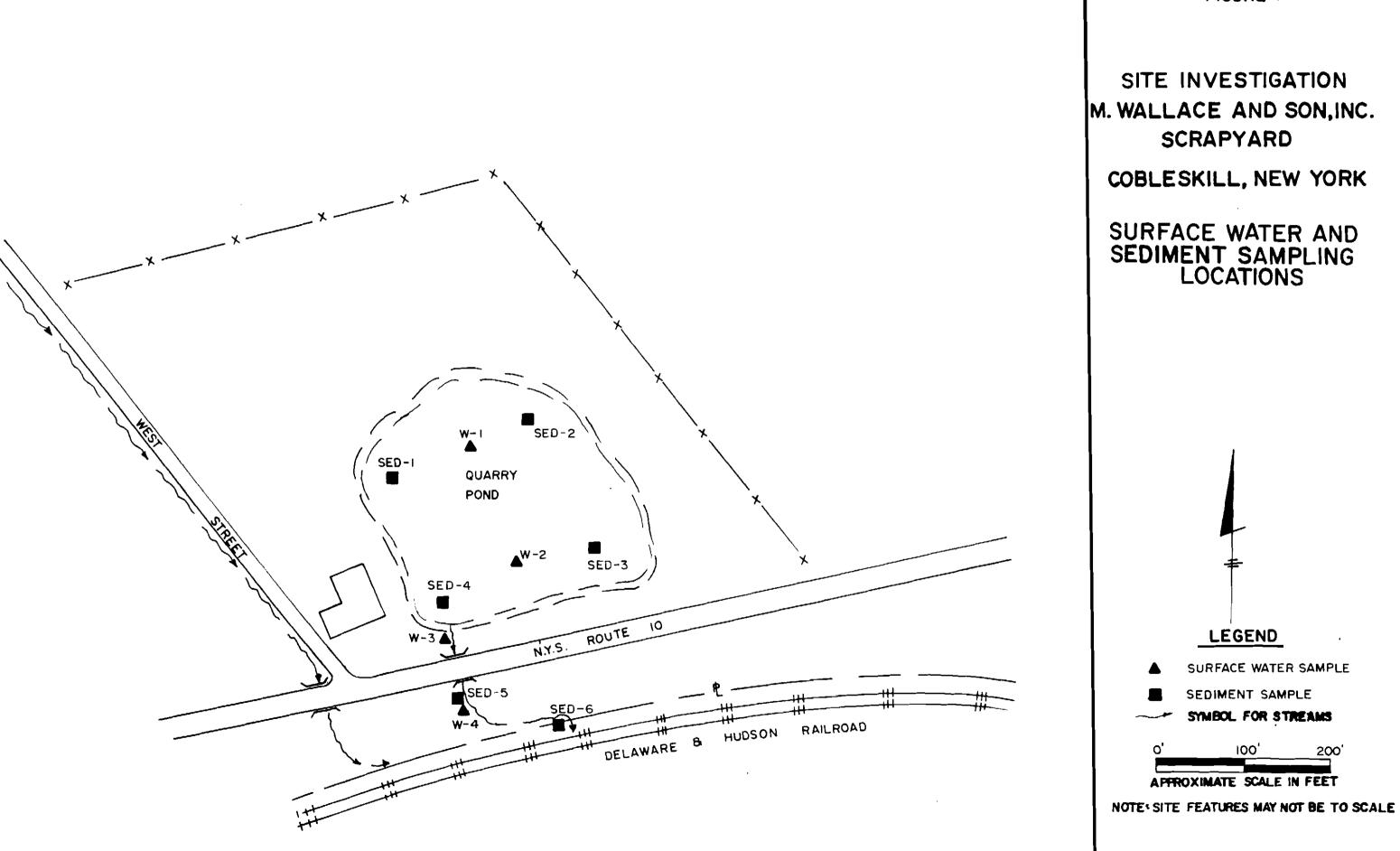
M. WALLACE AND SON, INC.

GROUND WATER MONITORING

GROUND WATER MONITORING WELL







DE O'BRIEN 5 GERE

200

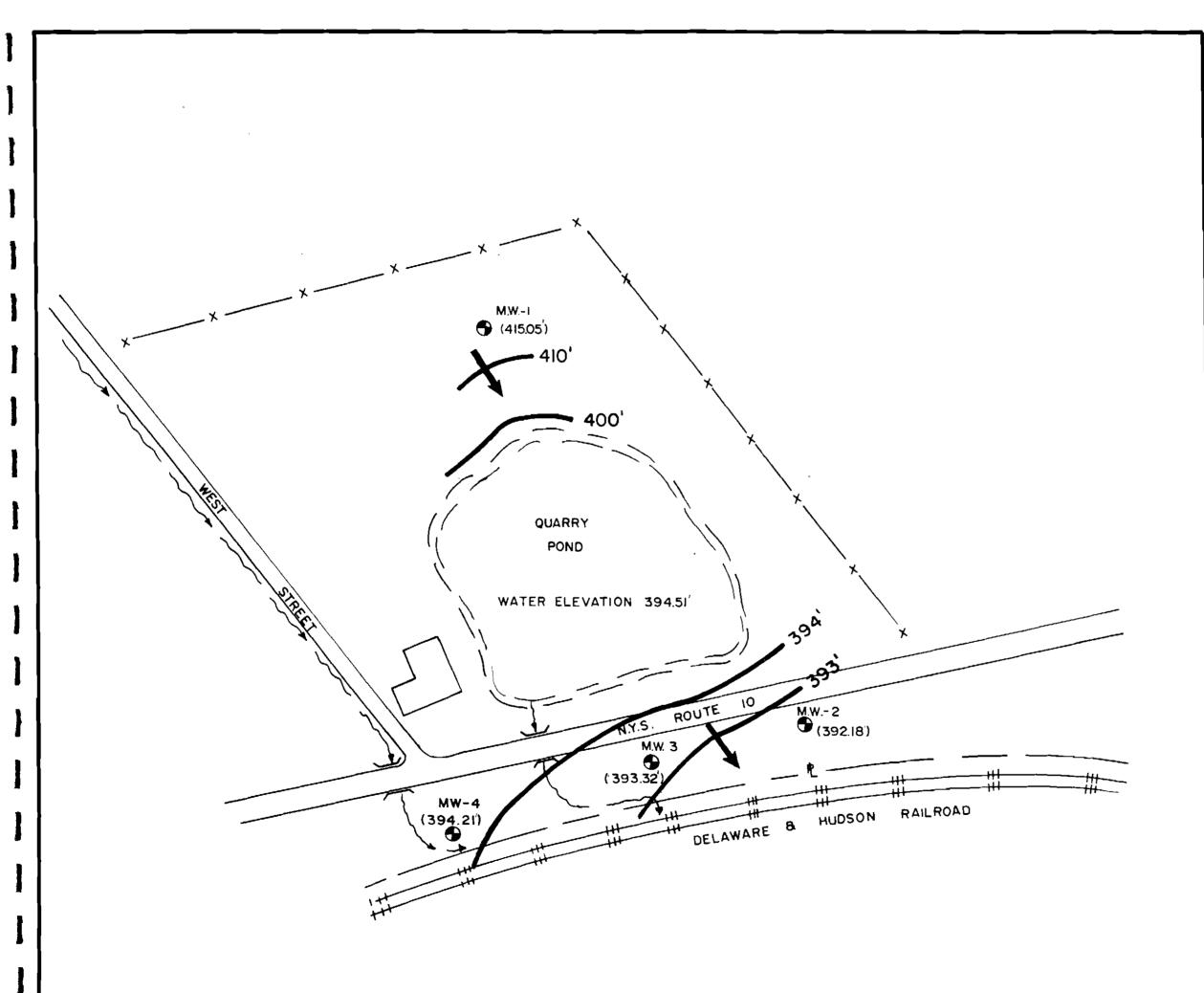
SITE INVESTIGATION M. WALLACE AND SON, INC. **SCRAPYARD** COBLESKILL, NEW YORK GROUND WATER CONTOUR MAP 11/10/89 ASSUMED DATUM OF 400 FEET LEGEND GROUND WATER MONIT-GROUND WATER CONTOUR GROUND WATER ELEVATION GROUND WATER FLOW DIRECTION SYMBOL FOR STREAMS

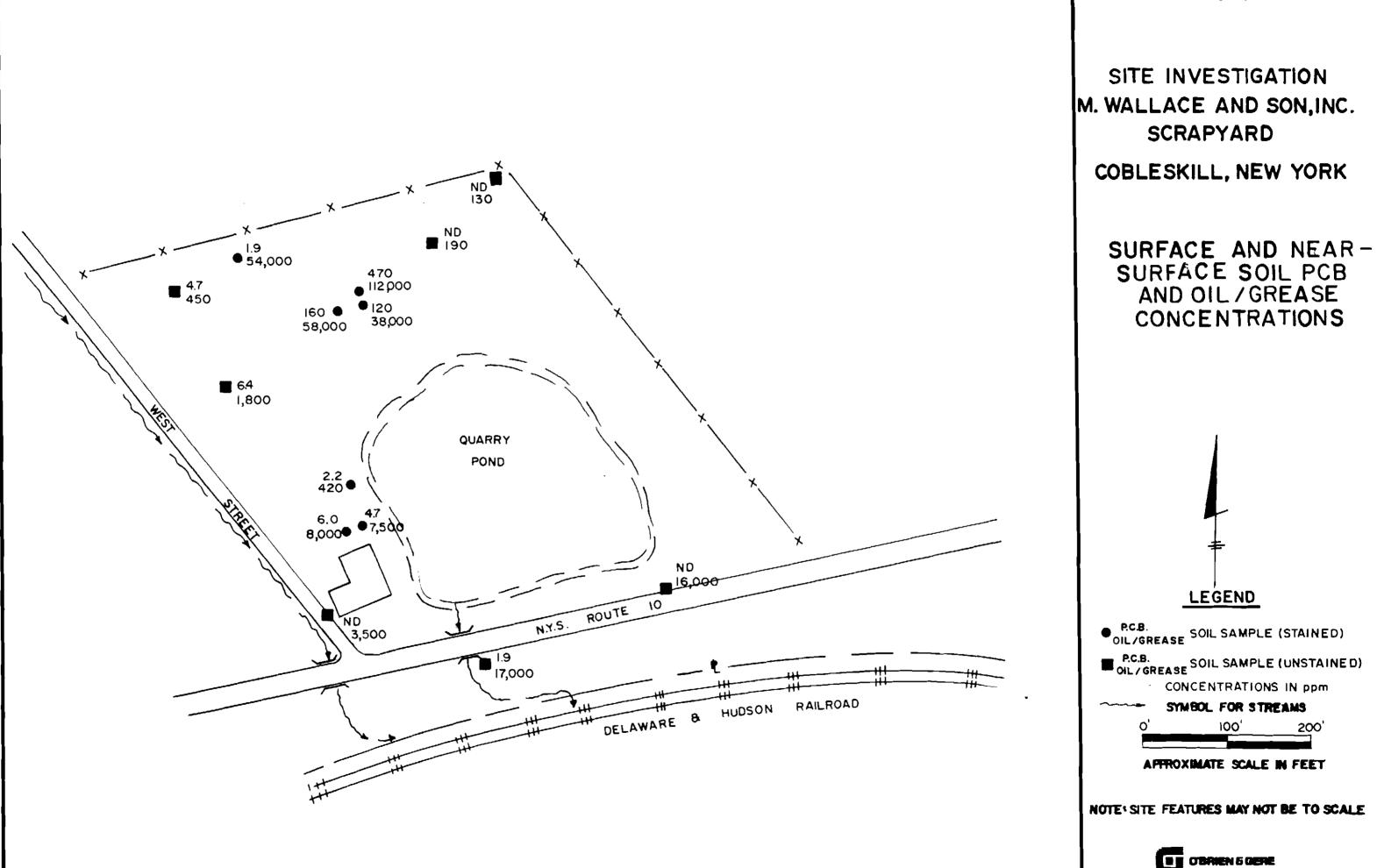
O' 100' 200'

APTROXIMATE SCALE IN FEET

NOTE: SITE FEATURES MAY NOT BE TO SCALE

OBNIEN 5 DERE



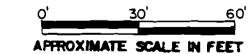


SITE INVESTIGATION M. WALLACE AND SON, INC. SCRAP YARD COBLESKILL, NEW YORK OIL AND GREASE CONCENTRATION CONTOUR MAP CONTOUR LEVELS 10 ppt 50 ppt IOO ppt

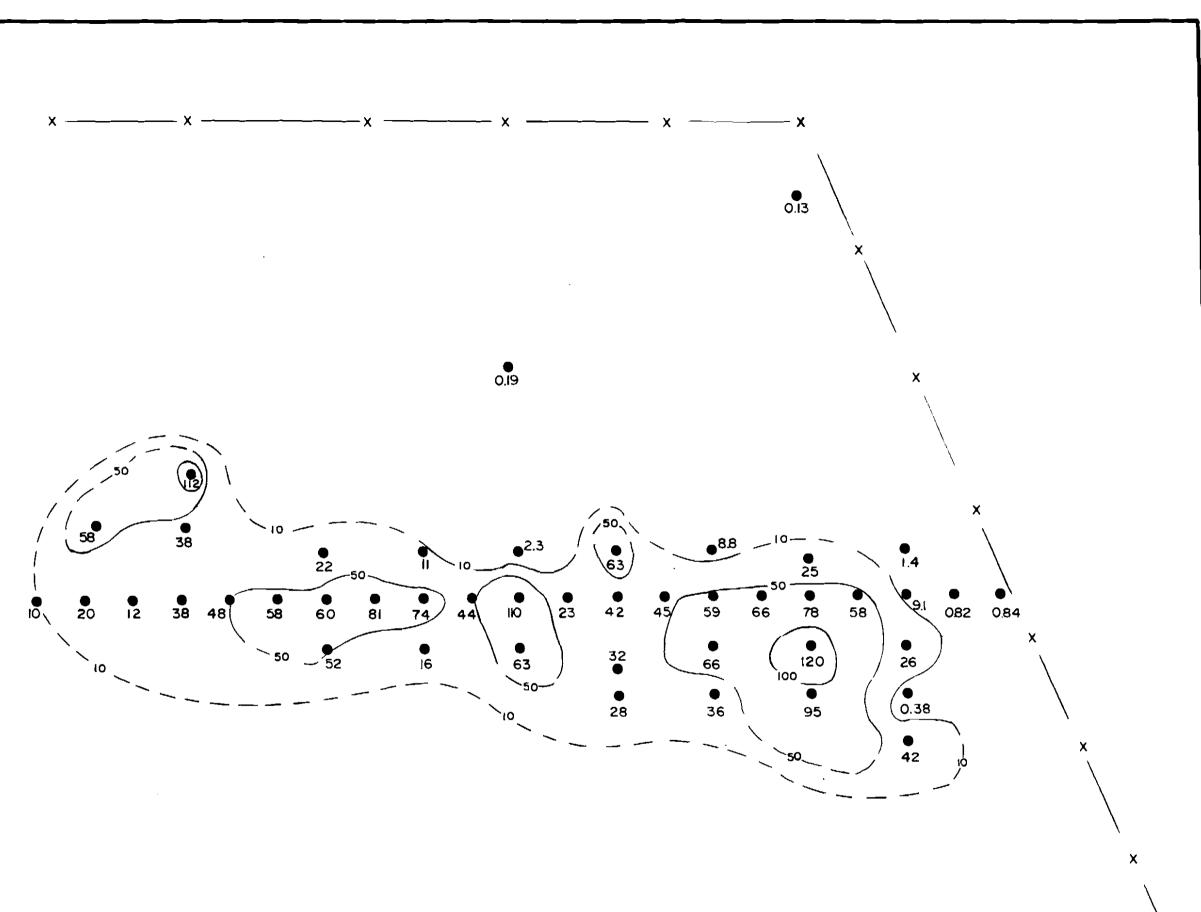


SOIL SAMPLE WITH OIL & GREASE CONTAMINANT LEVEL (pp1)

- - INFERRED CONTOUR LINE







SITE INVESTIGATION

M. WALLACE AND SON, INC.

SCRAP YARD

COBLESKILL, NEW YORK

PCB CONCENTRATION CONTOUR MAP

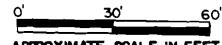
50 ppm 10 ppm



SOIL SAMPLE WITH PC.B CONTAMINANT LEVEL (P.P.M.)

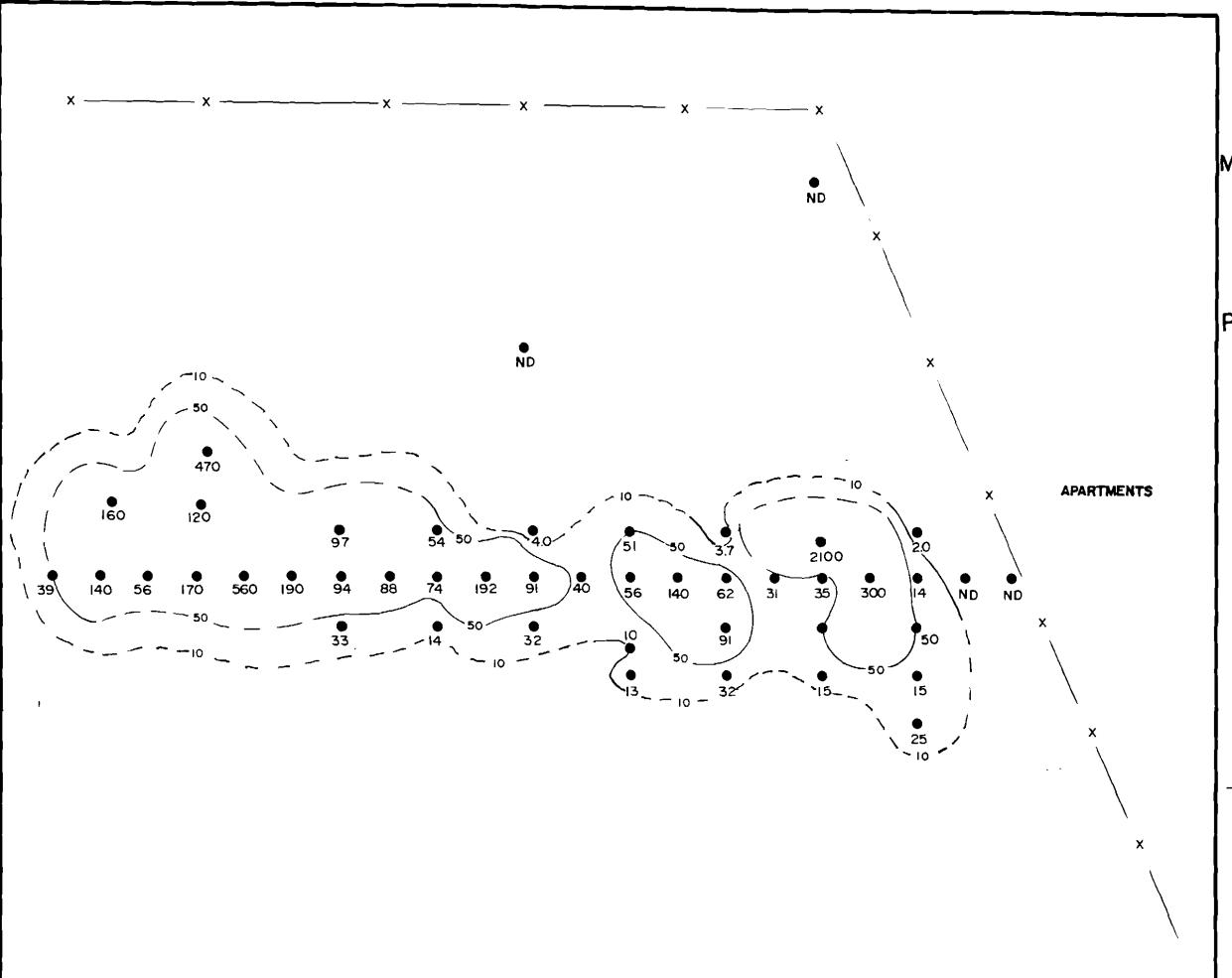
- - INFERRED CONTOUR LINE

ND NONDETECTED



APPROXIMATE SCALE IN FEET





APPENDIX A

LABORATORY RESULTS



NIAGARA MOHAWK POWER CORPORATI	JOB NO1118.053.517				
DESCRIPTION Wallace + Sons, Inc. Scr	rapyard				
Air Samples					
DATE COLLECTED 8-31-89 DATE REC'D	9-8-89		ZED		
	Sample #	TOTAL PARTICU- LATES	PCB		
1A	10246	<0.1	-		
1B & 1C	J0247	-	<0.001		
2A	J0248	<0.1	\$		7.5
2B & 2C	J0249	-	<0.001		
CSB - TPB	J0250	<0.1			
CSTP-1 & CSTP-2	J0251	-	<0.001		
			建 数是	37	
				4. Caracina de	· · · · · · · · · · · · · · · · · · ·
			in in the second	1.00	
	1200		UNITS: To	tal Partic	ulates, mg
			PC	l	

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Units: mg/((ppm) unless otherwise noted

Comments:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: ____

September 29, 1989



LABORATORIES, INC. CHAIN OF CUSTODY RECORD

MILLER	· ·			1				
VALVALL	Scene- XIMO- Cob	les/ill		Bu		2 fee	<u>ē</u>	
NDITA12 RBBHUM	STATION LOCATION	STAD	Bac	Special Communication		SEC.	MOL OF	AMALTSIS BERUDAS
IA E	200 OF MRIN LINE	2/31/59	1515		×			Tor Past
13-	(R/31/89	1.		λ			1CB
10-	Ų	(1 / 1		×		l, j	la
			1/	-			!	" ''
2A n	(470) & SINZ - LINE 6 (0FF)		<u> </u>		x			Tor Part
26	Σ		141	İ	1 1			fcd
20	ψ·	(/		1 / 1		1.	lcs
İ)	5				İ	
-TPB	Blank		1		i'y !		, !	TOT Past
P-1		1	<u> </u>		1/	ŀ	-	PCB
TP-2		/		.	1,1	į	1 1	PCB
į		V	*	j				
/)	Desat		Receive	מ סא: (ציי				Jatz/Time
	d by: See		Receive	d jak ize				Sate/Time
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inquisne	d Tyt (Siperania)	1		אייייייייייייייייייייייייייייייייייייי	ile Lapa	ratary	far Heid	Jaser Time
१०वादास्व	JY: /Sipremen	Care/1	/	ecerytes	iar Land	Hatan	igy:	9-8-89 080
ernad ar S				T ICM	·		~	, , , , , , , ,

CASE FILE

Survey:	ske skill	_ Date Collected	: 8-31-89
Sampler:	BILL HESSE	_ Date Received:	9-8-89
	nd Ref. # :		
Laboratory Num	mber:	1118.853.51	7
Condition of S	hipment:	good	
			,
Archive? If so	how long ?	200	
		Signed: One) Barres
		Sample	e Coordinator
	****	***	
Disposal Proced	iure*: Routin	·	
	· · · · · · · · · · · · · · · · · · ·	 -	
		Signed: and	Jucen
		Date: 9-	21-87

^{*} The routine disposal procedure for non-hazardous samples is to dispose of the samples 4 weeks after a typed report is signed and mailed to the client. Water samples are filtered through carbon to the sanitary sewer. Solid samples are sent to a sanitary landfill.



Units: mg/t (ppm) unless otherwise noted

January 6, 1990

Authorized:

Date:

CLIENT NIAGARA MOHAWK POWER CORPORA	TION		JOB N	io. <u>1118.</u>	053,517
DESCRIPTION Wallace & Sons, Inc. Scr	apyard, Co	bleskill,	NY - Soi	ls	
DATE COLLECTED 9-12-89 DATE REC'E	9-18 - 8	9	_DATE ANALYZ	ZED9-22-	89
	1	ĺ	I 1		ı
	Sample #	PCB	Aroclor		
B=2,2741	J0630	0.38	1248+1260		被基础
B-3,2-4'	J0632	0.25	1248+1260		
B=5,6=81	J0633	6.6	1248+1260	自己 的时间	學是特對這
B-4,2-6'	J0634	1.5	1260		
/= +B-4;6-8*	J0635	4.2	1248+1260		建筑
B-1,0-3.3'	J0636	0.31	1260		
建 值等设计数据记录数据 1476高度级	-				建筑建筑
and the same at th					
		45.4			
		•			
第四个人					
为 自己的一个人,我们是这种人的				的 是为了	
		Service Allenia Commission			STANDER LAND
Market Control of the	11.				
	(Annual Control of the Control of th	teast to him and	eli-de de distribuit de la constitución de	Project Control of Control	Mariane
				100	李二次
	Optopical Wileson			International	
以 表示。1967年代表示。1955年1967年					
The state of the s	Miles de la completa de sessa del				
2 其中不是其他的对象。			UNITS	mg/kg d	y weight

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

OBG Laboratories, Inc., an O'Brien & Gere Limited Company

Comments:



Pesticide/PCB Priority Pollutants

CLIENT NIAGARA MOHAWK POWER COR	PORATION			1118.053.517
DESCRIPTION Wallace & Sons, Inc.	Scrapyard,	Cobleskill, NY -	Soil	
B-2,6-8'				
SAMPLE NO. J0631 DATE COLLECTED	9-12-89	ATE REC'D. 9-18-89	DATE ANALY	7ZED 9-22-89
	ppb			ppb
α-BHC (14.	4,4'-DDT		<28.
у-ВНС		Endosulfan Sulfate		時間推荐的情報
β-BHC		Endrin Aldehyde		
Heptachlor	2000	Methoxychlor		<140.
6-BHC	建立体的规	Endrin Ketone		<28.
Aldrin	9	Chlordane		<140.
Heptachlor Epoxide		Toxaphene		<280.
Endosulfan I		PCB-1221		《大学》
4.4-DDE	28	PCB-1232		*
Dieldrin		PCB-1016/1242		
Endrin		PCB-1248		470.
4,4'-DDD	6	PCB-1254		
Endosulfan II		PCB-1260		530.

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Comments:

PCBs were found in the concentration of $1000.\mu g/kg$ dry weight. The predominant aroclors were 1248 + 1260.

Authorized: Authorn Croscom

Date: January 6, 1990



CLIENT NIAGARA MOHAWK POW	ER CORPORA	TION	, T.	IOB	NO. <u>11</u> 18.	053.517
DESCRIPTION Wallace & Sons	, Inc. Scr.	apyard, Co	bleskill,	NY - Soi	ls	
DATE COLLECTED 9-12-89	DATE REC'D	9-18-89		DATE ANALY	ZED	
Description	B-2,2-4	B-3,2-4'	B-3,6-8'	B-4,2-6'	B4,6-8'	B-1,0-3.3'
Sample #	J0630	J0632	J0633	J0634	J0635	J0636
Total Metals:						
ARSENIC	7.5	7.9	4.0	41.5	5.5	8.3
BARIUM	150.	77.	50.	51.	67.	190.
CADMIUM	<1.3	<1.2	⟨5:6*	₹2.2*	₹2.3*	<1.2
CHROMIUM	27.	18.	18.	12.	16.	29.
LEAD	,27	16.	62.	117	95.	240.
MERCURY	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
STLVER	⟨F.3	<1.Z	₹5.6*	<2.2*	<2.5*	<1.2
ZINC	82.	82.	99.	49.	170.	130.
Other Analysis:						
PERCENT TOTAL SOLIDS	79.9	84-0	89.2	91.3	88.4	84.5
			5 000000000000000000000000000000000000			
				外状门 机		
			1			
				UNITS	: mg/kg d	ry weight

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

*The detection limit has been raised due to the presence of matrix interferences (i.e., Calcium).

Units: mg/((ppm) unless otherwise noted

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: ather Curses

Date: January 6, 1990



CLIENT NIAGARA MOHAWK POWER CORPORA	TION		JOB NO.	1118.053.517
DESCRIPTION Wallace & Sons, Inc. Scr	apyard, Co	bleskill,	NY - Soil	
DATE COLLECTED 9-12-89 DATE REC'E	9-18-8	9	_DATE ANALYZED	ü
	I		ł ĭ	·
Description	B-2,6-8'			
Sample #	J0631		-	
	J.			
Total Metals:				
ALUMINUM	17,000.			
ANTIMONY	<12.			
ARSENTC	7.8		后,26.7 (m/s) 20°	作。2011年
BARIUM	110.	N N N N N N N N N N N N N N N N N N N		
BERYLLIUM	62.4		的政治和自然	是基础中,在SEST
CADMIUM	<2.4	15		
CALCAUN.	67,000			" "是一个一个一个
CHROMIUM	47.	Si Si Si Si Si Si Si Si Si Si Si Si Si S		
COBALT	C12.		原、特性、特殊	
COPPER	26.			
PRON	23,000 2	位300000	定数数据	对条则 1.000
LEAD	41.			
MAGNESTUM	4,400.			等性。
MANGANESE	560.			-
MERCURY	<0.5	则有为金额	大学	种类的数据
NICKEL	45.			
POTASSIUM	3,100.			"是一种"
SELENIUM	<6.0*			
SILVER	<2.4			等的对象
SODIUM	250.			
THALLIUM	<1.2			
VANADIUM	35.			
ZING	83.		UNITS	mg/kg dry weight

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

*The detection limit has been raised due to the presence of matrix interferences.

Authorized: athem Cuses

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Date: January 6, 1990

Units: mg/t (ppm) unless otherwise noted



Units: mg/l (ppm) unless otherwise noted

anthony Cresco

January 6, 1990

Authorized:

CLIENT NIAGARA MOHAWK POWER CO	ORPORATION	JOB NO1	18.053.517
DESCRIPTION Wallace & Sons, Inc	c. Scrapyard, Cobleskill		
DATE COLLECTED 9-12-89 DA	75 REC'D. 9-18-89	DATE ANALYZED	
Description	B-2,6-8'		
Sample #	J0631		
Other Analyses:	·		
PERCENT TOTAL SOLIDS	82.5	的思数域和影響	新兴 斯特斯
TOTAL CYANIDE	<1.	The second of th	thing this party to make
	2000年 · 1000年 · 10000		
The state of the s	HARASIA MISSIANANING ALAKA K		
			基则在1975年的是
性 医甲状腺 医甲状腺			
			NEW WATER
	在 是是一个一个		
A STATE OF THE STA			
· · · · · · · · · · · · · · · · · · ·			
是 在信息等等的。			
	5 · 4 · 0 / 5 · 3 · 5 · 5	UNITS: mg/k	g dry weight

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

Comments:



Purgeable Priority Pollutants

Units: µg/l (ppb) unless otherwise noted

January 6, 1990

Authorized:

CLIENT NIAGARA MOHAWK P	OWER CORPO	RATION_		JOB	No. 1118.	053.517		
DESCRIPTION Wallace & Sons, Inc. Scrapyard, Cobleskill, NY - Soils								
DATE COLLECTED 9-12-89 DATE REC'D. 9-18-89 DATE ANALYZED 9-22-89								
DESCRIPTION:	B-2,2-4'	B-3,2-4'	B-3,6-8'	B-4,2-6'	B-4,6-8'	B-1,0-3.3'		
SAMPLE NO.:	J0630	J0632	J0633	J0634	J0635	J0636		
Chloromethane	<13.	<12.	<11.	<ii.< th=""><th><11.</th><th><12.</th></ii.<>	<11.	<12.		
Bromomethane								
Vinyl chloride		数据数字是		180	4 7 2 2 10	10000000000000000000000000000000000000		
Chloroethane								
Methylene chloride		**************************************			(1) Page 1999	(1) 1 A - A - A - A - A - A - A - A - A - A		
1,1-Dichloroethene								
1,1-Dichloroethane								
t-1,2-Dichloroethene		,				to the boundaries		
Chloroform								
1,2-Dichloroethane					- Total Park			
1,1,1-Trichloroethane						de resen		
Carbon tetrachloride					Programme and the state of the			
Bromodichloromethane								
1,2-Dichloropropane	V-1-0-11-11-11-11-11-11-11-11-11-11-11-11		And the second states					
t-1,3-Dichloropropene			4 2 3 1 1 1 2					
Trichloroethene	at the second of the second	knis esile kralesi	Mary Mary Mary Committee of the Committe	V				
Benzene				- Name (2				
Dibromochloromethane		riesen lane	N ****					
1,1,2-Trichloroethane				La acceptance				
c-1,3-Dichloropropene	J	↓	↓	1	\	\		
2-Chloroethylvinyl ether	<130.	<120.	<110.	<110.	<110.	<120.		
Bromoform	<130.	<120.	<110.	<110.	<110.	<120.		
1,1,2,2-Tetrachloroethane	<13.	<12.	<11.	<11.	<11.	<12.		
Tetrachloroethene]		}		
Toluene								
Chlorobenzene	p.,	6						
Ethylbenzene	Bana,			1	-			
Xylenes	· · · ·	. 🔻	\ \V	↓	\[\]	\ \frac{1}{2}		
		•						
				UNIT	 S: μg/kg d	ry weight		

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

Comments:

OBG Laboratories, Inc.



Purgeable Priority Pollutants

Units: µg/I (ppb) unless otherwise noted

January 6, 1990

Authorized:

Date:

CLIENT NIAGARA MOHAWK I	POWER CORPO	RATION		JOB	NO1118	.053.517	
DESCRIPTION Wallace & So	ons, Inc. S	crapyard, (Cobleskill,	NY - Wat	er		
DATE COLLECTED 9-12-89	DATE REC'D. 9-18-89			DATE ANALY	ZED 9-22	9-22-89	
DESCRIPTION:	QC Trip Blank						
SAMPLE NO.:	J0639						
Chioromethane	<i.< th=""><th></th><th></th><th></th><th></th><th></th></i.<>						
Bromomethane							
Vinyl chloride	144					PER CUIPA	
Chloroethane							
Methylene chloride			學學學學				
1,1-Dichloroethene							
1,1-Dichloroethane							
t-1,2-Dichloroethene							
Chloroform	Graph Sale						
1,2-Dichloroethane							
1,1,1-Trichloroethane		第一位,技艺 能					
Carbon tetrachloride							
Bromodichloromethane	Extended and	从市场发展	00140146	11 11 12 1			
1,2-Dichloropropane							
t-1,3-Dichloropropene	用数数据 124		120111				
Trichloroethene					- Ton	-1 - 77	
Benzene							
Dibromochloromethane							
1,1,2-Trichloroethane	W 12 2 2 5						
c-1,3-Dichloropropene							
2-Chloroethylvinyl ether	<10.	12.00			, ,		
Bromoform	<10.						
1,1,2,2-Tetrachloroethane	<1.					Į.	
Tetrachloroethene		,					
Toluene							
Chlorobenzene						[
Ethylbenzene							
Xylenes							
The second second second	,						
				UNITS	: μg/l		

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

Comments:

OBG Laboratories, Inc.



Base/Neutral Priority Pollutants

CLIENT NIAGARA MOHAWK POWER CORPORATION	JOB NO
DESCRIPTION Wallace & Sons, Inc. Scrapya	rd, Cobleskill, NY - Soil
B-2,6-8'	
SAMPLE NO. J0631 DATE COLLECTED 9-12-	89 DATE REC'D. 9-18-89 DATE ANALYZED 9-26-89
ppb	ppb
1,3-Dichlorobenzene <400	Diethylphthalate <400.
1,4-Dichlorobenzene	N-nitrosodiphenylamine
1,2-Dichlorobenzene	Hexachlorobenzene
Hexachloroethane	4-Bromophenyl phenyl ether
Bis (2-chloroethyl) ether	Phenanthrene
Bis (2-chloroisopropyl) ether	Anthracene
N-Nitrosodi-n-propylamine	Di-n-butyl phthalate
Nitrobenzene	Fluoranthene
Hexachlorobutadiene	Pyrene
1,2,4-Trichlorobenzene	Benzidine <1900.
Isophorone	Butyl benzyl phthalate <400.
Naphthalene	Bis(2-ethylhexyl)phthalate 880.
Bis (2-chloroethoxy) methane	Chrysene <400.
Hexachlorocyclopentadiene	Benzo(a)anthracene <400.
2-Chloronaphthalene	3,3-Dichlorobenzidine <800.
Acenaphthylene	Di-n-octylphthalate <400.
Acenaphthene	Benzo(b)fluoranthene
Dimethyl phthalate	Benzo(k)fluoranthene
2,6-Dinitrotoluene	Benzo(a)pyrene
Fluorene	Indeno(1,2,3-cd)pyrene
4-Chlorophenyl phenyl ether	Dibenzo(a,h)anthracene
2,4-Dinitrotoluene	Benzo(g,h,i)perylene
1,2-Diphenylhydrazine	N-Nitrosodimethyl Amine

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Authorized: Cathery Carry

Date: January 6, 1990



Acid Priority Pollutants

CLIENTN	IIAGARA MO	HAWK POWE	R COR	PORATION				_JOB NO1	118.053.517
DESCRIPTION	Wallac	e & Sons,	Inc.	Scrapyard,	Cobleskill,	NY	_	Soil	
	B-2,6-	8'	, and				_		
SAMPLE NO	J0631	_DATE COLLE	CTED_	9-12-89 r	DATE REC'D.	-18-	89	_DATE ANALYZI	9-26-89

ррь	ррь
2-Chlorophenol <400.	2,4,8-Trichlorophenol <400.
2-Nitrophenol	4-Chloro-3-methylphenol <400
Phenol	2,4-Dinitrophenol <1900.
2,4-Dimethylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dichlorophenol	Pentachlorophenol
	4-Nitrophenol

Methodology: Federal Register -- 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<400.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<1900.
4-Chloroaniline	<400.
2-Methylnaphthalene	<400.
2,4,5-Trichlorophenol	<1900.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<400.
4-Nitroaniline	<1900.

Authorized: Cathorn Cuscas January 6, 1990

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494



Purgeable Priority Pollutants

CLIENT NIAGARA MOHAWK POWER CORP	ORATION		_JOB NO	1118.053.517
DESCRIPTION Wallace & Sons, Inc.	Scrapyard	, Cobleskill, NY -	Soil	
B-2,6-8'				
SAMPLE NO. J0631 DATE COLLECTED	9-12-89	_DATE REC'D. 9-18-89	_DATE ANA	9-21-89
	ppb			ppb
Chloromethane <1	2.	t-1,3-Dichloropropene		<6.
Bromomethane		Trichloroethene		
Vinyl chloride		Benzene		
Chloroethane	¥	Dibromochloromethane		
Methylene chloride <	6	1,1,2-Trichloroethane		
1,1-Dichloroethene		c-1,3-Dichloropropene		
1,1-Dichloroethane		2-Chloroethylvinyl ether		<12.
t-1,2-Dichloroethene		Bromoform		<6.
Chloroform		1,1,2,2-Tetrachloroethan	е	
1,2-Dichloroethane		Tetrachloroethene		
1,1,1-Trichloroethane		Toluene		
Carbon tetrachloride		Chlorobenzene		
Bromodichloromethane		Ethylbenzene		
1,2-Dichloropropane	1	Xylenes.		

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Comments:

Acetone	<12.
Carbon Disulfide	<6.
2-Butanone	<12.
Vinyl acetate	
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<6.

UNITS: µg/kg dry weight

Authorized: Cathon Cuscon

Date: January 6, 1990



Quality Control Summary, DATE COLLECTED 9-12-89 DATE RECT.							1				1
	UNITS	LAB # OP SPIKED SAMPLE	CONC. OF SPIKE ADDED	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD %	LABORATORY SAMPLE #s	
PCBA 284 A CONTRACTOR OF THE POPULATION OF THE P	mg/kg	J0636	10.0	<0.5	10.2	102.	10.8	108.	5.7	MS + MSD :	
				A Part of the Part		<u> </u>	2001-1-1-1	E. F.		Tana and	
					Мужи	THE STATE OF	STATE OF	ka i tilika			
in the constant of the constan	ELLIS.		, a., b., b.	1727,3154		200	District.		1900 1000	*****	
3.9.50万克·西斯特。(1.9.75-2015-1.	15.		SECTION OF			1840 1810 1877 1811	Sivens.				
						1777			-2-4-1		- 4
	SHISOL	May Ave	Walte	Marky and							* "
	Trans.		200	ZV Zvijeni		ingo in speciment of		America de		56.1	-
		\$24	**************************************		*******	,					

Comments: OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

MSD = MATRIX SPIKE DUPLICATE
RPD = RELATIVE PERCENT DIFFERENCE

January 6, 1990



CLIENT NIAGARA MOHAWK POWER CORPORA						NO1118.0	53.517								
DESCRIPTION Wallace & Sons, Inc. Scr	apyard,	, Cot	oleski	ill,	NY										
Quality Control Summary,				Matri	1 5 5 6		M - 2 57: 1==-1:=-	ank							
DATE COLLECTED 9-12-89 DATE REC'E	o. 9-1	18-89)		DATE ANALY	ZED See B	elow								
PARAMETER	DATE ANALYZ	ZED	LABOR NUMBE SPIKE SAMPL	R OF D	SPIKED SAMPLE RESULT (SSR)	SAMPLE RESULT (SR)	SPIKE AODED (SA)	SPIKE (%R)	LABOR NUMBE DUPLI SAMPL	R OF CATE	SAMPLE RESULT (S)	DUPLICATE RESULT (D)	DUPLICATE RPD	METHOD 8LANK	
Total Metals:															
ARSENIC	10-4-	89	J06	36	12.1	8.3	4.70	81.	J06	36	8.3	8.2	1.	<0.5	
BARIUM	9-27-	-89	1		420.	190.	239.	96.			190.	210.	10.	<0.5	•
CADMIUM					4,29	<1.2	5.98	72.		200	₹1.2	<1.2	-	<1.	17
CHROMIUM	0.70				55.9	29.	23.9	113.			29.	34.	16.	<5.	*
LBAD				Sales in	644.	240.	59.8	676.		翼	240.	130.	59.	<5.	
MERCURY			- 3		1.26	<0.5	1.18	107.			<0.5	<0.5	-	<0.5	
SILVER			14 MA		6,23	<1.2	5.98	104	200	Li.	<1.2	<1.2	-	<1.	
ZINC			,		280.	130.	59.8	90.			130.	100.	26.	<1.	
		211				Same and									
	Z:E	100	MA	3 E)		8 18	36.8	AELEX.						-	. 7
NOTES: 1) Spike % Recovery = (5	SR - S	iR)	7.7.		Louis (v.)	MARKET	Strike.						******		i
	SA		_100_	200	E 77			St Hull							
2) Duplicate RPD = S -	D X 1	008	-					100							1
(S+D)		.003	-01	e i					, ,						
		- ,-		-	-	***	2 Per								
Budanasa sa	****		7 7 8 - 8 -		UNITS	: μg/kg d	ry weight								- 1
Methodology: Federal Register — 40 CFR, Part 138, October	r 26, 1984				Units: m	g// (ppm) unless	s otherwise noted	l			ab Dup #J ab Spike				÷

Commente:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Date: January 6, 1990



CLIENT NIAGARA MOHAWK POWER CORPORATE				NO1118.0	53,517	_		*				
QC Summary, Volatile Organics: Mat				plicate		-						
DATE COLLECTED 9-12-89 DATE REC'D				2ED 9-25-	89	_						
	UNITS	LAB # OF SPIKED SAMPLE	CONC. OF SPIKE ADDED	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD %			
METHYLENE CHLORIDE	μg/kg wet	J0636	100.	₹16.0 	106. 135.	1061	96.4 119.	98. 108.	10. 13.	1. W		
CARBON TETRACHLORIDE TETRACHLOROETHENE	weight	0-3.3	100.		113. 115.	115.	104. 114.	104.	8.	7 35		
m-XYLENE					104.	104.	104.	104.	Š.	- S(C)		
						N. L.	205,647,67		11 11	N.		19.18 71.21.5
	Tall		(A) Section	21.4.6.		29/8/2		F est	N S			
			T.L.K.		E TATE	11	A	'	· · · · · · · · · · · · · · · · · · ·			e e e e e e e e e e e e e e e e e e e
	1 I have	1411	34737	(22/10)	T. ST.	Mavin				1000		
	1.		Fig. M		V - 3%	Jane 1	7*********	. ,				
Armina de la companya	2 2 -					Trialment representation (1)	jr					
	26 1984	-		no// (nom) unless			= MATRIX S			7 - 10	- 9	

Comments:

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MSD = MATRIX SPIKE DUPLICATE RPD = RELATIVE PERCENT DIFFERENCE

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Date: January 6, 1990



LABORATORIES, INC. CHAIN OF CUSTODY RECORD

NDITAT2	STANDA LOCATION	GARE GARE	Time '	ع المعمدة	(Abd	Joth L	I
MIMER	-	DARE	Time.			sea. Aa. as	APPALITSES
2	-2 2-4'			Carrel Gre	;	NO. CONTAINETS	16GmsED
		4/12/89	0815		$ \times $,	Per letter of gut
8 -	-2 6-8'	1	0845		X	3.	H51
g	-3 z-4'	17	1205	Ì	X	1 7	
8	-3 6-8'		1212	ļ	X	1	
8-			1350	j	X	,	
8	1		1400	ļ	\times	7	
6-			1625	ĺ	X	,	
B -	1 0-3.3' OVP		1625		XI	. ,	
9-		V	1625		ľXI	,	· - · · · ·
TR	IP BLANK	-	-		1	1,	
			1	İ			
Peter m	Hall		Recaive	d by: (s:			15/89 1515h-s
eringuished (Kecsive	d by: Se-			Sare/Time
eringuisned a	191 (S 		Receive	a by: (sim		-	Octa/Tame
eiinquisned 'a	lýt (Signaturas			d by Masi	ie Labord	dary lar field	Gate/ îlme
isocimed by:	: /Signatures	Care/	îme	DUID	ur Lange	ruct de	1/8/89 (0) D
ernaa ar Shio	HAND DELI	VERED	TO		8		

CASE FILE

survey: Ni-MD Cobbs Kill NV Date Collected: 9-12-89	
Sampler: Leter Haff Date Received: 9-18-89	
Client Name and Ref. #: Obview & Gere #1118-053-131 Laboratory Number: 1118-053-517	
condition of Shipment: Good. Chain of Custody did not Specifically State what Samples were to be analyzed for sampler did not called 4-03. Jan for the fundable analysis on the 9 sites - these pars were supplied. Archive? If so how long? No. Signed: Weed Amth. Sample Coordinator	t

Disposal Procedure: Disposed will be Literained	
Signed:	•

^{*} The routine disposal procedure for non-hazardous samples is to dispose of the samples 4 weeks after a typed report is signed and mailed to the client. Water samples are filtered through carbon to the sanitary sewer. Solid samples are sent to a sanitary landfill.



CLIENT NIAGARA MOHAWA	POWER CORPORA	TION		JOB !	NO1118.	.053.517
DESCRIPTION Wallace &	Sons, Inc. Scr	apyard, Co	bleskill,	NY - Soi	1s	
DATE COLLECTED See Belo	M.	8-31-8	<u> </u>		ZED 9-1-8	20
DATE COLLECTED See Belo	DATE REC'I	D. 0-31-0.	2	DATE ANALY	ZED) 5
		Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS	OIL & GREASE
Line 8-30 S	8-30-89	19866	15.	1248+1254	84.	380.
Line 7-30'S		19867	15.	1254/1260	74.	95,000.
Line 8-45'S		19868	25.	1248+1260	83.	42,000.
Line 6-30'S		19871	32.	1260	82.	36,000.
Line 5-30'S		19872	13.	1260	75.	28,000_
#16	8-29-89	19873	4.7	1248+1260	83.	450.
#17	(1) 法是	19874	1.9	1260	78_	54,000
#18		19875	160.	1248+1260	89.	58,000.
#19		19878	120.	1260	93.	38,000.
#20		19879	470.	1248+1260	90.	112,000.
#21	V	19880	<0.6	-	87.	190.
#30	8-30-89	19881	6.4	1248+1260	87.	1,800.
#26		19882	6.0	1260/54	88.	8,000
#27		19883	4.7	1248+1260	96.	7,500.
#29	V	19884	2.2	1248+1260	89_	420
Line 1-0'	8-29-89	19885	39.	1260	96.	10,000.
Line 1-15'		19886	140.	1254+1260	94	20,000
Line 1-30'		19887	56.	1260	97.	12,000.
Line 1-45'	V	19888	170.	1260	96.	38_000_

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

UNITS: mg/kg dry weight Units: mg/t (ppm) unless otherwise noted

Comments:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: Cathan Cuscan

Date: January 6, 1990



CLIENT NIAGARA MOHAWK POWER CORPORATION JOB NO. 1118.053.517

DESCRIPTION Wallace & Sons, Inc. Scrapyard, Cobleskill, NY - Soils

See Below 8-31-89 9-1-89 DATE COLLECTED. DATE REC'D. DATE ANALYZED _ **PCB** PERCENT OIL & Sample # Aroclor TOTAL GREASE SOLIDS 48,000. Line 1-60' 8-29-89 19889 560. 1260 92. 19890 190. 1260 86. 58,000. Line 1-75' 60,000_ Line 1-90' 19891 94. 1260 83. 81,000. 90. Line 1-105' T9892 88. 1260 74,000. 74. 1248+1260 87. Line 1-120* 19893 1248+1260 44,000. 92. 93. 19894 Line 1-135' 8-30-89 19897 <0.6 86. 16,000_ #23 #24 19898 1.9 1260 84. 1,700. 92. 3,500. 19899 <0.5 #25 130. < 0.7 76. 19900 #22 22,000. 1260/54 91. 19901 97. Line 2-15'N 19902 1260 79. 52,000. 33. Line 2-15'S 11,000. 1260 88. 19903 54. Line 3-15 N 16,000. 1260 77. 19904 14. Line 3-15'S 1260 87_ 2,300. 19905 4.0 Line 4-15'N 19906 32. 1260 78. 63,000. Line 4-15'S 63,000. 19909 1260 80. Line 5-15'N 51. 1260 85. 8,800. I9910 3.7 Line 6-15'N 32,000 10. 1260 75. Line 5-22'S 19913

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

UNITS: mg/kg dry weight Units: mg/((ppm) unless otherwise noted

Comments:

Authorized: anthony Curson

Date: January 6, 1990



LIENT NIAGARA MOHAWK	POWER CORPORA	TION			NO1118_	.053.517		
ESCRIPTION Wallace &	Sons, Inc. Scr	rapyard, Co	bleskill <u>,</u>	NY - Soi	ls			
PATE COLLECTED See Belo	WDATE REC'	p. 8-31-8	9	DATE ANALY	DATE ANALYZED 9-1-89			
		Committee #	nan		200 0000			
		Sample #	РСВ	Aroclor	PERCENT TOTAL SOLIDS	OIL & GREASE		
Line 7=12*N	8=30-89	19914	2100	1248	85	25 000		
Line 8-15'N		19917	2.0	1260	87.	1,400.		
Line 6-15'S	经验 基础 305.0	19918	91.	1248+1260	The Salaka Cardenies	66,000		
Line 7-15'S		19919	50.	1248+1260		120,000.		
hine 8-1515	Asia de Carlos	19920	50.	1248+1260	Service of the latest tree	26,000.		
Line 1-150'	8-29-89	19921	91.	1248+1260		110,000.		
Line 1-165"		19922	40.	1260	96.	23,000.		
Line 1-180'	(19923	56.	1248+1260	95.	42,000.		
Line 1-195'	建设的	19924	140.	1248+1260	93.	45,000_		
Line 1-210'		19925	· 62.	1248+1260	92.	59,000.		
Line 1-225	100	19926	31.	1248+1260	90.	66,000.		
Line 1-240'		19927	35.	1248+1260	87.	78,000.		
Line 1-255'		19928	300.	1248+1260	91	58,000.		
Line 1-270'		19929	14.	1260	84.	9,100.		
Line 1-285	8-30-89	19930	<0.6		83	820_		
Line 1-300'	8-30-89	19931	<0.6	-	82.	840.		
	tradica de				生有。			

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

UNITS: mg/kg dry weight Units: mg/t (ppm) unless otherwise noted

Comments:

Authorized: January 6, 1990



Pesticide/PCB Priority Pollutants

CLIENTNIAGARA MOHAV	WK POWER CORPORATION		JOB NO. 1118.053.517
DESCRIPTION Wallace 8	Sons, Inc. Scrapyard,	Cobleskill, NY -	<u>Soil</u>
Line 1-27	<u>'0'</u>		
SAMPLE NO. 19929 DAT	TE COLLECTED 8-29-89 D	ATE REC'D. 8-31-89	DATE ANALYZED 9-13-89
	ppb		ppb
a-BHC	<140	4,4'-DDT	<280.
у-ВНС		Endosulfan Sulfate	"是我,我们是没有的
β-BHC	是"我们"。 第15章	Endrin Aldehyde	
Heptachlor		Methoxychlor	<1400
6-BHC	NEW YORK	Endrin Ketone	<280.
Aldrin		Chlordane	<1400.
Heptachlor Epoxide	40年6月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日	Toxaphene	<2800.
Endosulfan I	•	PCB-1221	经 有一种企业的
4,4'-DDE	<280₌	PCB-1232	*
Dieldrin		PCB-1016/1242	
Endrin	建造体的 计数据数据	PCB-1248	6400.
4,4'-DDD		PCB-1254	
Endosulfan II		PCB-1260	7200.

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Comments:

PCBs were found at the concentration of $13,600.\mu g/kg$ dry weight. The predominant aroclors are 1248 + 1260.

Authorized: Cathan Cusa

Date: January 6, 1990



Purgeable Priority Pollutants

CLIENT NIAGARA MOHAWK POWER CORP	ORATION	JOB NO. 1118.053.517
DESCRIPTION Wallace & Sons, Inc.	Scrapyard, Cobleskill, N	/ - Water
QC Trip Blank		
SAMPLE NO. 19932 DATE COLLECTED	8-29-89 DATE REC'D. 8-31-	89 DATE ANALYZED 9-5-89
and the second s	ppb	ррь
Chloromethane <1	0. t-1,3-Dichloroprop	ene <5.
Bromomethane	Trichloroethene	国 在基本的。1
Vinyl chloride	Benzene	
Chloroethane	Dibromochlorome	thane
Methylene chloride	5. 1,1,2-Trichloroetha	ane
1,1-Dichloroethene	c-1,3-Dichloroprop	oene 🗸
1,1-Dichloroethane	2-Chloroethylvinyl	ether <10.
t-1,2-Dichloroethene	Bromoform	<5.
Chloroform	1,1,2,2-Tetrachloro	pethane
1,2-Dichloroethane	Tetrachloroethene	
1,1,1-Trichloroethane	Toluene .	
Carbon tetrachloride	Chlorobenzene	经 40 年 10 年 10 日 10 日 10 日 10 日 10 日 10 日 1
Bromodichloromethane	Ethylbenzene	
1,2-Dichloropropane	/ Xylenes	

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Comments:

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<u> </u>
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Authorized: Atten, Curry, Curr



Base/Neutral Priority Pollutants

rd, Cobleskill, NY - Soil
DATE REC'D. 8-31-89 DATE ANALYZED 9-6-89
ррь
Diethylphthalate <40,000.
N-nitrosodiphenylamine
Hexachlorobenzene
4-Bromophenyl phenyl ether
Phenanthrene
Anthracene
Di-n-butyl phthalate
Fluoranthene
Pyrene
Benzidine <200,000.
Butyl benzyl phthalate <40,000.
Bis(2-ethylhexyl)phthalate
Chrysene
Benzo(a)anthracene
3,3-Dichlorobenzidine <79,000.
Di-n-octylphthalate <40,000.
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene
Dibenzo(a,h)anthracene
Benzo(g,h,i)perylene
N-Nitrosodimethyl Amine

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Elevated detection limits due to matrix interferences.

Date: January 6, 1990



Acid Priority Pollutants

SAMPLE NO	19929	_DAT	E COLLE	CTED_	8-29-89	DATE REC'D	8-31	-89	_DATE ANA	LYZED _9-	6-89	
	Line 1	-270) '									
DESCRIPTION .	Wallac	е &	Sons,	Inc.	Scrapyard,	Cobleski	11, N	1 <u>Y</u> -	Soi1			_
CLIENTN	IAGARA MO	HAWK	POWE	R CORI	PORATION			· · · · · · · · · · · · · · · · · · ·	JOB NO	1118,05	3.517	_

	aqq		ppo			
2-Chlorophenol	<40,000.	2,4,6-Trichlorophenol	<40,	,000.		
2-Nitrophenol		4-Chloro-3-methylphenol	<40	000.		
Phenol	CALIFORNIA SANCTA	2,4-Dinitrophenol	<200,			
2,4-Dimethylphenol	None and the second	2-Methyl-4,6-dinitrophenol				
2,4-Dichlorophenol	· 大声, 1	Pentachlorophenol				
		4-Nitrophenol	10年10年			

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<40,000
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<200,000.
4-Chloroaniline	<40,000.
2-Methylnaphthalene	<40,000.
2,4,5-Trichloropheno	1<200,000.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<40,000.
4-Nitroaniline	<200,000.

Elevated detection limits due to matrix interferences.

Authorized: January 6, 1990



Purgeable Priority Pollutants

CLIENTNI	AGARA MO	CHAWK POWER CO	RPORATION		_JOB NO	1118.053.517
DESCRIPTION _	Wallac	ce & Sons, Inc	. Scrapyard	, Cobleskill, NY -	Soil	
	Line 1	1-270'				
SAMPLE NO	19929	DATE COLLECTED	8-29-89	DATE REC'D. 8-31-89	DATE ANA	11YZED 9-5-89
V			ppb			ppb
Chlorometh	ane		(12.	t-1,3-Dichloropropene		<6.
Bromometha	ane			Trichloroethene		
Vinyl chloric	je			Benzene		
Chloroethan	ne		\downarrow	Dibromachloromethane		
Methylene c	hloride	han a	<6.	1,1,2-Trichloroethane	5	
1,1-Dichloro	ethene			c-1,3-Dichloropropene		
1,1-Dichloro	ethane			2-Chloroethylvinyl ethe	•	<12.
t-1,2-Dichlor	roethene			Bromoform		<6.
Chloroform		14x = 2+ x		1,1,2,2-Tetrachloroethau	ne	
1,2-Dichloro	ethane			Tetrachloroethena		使引音的 200
1,1,1-Trichlo	proethane			Toluene		
Carbon tetra	achloride			Chlorobenzene		
Bromodichic	oromethane			Ethylbenzene		
1,2-Dichloro	propane		J.	Xylenes		

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Comments:

Acetone	<12.					
Carbon Disulfide	<6.					
2-Butanone	<12.					
Vinyl acetate						
4-Methyl-2-pentanone						
2-Hexanone						
Styrene	<6.					

Authorized: January 6, 1990



CLIENT NIAGARA MOHAWK POWER	CORPORATION	JOB NO1118.053.517
DESCRIPTION Wallace & Sons, I	nc. Scrapyard, Cobleskill	, NY - Soil
DATE COLLECTED 8-29-89	DATE REC'D. 8-31-89	DATE ANALYZED
	1	1 1
Description	Line 1 270'	
Sample #	19929	
Total Metals:		
ALUMINUM	18,000.	
ANTIMONY	<6.	
ARSENIC	9.0 + 5	别的证明
BARIUM	130.	
BERYLLIUM	41.2	阿里斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯
CADMIUM	<1.2	
CALCIUM	11,000.	是 的现在分词 的复数形式
CHROMIUM	26.	
COBALT	9,4	
COPPER	66.	
ERON	26,000.	的经济,对外的特别是共享
LEAD	110.	
MAGNESTUM	4,300.	四次连续16条约6月次区20
MANGANESE	570.	
MERCURY	<0.5	
NICKEL	31.	
POTASSIUM	2,500	
SELENIUM	<6.0	
SILVER	<1.2	A 医抗性系数 经自己的 经未产生的
SODIUM	130.	
THALLIUM	(1.2	
VANADIUM	37.	
ZINC	160.	UNITS mg/kg dry weight

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

*The detection limit has been raised due

to the presence of matrix interferences.

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

Units: mg/t (ppm) unless otherwise noted

Authorized: Date: January 6, 1990



CLIENT NIAGARA MOHAWK POWER CORPORA	NIAGARA MOHAWK POWER CORPORATION										
DESCRIPTION Wallace & Sons, Inc. Scr	apyard, Co	bleski <u>ll,</u>									
				_							
DATE COLLECTED 8-29-89 DATE REC'E	o. 8-31-8	9	DATE ANALYZED								
	I	1]		Î						
Description	Line 1 270'										
	270										
Sample #	19929										
Sample "	13323										
Other Analyses:		16.		September 1992 to 1992 to							
PERCENT TOTAL SOLIDS	84.		建筑 的								
CYANIDE	<1.			A Associated the Control of the Cont	195 day 107 No. 64						
為支撑。但在自己的學術學的				是是他们的	ALTY TA						
		+6-3 menominations	ERE BOOK	September 1	and the later with						
国生活场 安全等的 医克克勒氏管 的复数	是是被企业		表现是在在								
	assault webs	Harris of the Septiment		Ship to several	MADINE POONS						
		15 (Among 17) 25 (18)	Kara Halland	rate in the color and in	To the Marie						
是是"加州"的"大"的"公司"。											
ASSOCIATION OF STREET	Automobile)			生态的	建 和 数						
是一些可能是一种的。 1											
			(明)2477 第三		0.2576.239						
100 m		La Marcha Commercia									
的名为本位的美国,不过现代政治 。			71.37								
在 对特殊的基础。	""在"大学"的		$(-1)_{i \in I}$								
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
			10-11-2								
	Constitution to										
			UNITS	mg/kg d	y weight						

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Units: mg/t (ppm) unless otherwise noted

Comments:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: Cathan Cusa

Data: January 6, 1990



Duplic	ate Anaysis for O	il & Greas	e in Soils						*				
DATE COLLECTED	_DATE REC'S		111111111111111111111111111111111111111	DATE ANALY	YZED								
		UNITS	LABORATORY NUMBER OF SAMPLE	SAMPLE RESULT (S)	LABORATORY NUMBER OF DUPLICATE	SAMPLE RESULT (D)		LABORATORY NUMBER OF SECOND DUPLICATE	SAMPLE RESULT (D ₁)	RPD			
OIL & GREASE		mg/kg dry	19868	42,000	19869	34,000	e di	19870	30,000,	13.			
magnetis in the telephone of the	Supplies the return of a finish of	weight	19875	58,000.	19876	54,000.	7.	19877	45,000.	18.	CONTRACTOR OF	7.00	
			19894	44,000	19895	54,000	32.	19896	44,000	20	5.00		
OF A STATE OF THE	が見るの を を見る日本で	7.75	19910	63,000. 6,800,	19907	62,000.	2. 18,	19908	42,000. 3,600,	38. 68.	NOW STORY	3000000	ASSESSED FOR
Section 1	na far marification		19914	25,000.	19915	20,000.	22.	19916	28,000.	33.		-Xfrank	
TWEET LINES AND A	公民等實際 對	第三维			The Street	ics .	NAME OF THE OWNER, THE	1000	2.70	ALC: NO.	5.050VII)	7	
84177 Her 22 MANY		2.85萬	學是						2479	5320977		TREES OF	
		1137-117	50137	estantes (1)	对心包里 克斯	THE RE			子 经数数	10.15			
		707 LEWISE	NEW YES	135 TO 15		17.31	NEW Y	1000	(明初)	7.00		AN DE S	
Salaman and Cal	eres area as	2417	ELPS:	A Bruss	N 2747	STATE OF		ALERS TO					
NOTE; Duplicate	$RPD = \frac{S-D}{(S+D)/2} \chi$	00	games.	· Andrews	Valla Tyrings				deal Mari	optional to the		亚洲	
				1900 (M 1900 (M)	WAR EVAN								
	RESTRICTION OF	- 10	The District		(IN THE ST.)	元学 原研究		RELATIVE P	Money et			医 种性疾性	

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Date: January 20, 1990



CLIENT NIAGARA MOHAWK POWER CORPORA	TION		JOB	NO1118.	053.517	_						
DESCRIPTION Wallace & Sons, Inc. Scr				ity Contro	l Summary:	_						
Matrix Spike & Matrix S					90.15Com	-						
DATE COLLECTED 8-29,30-89 DATE REC'E	8-31	-89	DATE ANAL	YZED9-8,	11-89							
	UNITS	LAB # OF SPIKED SAMPLE	CONC. OF SPIKE ADDED PCB 1260	RESULT	CONC. MS	% RECOVER	CONC. MSD	% RECOVERY	RPD %	LABORATORY SAMPLE #5,		
PCB 1260	mg/kg	Blank	10,	₹0.5	13,8	138	10,7	187.	25.	SB & SBD	090189	
		Blank		<0.5	8.25	83.	8.14	81.	2.	SB & SBD	090589	1
The second second second	AND MARKS	19868		8.4	8.6		8.9	TO THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED I	884 **	19869 8 1	9870	W. O
		19875		48.4	52.7	**	48.8	**	**	19876 & I	9877	
《江西 》(1950年)		19894		50.7	62.3	7116.	57.5	68.	8.	19895 4 1	9896	1
		19906	Des Cons	25,0	34.3	93.	32.3	73.	6.	19907 & I	E	
1. 12 · 14 · 14 · 14 · 14 · 14 · 14 · 14 ·		19910		3,18	16.7	75.	9.0	58.,	17.	19911 4 1	912	
		19914		1800.	416.	•	906.	*	1.	19915 & I	916	
			EPILEP	Class, etc.	Minim	1000	Blacker					
		Delicity	K	ERR	ALL MALES	3.00	Mee	**************************************	- Service -			1
Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Car	All the N	Sam.	435	TAKE MEN	W.Lang	1,000 741	MIN.					
*Quality control was not obtainab	le due to	the high o	oncentrat	ions of the	same Aroc	lor in the	samples.		-			
•Due to the variability of the ma			A section of the sect	and the second second	124.7							
			· · · · · · · · · · · · · · · · · · ·		·	- sti	· · · · · ·					
	The solution			- **-			1000					1 1 1 1 1 1 1

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Commente:

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Unite: mg// (ppm) unless otherwise noted

MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
RPD = RELATIVE PERCENT DIFFERENCE

Date: January 3, 1990



Laboratory Report

CLIENT NIAGARA MOHAWK POWER CORPORA	TION		JOB (NO1118.0	53.517	_						
DESCRIPTION Wallace & Sons, Inc. Scr	apyard, Co	bleskill,				-						
QC Summary, Volatile Org	anics: Ma	trix Spike	and Matri	x Spike Du	plicate	_						
DATE COLLECTED 8-29-89 DATE REC'D	8-31-	89	DATE ANALY	ZED 9-5-	89	2						
	I	ı	II i	ľ	I	ı	1	1	Ì	ı	1 1	
	UNITS	LAB # OF SPIKED SAMPLE	CONC. OF SP1KE ADDED	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD %			
1.1-DICHLOROETHENE	µg/kg	19929	58.6	<6.	57.6	98.	54,0	92.	6.		, , , , , , , , , , , , , , , , , , ,	
TR1 CHLOROETHENE	dry				54.7	93.	56.6	96.	3.		Lieutie is	
BBNZRNE	weight			Mr. SA	57.9	99,	59.8	102.	3.			
TOLUENE					62.2	106.	61.9	106.	0.			
CHLOROBENZENE		J	1 V .	J	56.1	96.	57.4	98 :	2.	5 4 6	11	
	Property of					Maria	ABRALL	30.72				
	W. Links					157.8%		*****	e en la seminario	· · · · · · · · · · · · · · · · · · ·		
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	7. 15.75	PRES.	150%	PHYEL	-2" (1)							
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						*** **		9		J.	4 54	
Company of the contract of the	1914 - 271			**								}

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984 Commente:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Unite: mg/f (ppm) unless otherwise noted

MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
RPD = RELATIVE PERCENT DIFFERENCE

January 6, 1990



SURVEY	ALE SCRAP /NIMO	COBLESKII		Pet	25: 57		Haff	
NDITA12 RBBMUM	אסודעסט אסודענע	GAIE	That	Same See	SOIL	SECL POI	MOL OF CONTAINERS	HOUSE AMALTSIS
1	LIME 1 - 0'	8/24/19	1/20		13014		l l	XBS OIL GIZEASI
2	LINE 1 - 15		1125		}	ļ	(5
3	LIVE 1 - 30'		1138		\			
4.	UNE 1 - 45'		1150		\			
5	1406 (- 60'	1	1156		(}	ļ		
6	LINE 1 - 75"	151	200	ĺ	5			
. 7	LINE 1 - 90'	(1213	j		-		-
8	1 - 1- 105	1	1240		4		1	<u> </u>
9	LINE 1 - 120'	1 5 1	1348	_ ·	.)	İ		
io	LINE 1 - 135'	151	1355)	ļ		
10-ms	LINE 1 -135 ms	1 5 1	1351)			
(0-0vP	LINE 1 - 135 DUP	1 4 1	[400]		1	-		· ·
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isad:=140	t dy: (s person	Gare/∏	ime /	Olidi		natary MU	tto	8/31/80 08;30
stuagrat	Singment:				1			



SURVEY		_		SAMPL	175: :5:+	24.	3) []		
MALLACE	SCRAP NIMO -	(obleski	II NY		eten	77	Hall		
NDITAT2 REMUM	אסודעסט אסודנוני	DAFE	Titad	Same() Marer Care Gre	1 .	sec.	-O. OF CONTAINEES	SEGNINES SEATURES	
11	LINE 1- 150'	8/25/8	H 1410		Soil		,	PR- OIL- Grease	
12	LINE 1- 165'		415		15		ζ	<u> </u>	
13	LINE 1 - 180'	}	1457		15		7 1		
14	LINE 1 - 195'	1	1523		>		{ !		
15	LINE 1 - 210'		1535	j	\		((
16	LINE 1 - 225'	\	1550		121				
- 17	LINE1 - 240'	1 (1600		151	ļ	<u> </u>		
18	LINE 1 - 255'	{	1620)	Ì			
19	LINE 1 - 270'		1640		1)		(3)	(and TCL)	
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	LIME 1 - 300'		1045		1)	-			
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ternoctor	Shipment:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 /			j	



SURVEY	- WALLACT SCRAP CO	BLESKIL.	L, MY		iter 3		aff		
NDITA12 RBMUM	מובות ומכבות	OAR	Time	Saudi Werer Care, Co	15014	SECT.	NO. OF		SÉCRINES THYTZZZ
	LINE 5 - 15'N	8/30/89	1120		*		1	PCR'S	and OIL GARAS
	LIME 6 - 15 "N	/	1145		1(1	į	1	1	
	LIME 6 - 15'N DUP		1146	ļ					
ו	LINE6 - 15'N MS		1147		1 11	j		\	\
	LINE 5 - 22'S		i215	İ	1/1				
· ·	LIFE 7- 12'N		1155	1	1/1			1	
	LINE 7 - 12'N OUP		1156					1	ĺ
	LINE 7-12'N MS		1157		111	İ			
•	LIMER - 15'N		1212		1-11		1	1	
	LINE 6 - 15'5	1	1240				/	Ī	
	LIME 7 - 15'S	\ \	1254	.	111		1		1
İ	LINE 8 - 15'5	1	1308		1		U	Ú	V
Peter	That		Recaive	d by: (sign				ક	Jans/Time
	ned by: 15		रेक्ट्यापच	d by: (Se					Sare/Time
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isaa:धार ा	i dy: (s,	Octe/T	ime (Derdi	iar Landi	raiary	isy:	8	Sate/Time 31/89 08:30
ernad st	Shiament:							į	



SURVEY				Simples: 15	m	21/1		
MDITATE RESOLUTE	STATION LOCATION	OFLE	TIME	SAMPLE 1799	18CL	MO OF		AMALTSIS REQUIRED
İ	LINE 8 - 30'5	8/30/89	1325				PCR	and GREME/OIL
	LIFE 7 - 30'S	10	1324				/	
	LIPE 8 - 45'5		1358					
	LINE 8- 45'S OUP	1/	1358		į	/	/	
	LING 8-45'5 MS	}	1358		<u> </u>	1		- /
	LIFE 6-30'S		1340	1 1/			((
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Peter	In Hall		Receive	d by: (Species		·	8	Date/Time
	nd by: Sample		देक्तापव	d sy: /S			ļ.	Sare/Time
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isaa:cned	Зу: (Sp	Gare/1	îne	Vendy	mi	isy:	8)	Ggre/Time 31/89 08:30
בותספונה	nismem:			0			į	



SURYEY		-	SAMPL	.£25: :5+				
Cobeskill - Walkie Scroo	- N.N	10		Bill	He	ฆ€์		
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\$16 - STAINED	8/29/8	a 1500		Soil	İ	1	266 al	Greasi
# 17 STAINED	1	1513		1	((
THE STAINED	1)	1530		1(())	
18 DUE STAINED	15	1531		())		
LIB MS STAMED	1.1	532	j	1,7	>	1		
#19	1/	1618		151	}	4		
#20	1 (R30	j	1/1	7 1	7 1	1	
# 21	1	1655		1 ())	1	1	
# 30	8/30/89	0725		1 \ 1	11	7		
# 26		0747		1 1			7	
# 27		0802		11	į			
# 29		6908		141	1	1		
Peter m Hall		Recaive	ra by: (s.,			_	8 3184 S	/Time 0830
Reiinquisned by: 15-		Receive	rd Sys (Se				Sarei	រីវិជាទ
elinquisned by: (Siemen		Recaive	d by: (S-				Scial	inne
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lisaatened By: /Siperior	Care/1		(1) lh	iar Lasa	SV	with	8/31/89	Tim= 08:30
ernod at Shipment				0	,		į	



URYEY MM	O-WALLALF SCRAP	OBLESKII	L #Y	SAMPLERS Peter				
NDRATZ Esseum	SIANGH LOCATION	gare.	TIME	Sandt (YP	5	HO. CONTAINMEN		Grines HMT.12/2
	# 23	8/30/8	0443		11	1	PCB's	and offere
	# 24	1	0935			11		1
<u> </u>	# 25		0928				İ	1
.	# 22		1015				$\left[\begin{array}{c} 1 \end{array} \right]$	
	LINE Z - 15'N	1	1050	j l	11			
!	LIME 2 - 15'S		1047		I			
Ì	LINE 3 - 15'N		1056					
	LIME 3 - 15'S		1057					<i>i</i>
	LINE 4 - 15'N		1110			-		
	LINE 4- 15'S		1129	j :				į
	LINE 4 - 15'S DUP		1121		-			
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inquisne	ed by: (Siperator	I	त्र बद्धा ५ वर्ष दलका ५ वर्ष	Jensom yd I Humell	angerat	ary far field		us/iime
garaned	: Jy: /Species	Oate/1	ime R	Serves isr L	2000ti	rary jays.	931	1 19 08:30
ונבספת	Sinisment:						i	

CASE FILE

survey: Mi-Mo-Pablestill	Date Collected: \$\\29 + 8\\20\8
Sampler: Haff	Date Received: 83189
Client Name and Ref. # : D'Brien	Lese 1
Laboratory Number:	063.617
Condition of Shipment: Hand d	elivered.
Archive? If so how long ?	No.
	Signed: Wesdey Smith Sample Coordinator
****	*
Disposal Procedure: Disposel 1	ill be determined
	<u></u>
<u>-</u>	Signed: Author Cuccy

^{*} The routine disposal procedure for non-hazardous samples is to dispose of the samples 4 weeks after a typed report is signed and mailed to the client. Water samples are filtered through carbon to the sanitary sewer. Solid samples are sent to a sanitary landfill.



NIAGARA MOHAWK POWER CORPORATION JOB NO. 1118.053.517 Wallace & Sons, Inc. Scrapyard, Cobleskill, NY - Soil & Waters 10-10/12-89 DATE REC'D. 10-13-89 DATE COLLECTED_ DATE ANALYZED SED-3 Description MW-3W-1 (Soil) (Water) (Water) Sample # J2117* J2118 J2119 Total Metals: ALUMINUM 8400. 5.0 <0.2 ANTIMONY <26. <0.06 <0.06 ARSENIC <0.005 <0.005 BARIUM 100. 0.3 <0.2 BERYLLIUM <0.005 <0.005 CADMIUM <1.1 <0.005 <0.005 230. CALCIUM 140,000 100 CHROMIUM 18. 0.02 <0.01 COBALT <2.6 <0.05 <0.05 COPPER 43. <0.025 <0.025 IRON 13,000 18. <0.1 LEAD 32. 0.007 <0.005 MAGNESIUM 2600. 19. 6. MANGANESE 150. 1.1 0.16 MERCURY <1.3 <0.0005 <0.0005 NICKEL 15. <0.04 <0.04 POTASSIUM 530. <50_ <50.__ <0.005 SELENIUM <1.3 <0.005 SILVER (0_01 <0.01 490. SODIUM 170. 24. <0.01 THALLIUM <3_ <0.01 UNITS: Water=mg/ Soils=mg/kg dry VANADIUM 18. <0.05 <0.05 109. 0.03 ZINC 0.02 weight

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Units: mg/l (ppm) unless otherwise noted

Comments:

*Several detection limits have been raised due to the presence of matrix interferences.

> Authorized: _ January 5, 1990



CLIENT NIAGARA MOHAWK POWER CORPO DESCRIPTION Wallace & Sons, Inc. S		nleskill N		NO. 1118.		
				1 q materia		
DATE COLLECTED 10-10/12-89 DATE RE	EC'D. 10-13-89)	_DATE ANALY	NALYZED		
Description	SED-3 (Soil)	MW-3 (Water)	W-1 (Water)	·		
	(0011)	(Maccr)	(water)			
Sample #	J2117	J2118	J2119			
Other Analyses:		· · · · · · · · · · · · · · · · · · ·				
PERCENT TOTAL SOLIDS CYANIDE	38. <1.5	<0.01	<0.01			
		V.	(0.01		约起来到	
以 。						
			9-5240 a File 10			
					是我从外 村	
是一种自己的一种。 第一种					医 类性	
		Call and Section 24.				
		1996年3月6月	District Co.			
		Chicare Salatin	UNITS			
				Soil=mg/	g dry weigh	

Methodology: Federal Register — 40 CFR, Part 138, October 26, 1984

Units: mg/f (ppm) unless otherwise noted

Comments:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: ___

January 5, 1990



Base/Neutral Priority Pollutants

CLIENT NIAGARA MUHAWK PUWER CURPURATIO	JOB NO
DESCRIPTION Wallace & Sons, Inc. Scrap	yard, Cobleskill, NY - Soil
SED-3	
SAMPLE NO. J2117 DATE COLLECTED 10-13	2-89 DATE REC'D. 10-13-89 DATE ANALYZED 10-17-89
ppb	ррь
1,3-Dichlorobenzene <8700 _	Diethylphthalate <8700.
1,4-Dichlorobenzene	N-nitrosodiphenylamine
1,2-Dichlorobenzene	Hexachlorobenzene
Hexachloroethane	4-Bromophenyl phenyl ether
Bis (2-chloroethyl) ether	Phenanthrene
Bis (2-chloroisopropyl) ether	Anthracene
N-Nitrosodi-n-propylamine	Di-n-butyl phthalate
Nitrobenzene	Fluoranthene
Hexachlorobutadiene	Pyrene
1,2,4-Trichlorobenzene	Benzidine
Isophorone	Butyl benzyl phthalate <8700.
Naphthalene	Bis(2-ethylhexyl)phthalate
Bis (2-chloroethoxy) methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)anthracene
2-Chloronaphthalene	3,3-Dichlorobenzidine <17,000.
Acenaphthylene	Di-n-octylphthalate <8700
Acenaphthene	Benzo(b)fluoranthene .
Dimethyl phthalate	Benzo(k)fluoranthene
2,6-Dinitrotoluene	Benzo(a)pyrene
Fluorene	Indeno(1,2,3-cd)pyrene
4-Chlorophenyl phenyl ether	Dibenzo(a,h)anthracene
2,4-Dinitrotoluene	Benzo(g,h,i)perylene
1,2-Diphenylhydrazine	N-Nitrosodimethyl Amine

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List
Elevated detection limits due to matrix interferences.

Authorized: January 5, 1990



Acid Priority Pollutants

CLIENT	NIAGARA MO	HAW	K POWE	R COR	PORATION			IOB NO	1118.053.517
DESCRIPTION	Wallac	e &	Sons,	Inc.	Scrapyard,	Cobleskil	1. NY -	Soil	
	SED-3								
SAMPLE NO.	J2117	DA:	E COLLE	CTED_	10-12-89 r	ATE REC'D.	10-13-89	DATE ANA	YZED10-17-89

рро
2,4,6-Trichlorophenol <8700.
4-Chloro-3-methylphenol <8700
2,4-Dinitrophenol <42,000
2-Methyl-4,6-dinitrophenol
Pentachlorophenol
4-Nitrophenol

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<8700.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<42,000.
4-Chloroaniline	<8700.
2-Methylnaphthalene	<8700.
2,4,5-Trichlorophenol	<42,000.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<8700.
4-Nitroaniline	<42,000.

Elevated detection limits due to matrix interferences.

Authorized: Carthan Cure,
Dete: January 5, 1990



Purgeable Priority Pollutants

CLIENT NIAGARA MOHAWK POWER COR	PORATION	JOB NO11	18.053.517
DESCRIPTION Wallace & Sons, Inc	. Scrapyard, Cobleskil	.1, NY - Soi1	
SED-3	<u> </u>		
SAMPLE NO. J2117 DATE COLLECTED	10-10-89 DATE REC'D. 1	0-13-89 DATE ANALYZE	10-18-89
	ppb		ppb
Chloromethane	26 t-1,3-Dichlore	opropene <:	13.
Bromomethane	Trichloroethe	ene	
Vinyl chloride	Benzene		
Chloroethane	Dibromochlo	promethane	
Methylene chloride	54_B 1,1,2-Trichlor	roethane	
1,1-Dichloroethene <	13. c-1,3-Dichlor	ropropene	
1,1-Dichloroethane	2-Chloroethy	/Ivinyl ether <	26.
t-1,2-Dichloroethene	Bromoform	<	13.
Chloroform	1,1,2,2-Tetrac	chloroethane	
1,2-Dichloroethane	Tetrachloroe	thene	
1,1,1-Trichloroethane	Toluene		resource factor
Carbon tetrachloride	Chlorobenze	ine	
Bromodichloromethane	Ethylbenzene	е	
1,2-Dichloropropane	V Xylenes		

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Comments:

Acetone	150.B		
Carbon Disulfide	<13.		
2-Butanone	<26.		
Vinyl acetate			
4-Methyl-2-pentanone			
2-Hexanone			
Styrene	<13.		

Values flagged with a "B" indicate that the analyte was detected in the blank as well as the sample. The blank exhibited 54.ppb of Methylene Chloride and 150.ppb of Acetone.

Authorized:_				
Date:	January	18.	1990	



Pesticide/PCB Priority Pollutants

CLIENT	NIAGARA M	OHAWK POWER	CORPORATION		JOB NO	1118.053.517
DESCRIPTION	Walla	ce & Sons, I	nc. Scrapyar	d, Cobleskill, NY	<u>- Soil</u>	
	SED-3					
SAMPLE NO.	J2117	DATE COLLECT	<u>10-10-89</u>	DATE REC'D. 10-13-89	DATE ANA	LYZED 10-18-89
COLUMN TO SERVICE STATE OF THE SERVICE STATE STATE STATE STATE OF THE SERVICE STATE STATE OF THE SERVICE STATE	Lie allo accounts		ppb			ppb
а-ВНС		D-31.12.47	<320:	4,4'-DDT		<640.
у-ВНС		4-		Endosulfan Sulfate		(2) 10 30 4 2 E
β-BHC		司基金的		Endrin Aldehyde		
Heptachic	or			Methoxychlor		<3200
8-BHC		型2.F. 复数支置		Endrin Ketone		<640.
Aldrin				Chlordane		<3200.
Heptachic	or Epoxide			Toxaphene		<6400.
Endosulfa	ın I		—	PCB-1221		<3200.
4,4'-DDE	3.43		<640.	PCB-1232		
Dieldrin			n to the second	PGB-1016/1242	0.7	
Endrin				PCB-1248		
4,4'-DDD				PGB-1254		<6400 (230 -)
Endosulfa	in II	以 自然 表现计划计划	11	PCB-1260		<6400.

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

UNITS: µg/kg dry weight

Comments:

Detection limits raised due to matrix interferences.

Values reported in parentheses are estimated values, detected, but below the quantitation limit.

Authorized: anthony Cucanji

Date: January 5, 1990



Base/Neutral Priority Pollutants

AGARA MOHA	WK POWE	R COR	PORATION		JOB NO	1118.053.517
Wallace	& Sons,	Inc.	Scrapyard,	Cobleskill, NY -	Water	
MW-3						
J2118	DATE COLL	ECTED.	10-10-89	DATE REC'D. 10-13-	89 DATE ANA	LYZED 10-16-89
		P	pb			ppb
cenzene		<	10.	Diethylphthalate		<10.
penzene				N-nitrosodiphenylamin	8	and the state of
penzene				Hexachlorobenzene		
thane	Carlotte Control			4-Bromophenyl phenyl	ether	多数
ethyl) ether				Phenanthrene		
isopropyl) eth	er			Anthracene		
n-propylamine				Di-n-butyl phthalate		
		STATE OF STA		Fluoranthene		
utadiene		人公人		Pyrene		
robenzene				Benzidine		*
				Butyl benzyl phthalate	A The second	<10.
				Bis(2-ethylhexyl)phtha	late	
ethoxy) metha	ine			Chrysene	militrased promitivate in similar	
yclopentadien	е			Benzo(a)anthracene		
hthalene				3,3-Dichlorobenzidine		<21.
ene	and the labels as	and the street with the		Di-n-octylphthalate		<10.
18				Benzo(b)fluoranthene	- ** ****** n	Service and the service at the servi
halate			Contracting on Terms (C)	Benzo(k)fluoranthene		
uene				Benzo(a)pyrene		
	The state of the s			Indeno(1,2,3-cd)pyrene		
nyl phenyl eth	er			Dibenzo(a,h)anthracen	0	
CONTRACTOR AND PARTY AND ADDRESS.	A SHALL SHOW THE REAL PROPERTY.	The State of	The Bulletin Combined to the Com-			
luene		111111111111111111111111111111111111111		Benzo(g,h,i)perylene		
	Wallace MW-3 J2118 Denzene Den	Wallace & Sons, MW-3 J2118 DATE COLL Denzene Chane Cethyl) ether Cisopropyl) ether Cisopropyl) ether Cobenzene Cutadiene Cobenzene Cethoxy) methane Cyclopentadiene Chalate	Wallace & Sons, Inc. MW-3 J2118 DATE COLLECTED Denzene Chane Cethyl) ether isopropyl) ether n-propylamine cobenzene cethoxy) methane yclopentadiene chalate uene	MW-3 J2118 DATE COLLECTED 10-10-89 ppb Denzene Chane Cethyl) ether Denzene Cobenzene Cobenzene	Wallace & Sons, Inc. Scrapyard, Cobleskill, NY MW-3 J2118 DATE COLLECTED 10-10-89 DATE REC'D. 10-13- ppb Diethylphthalate N-nitrosodiphenylamin Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Di-n-butyl phthalate Fluoranthene Di-n-butyl phthalate Fluoranthene Di-n-butyl phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Benzo(a)anthracene Di-n-octylphthalate Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene	Wallace & Sons, Inc. Scrapyard, Cobleskill, NY - Water MW-3 J2118 DATE COLLECTED 10-10-89 DATE REC'D. 10-13-89 DATE ANA ppb Diethylphthalate N-nitrosodiphenylamine Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Di-n-butyl phthalate Fluoranthene Pyrene Benzidine Butyl benzyl phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Benzo(a)anthracene Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List

Authorized: Cathon Curren

Date: January 5, 1990



Acid Priority Pollutants

CLIENT	NIAGARA MO	HAW	K POWE	R COR	PORATION			_	iOB NO	1118	3.053.51	7
DESCRIPTION	Wallac	е &	Sons,	Inc.	Scrapyard	, Cobleski	11, NY		Water			
	MW-3											
SAMPLE NO	J2118	DAT	E COLLE	CTED_	10-10-89	_DATE REC'D	10-13-	89	DATE ANAL	YZED .	_10-16-	89_

	ppb		ppb
2-Chlorophenol	.01	2,4,6-Trichlorophenol	<10.
2-Nitrophenol	-	4-Chloro-3-methylphenol	KIO.
Phenol		2,4-Dinitrophenol	<53.
2,4-Dimethylphenol		2-Methyl-4,6-dinitrophenol	
2,4-Dichlorophenol	V	Pentachlorophenol	
		4-Nitrophenol	
			The second second

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<10.		
2-Methylphenol			
4-Methylphenol			
Benzoic Acid	<53.		
4-Chloroaniline	<10.		
2-Methylnaphthalene	<10		
2,4,5-Trichlorophenol	<53.		
2-Nitroaniline			
3-Nitroaniline			
Dibenzofuran	<10.		
4-Nitroaniline	<53.		

Authorized: January 5, 1990



Purgeable Priority Pollutants

CLIENTNIAGARA MOHAWK POWER CON	RPORATION	JOB N	o. 1118.053.517
DESCRIPTION Wallace & Sons, Inc	c. Scrapyar	d, Cobleskill, NY - Wat	er
MW-3			
SAMPLE NO. J2118 DATE COLLECTED	10-10-89	DATE REC'D. 10-13-89 DATE	ANALYZED 10-20-89
1	ppb		ррь
Chloromethane	(10.	t-1,3-Dichloropropene	<5.
Bromomethane		Trichloroethene	
Vinyl chloride		Benzene	
Chloroethane	\downarrow	Dibromochloromethane	
Methylene chloride	<5.	1,1,2-Trichloroethane	
1,1-Dichloroethene		c-1,3-Dichloropropene	V
1,1-Dichloroethane		2-Chloroethylvinyl ether	<10.
t-1,2-Dichloroethene		Bromoform	K 5.
Chloroform		1,1,2,2-Tetrachloroethane	
1,2-Dichloroethane		Tetrachioroethene	
1,1,1-Trichloroethane		Toluene	
Carbon tetrachloride		Chlorobenzene	
Bromodichloromethane		Ethylbenzene	
1,2-Dichloropropane	V	Xylenes	

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Comments:

Acetone	<10.
Carbon Disulfide	<u><5.</u>
2-Butanone	<10
Vinyl acetate	
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<5.

Authorized: _				
Date	January	18.	1990	



Base/Neutral Priority Pollutants

CLIENTNIA	GARA MOHAWK	POWER	CORPORATION		OB NO. 1118.053.517
DESCRIPTION _	Wallace &	Sons,	Inc. Scrapyan	rd, Cobleskill, NY - W	ater
	W - 1				
SAMPLE NO	J2119 DA	TE COLLE	CTED 10-12-8	DATE REC'D. 10-13-89	PATE ANALYZED 10-16-89
			ppb		ррь
1,3-Dichlorob	enzene		<10.	Diethylphthalate	<10.
1,4-Dichlorob	enzene			N-nitrosodiphenylamine	以及第2月 4月 2月
1,2-Dichlorob	enzene			Hexachlorobenzene	
Hexachloroet	hane			4-Bromophenyl phenyl ethe	er e
Bis (2-chloroe	thyl) ether			Phenanthrene	
Bis (2-chloroi	sopropyl) ether			Anthracene	
N-Nitrosodi-n	-propylamine			Di-n-butyl phthalate	
Nitrobenzene	Z tests i mishalis as Wa	A STATE OF THE LEVEL OF		Fluoranthene	
Hexachlorobu	ıtadiene	外 大大	10 PES	Pyrene	
1,2,4-Trichlor	obenzene	THE PARTY NAMED IN	California Promision	Benzidine	
Isophorone				Butyl benzyl phthalate	<10.
Naphthalene			34	Bis(2-ethylhexyl)phthalate	
Bis (2-chloroe	ethoxy) methane			Chrysene	
Hexachlorocy	clopentadiene		Community (Section 1997)	Benzo(a)anthracene	
2-Chloronaph	thalene	elene.		3,3-Dichlorobenzidine	<21.
Acenaphthyle	ne		Charles Control Cartino	Di-n-octylphthalate	<10.
Acenaphthen			SENSE EN SOME	Benzo(b)fluoranthene	
Dimethyl phth	nalate	-	and the second second	Benzo(k)fluoranthene	
2,6-Dinitrotol	iene			Benzo(a)pyrene	
Fluorene			the second second	Indeno(1,2,3-cd)pyrene	
4-Chloropher	yl phenyl ether	D 18 11 18		Dibenzo(a,h)anthracene	
2,4-Dinitrotol	Jene	A POST PORCE	and the second second	Benzo(g,h,i)perylene	
1,2-Diphenylt	ydrazine	21031101		N-Nitrosodimethyl Amine	

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List

Authorized: Thethern Curry

Date: January 5, 1990



Acid Priority Pollutants

CLIENT	NIAGARA MO	HAW	K POWER	R COR	PORATION				_	_JOB NO	1118	.053.	517	
DESCRIPTION	Wallac	e &	Sons,	Inc.	Scrapyard	, Cobleskil	1,	NY	-	Water				
	W-1													
SAMPLE NO.	J2119	DAT	TE COLLE	CTED	10-12-89	DATE REC'D	10-	-13-	89	DATE ANA	LYZED	10-1	6-89	

ppb		ppb		
2-Chlorophenol	2,4,6-Trichlorophenol	<10.		
2-Nitrophenol	4-Chloro-3-methylphenol	<10-		
Phenoi	2,4-Dinitrophenol	<53.		
2,4-Dimethylphenol	2-Methyl-4,6-dinitrophenol			
2,4-Dichlorophenol	Pentachlorophenol			
	4-Nitrophenol			

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<10.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<53.
4-Chloroaniline	<10.
2-Methylnaphthalene	<10.
2,4,5-Trichlorophenol	<53.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<10.
4-Nitroaniline	<53.

Authorized: Authorized: January 5, 1990



Purgeable Priority Pollutants

CLIENT NIAGARA MOHAWK	POWER CORP	ORATION	JOB NO1118.053.	517
DESCRIPTION Wallace &	Sons, Inc.	Scrapyard, Cobleskill, NY	Water	
W-1				
SAMPLE NO. J2119DATE	COLLECTED_	10-12-89 DATE REC'D. 10-13-8	BO DATE ANALYZED 10-2	0-89
		ppb	ppb	
Chloromethane	<1	t-1,3-Dichloropropen	e <5.	
Bromomethane		Trichloroethene		
Vinyl chloride		Benzene		
Chloroethane		Dibromochlorometha	ine	
Methylene chloride	- <	1,1,2-Trichloroethane		
1,1-Dichloroethene		c-1,3-Dichloroproper	ie 🔻 🗸	
1,1-Dichloroethane		2-Chloroethylvinyl et	her <10.	
t-1,2-Dichloroethene	1 21 28 2	Bromoform	<5.	
Chloroform		1,1,2,2-Tetrachloroet	hane	
1,2-Dichloroethane		Tetrachloroethene		
1,1,1-Trichloroethane		Toluene		W.
Carbon tetrachloride		Chlorobenzene		
Bromodichloromethane		Ethylbenzene		
1,2-Dichloropropane		/ Xylenes		

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984 Comments:

Acetone	<10.
Carbon Disulfide	<5.
2-Butanone	<10.
Vinyl acetate	
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<5.

Authorized:		_		_
Date:	January	18,	1990	



CLIENT NIA	GARA MOHAWK PO	VER CORPORA	rion			NO1118.	053.517
DESCRIPTION	Wallace & Son:	s, Inc. Scra	apyard, Col	oleskill,	NY - Soi	<u>ls</u>	
DATE COLLECTED 10-10/12-89 DATE R		DATE REC'E	10-13-	-89	DATE ANALY	ZED	8-89
			Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS	
SED-1			J2120	3.8	1254/1260	28.	
SED-2			J2121	5.8	1248+1254		
SED-4		这位大型政策	J2122	4.6	1248+1254	60 43.	
SED-5			J2123	28.	1248+1260	61.	
SED-6			J2124	5.0	1248+1254	60 68.	
建 业公司							在学生的有差
			\$1600				讲诗 证
			27.7		建 以前的时间		
被制料		建				信仰的人	
	中国主义						
(1) (1) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4							
	Partic			(表) [4] [1]			
		· #.			UNITS	mg/kg dr	y weight

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/((ppm) unless otherwise noted

Comments:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: _

Date: January 4, 1990



CLIENT NIAGARA MOHAWK POWER CORP		o. <u>1118.</u>	053.517		
DESCRIPTION Wallace & Sons, Inc.	NY - Wate	r <u>s</u>			
DATE COLLECTED 10-10/12-89 DATE	REC'D. 10~13-89		DATE ANALYZ	ED 10-1	7-89
	Sample #	PCB	Aroclor		
Miv-3	J2118	<0.065		建設活送	
W-1	J2119	0.39	1248+1260		
MW-1	J2125	1.5	1260		
MW-2	J2126	<0.065	-		
MW-4	J2127	<0.065		(1) 数据	
W-2	J2130	0.24	1248+1260		
W-3	J2131	0.12	1248+1260		
W-4	J2132	0.72	1248+1260	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
A PROPERTY OF THE PARTY OF			有""		
加州的科尔 国泰马布森高级5					
第6年15年18年18日				enterpetion (contractor	
			西南部		
			UNITS	μg/1	

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1964

Units: mg/t (ppm) unless otherwise noted

Comments:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: January 4, 1990



Purgeable Priority Pollutants

CLIENT NIAGARA MOHAWK P	OWER CORPOR	RATION		JOB	NO. 1118.	053.517
DESCRIPTION Wallace & So	ns, Inc. So	crapyard, C	obleskill,	NY - Wa	ters	
DATE COLLECTED 10-10/1	2-89 DATE F	REC'D. 10-1	3-89	DATE ANALY	ZED10-13	-89
DESCRIPTION:	MW-1	MW-2	MW-4	W-1	W-2	W-3
	****		-0.0			
SAMPLE NO.:	J2125	J2126	J2127	J2128	J2130	J2131
Chloromethane	<1.	<1.	<1.	ci.	(1.	<1.
Bromomethane	2					
Vinyl chloride	斯里里里				原学学	
Chloroethane						
Methylene chloride				14 15 Table 1		1 4 7 1 1
1,1-Dichloroethene			Marine a Room -			
1,1-Dichloroethane					7-1-1	
t-1,2-Dichloroethene	1			1		
Chloroform	2.	William Short				414
1,2-Dichloroethane	<1.				,	
1,1,1-Trichloroethane						
Carbon tetrachloride						
Bromodichloromethane			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
1,2-Dichloropropane			7			
t-1,3-Dichloropropene						
Trichloroethene						
Benzene						
Dibromochloromethane						
1,1,2-Trichloroethane						
c-1,3-Dichloropropene	1	1	1	↓ ↓	↓	1
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<1.0 -
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1	<1.	<1.	<1.	<1.	<1.
Tetrachioroethene						
Toluene						
Chlorobenzene		b				
Ethylbenzene		/ Land				
Xylenes	1	↓	\downarrow	↓	\[\psi \]	. ↓
			•			
			A1	UNIT	: μg/l	

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: ug/l (ppb) unless otherwise noted

Comments:

OBG Laboratories, Inc. Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494 Authorized: Mulhom Guerante January 4, 1990



Purgeable Priority Pollutants

CLIENT NIAGARA MOHAWK	JOE	JOB NO1118.053.517						
DESCRIPTION Wallace & S	Sons, Inc. S	crapyard,	Cobleskil	1, NY - Wa	ters			
DATE COLLECTED 10-10-89)DATE F	DATE REC'D. 10-13		DATE ANALY	ZED 10-13-89			
DESCRIPTION:	W-4	QC Trip Blank						
SAMPLE NO.:	J2132	J2133						
Chloromethane	<1.	<1.	32 (1)					
Bromomethane								
Vinyl chloride								
Chloroethane								
Methylene chloride		Part of the last o						
1,1-Dichloroethene								
1,1-Dichloroethane								
t-1,2-Dichloroethene								
Chloroform			SIM SO	100				
1,2-Dichloroethane								
1,1,1-Trichloroethane			The state of		144			
Carbon tetrachloride								
Bromodichloromethane		2.00		1				
1,2-Dichloropropane								
t-1,3-Dichloropropene								
Trichloroethene								
Benzene					and a feet			
Dibromochloromethane						and the second s		
1,1,2-Trichloroethane								
c-1,3-Dichloropropene	1	1						
2-Chloroethylvinyl ether	<10.	<10.						
Bromoform	<10.	<10.						
1,1,2,2-Tetrachioroethane	<1.	<1.						
Tetrachloroethene								
Toluene				1				
Chlorobenzene			1					
Ethylbenzene	Parkers III							
Xylenes		V	es.					
		<u></u>		UNIT	 S: μg/1			

OBG Laboratories, Inc. Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

Methodology: Federal Register-40 CFR, Part 136, October 26, 1984

Comments:

Authorized: Chuthany Cusa

Units: µg/l (ppb) unless otherwise noted

Date: January 4, 1990



Base/Neutral Priority Pollutants

CLIENT NIAGARA MOHAWK POWER CORPORATION	
DESCRIPTION Wallace & Sons, Inc. Scrapyard	, Cobleskill, NY - Water
MW-1	
SAMPLE NO. J2125 DATE COLLECTED 10-12-89	DATE REC'D. 10-13-89 DATE ANALYZED 10-16-89
ppb	ppb
1,3-Dichlorobenzene <11.	Diethylphthalate <11.
1,4-Dichlorobenzene	N-nitrosodiphenylamine
1,2-Dichlorobenzene	Hexachlorobenzene :
Hexachloroethane	4-Bromophenyl phenyl ether
Bis (2-chloroethyl) ether	Phenanthrene
Bis (2-chloroisopropyl) ether	Anthracene
N-Nitrosodi-n-propylamine	Di-n-butyl phthalate
Nitrobenzene	Fluoranthene
Hexachlorobutadiene	Pyrene
1,2,4-Trichlorobenzene	Benzidine
Isophorone	Butyl benzyl phthalate <11.
Naphthalene	Bis(2-ethylhexyl)phthalate
Bis (2-chloroethoxy) methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)anthracene
2-Chloronaphthalene	3,3-Dichlorobenzidine <22.
Acenaphthylene	Di-n-octylphthalate <11.
Acenaphthene	Benzo(b)fluoranthene .
Dimethyl phthalate	Benzo(k)fluoranthene
2,6-Ölnitrotoluene	Benzo(a)pyrene
Fluorene	Indeno(1,2,3-cd)pyrene
4-Chlorophenyl phenyl ether	Dibenzo(a,h)anthracene
2,4-Dinitrotoluene	Benzo(g,h,i)perylene
1,2-Diphenylhydrazine	N-Nitrosodimethyl Amine
	L

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List

Authorized: January 5,

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Acid Priority Pollutants

CLIENTN	IAGARA MOH	HAWK POWE	R COR	PORATION				OB NO	1118	.053.517	
DESCRIPTION _	Wallace	& Sons,	Inc.	Scrapyard	_Cobleskil	l, NY	-	Water			
	MW-1										
SAMPLE NO.	J2125	DATE COLLE	CTED_	10-12-89	DATE REC'D.	0-13	-89	_DATE ANA	LYZED	10-16-89	

	ppb
2,4,6-Trichlorophenol	<11.
4-Chloro-3-methylphenol	(II.
2,4-Dinitrophenol	<54.
2-Methyl-4,6-dinitrophenol	新 道是自己发
Pentachlorophenoi	
4-Nitrophenol	
	4-Chloro-3-methylphenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol Pentachlorophenol

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<11.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<54.
4-Chloroaniline	<11.
2-Methylnaphthalene	<u></u> <11.
2,4,5-Trichlorophenol	<54.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<11.
4-Nitroaniline	<54.

Authorized: January 5, 1990

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494



Base/Neutral Priority Pollutants

LIENTNI	AGARA MOHAW	K POWER	COR	PORATION		JOB NO	1118.053.517
ESCRIPTION _		Sons,	Inc.	Scrapyard,	Cobleskill, NY -	Water	
	MW-2						
AMPLE NO		TE COLLE	CTED	10-10-89	DATE REC'D. 10-13-8	DATE ANA	10-16-89
martine of the second		40.00	e de	ppb			ррь
1.3-Dichlorob	enzene		· · · · ·	ing programme	Diethylphthalate		<11.
1,4-Dichlorob	enzene				N-nitrosodiphenylamine	Art -	
1,2-Dichlorob	enzene				Hexachlorobenzene		
Hexachloroet	hane				4-Bromophenyl phenyl e	ther	有情况
Bis (2-chloro	thyl) ether				Phenanthrene		
Bis (2-chloroi	sopropyl) ether				Anthracene		
N-Nitrosodi-n	-propylamine				Di-n-butyl phthalate		
Nitrobenzene					Fluoranthene		
Hexachlorobi	itadiene				Pyrene	A STATE OF THE PARTY OF THE PAR	
1,2,4-Trichlor	obenzene				Benzidine		
Isophorone					Butyl benzyl phthalate		<11.
Naphthalene					Bis(2-ethylhexyl)phthala	te	
Bis (2-chloro	ethoxy) methani	12.	ND.		Chrysene	ang kathi at Pangkangan at Anahada	
Hexachlorocy	clopentadiene				Benzo(a)anthracene		
2-Chloronaph	thalene			海马海豚	3,3-Dichlorobenzidine		<22.
Acenaphthyle	ene	a sintal and			Di-n-octylphthalate	y in	(III.
Acenaphthen	6				Benzo(b)fluoranthene	Actual the soliday areas.	The second second
Dimethyl phti	nalate	-		A STATE OF THE PARTY.	Benzo(k)fluoranthene		
2,6-Dinitrotol	uene				Benzo(a)pyrene	The state of the state of	
Fluorene	The state of the s	-	mente anticali		Indeno(1,2,3-cd)pyrene	to 12.6	
4-Chloropher	yl phenyl ether				Dibenzo(a,h)anthracene		
2,4-Dinitrotol	uene	TOTAL PROPERTY.			Benzo(g,h,i)perylene		
1,2-Diphenyit	nydrazine			7312800 ASI	N-Nitrosodimethyl Amin	0	

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1964

Comments:

*Not Included in HSL List or TCL List

Date: January 5, 1990



Acid Priority Pollutants

CLIENTN	IAGARA MO	IAW.	K POWE	R COR	CORPORATION					OB NO	1118	.053.517	
DESCRIPTION _	Wallac	e &	Sons,	Inc.	Scrapyard	, Cobleskil	l1, 1	YY	_	Water			
	MW-2												
SAMPLE NO.	J2126	DAT	TE COLLE	CTED	10-12-89	DATE REC'D.	10-1	13-8	9	DATE ANAL	YZED	10-16-89	

ppb		ррь
2-Chlorophenol <11.	2,4,6-Trichloropheno!	<11.
2-Nitrophenol	4-Chloro-3-methylphenol	(11.
Phenol	2,4-Dinitrophenol	<56.
2,4-Dimethylphenol	2-Methyl-4,6-dinitrophenol	
2,4-Dichlorophenol	Pentachlorophenol	
	4-Nitrophenol	

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Benzyl Alcohol	<11.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<56.
4-Chloroaniline	<11.
2-Methylnaphthalene	<11.
2,4,5-Trichlorophenol	<56.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<11.
4-Nitroaniline	, <56.

Authorized: antho January 5, 1990



Base/Neutral Priority Pollutants

CLIENTNIAGA	RA MUHAWK POWER CORP	ORATION		B NO
DESCRIPTIONW	allace & Sons, Inc.	Scrapyard,	Cobleskill, NY - War	ter
M	W- <u>4</u>			
SAMPLE NOJ	2127 DATE COLLECTED	10-10-89	DATE REC'D. 10-13-89 DA	TE ANALYZED 10-16-89
	P. Constant C. March	pb		ppb
1,3-Dichlorobenz	ene (1	i - yar	Diethylphthalate	<11.
1,4-Dichlorobenz	ene		N-nitrosodiphenylamine:	建筑 100 100 100 100 100 100 100 100 100 10
1,2-Dichlorobenz	ene .		Hexachlorobenzene	
Hexachloroethan	e		4-Bromophenyl phenyl ether	With the second
Bis (2-chloroethy	rl) ether		Phenanthrene	
Bis (2-chloroisop	ropyl) ether		Anthracene	分析。其类类的 流流
N-Nitrosodi-n-pro	opylamine		Di-n-butyl phthalate	ALCOHOL MANAGEMENT OF THE PARTY
Nitrobenzene			Fluoranthene	A THE STATE OF THE STATE OF
Hexachlorobutad	liene		Pyrene	
1,2,4-Trichlorobe	nzene		Benzidine	THE CAMPAGE THE SE
fsophorone		"但",在由"	Butyl benzyl phthalate	<11.
Naphthalene		Security Statement of the Con-	Bis(2-ethylhexyl)phthalate	16.
Bis (2-chloroetho	oxy) methane		Chrysene	<11.
Hexachlorocyclo	pentadiene	A CONTRACTOR OF THE PARTY OF TH	Benzo(a)anthracene	<11.
2-Chloronaphtha	lene		3,3-Dichlorobenzidine	<21.
Acenaphthylene			Di-n-octylphthalate	<11.
Acenaphthene			Benzo(b)fluoranthene	And the state of the second se
Dimethyl phthala	te		Benzo(k)fluoranthene	
2,6-Dinitrotoluen	e		Benzo(a)pyrene	
Fluorene		F- 674	Indeno(1,2,3-cd)pyrene	
4-Chlorophenyl p	phenyl ether		Dibenzo (a,h)anthracene	The second secon
2,4-Dinitrotoluen	e		Benzo(g,h,i)perylene	
1,2-Diphenylhydi	azine "	A	N-Nitrosodimethyl Amine	
the state of the last of the last the l	the bearing of the board was to be a few and the same of the same	The second second second second second		

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List

Date: January 5, 1990



Acid Priority Pollutants

CLIENTN	IAGARA MO	LAW	POWE	R COR	PORATION				108 NO	1118.053.517
DESCRIPTION_	Wallace	e &	Sons,	Inc.	Scrapyard	, Cobleskil	1, N	Y -	Water	
	MW-4									
SAMPLE NO.	J2127	DAT	E COLLE	CTED	10-10-89	DATE REC'D.	10-1	3-89	DATE ANAL	YZED 10-16-89

ррь	ррь	ppb			
2-Chlorophenol	2,4,6-Trichlorophenol <11.				
2-Nitrophenol	4-Chloro-3-methylphenol (11.				
Phenol	2,4-Dinitrophenol <54.				
2,4-Dimethylphenol	2-Methyl-4,6-dinitrophenol				
2,4-Dichlorophenol	Pentachlorophenol				
	4-Nitrophenol				

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<11.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<54
4-Chloroaniline	<11.
2-Methylnaphthalene	<11
2,4,5-Trichlorophenol	<54.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<11.
4-Nitroamiline	<54.

January 5, 1990



Base/Neutral Priority Pollutants

CLIENTNIA	AGARA MOHAV	VK POWE	R COR	PORATION		JOB NO	1118.053.517
ESCRIPTION _	Wallace 8	Sons,	Inc.	Scrapyard,	Cobleskill, NY -	Water	
	W-2						
AMPLE NO	J2130 _D	ATE COLL	ECTED	10-12-89	DATE REC'D. 10-13-	89 DATE ANA	10-16-89
				ррь			ррь
1,3-Dichlorob	enzene			10	Diethylphthalate		<10.
1,4-Dichlorob	enzene			1	N-nitrosodiphenylamin	e	
1,2-Dichlorob	enzene	1			Hexachlorobenzene		
Hexachloroet	hane				4-Bromophenyl phenyl	ether	
Bis (2-chloro	ethyl) ether		17,		Phenanthrene		
Bis (2-chloroi	sopropyl) ethe	г			Anthracene		
N-Nitrosodi-n	-propylamine				Di-n-butyl phthalate		
Nitrobenzene			and the same of the same of		Fluoranthene		
Hexachlorobu	utadiene				Pyrene		
1,2,4-Trichlor	obenzene				Benzidine		
Isophorone					Butyl benzyl phthalate	ALL BOOK ON WALKER THAN	<10.
Naphthalene					Bis(2-ethylhexyl)phthal	ate	
Bis (2-chloroe	ethoxy) methar	ie			Chrysene	AND ASSESSMENT OF TAXABLE	
Hexachlorocy	clopentadiene		ALDEA TOWNSTON		Benzo(a)anthracene		
2-Chloronaph	thalene				3,3-Dichlorobenzidine		<21.
Acenaphthyle	ene				Di-n-octylphthalate		<10.
Acenaphthen	8				Benzo(b)fluoranthene		
Dimethyl phth	nalate				Benzo(k)fluoranthene		
2,6-Dinitrotol	цепе			21199 (24) (25)	Benzo(a)pyrene	No. of the Control of	on Francis Development of the
Fluorene	And white is a second of the s		Carried Co.	- 100 m a - 11 m - 12 m	Indeno(1,2,3-cd)pyrene		
4-Chloropher	yl phenyl ethe				Dibenzo(a,h)anthracen	e	
2,4-Dinitrotol	uene		20 a m (a - 20) ta		Benzo(g,h,i)perylene		
1,2-Diphenyli	nydrazine	Hala			N-Nitrosodimethyl Ami	ne	

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List

Authorized: Cuthan Cuca.

Date: January 5, 1990

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Acid Priority Pollutants

CLIENTN	AGARA MOH	IAWI	POWE	R COR	PORATION					_JOB NO	1118	.053.517	
DESCRIPTION _	Wallace	6	Sons,	Inc.	Scrapyard,	Cobleskil	1,	NY	-	Water			
	₩-2											9	
SAMPLE NO	J2130	DAT	E COLLE	CTED	10-12-89	DATE REC'D.	10-	-13-8	89	DATE ANAL	YZED	10-16-89	ĺ

PI	ppb	
2-Chlorophenol <10.	2,4,6-Trichlorophenol	<10.
2-Nitrophenol	4-Chloro-3-methylpheno	oi <10.
Phenol	2,4-Dinitrophenol	<52.
2,4-Dimethylphenol	2-Methyl-4,6-dinitropher	nol
2,4-Dichlorophenol	Pentachlorophenol	
	4-Nitrophenol	

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

<10.
<52.
<10.
<10.
<52.
<10.
<52.

Authorized: January 5, 1990

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494



Base/Neutral Priority Pollutants

	PORATION	JOB NO	1118.053.517
Wallace & Sons, Inc.	Scrapyard,	Cobleskill, NY - Water	
W-3			
J2131 DATE COLLECTED	10-10-89	DATE REC'D. 10-13-89 DATE ANA	10-16-89
	ppb	1	ppb
enzene <	10.	Diethylphthalate	<10.
enzene		N-nitrosodiphenylamine	
enzene	*******	Hexachlorobenzene	
ane		4-Bromophenyl phenyl ether	
thyl) ether		Phenanthrene	
opropyl) ether		Anthracene	
propylamine		Di-n-butyl phthalate	
	X has been dispersion of the	Fluoranthene	
tadiene		Pyrene	
benzene		Benzidine	
		Butyl benzyl phthalate	<10.
	or from the comment of the second of the comment of	Bis(2-ethylhexyl)phthalate	Man Alberta and
thoxy) methane		Chrysene	
clopentadiene		Benzo(a)anthracene	DESTRUCTION OF THE RESERVED
halene	有是可以能	3,3-Dichlorobenzidine	<21.
18		Di-n-octylphthalate	€10.
		Benzo(b)fluoranthene	
alate		Benzo(k)fluoranthene	
ene		Benzo(a)pyrene	
The second secon		Indeno(1,2,3-cd)pyrene	
yl phenyl ether		Dibenzo(a,h)anthracene	N. F. Vine
ene		Benzo(g,h,i)perylene	278655
ydrazine		N-Nitrosodimethyl Amine	
	J2131 DATE COLLECTED Banzene	J2131 DATE COLLECTED 10-10-89 ppb enzene e	J2131 DATE COLLECTED 10-10-89 DATE REC'D. 10-13-89 DATE ANA ppb serzene

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List

Authorized: authorized January 5, 1990



Acid Priority Pollutants

CLIENTNI	AGARA MO	HAWK POWER	CORPOR	ATION				_JOB NO	1118.053.517
DESCRIPTION _	Wallac	e & Sons,	Inc. Sc	rapyard	. Cobleski	11. NY	-	Water	
	W-3								
SAMPLE NO	J2131	_DATE COLLE	CTED 10	-10-89	DATE REC'D	10-13-	89	_DATE ANAL	LYZED 10-16-89

	ppb		ppb		
2-Chlorophenol	<10.	2,4,6-Trichlorophenol	<10.		
2-Nitrophenol		4-Chloro-3-methylphenol	<10.		
Phenol		2,4-Dinitrophenol	<52.		
2,4-Dimethylphenol		2-Methyl-4,6-dinitrophenol			
2,4-Dichlorophenol	· V	Pentachlorophenol			
		4-Nitrophenol	国际 具 不当年		
			and the state of t		

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<10.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<52.
4-Chloroaniline	<10.
2-Methylnaphthalene	<10.
2,4,5-Trichlorophenol	<52.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<10.
4-Nitroaniline	<52.

January 5, 1990



Base/Neutral Priority Pollutants

CLIENTNIA	GARA MOHAWK POWER CO	RPORATION	JOB NO	
DESCRIPTION	Wallace & Sons, Inc	. Scrapyard,	Cobleskill, NY - Water	
	W-4			
SAMPLE NO	J2132 DATE COLLECTE	10-10-89	DATE REC'D. 10-13-89 DATE A	NALYZED 10-16-89
		ppb .		ррб
1,3-Dichlorob	enzene	(i)	Diethylphthalate	<11.
1,4-Dichlorob	enzene		N-nitrosodiphenylamine	第二届 中国中华
1,2-Dichlorob	enzene		Hexachlorobenzene	
Hexachloroeth	nane		4-Bromophenyl phenyl ether	
Bis (2-chloroe	thyl) ether		Phenanthrene	
Bis (2-chlorois	sopropyl) ether		Anthracene	by a street
N-Nitrosodi-n-	-propylamine	图 医复数器	Di-n-butyl phthalate	
Nitrobenzene			Fluoranthene	
Hexachlorobu	tadiene		Pyrene	
1,2,4-Trichlord	benzene		Benzidine	
Isophorone	Western Committee	图 化多类类的	Butyl benzyl phthalate	<11.
Naphthalene			Bis(2-ethylhexyl)phthalate	
Bis (2-chloroe	thoxy) methane		Chrysene	
Hexachlorocy	clopentadiene		Benzo(a)anthracene	
2-Chloronaph	thalene	等 医多种样	3,3-Dichlorobenzidine	<22.
Acenaphthyle	ne		Di-n-octylphthalate	(II.
Acenaphthene			Benzo(b)fluoranthene	WASTER SALES AND ADDRESS OF THE PARTY OF THE
Dimethyl phth	alate	Salard befolkered	Benzo(k)fluoranthene	
2,6-Dinitrotolu	iene .		Benzo(a)pyrene	Carried Control of the Control of th
Fluorene	The state of the s		Indeno(1,2,3-cd)pyrene	
4-Chlarophen	yl phenyl ether		Dibenzo(a,h)anthracene	to the state of th
2,4-Dinitrotolu	ene		Benzo(g,h,i)perylene	
1,2-Diphenylh	ydrazine	张	N-Nitrosodimethyl Amine	

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Comments:

*Not Included in HSL List or TCL List

Authorized: Date: January 5, 1990

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494



Acid Priority Pollutants

CLIENTN	AGARA MOH	AWK POWI	ER COR	PORATION				IOB NO	1118.0	53.517	
DESCRIPTION _	Wallace	& Sons	Inc.	Scrapyard,	Cobleskil	1, NY	<u>-</u>	Water			
	W-4										r====
SAMPLE NO	J2132	DATE COLL	ECTED	10-10-89	DATE REC'D	10-13	8-89	DATE ANAL	LYZED	10-16-89	

	ppb			
2-Chlorophenol	C11.	2,4,6-Trichlorophenol	<11	•
2-Nitrophenol	1	4-Chloro-3-methylphenol	~11	
Phenol Liverian		2,4-Dinitrophenol	<56	
2,4-Dimethylphenol		2-Methyl-4,6-dinitrophenol		
2,4-Dichlorophenol	V	Pentachlorophenol		
		4-Nitrophenol		

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

Benzyl Alcohol	<11.
2-Methylphenol	
4-Methylphenol	
Benzoic Acid	<56.
4-Chloroaniline	<11.
2-Methylnaphthalene	<11.
2,4,5-Trichlorophenol	<56.
2-Nitroaniline	
3-Nitroaniline	
Dibenzofuran	<11.
4-Nitroaniline	<56.

Authorized: Outh Grand

OBG Laboratones, Inc., an O'Bnen & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494



CLIENTNIAGAR	A MOHAWK POWER	JOB NO.	1118.053.517		
DESCRIPTION Wa	llace & Sons,	Inc. Scrapy	ard, Cobleskil	1, NY	
То	tal Metals				
DATE COLLECTED	10-10/12-89	DATE DEC'D	10-13-89	DATE ANALYZE	

	Sample #	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY	SILVER	ZINC	PERCENT TOTAL SOLIOS		
Soils (mg/kg dry weight):		Y-10-17 - 17-18-17-18			interes in the					- SECOND 201		
SBD-1	J2120	6.1	<180.	<4.	221	84.	<1.8	<4.	220.	28.		
SED-2	J2121	8.4	<210.	<5.	31.	84.	<2.1	<5.	230.	24.		
SBD-4	J2122	3.3	<230.*	<5.*	19.	37,	<1.2	⟨5,*	140.	43.		
SED-5	J2123	5.6	<160.*	<3.*	31.	910.	<0.8	<3.*	440.	61.		
SED-6	J2124	2.6	<74.	<2.	13.	7160.	<0.8	<2.	110.	68.	i= x	
Naters (mg/l):	the first				Es Cala	1000						··· 1
MW-1	J2125	<0.005	<0.5	<0.01	<0.05	0.22	<0.0005	<0.01	0.14	-		
MV-2	J2126	<0.005	<0,5	<0.01	<0.05	<0.05	<0.0005	<0.01	0.04		,	
MW-4	J2127	<0.005	<0.5	<0.01	<0.05	<0.05	<0.0005	<0.01	0.02	-		
N-2	J2130	<0.005	<0.5	<0.01	<0.05	<0.05	<0.0005	<0.01	0.01	-		
W-3	J2131	<0.005	<0.5	<0.01	<0.05	<0.05	<0.0005	<0.01	0.03	-		
W-4	J2132	<0.005	<0.5	<0.01	<0.05	<0.05	<0.0005	<0.01	0.02	-		,
	27 MP 22 43 7	Livi y	. Ha 4		No.							
	·····	-										
RHADALON ADDRESS		7 A		N-								1
	1											
S												1

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

*The detection limit has been raised due to the presence of matrix interferences.

-

Units: mg// (ppm) unless otherwise noted

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rq. / Syracuse, NY / 13221 / (315) 457-1494 Date: January 4, 1990



OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942/1304 Buckley Rd./Syracuse, NY/13221/(315) 457-1494

Laboratory Report

CLIENT NIAGARA MOHAWK POWER CORPORATI	ON		OB:	NO. 1118.05	3.517	e.						
DESCRIPTION Wallace & Sons, Inc. Scrap	yard, Cobl	eskill, NY	- Quality	Control :	Summary	-						
Trace Metals: Matrix Spik	e, Duplica	te and Met	hod Blank			-						
DATE COLLECTED 10-10/12-89 DATE REC'E	o. <u>10-13-</u>	89	DATE ANALY	ZED See	Below							
PARAMETER	DATE ANALYZED	LABORATOR' NUMBER OF SPIKED SAMPLE	SPIKED SAMPLE RESULT (SSR)	SAMPLE RESULT (SR)	SPIKE ADDED (SA)	SPIKE (%R)	LABORATORY NUMBER OF DUPLICATE SAMPLE	SAMPLE RESULT (S)	DUPLICATE RESULT (D)	DUPLICATE RPD	METHOD BLANK	
Total Metals:								ES-1 - 100	Section of the second			
BARIUM	11-13-89 11-6-89	J2127	0,0224	<0.5	0.02	112.	J2127	<0.005 <0.5	<0.005 <0.5	-	<0.005 <0.5	
CADMIUM		American	0.109	<0.01 <0.05	0.10	109.	W 900	<0.01. <0.05	<0.01 <0.05	-	<0.01 <0.05	
L.BAD		C ZX	0.103	<0.05	0.10	103	AH TAL	<0.05	<0.05		<0.05	
MERCURY	11-6-89	TO THE PARTY	0.00095	<0.0005 <0.01	1.0	95.	700	<0.0005	<0.0005		<0.0005	
ZINC	11-6-89	ALC: STATE OF	0.131	0.02	0.10	111.	Set Division	0.01	0.01	111.	<0.01 <0.01	
		September 1	2,50.07	1	31.635		第75	27 27 27 37 37 37	Angel Company	100 E	10.02	
	T. VIII	COLUMN LEADER	a sphotose	Language Call	Marin	3000	***	-			*	····
Normal Assets				7,05786	SALES.	3/13/6					.	
NOTES: 1) Spike & Recovery = (SSI	SA	100	7-13-1	124 EA	Colores on			1 1				(B) See (B) See
2) Duplicate RPD = $S - D$ (S+D)/3	And the			rum V.		*****				ž		9
3) Values in parentheses :	re values	greater t	han the in	strument d	etection 1	imit, but	ļess than	the repor	ed detect	on limit.		: m
	- interest 1970, 1971	1 1		* * *		* .						
Methodology: Federal Register — 40 CFR, Part 136, Octobe	r 26, 1984		Units: m	ig// (ppm) unles	s otherwise noted							

Authorized authorized Date: January 4, 1990



Matrix Spike and Matrix Spik			*110			-					
DATE COLLECTED 10-12-89 DATE REC'D.	10-13	-89	DATE ANALY	ZED 10-17	-89						
	UNITS	LAB # OF SPIKED SAMPLE	CONC. OF SP1KE ADDED	SAMPLE RESULT	CONC. MS	% RECOVER)	CONC. MSD	% RECOVERY	RPD %		
METHYLENE CHLORIDE	μg/1	J2129	20.0	<1.00	18.0	90.	18.0	90.	0.		
1,1-DICHLOROETHANE		W-1	22.0	visit Miller Der gehande deb	21.7	99.	22.3	101.	3.		
CARBON TETRACHLORIDE			20.0		19.7	99.	18.5	93.	6.		
TETRACHLOROETHENE					19.5	98.	20.9	105.	7.		_
CHLOROBENZENE m-XYLENE	and the same				19.3	97.	19.2 20.1	96. 101.	1.		
	Elements.			7 A A A A A A A A A A A A A A A A A A A				15 H			
	13:30			ning Ka		CANADA S	PLIA				
		Der L	19 10 104	*adolarate	ZewZu	Works	Sales III		THE PERSON NAMED IN		
		La Carlo	-790 (2)	In Jacob	Side S	XBES.	All All Section	1	·***********	trifully wouth of	
ANGEL CONTROL AND ANGEL AND ANGEL			200	142000	ACT CO	ELENY.			-		0.00
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Charles and the control of the contr				· · · · · · · · · · · · · · · · · · ·		*********	ii (1111)				
	The state of										

January 4, 1990

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd_s / Syracuse, NY / 13221 / (315) 457-1494



CLIENT NIAGARA MOHAWK POWER CORPORA				NO		-;					
DESCRIPTION Wallace & Sons, Inc. Scr Matrix Spike & Matrix S				ity Control	l Summary:	_:					
	o10-13-		Extra DATE ANALY	icted: 10-	-18-89	-					
	UNITS	LAB # OF SPIKED SAMPLE	CONC. OF SPIKE ADDED PCB 1242	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD %	LABORATORY Sample #	
SPEEDLE STATE	μ g/1	J2119	1,17	0.079	1.04	89,	1:06	91.	1.9	J2128 & J2129	
			W.E.		Long to a	Month Call	A16.5	19-1/4-1	************	The same of the same	
		A. Vest					25 - Kens	ESC II			
2000年1月1日 - 1000年1月 - 1		Carlo F. L.	act, iii	House Asset		CONTRACT Talestone	Parage.		***		
		id of	<u> </u>	History.	1.11.14	A11.101	124 <u>3</u> 117	MATERIA P.	with a se		
	1802E.1	Takit.	10454	35720		32.77.2		E			
	6711s.	Naiker.	TE.L.	1000				1 ************************************			
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		TO PRODUCE TO		*****							
					-	μĬ					

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg// (ppm) unless otherwise noted

MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
RPD = RELATIVE PERCENT DIFFERENCE

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. (Syracuse, NY / 13221 / (315) 457-1494

January 3, 1990



DESCRIPTION Wallace & Sons, Inc. Ser.									-						
QA/QC Summary - Waters:				rgani	_	,			-						
DATE COLLECTED 10-12-89 DATE REC'D	1	0-13	-89		_DATE ANALY	ZED _	10-10	5-89							
	TIMU	:s	LAB SPIK SAMP	ED	CONC. OF SPIKE ADDED	SAM RES		CONC. MS	% RECOVERY	CONC. OF SPIKE ADDED	CONC , MSD	% RECOVERY	RPD %		
PHENOL	μg		702	119	104.	্বা	0	€ 42,1 °	4ö,	108.	42.6	39.	2.		
2-CHLOROPHENOL	2000	-	-	GI- BOY	104.	HEIRE		85.5	82.	108.	91.6	85.	3.	n willia-e	* 1.** 0.5 * * ****************************
1,4-bicilorobenzene n-nitroso-di-n-propylamine				20 372	52.1 52.1	25	ALK	49.3 48.0	95. 92.	54.1 54.1	51.5 49.8	95. 92.	0.		
1,2,4-TRICHLOROBENZERE 4-CHLORO-3-METHYLPHENOL		, e o e		40000 6000	104.	200		38.3 82.9	74. 80.	108.	40.7 97.7	75. 90.	2. 13.		****
ACENAPHTHENE		1200	16.8	25	52.1		1000	46.8	90.	54.1	49.5	92.	ż.		
4-NITROPHENOL	July Tropid II	Collinson.	AND STATE	E Montantero	104.	3.844.0	DOMESTIC:	43.3	42.	108.	41.	38.	9.		
4-DINITROTOLUBNE PENTACHLOROPHENOL	1	M			52.1	100	13.47	99.0	77. 95.	54.1 108.	42.1 101.	78. 94.	i.		
DI-N-BUTYLPHTHALATH	TERRITY SOUTH		7	The state of	52.1			, 44.2	85.	54.1	45.1	83.	ż.		
PYRENE	,		,		52.1	,		55.6	107.	54.1	55.4	103.	4.		
			- 24.74	inilin	N. L.			建 基于	Salt.			., ., ., .,	•		
	an a	Phy.L.			52211	NEUTHOR TO A	in the second	71		-1111			*	8	
			100			200) Francisco								
	-110 0 4		-				H		w						- 10 100
Extraction	A personal								* * X	MATRIX SP			3 00		

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

OBG Laboratories, Inc., an O'Brien & Gere Limited Company Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

Units: mg// (ppm) unless otherwise noted

MSD = MATRIX SPIKE DUPLICATE
RPD = RELATIVE PERCENT DIFFERENCE

Date: January 5, 1990



CHAIN OF CUSTODY RECORD

SURVEY NIMO	COBLESKILL, NY	1114-053	- 31	SAMPLE:	ten	30	Haff/	Chour	Populo
MOITAT2 EBBMUM	בובחסא נסכבוומא	DARE	TIME.	Same Gree	1560.	SEC.	MO. OF		HEGUINED THATTZIZ
	560 - 5	10/10/29	1620		\times		1	PCB	METALS
	560-6		1625		X		1		J.
	W -3		1553	\perp			5	PCB .	OA, B-N, METALS
.	W-4		1605	\times	j		5		
	MW-Z		1640	i×		į	5		1
	W m -3		1650	\times	İ		6	HS	
Í	MW-4	1	1710	X	į	-	5	PCB,	VOR B-M, META
	580-1	10/12/84	0955		\times		1	PCB,	METALS
	S E 0 - 2	1 1	0940	- l i	\times	j		1	l
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	SE0-4	! [10 10 1		\times	1	1	PCB,	TETALS
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5



CHAIN OF CUSTODY RECORD

SURYEY	MALLALE SCRAP	COBLÉS	K ILL, PY	Pote or	7	aff 10	havn P. O'Dell
NDITA12 REDMUM	נובחסא נפכבוופא	3140	TIME.	Sandt (YPE	SEC.	MQ. QF COMFAIMERS	AMALTSIS REQUIRED
	W-1 DUP	10/12/89	1045			5	PCB, VOA, B-P, META
_	W-1 15		1045			5	
	w-2		1055	X		5	V
	mw-1	1 8	1155	X		5	1
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CASE FILE

	. // .	Date Collected:	10-10412-89
Sampler: Reh	us Hatt.	Date Received:	<u>10-13-8</u> 9
Client Name and	Ref. # :		
Laboratory Numb	er:	1118.053.511	
Condition of Sh	ipment:	9000	
Archive? If so)	now long ?	200	
		Signed: (2000) Sample	Barres
	****	***	
Disposal Procedu	re: <u>Dispo</u>	mate office	talemin s
		Signed: Intho	,
		Date:	1-10-90

^{*} The routine disposal procedure for non-hazardous samples is to dispose of the samples 4 weeks after a typed report is signed and mailed to the client. Water samples are filtered through carbon to the sanitary sewer. Solid samples are sent to a sanitary landfill.

APPENDIX B
SOIL BORING LOGS

O' BRI ENGIN	EN &	GERE S, INC.				TEST BORING LOG	Repor	rt of Boring Sheet 1	No. B	-1		
Projec	t Lo	cation:	Cobbleski	11, New Y	ork	SAMPLER	Ground Wate	er Depth	Da			
Client	: N3	(MO/Wall	ace Scrap			Type: Split Spoon Hammer: 140 lbs. Fall: 30"	File No.:	Deoth	Da			
Forema	in: 1	: Parrat Mark Beck Pist: P.M	tt-Wolff, k M. Haff	Inc.		Boring Location: Ground Elevation: Dates: Started: 9/12/	' 89	End	ed: 9	/12/89		
			Sample			Comple	Stratum	F	Fie	ld Tes	ing	R
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Sample Description	Change General Descript	Equipment Installed	р Н	Sp Cond	HNU	k s*
0	1	0-2'	6-17-9-6	24"/2"	26	Brown, dry SILT, some clay, little fine to medium sand.					0	
	2	2-3.3	16-19-	1.3/1.3	>69	Brown, moist ELAY, little silt, trace fine to coarse sand.				ŗ	0	
_			50/0.3									
						Spoon refusal at 3.3'. Bottom of boring 3.3'.						
										ŝ		
				1								
	-	•										
	\blacksquare			l.								
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			_									
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D' BRIEN & GERE Report of Boring No. B-2 ENGINEERS, INC. TEST BORING LOG Sheet I of 1 Project Location: Cobbleskill, New York Ground Water Depth Depth SAMPLER Date Type: Split Spoon Hammer: 140 lbs. Date Client: NIMO/Wallace Scrap Fall: 30* File No.: 1118.

Boring Co.: Parratt-Wolff, Inc. Foreman: Mark Beck

Boring Location: Bround Elevation:

086 Ge	olog	ist: P.	M. Haff	•			Dates: Started: 9/12/	39	End	ed: 9.	/12/89		
			Sample			Sar	eple	Stratum Change	Equipment	Fie	ld Tes	ting	R
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descri	ription	General Descript	Installed	ρH	Sp Cond	HINU	
0	i	0-21	2-3-6-6	21/21	9	0-2" Black stained so 2-4" Light brown with some fine sand, trace	oil n gray mottling SILT,					0	Ť
•	2	2-41	6-7-8-8	24*/14*	15	isand. trace clav.	e medium to coarse e clay, little fine to ely stiff.					0	
	3	4-61	4-3-2-2	24"/4"	5	Same as above.						0	
5													
	4	6-81	1-3-1-2	24*/16*	4	Brown, wet CLRY, some coarse sand.	e silt, little fine to				ļ	0	
	5	8-8.21	50/0.21	21/21		8-8'1/2" Same as above 8'1/2"-8'2" Dark gray Bottom of boring 8	/ LIMESTONE.					0	
10						b.							
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O'BRIEN & GERE
ENGINEERS, INC.

Project Location: Cobbleskill, New York
Client: NIMO/Wallace Scrap

TEST BORING LOG

Report of Boring No. B-3
Sheet I of 1

SAMPLER
Type: Split Spoon
Hausser: 140 lbs.
Fall: 30"

File No.: 1118.

Boring Co.: Parratt-Wolff, Inc. Foreman: Mark Beck OBS Geologist: P.M. Haff | Boring Location: | Ground Elevation: | Dates: Started: 9/12/89

Ended: 9/12/89

086 Ge	olog	jist: P.	M. Haff				Dates:	Started: 9/12/8	39	End	ed: 9/	/12/89		
11-769-0			Sample			Sat	≅ple		Stratum Change	Equipment	Fie	ld Tes		100
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descr	ription		General Descript	Equipment Installed	pН	Sp Cond	HINEU	k
0	i	0-21	15-18-7-6	2' /3'	25	FILL, gravel, broken	ceramic,	dark staining					0	
_	2	2-41	6-3-6-9	2'/1'	9	Brown, moist SILT, so coarse sand, trace gr	ome clay, ravel.	fine to					0	
	3	4-61	6-9-5-7	21/21	14	Same as above.							0	
5														
	4	6-6.7'	19-50/.2	0.7/0.7	>50	Same as above. Spoon refusal at 6. Bottom of boring at	7'. 6.7'.						0	
_														
									9 9 33					İ
7.7.		165 LA - XI (<u>.</u>									
		1(_1)												
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O'BRIEN & GERE Report of Boring No. 8-4 TEST BORING LOG Sheet 1 of 1 ENGINEERS, INC. Project Location: Cobbleskill, New York SAMPLER Ground Water Depth Date Type: Split Spoon Hammer: 140 lbs. Depth Date File No.: 1118. Client: NIMO/Wallace Scrap Fall: 30" Boring Co.: Parratt-Wolff, Inc. Foreman: Mark Beck Boring Location: Ground Elevation: Ended: 9/12/89 Dates: Started: 9/12/89 OBG Geologist: P.M. Haff Field Testing Stratum Sample Sample Change Equipment Blows /6" "N" Depth Penetr/ Description General . Installed Sp рΗ Cond HNU Depth Value Descript 5# No Recovry 0 0 0-21 6-19-13-7 24"/5" 32 FILL, black stained gravel, ceramic, hardware. 2 6-6-11-22 24"/6" 0 2-41 17 Brown, moist SILT, some clay, little fine to coarse sand, trace gravel. 3 24"/5" 4-6" 13-11-6-8 17 Same as above. 0 5 6-7.21 19-17-14"/3")67 Same as above. 0 Spoon refusal at 7.2%. 50/0.2 Bottom of boring 7.2'.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	Report of Boring No. MW-1 Sheet 1 of 1
Project Location: Cobbleskill, New York		Ground Water Depth Date Depth Date
Client: NIMO/Wallace Scrap	Type: Split Spoon Hammer: 140 lbs. Fall: 30"	Depth Date File No.: 1118.

Boring Co.: Parratt-Wolff, Inc. Foreman: Mark Beck GBG Geologist: P.M. Haff

Boring Location: Bround Elevation: Dates: Started: 9/12/89

Ended: 9/12/89

npo pe	0108	15t: P.P	. narr				Dates: Started: 9/12/	89	End	20: 9/	/12/89		
			Sample	?		Sai	sple	Stratum Change	Equipment	Fie	ld Tes	ting	R
Depth	No	Depth	Blows /6°	Penetr/ Recovry	"N" Value	Descr	ription	General Descript	Equipment Installed	рH	Sp Cond	HNU	k
0		0-3.3				See boring log for b	oring B-1.						
				t ·		CASING INSTALLED TO	5.9'.						
			0 (
5									·				
	1	5.9-		51 /51		Light to medium gray	LIMESTONE, contains		1				
		10.91				Light to medium gray fossilized rugose con biherns, also contain	ns chert nodules.						
	П												
	2	10.9-		5' /5'		Same as above.							
_		15.9'											
22 1 11 12													Ì
													ĺ
	3	15.9-		51 /51		Same as above.							
		20.91											
		:#c											
	4	20.9-		51 /51	_	Same as above.							
30 ST 040 SECTION		25, 91	om some estation i										
	Ц												,
	5	25.9-		5' /5'		Same as above.							
	Ш	30.91											
	6	30.9-		51 /51		Same as above.							
		35.91				,							
											} 		l
						Bottom of boring 3	5. 9'.						

O'BRIEN & GERE ENGINEERS, INC. Project Location: Cobbleskill, New York Client: NIMO/Wallace Scrap Boring Co.: Parratt-Wolff, Inc. Foreman: Mark Beck OBG Geologist: P.M. Haff						TEST B	Report of Boring No. MW-2 Sheet 1 of 1						
					ork	Type: Split Spoon		Ground Water Depth Date Depth Date File No.: 1118.					
							/89 Ended: 9/12/89						
			Sample	•		Sample		Stratum Change	Conjugant	Field Testing R			R
Depth	No	Depth /6"		Penetr/ Recovry	"N" Value	Desc Desc	Description		Equipment Installed	рН	Sp Cond	HMU	M k s*
0		0-3.5				verburden.			· -				
				_									
				1		SET CASING TO 15.5'.							
				*									
5				1 2									
					l								
				1									
	Н												
	H												
	\vdash		_										5
	H		***										
	1	15.5-		41 /41	_	Light to medium gray contains chert nodul	fossilferous LIMESTONE es.						
		19.51						1					
	Н												
	H												
	5	19.5-	-	5' /5'		Same as above.							
		24.51											
		2/ 5		Pr		O consider on							
_	3	24.5-		51/51		Same as above.							
		29.51											

51/51

Same as above.

Bottom of boring 34.5'.

29.5-

34.51

O'BRIEN & SERE ENGINEERS, INC. Project Location: Cobbleskill, New York Client: NIMB/Wallace Scrap						TEST B	Report of Boring No. MW-3 Sheet 1 of 1							
					ork	SAMPLER		Ground Water	er Depth Date					
						Type: Split Spoon Hammer: 140 lbs.	File No.: 11	Depth 18.	Da	te				
Boring Co.: Parratt-Wolff, Inc. Foreman: Mark Beck UB6 Geologist: P.M. Haff							Boring Location: Bround Elevation: Dates: Started: 9/1	/89 Ended: 9/18/89						
Depth			Sample	,				Stratum	Equipment Field Testing Equipment Sp Installed PH Cond HNU					
	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descr	mple ription	Change General Descript	Equipment Installed	p₩	Sp Cond	HNU	k 51	
0		0-15.51				Overburden	-		* · · · · · · · · · · · · · · · · · · ·				Γ	
						SET CASINGG TO 17.5º.								
												1		
				-										
]		
						1			SP.					
			-											
			E											
		-						}						
	1	17.5-				Light to medium gray, STUNE, contains cher	fossilferous LIME-							
		20.51					noget 23							
	2	20.5-				Same as above.								
		25.51												
						Bottom of boring 2	5. 51.							
		_												
					1									
					l					1				
										1			1	

O'BRIEN & GERE ENGINEERS, INC. Project Location: Cobbleskill, New York Client: NIMO/Wallace Scrap						TEST B	Report of Boring No. #W-4 Sheet 1 of 1 Ground Water Depth Date Depth Date File No.: 1118.						
						Type: Split Spoon							
Boring Co.: Parratt-Wolff, Inc. Foreman: Mark Beck CBG Geologist: P.M. Haff					_		Boring Location: Ground Elevation: Dates: Started: 9/14/						
Depth			Sample	?			Stratum	F	ing R				
	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descr	mple ription	Change General Descript	Equipment Installed	рH	Sp Cond	HINU	m k s∗
0	L	0-17.5				Overburden							
	-					CASING SET TO 19.5%.							
		_									}		
	L]		
	H												
	\vdash												
		-											
											}		
_			<u>.</u>										
	1	19.5- 24.5'		5' /4.3'		Light to medium gray. STUNE, contains cher	fossilferous LIME- t nodules.						
	H	24.0'											
A													
	5	24.5-		51 /51	·	Same as above.							
		29.51											
	3	29.5-		51/51		Same as above.	_						
		34.51				Bottom of boring 34	4.5°.		_				



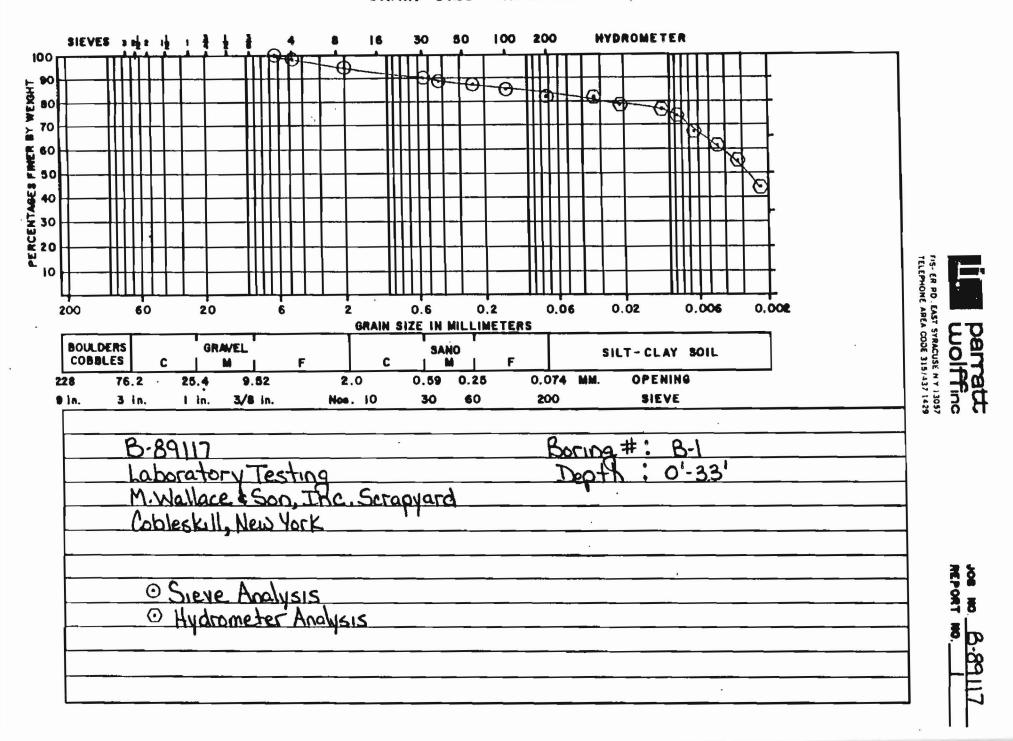


Project No.	B 17		-	-	
Project Title					
•	Coblockill	Now York		· ·	

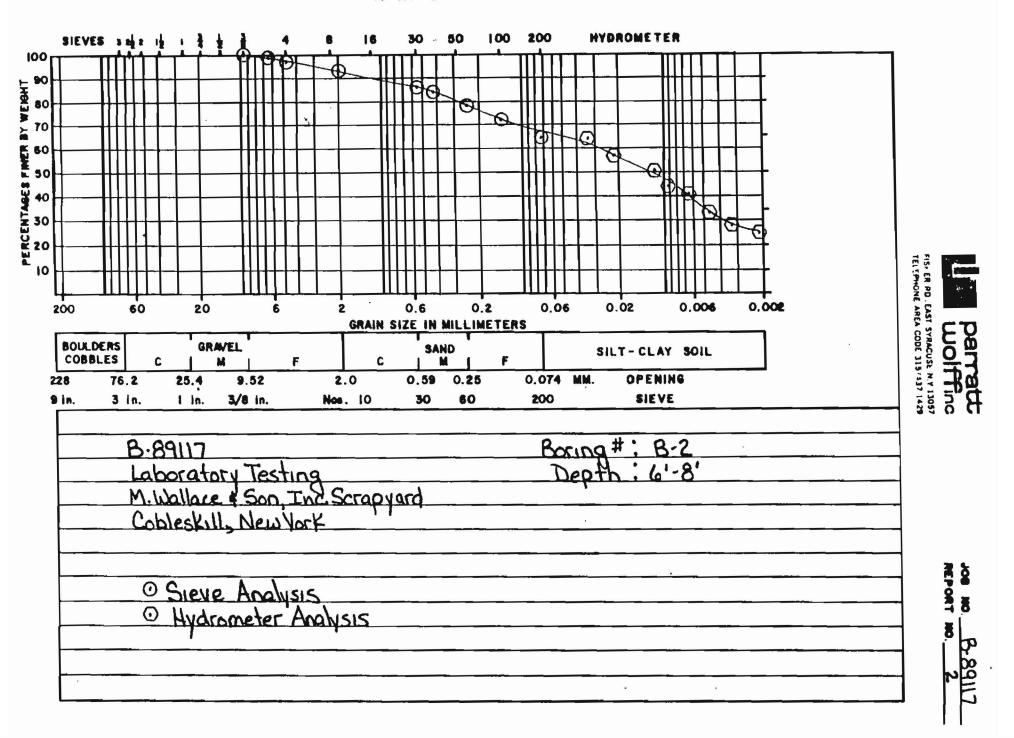
ELEPHONE AREA CODE 315/	437-1429		;	Sieve	Analy		STM								
	,		2		ze -					eve.					
Boring #	Depth (in feet)	1 "	3/8"	1111	#4	#10	#30	#40	#60	#100	#200				
B-1	0-33		-	100	98.5	95.4	90.0	89.0	87.0	84.6	81.8				
B-2	6-8	-	100	99.0	97.0	93.4	86.2	83.8	78.5	71.9	64.8				
B-4	2-4	100	94.4	91.5	89.1	84.2	73.4	70.3	65.1	59.4	53.0				
			_		_		_					 			
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Remarks:	Prewashed	ASTM	C-117
	_Yes <u> x </u>	No By _ <u>w.c</u>	
		,	

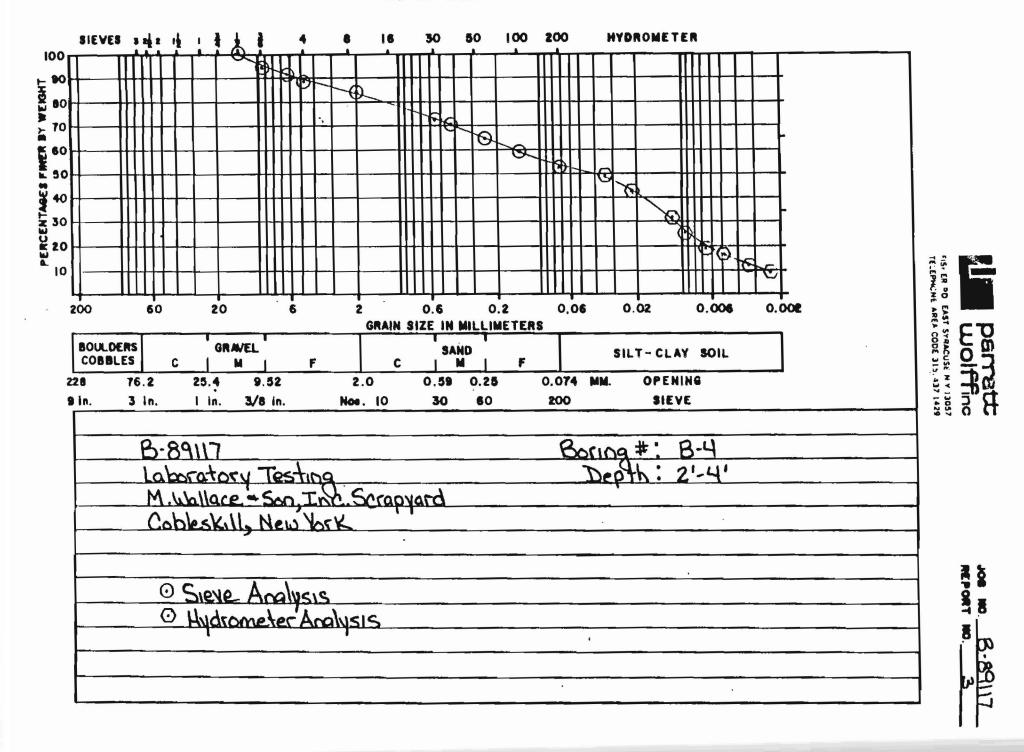
GRAIN SIZE ANALYSIS



GRAIN SIZE ANALYSIS



GRAIN SIZE ANALYSIS





B-89117

Soil Borings and Monitoring Well Installation - M. Wallace and Son, Inc. Scrapyard - Cobleskill, New York File #1118.053

NATURAL MOISTURE CONTENT

Boring #	Depth (in feet)	Moisture as a Percent of Dry Weight
B-1	0~33	19.9
B-2	6-8	20.9
B-4	2-4	11.8

ATTERBERG LIMITS

Boring #	Depth (in feet)	Plastic Limit	Liquid Limit	Plasticity Index
B-1	0-3,3	23	54	31
B-2	6-8	18	35	17
B-4	2-4	14	27	13

APPENDIX D HYDRAULIC CONDUCTIVITY CALCULATIONS

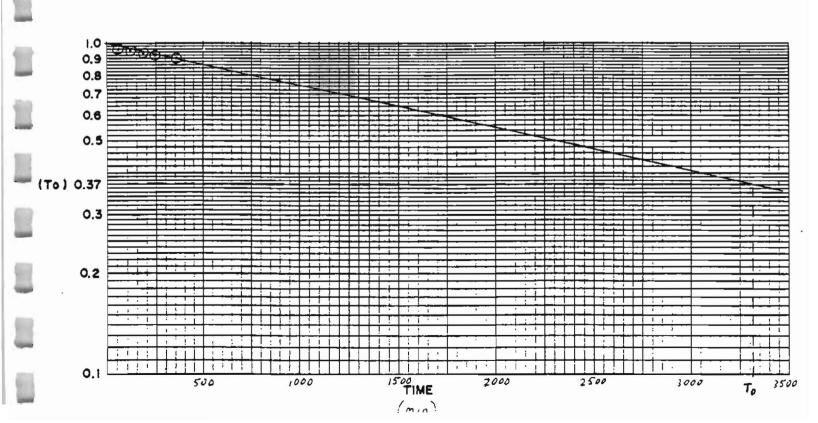
PROJECT: NIMO/WALLACE SCRAP WELL NUMBER: MW-1

DATE: 11/10/89

EVACUATION METHOD: RECOVERY
PERSONNEL: PETER HAFF

DATUM I	FOR	CALCULATIONS:	TOP	QF	STEEL
---------	-----	---------------	-----	----	-------

		1	TIME	ı l	H-h I
STATIC HEAD (H) = 23.54	ft	1	(min)	l h	H-Ho I
		1-			
PIPE RADIUS $(r) = 0.125$	ft	1	0	25.22	1 i
		ł	60	25.16	0.96 (
SCREEN RADIUS (R) = 0.125	ft	1	120	25.13	0.95 1
		1	180	25.10	0.93 1
SCREEN LENGTH (L) = 12.36	ft	i	240	25.08	0.92 (
		1	360	25.05	0.90 1
INITIAL HEAD (Ho) = 25.22	ft	ł		l I	1
		1	1	1	1
To $(from graph) = 3320$	min	1	Ţ	l J	1
199200	sec	1		!	1
		ł		l l	1
		1		I :	l I
		1		l I	Į J
HYDRAULIC CONDUCTIVITY		1		l l	1
		1		I I	l I
r^2 ln(L/R)		1	j	l I	1
= = 1.5E-8	ft/sec	1		l	1
2LTo 4.4E~7	cm/sec	1			1
		1			1



PROJECT: NIMO/WALLACE SCRAP WELL NUMBER: MW-1 DATE: 11/10/89 EVACUATION METHOD: RECOVERY PERSONNEL: PETER HAFF

DATUM FOR CALCULATIONS: TOP OF STEEL

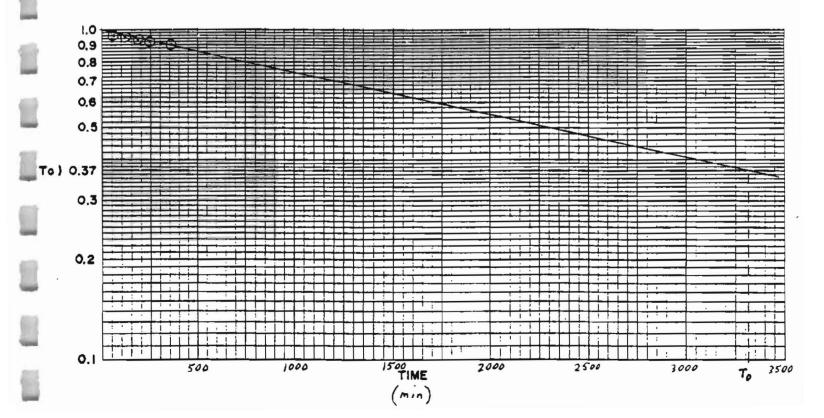
I TIME I H-h I

STATIC HEAD (H) =	23.54 ft
pipE RADius (r) =	0.167 ft
SCREEN RADIUS (R)=	0.125 ft
SCREEN LENGTH (L)=	12.36 ft
INITIAL HEAD (Ho) =	25.22 ft
To (from graph) =	3320 min 199200 sec

1	1 114	1			,, ,, ,
i	(miri)	1	h	ļ	H-Ha I
1		- [-		- 1 -	1
ì	0	ł	25.22	ł	1 1
1	60	1	25.16	ł	0.96
1	120	ŀ	25.13	}	0.95
ł	180	1	25.10	ţ	0.93
1	240	ŀ	25.08	ì	0.92 1
}	360	i	25.05	1	0.90
1		1		1	1
1		1		1	1
1		1		1	1
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1		1		1	1
1		1		1	1
1		I		ł	1
1		ì		İ	1
1		ı		1	1
1		1		1	1
1		1		I	J
1		1		1	i

r^2 ln(L/R)			
	=	2.6E-8	ft/sec
2LTo		7.9E-7	cm/sec

HYDRAULIC CONDUCTIVITY



PROJECT: NIMO/WALLACE SCRAP WELL NUMBER: MW-2

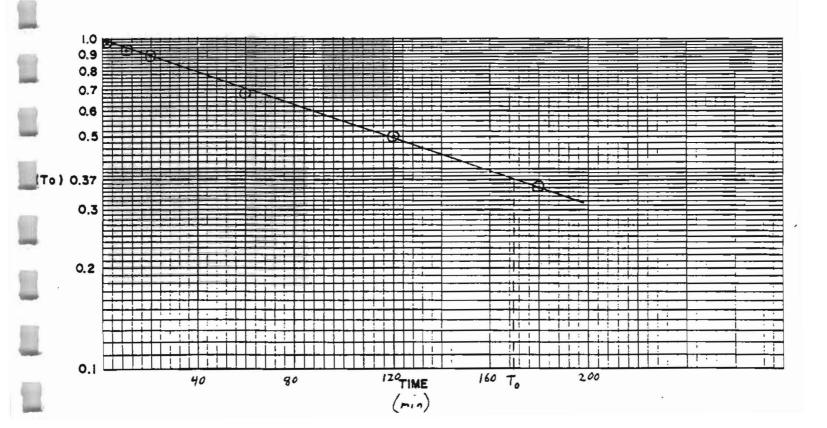
DATE: 11/10/89

EVACUATION METHOD: RECOVERY

PERSONNEL: PETER HAFF

DATUM FOR CALCULATIONS: TOP OF STEEL

		ł	TIME	1		1	H-h l	į.
STATIC HEAD (H) = 7.18	ft	ŀ	(min)	i	h	ŀ	H-Hc I	
		1 -		·		- }		l
PIPE RADIUS $(r) = 0.167$	ft	J	Q	1	7.80	I	1 i	l
		1	2	1	7.78	J	0.97	I
SCREEN RADIUS (R)= 0.125	ft	1	10	1	7.75	1	0.92	ĺ
		1	20	Ī	7.73	1	0.89	ĺ
SCREEN LENGTH (L)= 19	ft	ł	60	ì	7.60	1	0.68	1
		1	120	i	7.49	1	0.50	1
INITIAL HEAD (Ho)= 7.8	ft	3	180	}	7.40	ŀ	0.35	Í
		ŀ		1		ì	ı	i
To (from graph) = 170	mir	3)		1	i	i
10200		3	*	1		1	Ī	ı
		}		1		1		1
		1		1		1	1	ı
		1		1		1	1	ı
HYDRAULIC CONDUCTIVITY		1		I		ŀ	1	1
71727110212		1		1		ı	1	1
r^2 ln(L/R)		1		J		1)	١
	ft/sec	- 1		1		1		i
	cm/sec	1		I		1		ļ
		3		}		!		I



PROJECT: NIMO/WALLACE SCRAP WELL NUMBER: MW-3

DATE: 11/9/89

STATIC HEAD (H) = 7.68 ft

PIPE RADIUS (r) = 0.167 ft

SCREEN RADIUS (R) = 0.125 ft

8 ft SCREEN LENGTH (L)=

6.82 ft INITIAL HEAD (Ho)=

To (from graph) = 7.25 mirs

435 sec

HYDRAULIC CONDUCTIVITY

r^2 In(L/R)

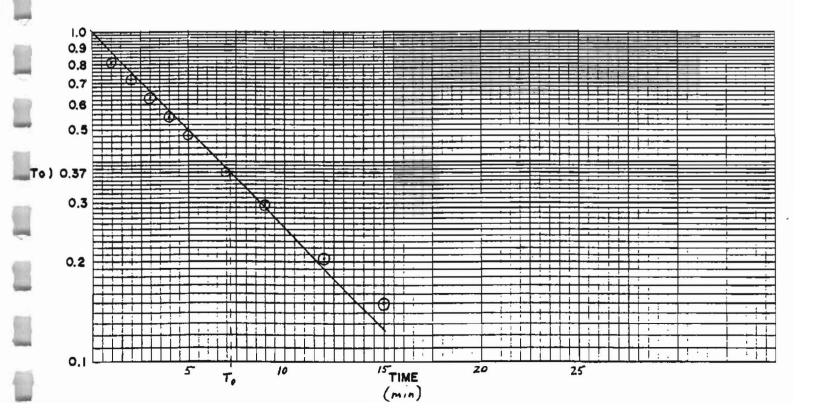
1.7E-5 ft/sec 2LTa

5.1E-4 cm/sec

EVACUATION METHOD: SLUG PERSONNEL: PETER HAFF

DATUM FOR CALCULATIONS: TOP OF STEEL

				27		
ŀ	TIME	ı		1	H-h	i
j	(mirs)	ì	þ	ı	H-Ha	ł
1		- 1 -		- } -		1
1	0	ŀ	6.82	1	1	1
1	1	1	6.98	1	0.81	1
1	2	ı	7.06	J	0.72	ļ
1	3	1	7.14	1	0.63	I
1	4	1	7.21	1	0.55	1
1	5	ļ	7.27	1	0.48	ł
1	7	1	7.36	ţ	0.37	ŀ
1	9	I	7.43	I	0.29	ŀ
1	12	1	7.50	}	0.21	ţ
Ţ	15	ļ	7.55	1	0.15	ł
j	20	ļ	7.61	1	0.08	1
ı		ļ		1		1
- 1		I		1		1
-1		Ì		ŀ		ì
1		j		1		1
}		}		1		1
1		}		ļ		1
ì		}		1		ł
1		ì		j		1



PROJECT: NIMO/WALLACE SCRAP

WELL NUMBER: MW-4

STATIC HEAD (H) =

DATE: 11/10/89

5 ft

0.167 ft PIPE RADIUS (r) =

0.125 ft SCREEN RADIUS (R)=

15 ft SCREEN LENGTH (L)=

4.01 ft INITIAL HEAD (Ho)=

400 min To (from graph) = 24000 Sec

HYDRAULIC CONDUCTIVITY

r^2 In(L/R)

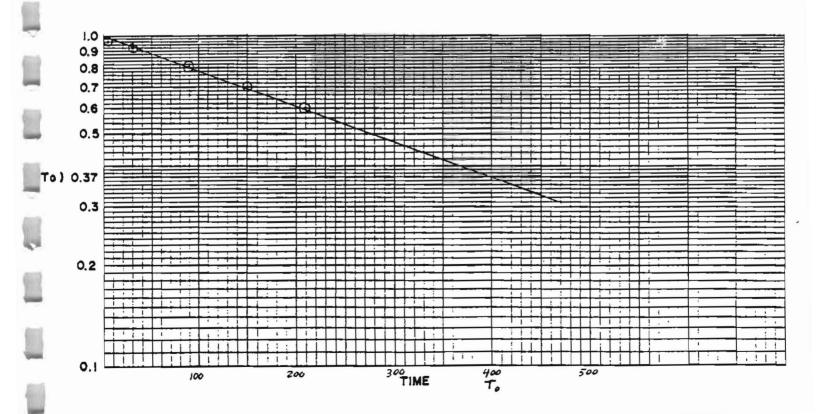
1.3E-7 ft/sec

5.7E-6 cm/sec 2LTo

EVACUATION METHOD: SLUG PERSONNEL: PETER HAFF

DATUM FOR CALCULATIONS: TOP OF STEEL

ı	TIME	}		1	H-h	ŀ
ı	(min)	}	h	1	H-Ho	1
1-		- 1		-1-		1
i	O	1	4.01	1	1	1
1	5	1	4.05	1	0.96	i
1	30	1	4.09	}	0.92	l
1	90	1	4.20	İ	0.81	i
1	150	}	4.31	}	0.70	1
1	210	1	4.41	1	0.60	1
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APPENDIX E
GROUND WATER SAMPLING LOGS

	le Location NIMS IN ALLAGE STRAFFATO Well No. MW-/ led By Pm H/CPO Date 10/12/89 Time 1/55 her 60°-5'UNNT Sampled with Bailer Pump WATER TABLE:
Α.	WATED TABLE.
	MATER INDLE:
	Well depth: Well elevation: (below top of casing) <u>15.9 + 2.05</u> ft. (top of casing) f
1:- 81	Depth to water table: 24.// ft. Water table elevation:f
10-737	Length of water column (LWC) 13.04 ft.
	Volume of water in well:
	2" diameter wells = 0.163 x (LWC) = $\frac{2.12}{}$ gallons 6" diameter wells = 0.653 X (LWC) = ${}$ gallons gallons
В.	PHYSICAL APPEARANCE AT START:
	Color LIGHT BEOFF Odor MOFF Turbidity Low
	Was an oil film or layer apparent?
С.	PREPARATION OF WELL FOR SAMPLING: Amount of water removed before sampling ~ 3.5 gallons. Did well go dry? $= \frac{\text{Y} \text{E} \text{S}}{\text{S}}$
D.	PHYSICAL APPEARANCE DURING SAMPLING: Color 46HT BROWN Odor NONE Turbidity 400
	Was an oil film or layer apparent?
Ε.	CONDUCTIVITY
F.	 рН
G.	TEMPERATURE
Н.	WELL SAMPLING NOTES:

m52 •ca₩	ther 55° - $5\nu\nu\nu$ Date $10/10/89$ Time 1640 Sampled with Bailer \times Pump
HEG	Sampled with barrer Zt rump
Α.	WATER TABLE:
	Well depth: Well elevation: (below top of casing) $34c + 1.7$ ft. (top of casing)
10/10/57	Depth to water table: 9.7/ ft. Water table elevation:
	Length of water column (LWC) ft.
	Volume of water in well:
	2" diameter wells = 0.163 x (LWC) = $\frac{4.2}{}$ gallons (12) 4" diameter wells = 0.653 X (LWC) = ${}$ gallons 6" diameter wells = 1.469 X (LWC) = ${}$ gallons
В.	PHYSICAL APPEARANCE AT START:
	Color 17. GRAY-BRUNDOOR MODERATE Turbidity MODERA
	Was an oil film or layer apparent? NO
C.	PREPARATION OF WELL FOR SAMPLING:
	Amount of water removed before sampling $\frac{\sim/3.5}{}$ gallons
	Did well go dry?
D.	PHYSICAL APPEARANCE DURING SAMPLING:
	Color LIGHT BROOM Odor MODERATE Turbidity MODERALL
	Was an oil film or layer apparent?
Ε.	CONDUCTIVITY
F.	pH
G.	TEMPERATURE
н.	WELL SAMPLING NOTES:
	COOK WAS A SULFUR SMELL

Samp	led By CPO/PMH Date 10/10/89 Time 1650 her 55°-SUNNY Sampled with Bailer X Pump
Samp	led By <u>CPO/Pm H</u> Date 10/10/89 Time 1650
Weat	her 55° - $50NNY$ Sampled with Bailer X Pump
Α.	WATER TABLE:
	Well depth: Well elevation: (below top of casing) $25.5 + 1.8$ ft. (top of casing) ft
10/10/89	Depth to water table: Water table elevation: ft (below top of casing) 9.74 ft.
	Length of water column (LWC)ft.
	Volume of water in well:
	2" diameter wells = 0.163 x (LWC) = $\frac{2.86}{4}$ gallons (8% 1 diameter wells = 0.653 X (LWC) = $\frac{2.86}{4}$ gallons gallons
В.	PHYSICAL APPEARANCE AT START: Color Brown-BRAY Odor MODER ATE Turbidity MODERA?
	Was an oil film or layer apparent?
c.	PREPARATION OF WELL FOR SAMPLING: Amount of water removed before sampling $\frac{\sim 9}{}$ gallons. Did well go dry? $\frac{NO}{}$
D.	PHYSICAL APPEARANCE DURING SAMPLING: Color <u>LT. BP OWN</u> Odor <u>MODER ATE</u> Turbidity <u>MODERATE</u> Was an oil film or layer apparent? <u>A J</u>
٤.	CONDUCTIVITY _
F.	
•	
•	TEMPERATURE
	WELL SAMPLING NOTES:
	COUR WAS A SULFUR SMELL

	ple Location NIMO/WALLACE SCRAP Well No. M/11-4 pled By Pm 4 CPD Date 10/10/89 Time 1710
Wea	ther 55°-5'UNNY Sampled with Bailer X Pump
Α.	WATER TABLE:
	Well depth: Well elevation: (below top of casing) $34.0 + 18$ ft. (top of casing) ft
1.0/49	Depth to water table: Water table elevation: ft (below top of casing) 5.93 ft.
	Length of water column (LWC)ft.
	Volume of water in well:
	2" diameter wells = 0.163 x (LWC) = $\frac{487}{4}$ gallons (14 ½ gr 4" diameter wells = 0.653 X (LWC) = $\frac{187}{2}$ gallons 6" diameter wells = 1.469 X (LWC) = $\frac{187}{2}$ gallons
В.	PHYSICAL APPEARANCE AT START:
	Color GREENISH - BROWN Odor NONE Turbidity Low To more
	Was an oil film or layer apparent?
c.	PREPARATION OF WELL FOR SAMPLING:
	Amount of water removed before sampling $\frac{\sim 16}{100}$ gallons.
	Did well go dry? YES
D.	Did well go dry? YES PHYSICAL APPEARANCE DURING SAMPLING:
D.	PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NONE Turbidity LOW TO MODE
	PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NOWE TURBOOK Was an oil film or layer apparent? NO
D. E.	Did well go dry? YES PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NOWE TURbidity LOW TO MODE
	PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NOWE TURBOOK Was an oil film or layer apparent? NO
ε.	PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NONE Turbidity LOW TO MODE Was an oil film or layer apparent? NO CONDUCTIVITY pH
E. F.	PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NONE Turbidity Low to node Was an oil film or layer apparent? NO CONDUCTIVITY PH TEMPERATURE
E. F.	PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NONE Turbidity LOW TO MODE Was an oil film or layer apparent? NO CONDUCTIVITY pH
E. F.	PHYSICAL APPEARANCE DURING SAMPLING: Color LIGHT BROWN Odor NOWE Turbidity Low to nobe Was an oil film or layer apparent? NO CONDUCTIVITY PH TEMPERATURE
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