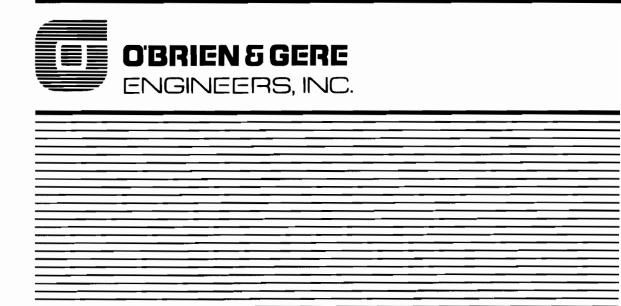
Soil Remediation Program Maestri Site Geddes, New York

Stauffer Management Company Wilmington, Delaware

September 1995



Basis of Design Report

Soil Remediation Program Maestri Site Geddes, New York

Stauffer Management Company Wilmington, Delaware

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September 1995



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1. Introduction

1.1. General

This report presents the Basis of Design of the soil remediation program for the Maestri site located at 904 State Fair Boulevard in the Town of Geddes, New York. The site location is presented in Figure 1. The soil remediation program is being developed to address soils exhibiting volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) at the Maestri site pursuant to the Remedial Design/Remedial Action Work Plan dated July 1995 that was approved by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated August 16, 1995.

This section of the Basis of Design Report presents background information pertaining to the site and the chronology of events and also presents a summary of the previous soil investigations and remedial activities, and the currently operating ground water recovery and treatment interim remedial measure (IRM).

1.2. Project background

1.2.1. Site description

The Maestri site, depicted in Figure 2, is approximately 6.9 acres in area and is covered by grass, brush and wooded areas. Onondaga Lake, located approximately 1,500 ft northeast of the site, is the nearest surface water body to the site. Topography of the site is characterized by gently sloping grades which fall to the northeast at slopes up to 5 percent. The site is bordered by State Fair Boulevard to the southwest and residences along Alhan Parkway to the northeast. The lots located northwest and southeast of the site are heavily wooded.

Presently, a 2.8 acre portion of the site near Alhan Parkway is cleared and secured with an 8-ft high chain-linked security fence and two locked gates. A gravel road extends from State Fair Boulevard to the secured portion of the site. A ground water treatment building, concrete pads, monitoring wells, recovery wells, piezometers, and former drum disposal areas are also present at the site and are shown in Figure 3.

1.2.2. Chronology of events

This section presents the general chronology of major activities and site related events, as follows:

- 1970's Drums containing industrial waste materials, allegedly generated by Stauffer Chemical Company, were buried at the site.
- 1987 Bert Maestri reportedly excavated soil and drums from an area of the site as depicted on Figure 3. Following characterization by the New York State Department of Health (NYSDOH), the excavated materials were disposed at the CECOS/CER landfill in Ohio.
- 1987 Malcolm Pirnie, Inc. conducted a site investigation on behalf of the Onondaga County Health Department (OCHD) to evaluate the environmental effects of the former waste disposal area in the northeastern portion of the site.
- 1987 NYSDEC placed the site on the NYS Registry of Inactive Hazardous Waste Sites (Registry Site #7-34-025).
- 1988 The Stauffer Management Company (SMC) in cooperation with the NYSDEC, voluntarily agreed to conduct a site investigation to evaluate the necessity for IRMs.
- October 4, 1988 NYSDEC and SMC executed an Order on Consent (#A7-0139-88-01) for development and implementation of an IRM.

- June 1989 Site investigations began, which included: soil vapor survey; geophysical survey; monitoring well installation; soil boring completion; air sampling; and sampling of surface soil, subsurface soil, and ground water. A geophysical anomaly discovered during the investigation was identified as buried drums.
- January 1990 SMC submitted an Interim Remedial Measure (IRM) - Anomaly Excavation and Removal Work Plan, developed by O'Brien & Gere Engineers, to NYSDEC for review and approval.
- March 1990 SMC submitted the Site Investigation and Development of Interim Remedial Measures (SIDIRM) Initial Report to NYSDEC, which documented the results of the site investigation.
- June 8, 1990 SMC agreed to complete additional investigations necessary to fulfill the objectives of the IRM program.
- October 1990 NYSDEC approved a modified Work Plan, submitted by OHM Corporation (OHM) on behalf of SMC, for anomaly (buried drums) excavation.
- December 1990 OHM completed the anomaly excavation.
- February 1991 An indoor air monitoring program was implemented, by O'Brien & Gere Engineers, Inc. on behalf of SMC, at selected residences located on Alhan Parkway which are hydraulically downgradient of the site.
- June 18,1991 SMC submitted the *Final Report for Excavation of Drums and Soil*, developed by OHM Corporation, to NYSDEC.
- January 1992 SMC submitted the Basis of Design Report, developed by O'Brien & Gere Engineers, to NYSDEC for the ground water recovery and treatment system IRM.
- March 1992 SMC submitted the *Yield Test Evaluation Report*, developed by O'Brien & Gere Engineers, to NYSDEC
- March 1992 SMC submitted the Yield Test Evaluation Report, summarizing the aquifer performance tests of the recovery wells.

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- April 1992 SMC submitted a Focused Remedial Investigation/ Feasibility Study Work Plan, prepared by O'Brien & Gere Engineers, to NYSDEC.
- May 1992 SMC initiated operation of the ground water recovery and treatment system.
- September 1992 Results of field investigations were presented in the SIDIRM *Final Report*, developed by O'Brien & Gere Engineers, which was submitted to the NYSDEC by SMC.
- December 16, 1992 NYSDEC and SMC executed an Order on Consent (#A7-0226-90-03) for performance of an RI/FS at the site.
- December 1992 NYSDEC approved the Focused RI/FS Work Plan.
- June 1993 SMC submitted the Ground Water Recovery Wells Effectiveness Report, developed by O'Brien & Gere Engineers, to NYSDEC.
- December 1993 Drums which were identified during the focused RI, containing industrial waste, were excavated by OBG Technical Services on behalf of SMC according to the IRM work plan.
- February 1994 SMC submitted the Focused Remedial Investigation Report, developed by O'Brien & Gere Engineers, to NYSDEC.
- July 1994 NYSDEC approved the Focused Remedial Investigation Report.
- August 1994 SMC submitted the Ground Water Recovery System Performance Test Report, developed by O'Brien & Gere Engineers, to NYSDEC.
- September 1994 SMC submitted the *Feasibility Study* Report, developed by O'Brien & Gere Engineers, to NYSDEC.

- December 1994 NYSDEC finalized the Proposed Remedial Action Plan (PRAP). The public comment period was open from December 29,1994 through February 11,1995 to receive comments.
- January 19, 1995 NYSDEC hosted a public meeting to present the results of the FS and PRAP for public comment.
- March 1995 NYSDEC finalized the transcript of the January 19, 1995 public meeting and the Responsiveness Summary to the Public Meeting.
- March 1995 NYSDEC issued the Record of Decision (ROD).
- April 24, 1995 SMC agreed to undertake the remedial actions identified in the ROD in accordance with the Order on Consent (#A7-0226-90-03).
- May 4, 1995 SMC met with NYSDEC regarding the proposed content of the RD/RA Work Plan, implementation of the selected remedy, and schedule for remedial design and construction activities. At this meeting it was agreed that a RD/RA Work Plan would be presented to the NYSDEC during the first week of June.
- July 14, 1995 SMC submitted the RD/RA Work Plan which was subsequently approved by the NYSDEC for implementation.
- July 25, 1995 O'Brien & Gere Engineers submitted the Predesign Investigation (PDI) Work Plan to the NYSDEC for review. The Work Plan was subsequently approved by the NYSDEC for implementation.
- August 2 7, 1995 SMC installed fourteen additional soil borings on site as described in the NYSDEC approved PDI Work Plan.

1.2.3. Previous soil investigations

In June 1989 during the Remedial Investigation (RI), eleven soil borings, designated B-1 through B-11, were advanced to the static ground water table at the locations shown on Figure 4. Ten of these

borings were completed in and around the main waste disposal area, while one boring (B-1) was completed approximately 360 ft southwest of the former disposal area as an indicator of site background conditions.

Soil samples collected from these borings were initially screened for the presence of VOCs in ambient air conditions with a photoionization detector (PID) (HNu Model P101-1). Samples were then placed in appropriate containers for subsequent headspace field screening for VOCs and laboratory analyses for VOCs and SVOCs in accordance with the approved QAPP. A total of 14 soil samples were submitted for laboratory analyses.

In addition, six samples were submitted for analyses for metals, PCBs, and pesticides. The results of the analyses are summarized in Tables 1,2,3 and 4 and are discussed in detail in the SIDIRM Final Report (O'Brien and Gere, September 1992).

During the RI, the predominant compound detected was xylene, with samples from soil borings B-3, B-7, B-9, and B-10 exhibiting xylene concentrations above 100 mg/kg. Soil in the vicinity of soil boring B-3 was subsequently removed during the drum removal activities conducted in December 1990 as part of an IRM. As such, the laboratory results presented for soil boring B-3 do not represent existing conditions.

A summary of boring depths, fill thickness, depths to ground water, and associated sample screening data are presented in Table 5. Soil boring logs are presented in Appendix A.

Soil sample analytical results generated during the RI indicate the presence of residual concentrations of site-related contaminants in subsurface soils near the former drum disposal areas. Concentrations of VOCs predominantly xylene, were detected in the subsurface soils down to the ground water table (approximately 11 ft below grade). Soil sample analytical results also indicate the presence of SVOCs on site but did not indicate the presence of metals at concentrations above levels of concern.

The organic compounds listed below were detected in subsurface soils, at the indicated concentration ranges and frequencies (aside from acetone, 2-butanone, methylene chloride, and phthalate esters, which were attributed to blank contamination):

Table 1-1. Listing of organic constituents detected in subsurface soils.

Constituent	Concentration range (mg/kg)	Frequency of detection (# detections/ # samples)
xylene	0.002 - 9,700	20/21
toluene	0.002 - 47	8/21
ethylbenzene	0.002 - 20	9/21
tetrachloroethene (PCE)	0.097 - 250	3/21
2-methylphenol	0.076 - 4.8	7/22
2,4-dimethylphenol	1.9 - 48	5/22
benzoic acid	21-99	2/15

Note:

The data summarized in this table was taken from the results generated as part of past RI activities. For additional information, refer to the Site Investigation report dated March 1990 and focused Remedial Investigation Report dated February 1994.

Naphthalene was detected in one surface soil sample and was considered an anomaly. Phenanthrene, fluoranthene, and pyrene were also detected in surface soils at the site, but were attributed in the Focused Remedial Investigation (RI) Report to anthropogenic background.

During the implementation of the 1992 Work Plan, four additional soil borings (SB-1 through SB-4) were advanced on-site at locations shown in Figure 4. Five soil samples were submitted for laboratory analyses for VOCs and SVOCs. As with the previously collected soil samples, the predominant compound detected was xylene. Soil boring SB-4 (8 to 10 feet) contained xylene at concentrations between 630 mg/kg and 710 mg/kg. This boring is located beside the 1987 Excavation Area and is within the center of the high concentration area identified by the passive soil gas survey. Boring SB-2 (4 to 6 feet) contained the second highest concentration of xylene at 39 mg/kg. The remainder of the soil borings exhibited xylene concentrations of less than 2 mg/kg.

1.2.4. Previous soil remediation

As presented in Section 1.2.2, buried metal drums and contaminated soil were reportedly excavated in 1987 by Bert Maestri. In 1990 and 1993, additional buried metal drums and contaminated soils were excavated as IRMs from the locations depicted on Figure 3. Following these excavation, clean-tested low-permeability material was used as backfill. Soil gas and geophysical survey data generated since then do not indicate the presence of additional buried drums on the site.

1.2.5. Ground water recovery and treatment IRM

Results of the ground water quality screening and ground water monitoring well sampling and analyses indicate the presence of site-related contaminants in the shallow overburden ground water. No site-related contaminants were detected in the bedrock ground water. The organic compounds listed below were detected in shallow ground water during the RI, at the following concentration ranges and frequencies (excluding 2-butanone and carbon disulfide which were attributed to blank contamination):

Table 1-2. Listing of organic constituents detected in ground water.

Constituent	Concentration range (mg/L)	Frequency of detection (# detections/ # samples)
xylene	0.002 - 34	15/66
benzene	0.004	1/66
toluene	0.001 - 4.2	10/66
ethylbenzene	0.003 - 1.7	13/66
t-1,2-dichloroethene	0.005	1/66
2-methylphenol	0.011 - 0.16	5/25
4-methylphenol	0.003 - 0.004	5/52
2,4-dimethylphenol	0.013 - 0.053	4/25

Note: The data summarized in this table was taken from the results generated as part of past RI activities. For additional information, refer to the Site Investigation Report dated March 1990 and focused Remedial Investigation Report dated February 1994.

To control the migration of contaminants in the ground water within the shallow overburden aquifer, an IRM was implemented. This consisted of operation of a ground water recovery and treatment system which was installed in 1991 and 1992 and began operation in May 1992. The system is composed of six ground water recovery wells screened to capture the saturated thickness of the shallow overburden aguifer and placed to capture the extent of the plume, five piezometers, and a ground water treatment facility. recovered ground water is treated by filtration and activated carbon adsorption and is subsequently discharged to a local storm sewer in accordance with NYSDEC-established discharge limits. Monitoring requirements and maximum effluent concentrations for the ground water treatment system were established by the NYSDEC. The effluent flow volume is monitored daily and sampled weekly for selected organic compounds and monthly for inorganic constituents. Monitoring results are reported to NYSDEC monthly.

Analyses of off-site monitoring wells during the RI indicate that the ground water recovery system is effectively controlling further off-site migration of ground water contaminants. To enhance the operation of the system, however, new pump controls have been installed within the six recovery wells. These devices have improved the operation of the recovery wells and subsequently increased the effectiveness of the ground water capture in the vicinity of the wells.

1.3. Remedial action objectives

The RAOs for the remedial program have been established by the NYSDEC and are presented in the ROD dated March 1995. The general goals selected for this site are:

 Reduce, control or eliminate the contamination present within the soils on site.

- Eliminate the potential for direct human or animal contact with the contaminated soils on site.
- Prevent, to the extent possible, migration of contaminants in onsite soils to ground water.
- Provide for attainment of Standards, Criteria and Guidelines for ground water quality at the limits of the existing site boundary.
- Minimize to the maximum extent practicable long-term restrictions to future site usage.

Specific goals for the site are presented in Table 1-3 and are based on the New York State Ambient Water Quality Standards and Guidance Values (9/25/90), and the soil clean-up objectives presented in the Technical and Administrative Guidance Memorandum (TAGM) HWR-92-4046 dated November 16, 1992.

Table 1-3. Remedial action clean-up objectives.

D	Soil clean-up level (mg/kg,	Ground water clean-up level
Parameter 4/00a	dry weight)	(ug/l)
Volatile organic compounds (VOCs)	•	
xylene	1.2	5
toluene	1.5	5
ethylbenzene	5.5	5
benzene	0.06	0.7
tetrachloroethene	1.4	5
t-1,2-dichloroethene	0.3	5
total VOCs	10	100
Semi-volatile organic compounds (SVOCs)		
2-methylphenol	0.1	5
2,4-dimethylphenol	-	-
benzoic acid	2.7	50

Table 1-3. Remedial action clean-up objectives (Continued).

Parameter	Soil clean-up level (mg/kg, dry weight)	Ground water clean-up level (ug/l)		
4-methylphenol	0.9	50		
Total SVOCs	500			
Notes: "-" indicates that	objectives are not established			



2. Pre-design supplemental soil investigation results

2.1. General

To delineate the extent of soil exhibiting VOCs and SVOCs around the former drum disposal areas, additional soil borings were completed at the site between August 2 and 7, 1995. The soil borings were completed in accordance with the Pre-Design Investigations (PDI) work plan (O'Brien & Gere, 1995) that was approved by the New York State Department of Environmental Conservation (NYSDEC). To estimate the volume of soil to be excavated, soil data generated during the PDI and the Remedial Investigation (O'Brien & Gere, 1994 (was used to evaluate the horizontal and vertical extent of VOCs and SVOCs as presented herein. In addition, the soil data generated during the PDI provided additional analyses to characterize the soils and evaluate treatability and design requirements.

This section presents information regarding the performance of PDIs at the Maestri site including the locations and depths of the soil borings, and the analytical results of soil sampling.

2.2. Soil boring locations and depth

As part of the PDIs, fourteen soil borings, designated as B-12 through B-25, were advanced at the site at locations shown on Figure 4. Headspace readings were measured for each soil sample using a photoionization detector (PID). The borings were advanced until either till was encountered or the head-space PID screening results indicated a reduction of VOC concentrations to near background conditions. Soil boring log sheets are provided in Appendix B.

Initially, nine soil borings (B-12 through B-20) were completed at the locations shown in Figure 4. Based on the VOC field screening results, five additional soil borings (B-21 through B-25) were located as shown on Figure 4 to further delineate the approximate extent of soil containing VOCs and SVOCs.

2.3. Soil characterization

This section presents information pertaining to the soil characteristics exhibited at the Maestri site. Results of the RI and PDI are presented which characterize soil type, contaminant levels, and nutrient concentrations.

2.3.1. Soil type

Consistent with the soil classification results obtained from the RI, results of the PDI show that the subsurface geology at the site, as defined by soil borings, consists of unconsolidated fill, glaciolacustrine deposits, and glacial till. Shale bedrock occurs at depths from 6 ft in the southwestern end of the site to 28 ft in the northeastern portion of the site.

A reddish brown, dense glacial till overlies the shale bedrock. The till consists of a heterogeneous unsorted mixture of clay, silt, sand and gravel. Unconsolidated sediments occurring above the glacial till consist of brown to tan glaciolacustrine sand, gravel, and cobbles. These deposits contain thin interbedded lenses of silty clay.

Fill materials comprised primarily of unstratified sand, silt, clay, and gravel were encountered in several of the soil borings completed in and around the former waste disposal area. The thickness of the fill as defined by split spoon samples collected from the borings ranged from less than 4 feet in boring B-9 to greater than 8 feet in boring B-4. Samples which appeared to be fill were also encountered in the borings completed as monitoring wells MW-7, MW-8, and MW-9 shown on Figure 3. Fill was not encountered at the upgradient background boring B-1 or at B-7, which is located along the south boundary of the disposal area.

Boring depths and encountered fill thicknesses are summarized on Table 5. Depths to first encountered ground water and PID headspace analyses results are included on Table 1. Soil boring logs are presented in Appendix A.

2.3.2. Contamination concentrations

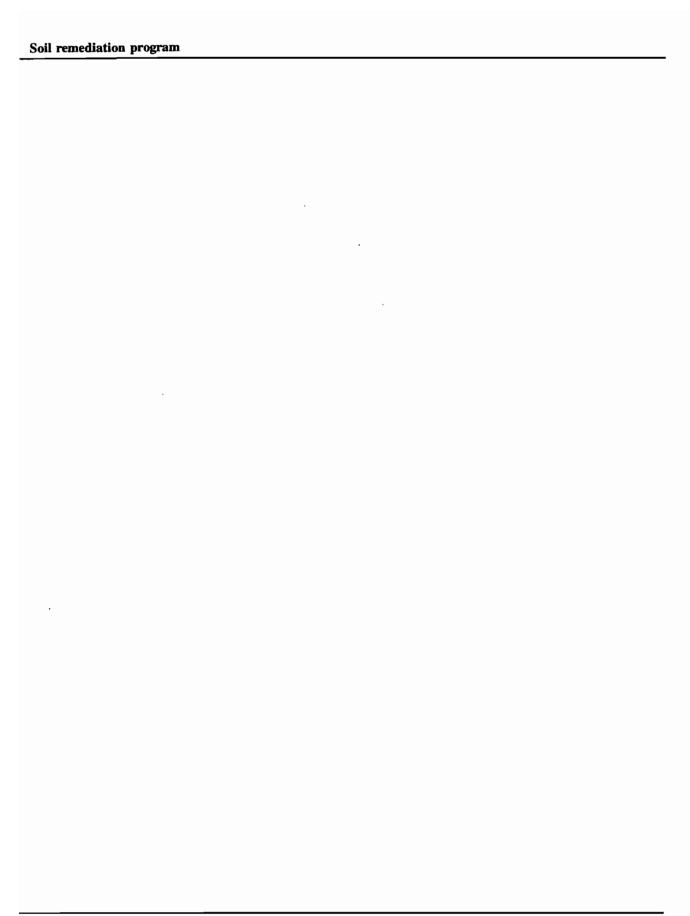
Based on the headspace screening results, up to two samples were selected from each of the borings advanced during the PDIs for laboratory analyses. A total of 21 samples collected during the PDIs were analyzed for VOCs using EPA method 8020, and SVOCs using EPA method 8270.

One sample selected from each boring was from the depth interval of the boring that exhibited the highest level of VOCs based on the headspace tests. However, for the borings that did not exhibit VOCs as indicated by the field screening, a sample was obtained at approximately 2/3 the depth of the boring and submitted for laboratory analyses.

From the borings that contained VOCs, based on the field screening results, a second sample from each boring was also selected for laboratory analyses. The second sample was obtained from the deepest interval suspected to contain VOCs based on field screening results unless levels of VOCs extended to the till. When the field screening indicated that VOCs extended to the till, the second sample selected for laboratory analyses was from the depth at which the presence of VOCs was first detected. The purpose of these samples was to establish the approximate vertical limits of the soils requiring remediation.

The results of the laboratory analyses are summarized in Tables 6 and 7 and the laboratory reports are provided as Appendices C and D. Twenty soil samples were also analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and four soil samples were analyzed for SVOCs using immunoassay test kits. The test kit result presented in Tables 6 and 7. The immunoassay results, however, do not correlate well enough to the laboratory analytical results to recommend the use of these kits during remedial actions.

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3. Soil remediation program

3.1. General

This section presents a description of the conceptual design to remediate soils exhibiting VOCs and SVOCs above the RAOs at the site. A process schematic of the proposed Soils Remediation Program and the mechanical/screening process are presented as Figures 5 and 6, respectively. For convenience, this section discusses the major design components, as listed below:

- limits of proposed excavation
- estimated volumes and contaminant levels
- proposed remedial actions consisting of the following elements:
 - O initial sampling and segregation of excavated soils
 - mechanical/screening phase
 - O biological/soil vapor extraction phase
 - O air emissions controls
 - O construction water handling
- verification sampling and analyses
- · excavation back fill/site restoration

3.2. Limits of proposed excavation

Based on the data generated during the RI and the PDI, the horizontal and vertical extent of VOCs/SVOCs has been estimated. The preliminary horizontal limits of the excavation are shown on

Figure 7. The vertical limits of the excavation is shown in cross-sections provided as Figures 8, 9 and 10. The vertical limits shown on those figures were established based on the analytical results showing concentrations less than the RAO or upon reaching the layer of glacial till. Similarly, the horizontal limits were also established using the soil borings analytical results. The limits of excavation were estimated to include locations showing concentrations of VOCs/SVOCs which exceeded the clean-up levels and could be excavated, to the extent practicable.

It should be noted that the static water level is 8 to 10 feet below the ground surface and that dewatering of the excavation will be required during soil removal activities.

3.3. Estimated volumes and contaminant levels

Based on the results of the PDI and previous investigations it is estimated that 6,000 to 8,000 cubic yards (cy) of soil measured in place may contain VOCs and/or SVOCs above the RAOs and need to be excavated for treatment. This volume is based on the horizontal and vertical limits presented in Figures 7 through 10.

Based on the results of the sampling and analyses conducted as part of the PDI and previous investigations, VOCs and SVOCs are present within the proposed limits of the excavation at the site at levels presented in the following table.

Table 3-1. Estimated contaminant levels.

Constituent	Average concentration ⁽¹⁾ mg/kg (ppm)	Maximum concentration mg/kg (ppm) ⁽²⁾	Number of samples above RAOs ⁽²⁾
benzoic acid	5.3	99	2
2,4-dimethylphenol	0.3	3.9	2
ethylbenzene	3.4	25	5
2-methylphenol	0.5	4.8	5
tetrachloroethylene (PCE)	16.8	250	2
toluene	22.5	130	14
xylene	2,727.2	8,500	22

⁽¹⁾ Based on an arithmetic average of laboratory data for 24 samples obtained within the proposed excavation limits

3.4. Proposed remedial actions

The soils remediation program will consist of the components described below and presented in Figure 11.

3.4.1 Initial sampling and segregation of excavated soils

As the soil is excavated, samples will be collected for headspace field screening for VOCs using a PID. Field screening tests will be conducted at a minimum frequency of one sample per 200 c.y. excavated. The purpose of these field screening tests will be to characterize and segregate excavated materials into one of the following categories:

 Excavated soil that does not appear to contain VOCs above the RAOs (PID reading less than 50 ppm - refer to note 1 below)

⁽²⁾ Maximum concentration based on sampling discussed in Sections 1 and 2.

⁽³⁾ Refer to Section 1 and Table 1.3 for additional data regarding specific sample locations and results.

2. Excavated soil that does appear to contain VOCs above the RAOs (PID reading equal to or greater than 50 ppm).

Note 1 - The threshold value of 50 ppm presented above is based on the results of the PDI which support a conclusion that soils exhibiting a head space reading of less than 50 ppm likely do not contain VOCs at levels in excess of the RAOs.

Once segregated, the soils that do not appear to contain VOCs above the RAOs will be sampled, as described in Section 3.5, to verify that VOC and SVOC levels are below the RAOs. If the laboratory analytical results verify that VOC and SVOC levels are below the RAOs, the soil will be stockpiled on site for use as clean backfill.

For the soils that do appear to contain VOCs above the RAOs based on the field screening results, a soil sample will be collected and submitted for SVOCs analysis using EPA method 8270. If the results of the analysis indicate the presence of SVOCs above the RAOs, the soil will next be mechanically screened to enhance removal of VOCs and prepare the soil for possible bioremediation for the SVOCs. Additives such as lime or ash, however, will not be added to enhance drying since these materials may inhibit effective bioremediation of this soil, if necessary. If the results of the SVOC analyses, however, indicate that the SVOC concentrations are below levels that necessitate bioremediation lime may be used to dry the soil and further enhance VOC removal. This process is further described in Section 3.4.2.

Since it is expected that the screening process described above may also reduce the concentration of SVOCs exhibited in the soil to levels below the RAOs, soils that initially exhibited SVOCs will be resampled for SVOCs analysis after screening to assess if bioremediation will actually be necessary. Although it is expected that little, if any, soils exhibit SVOCs at levels that will require bioremediation, based on the PDIs and prior data, the bioremediation process is described in Section 3.4.3.

3.4.2. Screening/mechanical processing phase

Based on the capabilities of the equipment to be used and information regarding the soils, it is anticipated that soils will be

mechanically screened at a rate of approximately 400-500 cy per day. The soils will be handled and processed using the following steps:

- 1. Soils will be excavated and stockpiled in batches of approximately 200 cy. If necessary, hydrated lime will be added to the soil to reduce the moisture content unless the soil requires bioremediation to reduce SVOCs concentrations. The soil will be placed on top of polyethylene sheeting to minimize contact of the excavated and untreated soils with the ground surface. Provisions also will be made to collect and contain free liquids draining from the excavated soils while the material is stockpiled. The untreated soil stockpiles will also be covered with polyethylene sheeting, when not being handled, to minimize exposure to precipitation. Additional measures that will be implemented to minimize contact to the soils during construction will be described within the Storm Water and Erosion Control Plan that will be developed;
- 2. The stockpiled soils will be screened to remove large, non-processible materials and debris. The large, non-processible material (such as large stones, bricks, timber, concrete, etc.) will be collected and stockpiled separately on-site pending decontamination and used as on-site fill, or disposed of off-site at an appropriate disposal facility. Items that would be decontaminated (by brushing/spray washing to remove adhered soil) include large stones, concrete, brick, and stumps/logs;
- 3. The screened soils will be loaded into and processed through a hammermill shredder and pugmill, if necessary, where the soils will be pulverized to reduce soil particle size. In order to capture VOCs released during this process, the mechanical processing/screening equipment will be housed in an air-inflated or sprung structure.

A continuous supply of clean air will be supplied to the inside of the structure and exhausted air will be filtered through vapor phase granular activated carbon (GAC) to maintain a safe breathing environment within the structure and control VOC discharges to the atmosphere.

4. Once processed, the soil will be sampled to evaluate VOC and SVOC concentrations compared to the RAOs that have been established, as described in Section 3.5. In the event that the RAOs have not been achieved, either the soil will be reprocessed or bioremediated, depending on the concentration of SVOCs exhibited in the soil.

3.4.3. Biological treatment Process

Following mechanical screening, soils exhibiting SVOCs at levels above the RAOs will be treated biologically. The biological treatment system will consist of the following components:

- soil treatment piles
- nutrient and moisture feed and collection systems
- · air feed and gas ventilation systems
- · water treatment system
- · air treatment system

Details of these components are described below.

Soil treatment piles. Figure 12 presents a cross-section of a typical soil treatment pile consisting of top and bottom liners, and water/nutrient/air feed and collection pipes. A typical soil treatment pile will have a maximum length of 280 ft, width of 20 ft and depth of 8 ft. A 40 mil. low density polyethylene sheet will be used to line the bottom and top of the pile. Air, water, and nutrient addition/collection pipes will be made of polyvinyl chloride (PVC).

Nutrient/moisture feed/collection system. The nutrient and moisture requirements of the biological process are summarized below:

- Nutrient requirements:
 - 1.7 g nitrogen/Kg soil
 - O 0.3 g phosphorous/Kg soil

Note: The values presented above are based on theoretical requirements and will be confirmed as part of the design process once the results of the nutrient analyses are available.

Nutrient blend:

Nitrogen and phosphorous will be added as ammonium polyphosphate and urea ammonium nitrate as a 25:5:0 (N:P:K) liquid fertilizer. This fertilizer is a custom blend of 10:34:0 ammonium polyphosphate (14 gallons) and 28:0:0 ammonium nitrate (86 gallons).

Nutrient addition:

Based on the VOC and SVOC data approximately 500 gal of fertilizer are required per 1000 cu yd of soil (about 1.5 ml fertilizer/Kg soil). Actual quantities will be refined following receipt of nutrient/biological analyses being performed and based on actual field conditions.

Moisture addition:

Moisture content of 20% to 30% is required. Approximately 10 ml water/kg soil is required to increase soil moisture by 1% (3,250 gal/1000 cu yd). Liquid fertilizer can be used to satisfy a portion of the water demand.

As shown on Figures 13 and 14, nutrients and moisture will be supplied through a ½" drip tube installed above the soils. The water and nutrients will be conveyed from a nutrient storage tank located on the site and pumped through a 1" pipe and 1/2" drip tubing to the soil pile. These additions will provide necessary components to enhance biological treatment.

A system for collecting excess water fed to the soil will be provided and consists of 4" perforated pipe sloped to a collection sump. Upon collection, the liquid may be amended with nutrients, as necessary, and recirculated through the soil pile.

Air feed system. An air feed system is shown on Figure 14. Air will be supplied passively to the pile through 2" pipe by applying a vacuum at the bottom of the pile. The rate of air extraction will be at least 15 cfm per 1000 cy soil to result in at least three fresh volumes of air per day (based on an air void space of 30%). The air feed system is necessary to provide oxygen to enable respiration of the microorganisms and enhance conditions to be conducive to biological treatment.

Water treatment system. Water collected from the soil pile(s) and not recirculated will be conveyed to the existing on-site water treatment system. Treated water will be sampled and analyzed to evaluate levels of VOCs and SVOCs present and discharged in accordance with the existing State Pollutant Discharge Elimination System (SPDES) permit issued by the NYSDEC.

Air treatment system. Air extracted from the soil pile will be processed by an air treatment system. The air treatment system will consist of coarse particulate filters and vapor phase granular activated carbon (GAC) filters. Figure 15 presents a schematic of the air treatment system.

3.4.4. Air emission control

Air emitted from the biological treatment system will be collected and treated as described above in order to meet Air Permit requirements. Air emissions from this system are expected to be at a rate of at least 15 cfm per 1000 cy of soil placed in a pile for bioremediation. Emissions monitoring will take place as required by the NYSDEC.

3.4.5. Construction water handling

Excavation for the soil remediation will require dewatering. Provisions will be included to dewater the excavation by allowing the water to drain to a temporary sump in the excavation, pump the water to a temporary storage tank, filter to remove suspended solids, and treatment through three, 250-lb. granular activated carbon canisters (connected in series) prior to discharge into the existing, on-site water treatment system. The removal, collection, and treatment system will be designed for a maximum flow of 10 gpm although it is expected that the excavation will only require dewatering at a rate between 2 and 4 gpm.

The Contractor will be required to submit a Storm Water Management and Erosion Control Plan to minimize run-on into the excavation and run-off from the site.

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3.5. Verification sampling

Verification sampling will be performed to assess when soils have been treated sufficiently to be used as backfill at the excavation site, and to verify that soils exhibiting VOCs above the RAOs have been excavated to the extent practicable. This section provides sampling plans for both of these verification processes.

3.5.1. Sampling of processed soils

Following soil treatment, the soil piles will be sampled and analyzed for VOCs and SVOCs using EPA Methods 8010/8020 and 8270, respectively. A sample will be collected for every 200 cy to assess the concentration of VOCs/SVOCs within the soil pile. If the concentrations exceed the clean-up objectives for this site, further treatment will be performed. However, upon such time as the soils exhibit VOC and SVOC concentrations below the clean-up levels, the soils may be returned to the excavation as backfill.

3.5.2. Sampling of excavation residues

A 30 ft grid pattern will be established to be used in connection with excavation verification sampling. After excavation to the predetermined horizontal and vertical depth has occurred, a photoionization detector will be used to assess the need for additional excavation. In addition to PID measurements, a soil sample will be collected at each node of the grid which represents a soil sampling point. The samples will be analyzed for VOCs using EPA Method 8010/8020, and SVOCs using EPA Method 8270. The purpose of this soil sampling and analyses is to document that the soils exhibiting VOCs and/or SVOCs above the RAOs have been removed to the extent practicable.

3.6. Excavation backfill/restoration

Suitable excavated material and processed soils will be used as backfill once confirmation sampling indicates that the RAOs are met. Soils will be placed back in the excavation and suitably compacted.

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If additional backfill is required, clean fill (sand) will be used to backfill the excavation to grade.

Also, following completion of excavation and the mechanical/screening process, the top 4 inches of soil will be scraped from the pre/post-treatment stockpile areas in order to collect potentially affected soil which may have been left in this area, or come into contact with contaminated soil. This soil will first be analyzed and, if required, also be processed through the mechanical screening stage and treated along with the excavated soils.

Final restoration of surfaces shall include 4 inches of topsoil, fertilizer, mulch, and seed over areas disturbed during the remedial actions.

4. Ground water recovery and treatment system

4.1. General

Ground water samples collected from the monitoring wells during the investigations indicated the presence of VOCs, predominantly xylene, in the ground water. To minimize the migration of ground water from the site within the shallow overburden aquifer, an IRM was conducted in 1991 and 1992 to install a ground water recovery and treatment system. The system comprises six ground water recovery wells, and a ground water treatment facility.

During soil remediation, ground water will be removed from the excavation, staged on site, and processed through the existing ground water remediation system. This section presents details of the ground water remediation system modifications to be implemented during soil remediation.

4.2. Location of recovery wells

Six recovery wells RW-1 through RW-6 have been installed at the site. Locations of these wells are shown on Figure 3. Ground water recovered from these wells is pumped via a buried conveyance pipes to the on-site treatment building. One or more of the recovery wells are located within the limits of the excavation and therefore will be removed and replaced, if necessary, to meet the objectives of the ground water recovery system.

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4.3. Estimated flow rates and concentrations

As part of excavation, a pump will be placed within the excavation to provide additional dewatering, if required. Based on the projected size of the excavation and hydrogeologic characteristics, the anticipated flowrate is less than 5 gpm. The concentrations of VOCs and SVOCs is anticipated to be consistent with the VOC/SVOC concentrations exhibited in the discharge from the recovery wells. The ground water removed from the excavation will be staged on site and treated using granular activated carbon and discharged with the water from the existing ground water recovery and treatment system in accordance with the established discharge limits.

4.4. Treatment system evaluation/modifications

Operation of the ground water treatment system, installed to treat overburden aquifer ground water as part of an IRM, will be evaluated utilizing data obtained both during and after the excavation activities. The purpose of the evaluation is to determine the need, if any, to modify the existing ground water recovery and treatment system. Factors to be considered in the evaluation include the following:

- changes to ground water recovery rates and VOC concentrations;
 and
- the number of recovery wells that will be removed as part of excavation activities and the need for replacement of the wells.

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Tables



Table 1 Soil Borings VOC Data - 1989

Sample ID Number:	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-7	B-8B	B-9
Sample Depth (Ft):	0-6'	<u>4-6'</u>	2-4'	4-6'	4-6'	2-4'	(DUP.)	4-6'	6-7.3'	4-6'
Methylene Chloride	0.002 J	0.006 U	400 U	0.002 J	0.002 J	0.002 J	380 U	150 U	6.9 U	14 U
Acetone	0.011 U	0.012 J	200 J	0.015 B	0.005 J	0.008 J		300 U	1.4 U	14 U
2-Butanone	0.011 U	0.012 U	150 J	0.011 U	0.012 U	0.012 U	210 J	300 U	6.8 J	29 U
Tetrachioethene	0.006 U	0.097	400 U	0.006 U	0.006 U	0.006 U	380 U	150 U	6.9 U	154
1,1,2,2-Tetrachloroethane	0.006 U	0.006 U	400 U	0.006 U	· 0.006 U	0.006 U	380 U	150 U	6.9 U	14 U
Toluene	0.006 U	0.006 U	400 U	0.006 U	0.006 U	0.006 U	380 U	150 U	6.9 U	20
Ethylbenzene	0.006 U	0.006 U	400 U	0.006 U	0.006 U	0.006 U	380 U	150 U	6.9 U	20
Xylene	0.002 J	0.006 U	9,700	0.014	0.006 U	0.004 J	8500	5900	72	3700

NOTES: All analytical values measured in mg/kg.

- J Indicates an estimated value.
- B Found in method blank.
- U Below detection limit.

Analytical quantitation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 1 Soil Borings VOC Data - 1989

Sample ID Number: Sample Depth (Ft):	B-9 6-7'		B-10 4-6		B-10 6-7.9'		B-11 0-2'		B-11 6-9'		TRIP BLANK	
Methylene Chloride	140	11	3.6	.1	1.4	IJ	0.019	.1	0.006	u	0.005	u
Acetone	290	_	29	-	0.9		0.15	-	0.067	_	0.01	_
2-Butanone	290	U	29	U	0.99	J	0.031	J	0.012	U	0.01	U
Tetrachioethene	250		140	U	1.4	U	0.029	U	0.006	U	0.005	U
1,1,2,2-Tetrachloroethane	140	U	140	U	1.4	U	0.029	U	0.006	U	0.005	U
Toluene	47	J	1.5	J	1.4	J	0.029	U	0.006	U	0.005	U
Ethylbenzene	140	U	14	U	3.7		0.028	J	0.003	J	0.005	U
Xylene	5400		- 310		34		0.65		0.11		0.005	U

NOTES: All analytical values measured in mg/kg.

- J Indicates an estimated value.
- B Found in method blank.
- U Below detection limit.

Analytical quantitation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 2 Soil Borings SVOC Data - 1989

Sample ID Number: Sample Depth (Ft):	B-1 0-6'		B-2 4-6'		B-3 2-4'		B-4 4-6'		B-5 4-6'		B-6 2-4'		B-7 (DUP.)		B-8 4-6'		B-8B 6-7.3'		B-9 4-6'	
2-Methylphenol	0.38	U	0.4	U	2.2	U	0.37	U	0.4	U	0.38	U	2.3	J	1.9	J	0.37	U	39	U
4-Methylphenol	0.38	U	0.4	U	2.2	U	0.37	U	0.4	U	0.38	U	20	U	20	U	0.37	U	39	U
2,4-Dimethylphenol	0.38	U	0.4	U	4.1		0.37	U	0.4	U	0.38	U	3.9	J	3.5	J	0.37	U	28	J
Benzoic Acid	1.9	U	2	U	21		1.9	U	2	U	1.9	U	100	U	99		1.9	U	190	U
bis(2-Ethylhexyl)phthalate	0.44	В	0.5	В	2.2	U	0.38	В	0.8	В	0.34	J	20	U	1.1	J	0.32	J	39	U

NOTES: All analytical values measured in mg/kg.

J - Indicates an estimated value.

B - Found in blank.

U - Below detection limit.

Analytical quanitiation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 2 Soil Borings SVOC Data - 1989

Sample ID Number: Sample Depth (Ft):	B-9 6-7'		B-10 4-6'	V	B-10 6-7.9'		B-11 0-2'		B-11 6-9'		EQUIP BLANK	_
2-Methylphenol	4.8	J	38	U	38	U	2.5		0.11	J	0.015	U
4-Methylphenol	38	U	38	U	38	U	0.39	U	0.061	J	0.015	U
2,4-Dimethylphenol	38	U	38	U	38	U	0.39	U	0.39	U	0.015	U
Benzoic Acid	190	U	190	U	190	U	1.9	U	1.9	U	0.077	U
bis(2-Ethylhexyl)phthalate	38	U	38	U	38	U	0.22	J	0.25	J	0.005	JB

NOTES:

All analytical values measured in mg/kg.

J - Indicates an estimated value.

B - Found in blank.

U - Below detection limit.

Analytical quanitiation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 3 Soil Borings Inorganic Data - 1989

Sample ID Number:	Typical	Extreme	B-1	B-2	B-3	B-4	B-5	B-6		B-7		B-7		B-8B	B-9		B-10		B-10
Sample Depth (Ft):	Range*	Range*	0-6'	4-6'	2-4'	4-6'	4-6'	2-4'		(DUP.)		4-6'		6-7.3'	4-6'		4-6'		6-7.9'
Aluminum	1000-300,000		22200	NA	NA	NA	NA	8330		9720		10100		NA	6360		7550		NA
Antimony	0.6-10		5.67	NA	NA	NA	NA	5.76	U	6.03	U	5.97	U	NA	5.83	U	5.74	U	NA
Arsenic	1.0-40	0.1-500	2.82	NA	NA	NA	NA	2.73		2.08		2.39		NA	2.37		2.72		NA
Barium	100-3500	10-10000	49.3	NA	NA	NA	NA	39.1		35.3		38.7		NA	20	В	33.9		NA
Beryllium	0.1-40	0.1-100	0.838	NA	NA	NA	NA	0.41	В	0.425	В	0.415	В	NA	0.432	В	0.291	В	NA
Cadmium	0.1-7	0.001-45	0.227	NA	NA	NA	NA	0.231	U	0.241	U	0.239	U	NA	0.233	U	0.23	U	NA
Calcium	100-400,000		4740	NA	NA	NA	NA	1520		1400		1820		NA	47100		1460		NA
Chromium	5.0-3000	0.5-10000	31.4	NA	NA	NA	NA	11.5		12.9		14.1		NA	10.6		11		NA
Cobalt	1.0-40	0.01-500	4.98	NA	NA	NA	NA	5.91		19		24.6		NA	9.35		5.68	В	NA
Copper	2.0-100	0.1-14000	9.4	NA	NA	NA	NA	13.7		17.2		17.4		NA	16		19.2		NA
Iron	7000-550,000		28800	NA	NA	NA	NA	13800		14700		15300		NA	11100		12900		NA
Lead	2.0-200	0.1-3000	3.88	NA	NA	NA	NA	4.06		3.99		5.26		NA	3.55		4.2		NA
Magnesium	600-6000		11500	NA	NA	NA	NA	2080		2940		3040		NA	19900		2530		NA
Manganese	100-4000	1.0-70000	413	NA	NA	NA	NA	462		193		279		NA	416		254		NA
Mercury	0.01-0.08		0.113	NA	NA	NA	NA	0.115	U	0.121	U	0.119	U	NA	0.117	U	0.115	U	NA
Nickel	5.0-1000	0.8-6200	30.8	NA	NA	NA	NA	10.1		11.3		13		NA	10.6		11.7		NA
Potassium	400-30,000		6800	NA	NA	NA	NA	1870		2900		2820		NA	1810		2030		NA
Selenium	0.1-2	0.01-400	1.13	NA	NA	NA	NA	0.231	U	0.241		0.239		NA	1.17	U	0.23	U	NA
Silver	0.1-5.0	0.1-50	0.233	NA	NA	NA	NA	0.258	В	0.241	U	0.239	U	NA	0.233	U	0.23	U	NA
Sodium	750-7500	400-30000	152	NA	NA	NA	NA	199	В	359	В	201	В	NA	285	В	181	В	NA
Thallium	0.01-12		0.567	NA	NA	NA	NA	0.577	U	0.602	U	0.597	U	NA	0.582	U	0.574	U	NA
Vanadium	20-500	1.0-1000	30.3	NA	NA	NA	NA	18.4		19.9		20.8		NA	15.4		16.7		NA
Zinc	10-300	3.0-10000	30.2	NA	NA	NA	NA	21.7		26.2		28.9		NA	19.9		25.1		NA
Cyanide			0.567	NA	NA	NA	NA	0.577	U	0.602	U	0.597	U	NA	0.582	U	0.574	U	NA

NOTES: Analytical inorganic values measured in mg/kg.

NA - Not analyzed.
ND - Not detectable.
U - Below detection limit.

B - Above instrument detection limit but below

contract required detection limit.

* - THE SOIL CHEMISTRY OF HAZARDOUS MATERIALS, James Dragun, Ph.D.

Table 3 Soil Borings Inorganic Data - 1989

Sample ID Number:	Typical	Extreme	B-11		B-11	EQUIP	
Sample Depth (Ft):	Range*	Range*	0-2'		6-9'	BLANK	
Aluminum	1000-300,000	_	13500		NA	39	8
Antimony	0.6-10		5.82	U	NA	50	U
Arsenic	1.0-40	0.1-500	3.26		NA	3	U
Barium	100-3500	10-10000	62.1		NA	10	U
Beryllium	0.1-40	0.1-100	0.504	В	NA	1	U
Cadmium	0.1-7	0.001-45	0.233	U	NA	2	U
Calcium	100-400,000		1490		NA	1530	В
Chromium	5.0-3000	0.5-10000	17		NA	5	U
Cobalt	1.0-40	0.01-500	26.1		NA	5	U
Copper	2.0-100	0.1-14000	16.2		NA	18	В
Iron	7000-550,000		22500		NA	129	
Lead	2.0-200	0.1-3000	5.46		NA	4.4	
Magnesium	600-6000		3180		NA	200	U
Manganese	100-4000	1.0-70000	581		NA	3	В
Mercury	0.01-0.08		0.116	U	NA	0.2	U
Nickel	5.0-1000	0.8-6200	17		NA	15	U
Potassium	400-30,000		4190		NA	1000	U
Selenium	0.1-2	0.01-400	1.16	U	NA	2	U
Silver	0.1-5.0	0.1-50	0.252	В	NA	2	U
Sodium	750-7500	400-30000	297	В	NA	1920	8
Thallium	0.01-12		0.582	U	NA	5	U
Vanadium	20-500	1.0-1000	25.9		NA	5	U
Zinc	10-300	3.0-10000	29.6		NA	13	8
Cyanide			0.582	U	NA	10	U

NOTES: Analytical inorganic values measured in mg/kg.

NA - Not analyzed.

ND - Not detectable.

U - Below detection.limit.

B - Above instrument detection limit but below contract required detection limit.

* - THE SOIL CHEMISTRY OF HAZARDOUS MATERIALS, James Dragun, Ph.D.

Table 4
Soil Borings PCB/Pesticide Data - 1989

							B-6						
Sample No.:	B-1	B-2	B-3	B-4	B-5	B-6	(DUP.)	B-7	B-8B	B- 9	B-10	B-11	EQUIP
Depth (FT.):	0-6'	4-6'	2-4'	4-6'	4-8'	2-4'	2-4'	4-6'	6-7.3'	4-6'	4-6'	0-2'	BLANK
alpha-BHC	0.013 L	J NA	NA	NA	NA	0.014 U	14 U	14 U	NA	14 U	1.3 U	0.14 U	5E-05 U
beta-BHC	0.013 L		NA.	NA.	NA.	0.014 U	14 U	14 U	NA.	14 U	1.3 U	0.14 U	5E-05 U
delta-BHC	0.013 L		NA NA	NA	NA.	0.014 U	14 U	14 U	NA NA	14 U	1.3 U	0.14 U	5E-05 U
gamma-BHC (Lindane)	0.013 t		NA NA	NA NA	NA	0.014 U	14 U	14 U	NA NA	14 U	1.3 U	0.14 U	5E-05 U
Heptachlor	0.013 U		NA	NA.	NA	0.014 U	14 U	14 U	NA.	14 U	1.3 U	0.14 U	5E-05 U
Aldrin	0.013 U		NA NA	NA NA	NA NA	0.014 U	14 U	14 U	NA.	14 U	1.3 U	0.14 U	5E-05 U
Heptachlor epoxide	0.013 U		NA NA	NA NA	NA.	0.014 U	14 U	14 U	NA.	14 U	1.3 U	0.14 U	5E-05 U
Endosulfan I	0.013 U		NA	NA NA	NA.	0.014 U	14 U	14 U	NA	14 U	1.3 U	0.14 U	5E-05 U
Dieldrin	0.013 U		NA NA	NA	NA	0.014 U	14 U	14 U	NA NA	14 U	1.3 U	0.14 U	5E-05 U
4.4-DDE	0.015 C		NA	NA.	NA	0.014 U	14 U	14 U	NA NA	28 U	2.6 U	0.14 U	0.0001 U
Endrin	0.026 U		NA	NA.	NA NA	0.014 U	28 U	28 U	NA NA	28 U	2.6 U	0.28 U	0.0001 U
	0.026 U		NA NA	NA NA	NA NA	0.028 U	28 U	28 U	NA.	28 U	2.6 U	0.28 U	0.0001 U
Endosulfan li	0.026 U		NA NA	NA NA	NA NA	0.028 U	28 U	28 U	NA	28 U	2.6 U	0.28 U	0.0001 U
4,4-DDD Endosulfan Sulfate	0.026 U		NA NA	NA NA	NA NA	0.028 U	28 U	28 U	NA NA	28 U	2.6 U	0.28 U	0.0001 U
	0.026 U		NA NA	NA NA	NA NA	0.028 U	28 U	28 U	NA NA	28 U	2.6 U	0.28 U	0.0001 U
4,4-DDT				NA NA	NA NA	0.028 U	140 U	140 U	NA.	140 U	13 U	1.4 U	0.0001 U
Methoxychlor	0.13 L		NA	NA NA		0.14 U	28 U	28 U	NA NA	28 U	2.6 U	0.28 U	0.0005 U
Endrin Ketone	0.026		NA		NA		140 U	140 U	NA NA	140 U	2.0 U	1.4 U	0.0001 U
alpha-Chlordane	0.13 L		NA	NA	NA	0.14 U		140 U	NA NA	140 U	13 U		0.0005 U
gamma-Chlordane	. 0.13 l		NA	NA	NA	0.14 U	140 U			280 U		1.4 U	
Toxaphene	0.26 L		NA	NA	NA	0.28 U	280 U	280 U	NA		260 U	2.8 U	0.001 U
Arochlor-1016	0.13 L		NA	NA	NA	0.14 U	140 U	140 U	NA	140 U	13 U	1.4 U	0.0005 U
Arochlor-1221	0.13 l		NA	NA	NA	0.14 U	140 U	140 U	NA	140 U	13 U	1.4 U	0.0005 U
Arochlor-1231	0.13 l		NA	NA	NA	0.14 U	140 U	140 U	NA	140 U	13 U	1.4 U	0.0005 U
Arochlor-1242	0.13 l		NA	NA	NA	0.14 U	140 U	140 U	NA	140 U	13 U	1.4 U	0.0005 U
Arochlor-1248	0.1 3 l		NA	NA	NA	0.14 U	140 U	140 U	NA	140 U	13 U	1.4 U	0.0005 U
Arochlor-1254	0.26 l		NA	NA	NA	0.28 U	280 U	280 U	NA	140 U	260 U	2.8 U	0.001 U
Arochlor-1260	0.26 l	J NA	NA	NA	NA	0.28 U	280 U	280 U	NA	280 U	260 U	2.8 U	0.001 U

NOTES: All analytical values measured in mg/kg.

NA - Not analyzed.

U - Below detection limit.

All analytical quantitation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are present in laboratory reports.

TABLE 5 MAESTRI SITE 904 STATE FAIR BLVD.

SOIL BORINGS DATA SUMMARY - 1989

BORINGS	GROUND ELEV. (FT)	TOTAL DEPTH (FT)	DEPTH OF FILL (FT)	DEPTH TO GROUND WATER (FT)	SAMPLED INTERVAL (FT)	HNU FIELD SCREENING (ppm)
						•
B-1	419.4	6.4	0	NOT ENCOUNTERED	0–2'	BG ·
					2–4'	BG
					4–6'	BG
					6-6.4'	BG
B-2	408.7	6	4	5.8	0–2'	1
					2-4'	3.8
					4-6'	5
	400 7					
B - 3	409.7	4	>4	NOT ENCOUNTERED	0–2'	BG
					2–4'	350
B-4	407.8	8	>8	6.25	0–2'	0.4
					2-4'	0.2
					4–6'	0.4
					6–8'	35
B-5	405.8	8	•	0.5	0.01	
D-3	405.8	•	6	6.5	0–2'	BG
					2–4'	BG
					4-6'	BG
					6–8.	4
B-6	409.4	8	4	6.5	0-2'	BG
					2-4'	BG
					4-6'	BG
					6-8'	BG
B-7	408.3	6	0	6	0-2'	300
6 -7	400.5	·	Ū	•	2–4'	350
					4–6'	360
					4-0	300
B-8	407.5	8	4	7.3	0-2	0
					2-4'	1.2
					4–6'	5
					6-7.3'	160
B-9	407.7	8	3.3	7	0–2'	
J-0	₩./	•	3.3	,	2-4'	1 50
					2–4 4–6'	
					4–6 6–7	300
					0-/	280
B-10	409.2	8	4.7	7.9	0-2'	170
					2–4'	280
					4–6'	280
					6-7.9'	280
B-11	409.2	8	4	7	0-2'	260
		•	•	•	2–4'	38
					4-6'	30
					6–7'	140
					- /	170

NOTE: BG - Background.

VOLATILE ORGANIC COMPOUNDS ANALYSES SUMMARY

	B-12				B-13			B-14			B-15			B-16			B-17			B-18			B-19	
Depth		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test
Interval	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit
0-2 ft	0			٥			٥			0			٥			0			0			0		
2-4 ft	0			0			0			0			0		_	0			0			0		
4-6 ft	280	41	10	0	•		0			0			0			0			0			0		
6-8 ft	124			0			0	< 0.003		0			0			0			0	<0.004	10	0		
8-10 ft	98.3			0			0			0	<0.004	2.5	26.6	0.003	2.5	1.2	<0.003	2.5	10.4			0		
10-12 ft	108			0	<0.004	2.5	. 0		-	N/A			16.8			N/A			12.7			0		
12-14 ft	69	N		0			ВТ			0			11.6	N		35.9	N		273	3.5	20	0		
14-16 ft	174			0						ВТ			15.4			53.1	0.28	(7)	269	N		0	<0.004	2.5
16-18 ft	161			0									5.9	0.202	2.5	25.6			257			0		
18-20 ft	68.2			0									0			15.6			15.3			0		
20-22 ft	22			BT									вт			0.8			BT			0		
22-24 ft	3.4	0.047	2.5													вт						BT		

Notes:

- (1) An asterisk indicates the interval that has been selected for analyses for VOCs by EPA Method 8020 and SVOCs by EPA Method 8270.
- (2) N/A not analyzed due to insufficient quantity of soil.
- (3) A blank indicates that the interval was not selected for laboratory analyses.
- (4) N Sample to be analyzed for nutrient adsorption
- (5) PID readings in ppmv, laboratory results in mg/kg, dry weight (ppm).
- (6) Twenty of the twenty-one intervals selected for laboratory analyses were also tested for combined benzene, toluene, ethylbenzene and xylene using an immunoassay test kit.
- (7) Test kit analyses was not completed due to broken vial of reactant chemicals.

alcomptab6

VOLATILE ORGANIC COMPOUNDS ANALYSES SUMMARY

		B-20			B-21			B-22			B-23			B-24			B-25	•
Depth		Lab	Test		Lab	Test		Lab	Test		Leb	Test		Lab	Test		Lab	Test
Interval	PID	Result	kit	PID	Result	Kit	PID	Result	kit	PID	Result	Kit	PID	Result	kit	PID	Result	Kit
0-2 ft	٥			٥			0			0			٥		:	0		
2-4 ft	0			0	· _		0	_		0			0		-	0.9		_
4-6 ft	0			0			0		_	0			0		_	1.1		
6-8 ft	0			0			0			0			0		_	0.3	_	_
8-10 ft	0	_		0			0		<u>.</u>	0			0	<0.003	20	2.5	N	
10-12 ft	0	<0.003	2.5	0			0			0.3	N/A	>35				17.4	<0.004	2.5
12-14 ft	0			0		-	0	<0.003	2.5	3.3	<0.003	2.5			_	1.1		
14-16 ft	0			2.4			0			34.5	0.37					0.2		
16-18 ft	_	_		8.6	0.212	10	0		_							0.3		_
18-20 ft			_	1.2		_	0									0	<0.003	2.5
20-22 ft				0	<0.004	2.5										0		
22-24 ft				0		_												

Notes:

- (1) An asterisk indicates the interval that has been selected for analyses for VOCs by EPA Method 8020 and SVOCs by EPA Method 8270.
- (2) N/A not analyzed due to insufficient quantity of soil.
- (3) A blank indicates that the interval was not selected for laboratory analyses.
- (4) N Sample to be analyzed for nutrient adsorption
- (5) All values in parts per million (ppm)
- (6) Twenty of the twenty-one intervals selected for laboratory analyses were also tested for combined benzene, toluene, ethylbenzene and xylene using an immunoassay test kit.
- (7) Test kit analyses was not completed due to broken vial of reactant chemicals.

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SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSES SUMMARY

	B-12				B-13			B-14			B-15			B-16			B-17			B-18			B-19	
Depth		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test
Interval	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit	PID	Result	kit
0-2 ft	0			0			0			0			0			0			0			0		
2-4 ft	0			0			0			0			0			0			0			0		
4-6 ft	280	ND		0			0			0			0	_		0			0			0		
6-8 ft	124			0			0	0.48		0			0			0			0	ND		0		
8-10 ft	98.3			0			0			0	ND		26.6	0.53		1.2	ND		10.4			0		
10-12 ft	108			0	NĎ		0			N/A			16.8			N/A			12.7			0		
12-14 ft	69			0			вт			0	_		11.6			35.9	ì		273	ND		0		
14-16 ft	174			0						вт			15.4			53.1	ND		269		_	0	ND	
16-18 ft	161			0									5.9	ND		25.6			257			0	_	
18-20 ft	68.2	_		0							_		0			15.6			15.3			0		
20-22 ft	22			BT									вт			0.8			вт			0		
22-24 ft	3.4	ND			,					,						ВТ						BT		

Notes:

- (1) An asterisk indicates the interval that has been selected for analyses for VOCs by EPA Method 8020 and SVOCs by EPA Method 8270.
- (2) N/A not analyzed due to insufficient recovery of soil.
- (3) A blank indicates that the interval was not selected for laboratory analyses.
- (4) N Sample to be analyzed for nutrient adsorption
- (5) All values in parts per million (ppm)
- (6) ND Not Detected

neena\svocsum

SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSES SUMMARY

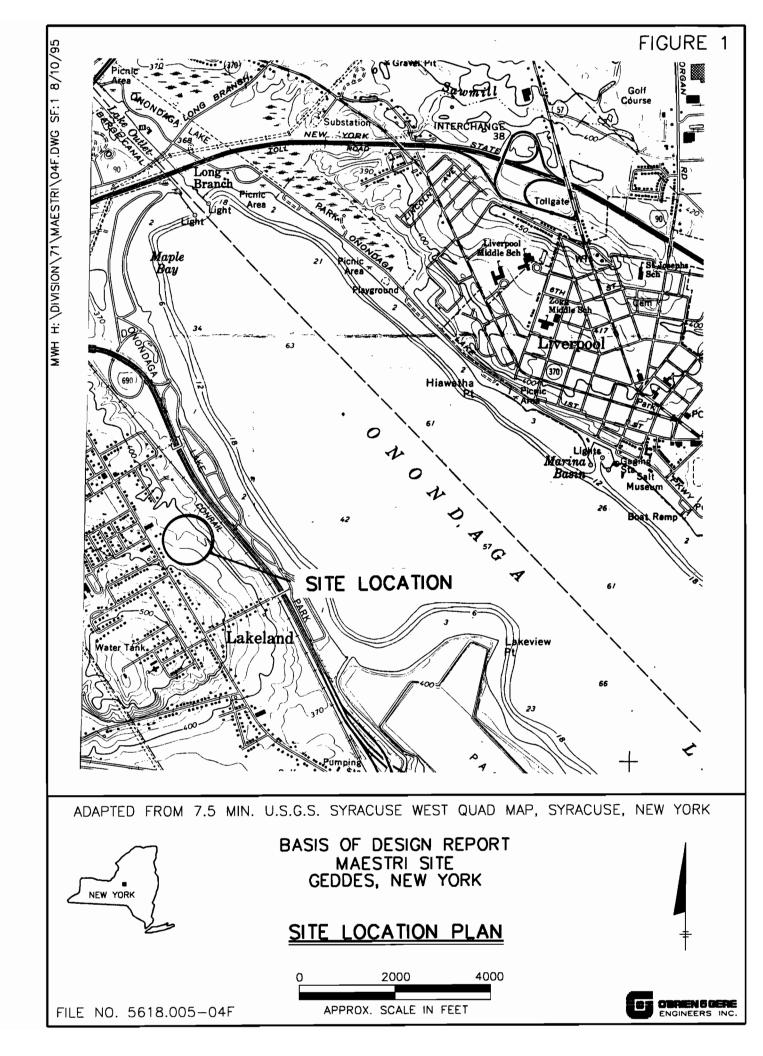
		B-20			B-21			B-22			B-23			B-24			B-25	
Depth		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test		Lab	Test
Interval	PID	Result	kit	PID	Result	Kit	PID	Result	kit	PID	Result	Kit	PID	Result	kit	PID	Result	Kit
0-2 ft	0			0			0			0			0			0		
2-4 ft	0			0			0	_		0			0			0.9		
4-6 ft	0		·	0	_		0			0			0			1.1	_	
6-8 ft	0	_		0			0			0		_	0			0.3		
8-10 ft	0		_	0			0			0			0	ND		2.5		
10-12 ft	0	ND		0			0			0.3						17.4	ND	_
12-14 ft	0			0			0	ND		3.3	ND	-				1.1	_	
14-16 ft	0			2.4			0		_	34.5	ND			_		0.2		
16-18 ft				8.6	ND		0							•	_	0.3		
18-20 ft				1.2			0									0	ND	
20-22 ft				0	ND				_					_		0	_	
22-24 ft				0					-									

Notes:

- (1) An asterisk indicates the interval that has been selected for analyses for VOCs by EPA Method 8020 and SVOCs by EPA Method 8270.
- (2) N/A not analyzed due to insufficient recovery of soil.
- (3) A blank indicates that the interval was not selected for laboratory analyses.
- (4) N Sample to be analyzed for nutrient adsorption
- (5) All values in parts per million (ppm)
- (6) ND Not Detected

Figures





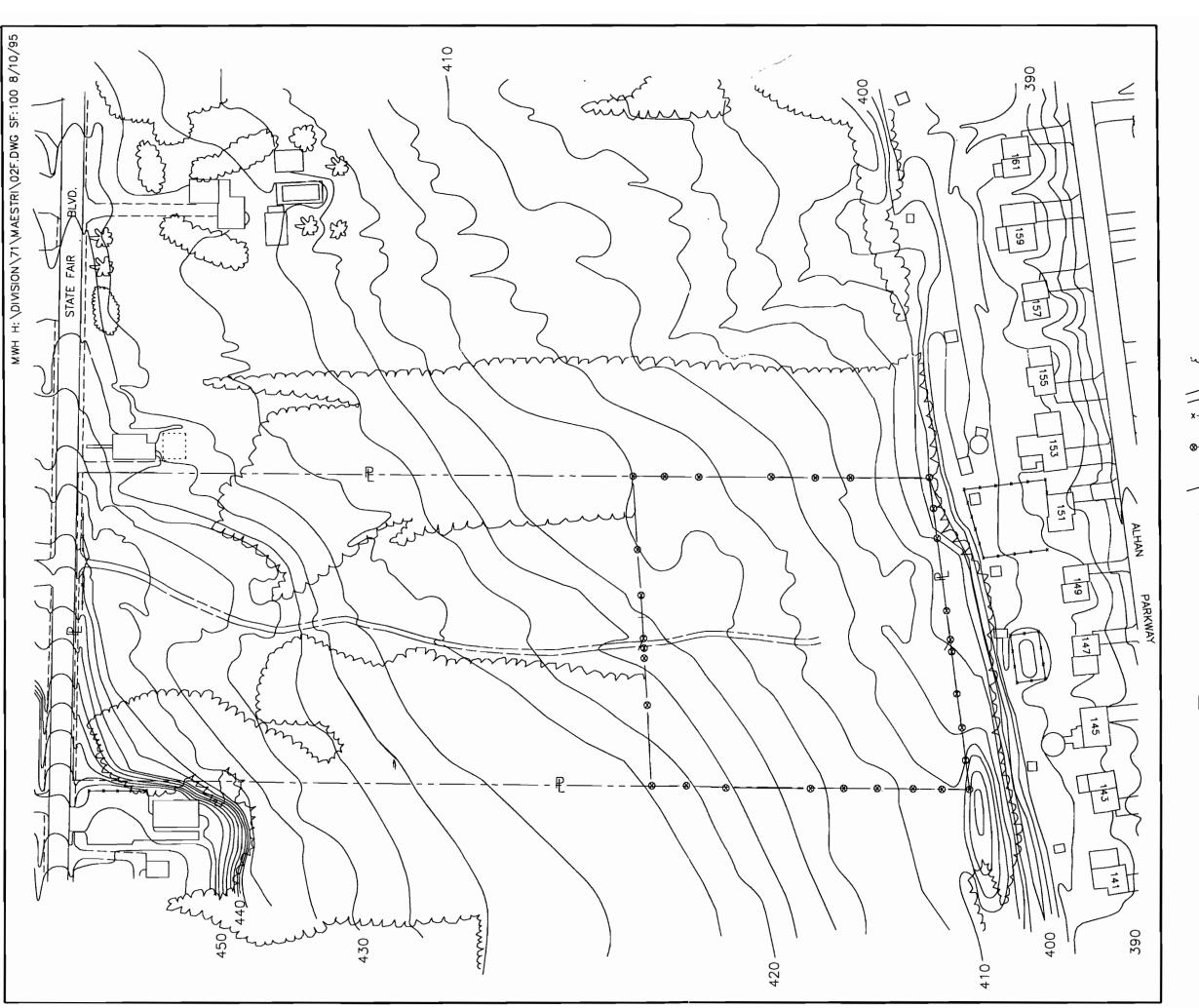


FIGURE 2



LEGEND

TREE LINE

ACCESS ROAD

×----× FENCE

⊗——⊗ 8' HIGH SECURITY FENCE

MAESTRI SITE PROPERTY BOUNDARY

150 RESIDENCE

BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

SITE TOPOGRAPHIC MAP

0 100 200
APPROX. SCALE IN FEET



FILE NO. 5618.005-02F



FIGURE 3



LEGEND

TREE LINE لس

-- ACCESS ROAD

--- MAESTRI SITE PROPERTY BOUNDARY

* FENCE

- 8 8' HIGH SECURITY FENCE

- MONITORING WELL
- RECOVERY WELL
- → PIEZOMETER

APPROXIMATE LIMITS
OF 1987 EXCAVATION

APPROXIMATE LIMITS
OF 1990 EXCAVATION

APPROXIMATE LIMITS OF 1993 EXCAVATION

BASIS OF DESIGN REPORT

MAESTRI SITE

GEDDES, NEW YORK

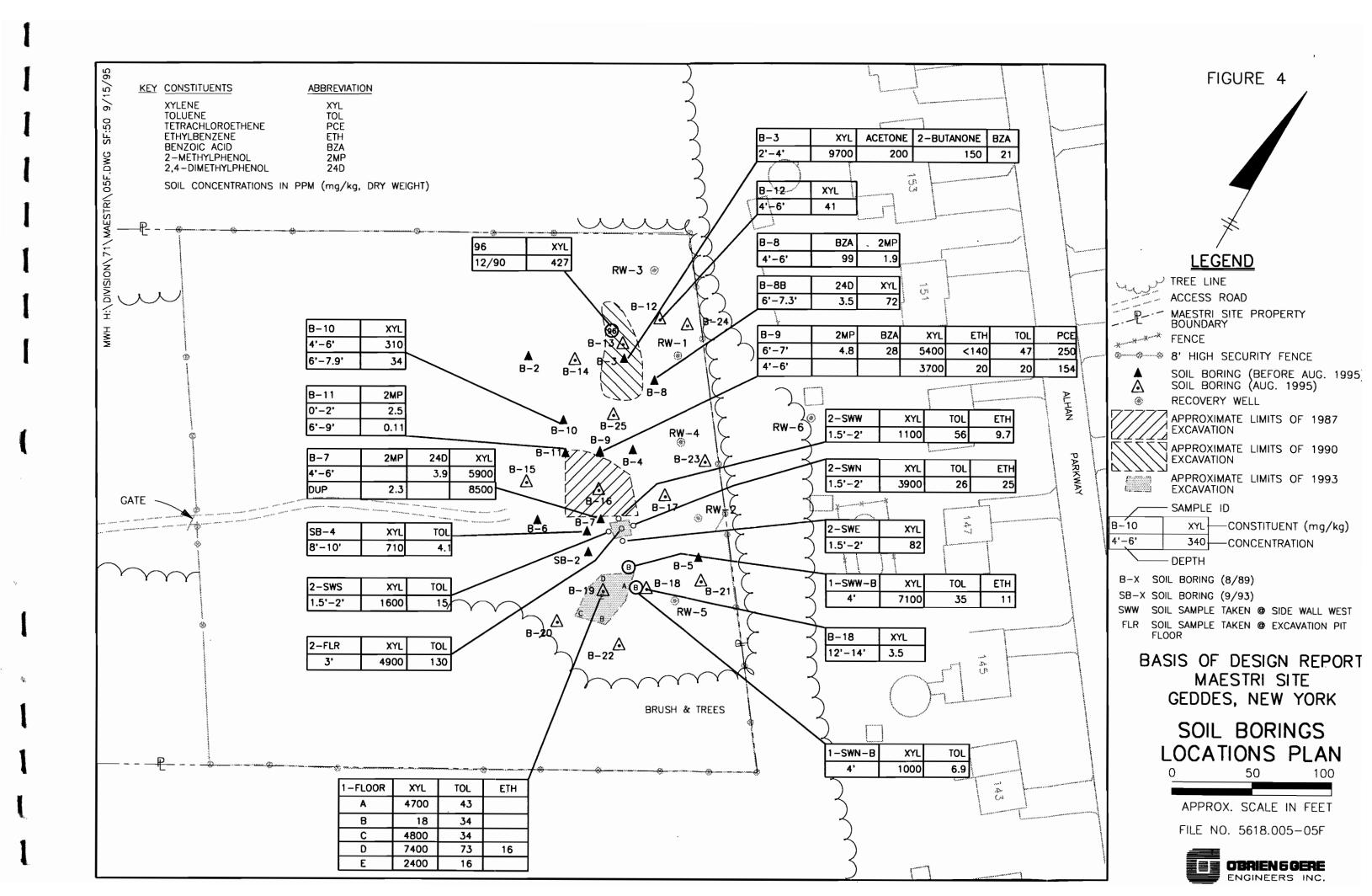
SITE MAP (ENLARGED)

0 50 100

APPROX. SCALE IN FEET

FILE NO. 5618.005-03F





LEGEND

RAO'S REMEDIAL ACTION

OBJECTIVES

VOC'S VOLATILE ORGANIC COMPOUNDS

SVOC'S SEMI-VOLATILE ORGANIC COMPOUNDS

REMEDIAL ACTION OBJECTIVES

SOIL CLEANUP LEVEL PARAMETER (mg/kg, DRY WEIGHT)

XYLENE 1.2 **TOLUENE** 1.5 **ETHYLBENZENE** 5.5 BENZENE 0.06 **TETRACHLOROETHENE** 1.4 t-1,2-DICHLOROETHENE 0.3 TOTAL VOC'S 10 2-METHYLPHENOL 0.1 BENZOIC ACID 2.7 4-METHYLPHENOL 0.9 TOTAL SVOC'S 500

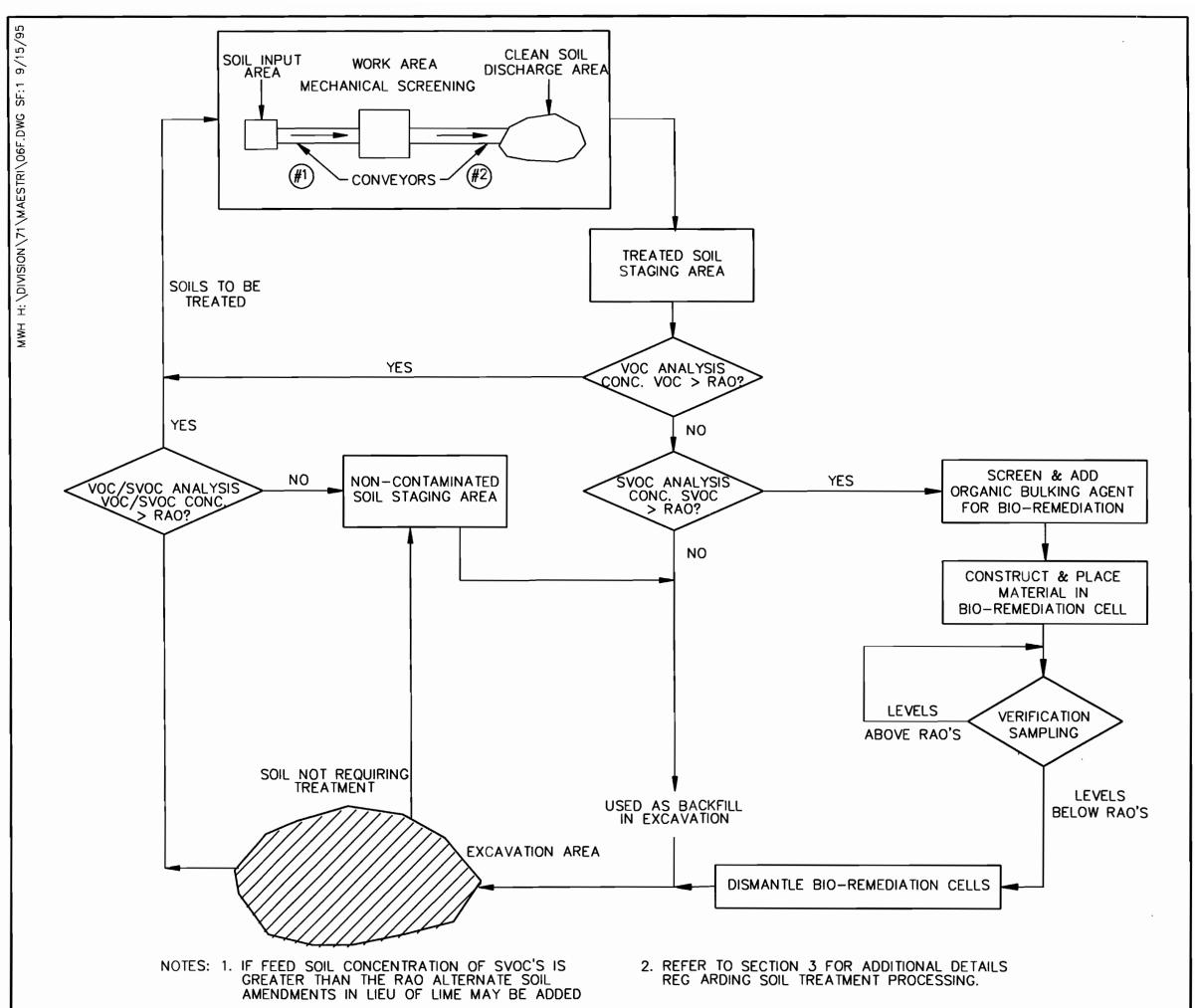
> BASIS OF DESIGN REPORT MAESTRI SITE GEDDES, NEW YORK

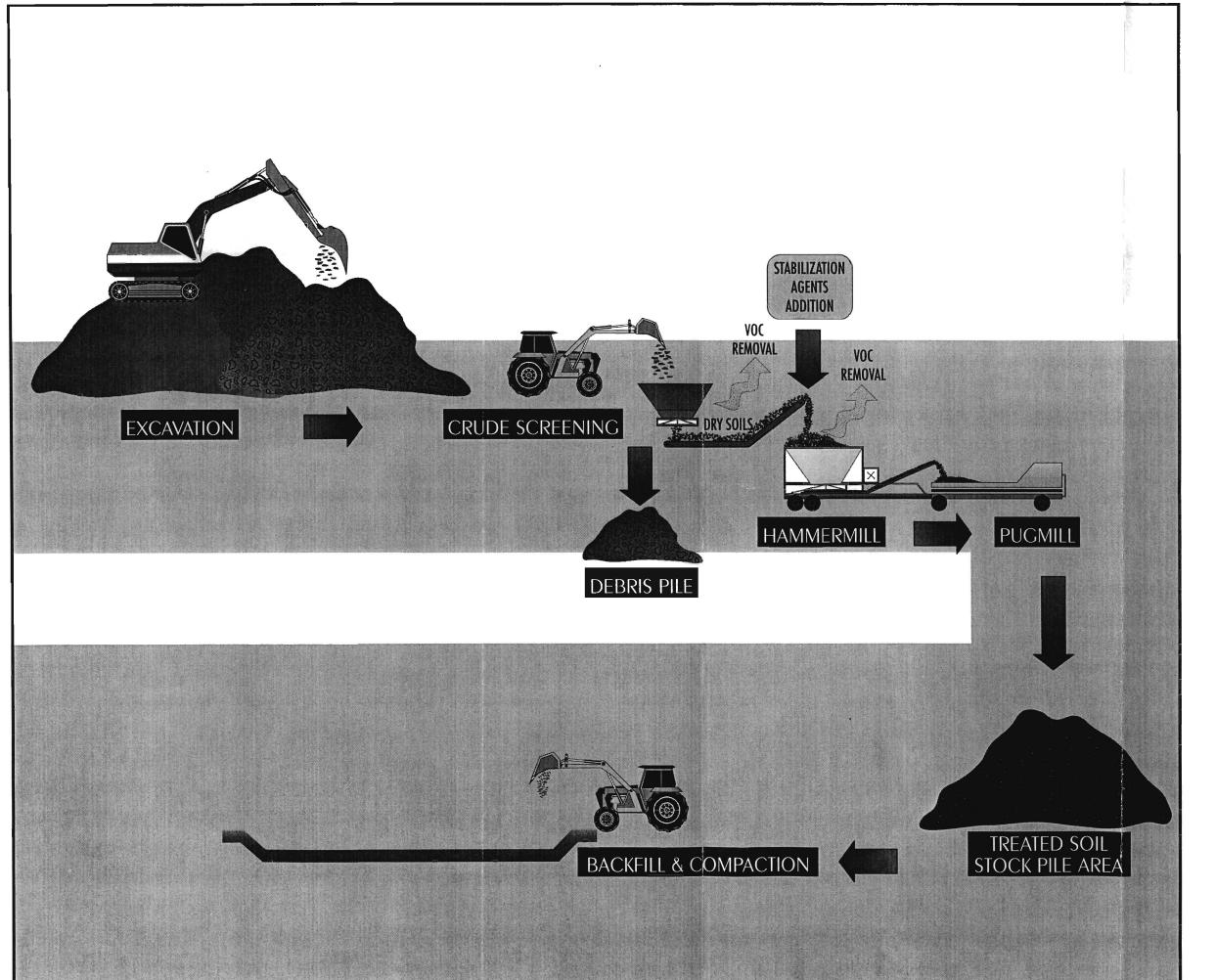
SOIL TREATMENT PROCESSING FLOW SHEET

NOT TO SCALE

FILE NO. 5618.005-06F







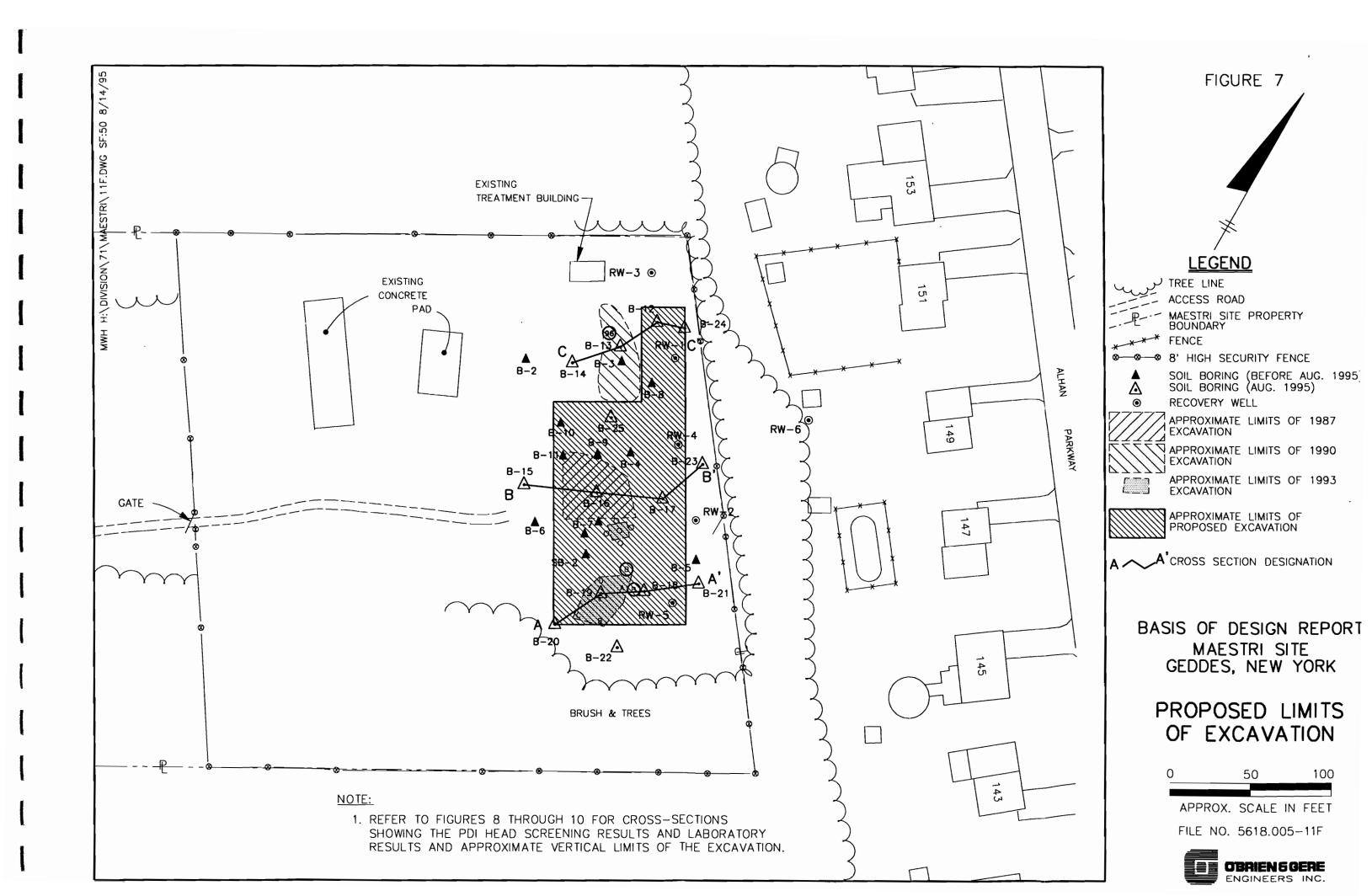
Note: The screening process shown here is similar to the screening process to be used in the pretreatment stage of the bioremediation process.

BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

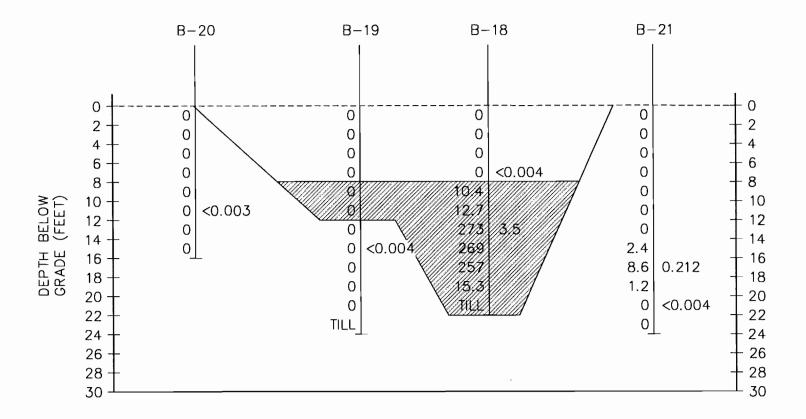
MECHANICAL / SCREENING PROCESS SCHEMATIC

FILE NO. 5618.005-18F









CROSS SECTION A-A'

SCALE: HORIZ. 1"=20' VERT. 1"=10'

LEGEND

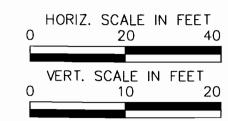
- HEAD-SPACE SCREENING RESULTS (PPMV)
- 3.5 TOTAL VOC'S CONCENTRATION (MG/KG), DRY WEIGHT
- VOC VOLATILE ORGANIC COMPOUNDS (EPA METHOD 8020)



SOILS THAT MAY EXHIBIT VOC'S OR SVOC'S IN EXCESS OF RAO'S

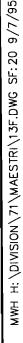
BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

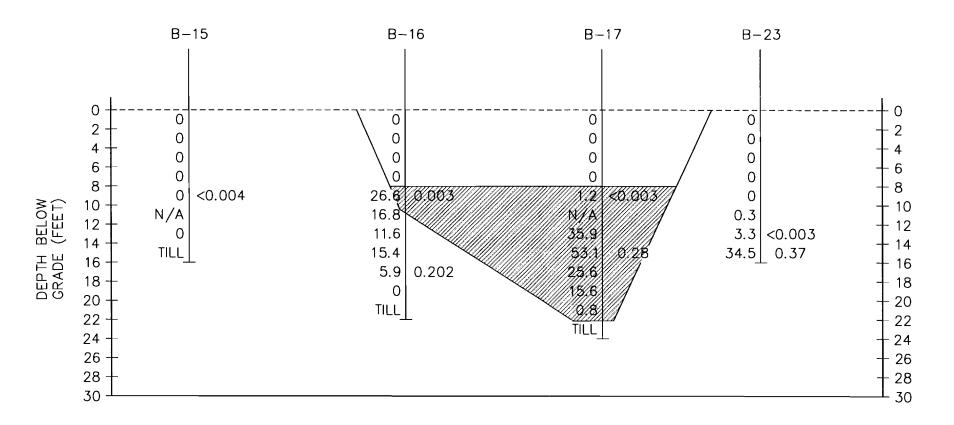
CROSS SECTION A-A'



FILE NO. 5618.005-12F







CROSS SECTION B-B'

SCALE: HORIZ. 1"=20' VERT. 1"=10'

FIGURE 9

LEGEND

HEAD-SPACE SCREENING RESULTS (PPMV)

0.28 TOTAL VOC'S CONCENTRATION (MG/KG), DRY WEIGHT

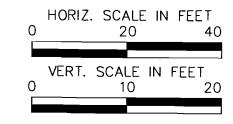
VOC - VOLATILE ORGANIC COMPOUNDS (EPA METHOD 8020)



SOILS THAT MAY EXHIBIT VOC'S OR SVOC'S IN EXCESS OF RAO'S

BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

CROSS SECTION B-B'



FILE NO. 5618.005-13F







HEAD-SPACE SCREENING RESULTS (PPMV)

TOTAL VOC'S CONCENTRATION (MG/KG), DRY WEIGHT

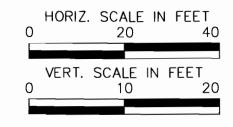
VOC - VOLATILE ORGANIC COMPOUNDS (EPA METHOD 8020)



SOILS THAT MAY EXHIBIT VOC'S OR SVOC'S IN EXCESS OF RAO'S

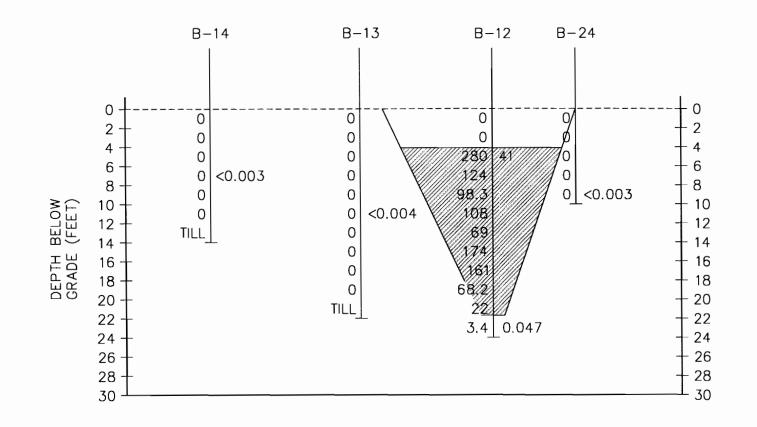
BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

CROSS SECTION C-C'



FILE NO. 5618.005-14F





MWH H: \DIVISION\71\MAESTRI\14F.DWG SF: 20 9/7/95

CROSS SECTION C-C'

SCALE: HORIZ. 1"=20' VERT. 1"=10'

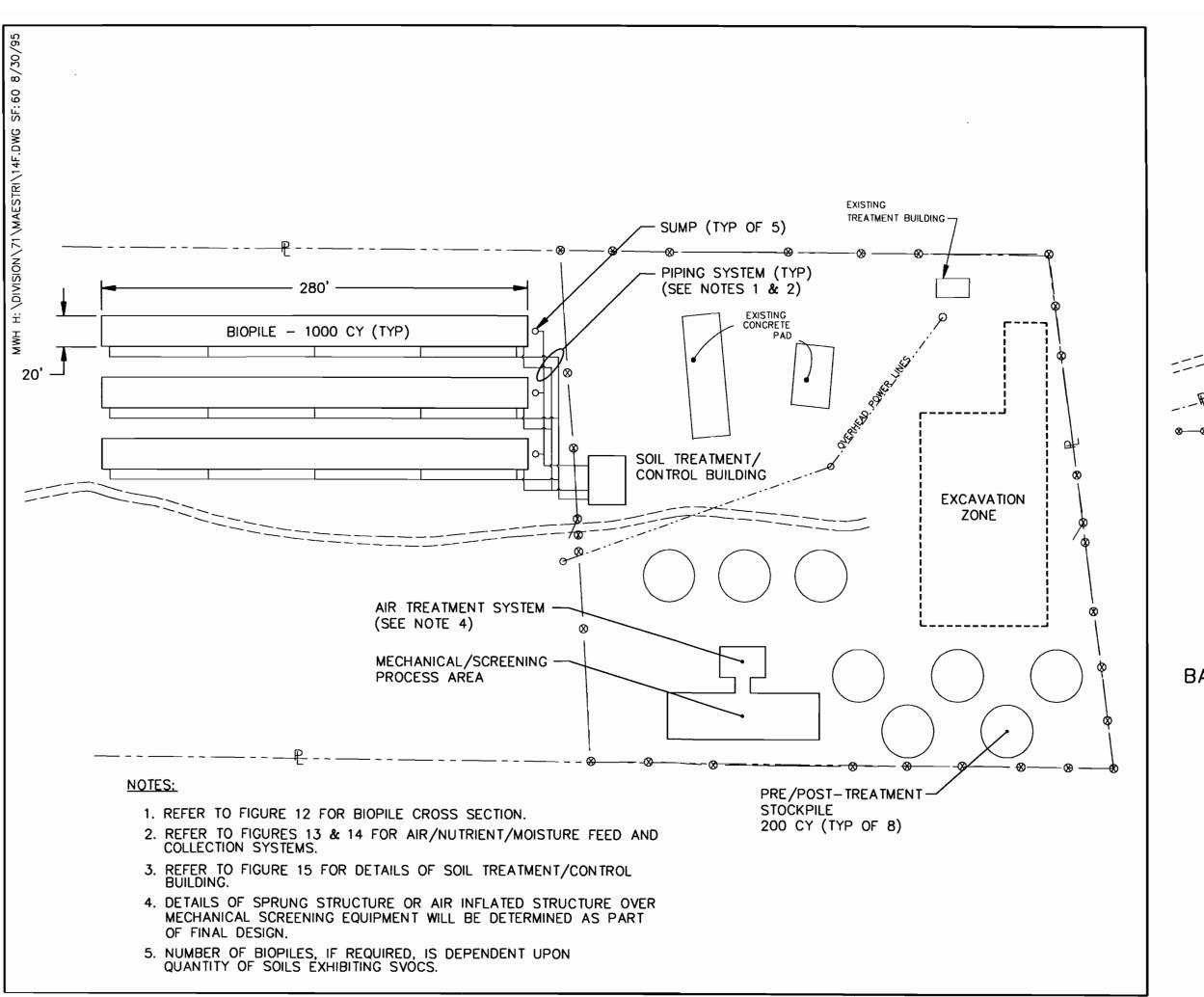


FIGURE 11



LEGEND

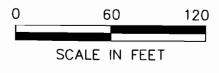
ACCESS ROAD

MAESTRI SITE PROPERTY
BOUNDARY

*** 8' HIGH SECURITY FENCE

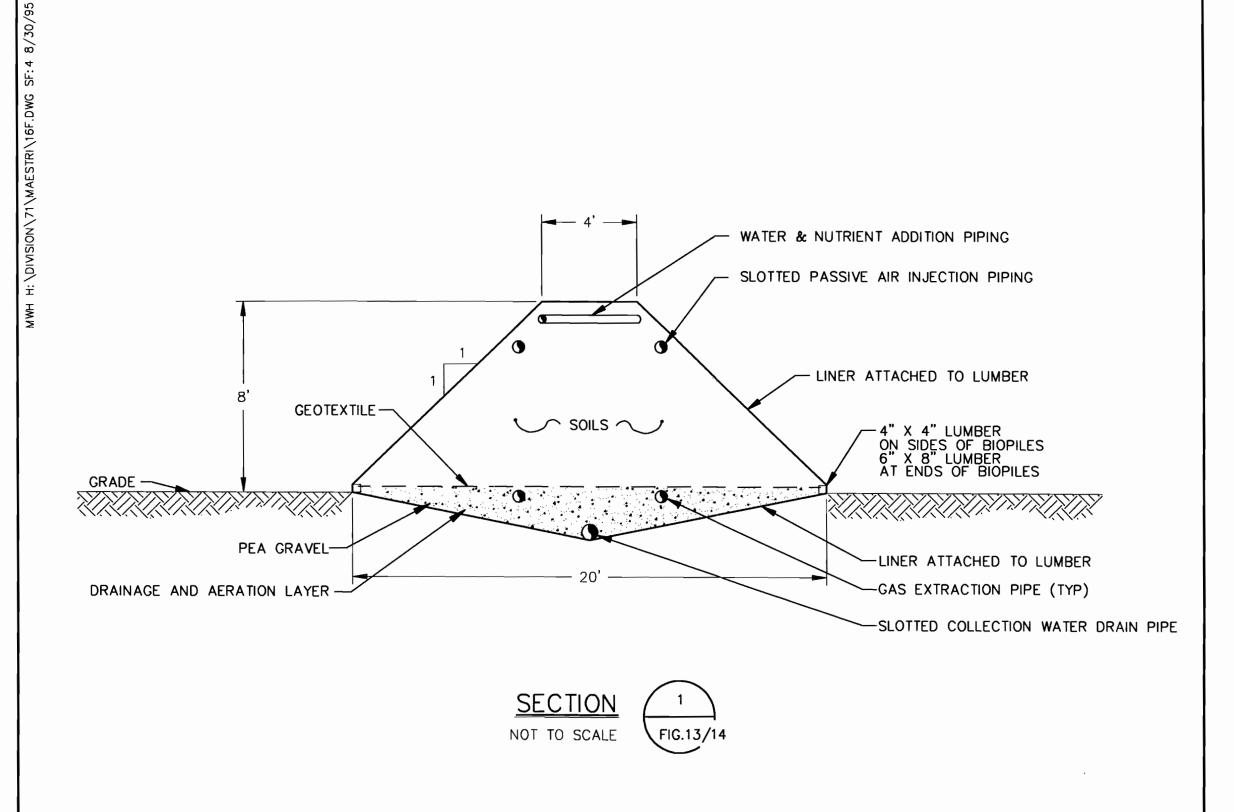
BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

PROPOSED SOIL TREATMENT PLAN



FILE NO. 5618.005-10F





BASIS OF DESIGN REPORT MAESTRI SITE GEDDES, NEW YORK

SOIL TREATMENT PILE CROSS-SECTION

NOT TO SCALE

FILE NO. 5618.005-16F



LEGEND

CONTROL VALVEPRESSURE GAUGE

BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

BIOREMEDIATION
CELL PLAN
(BELOW SOILS)

SCALE AS NOTED
FILE NO. 5618.005-17F



FIGURE 14

LEGEND

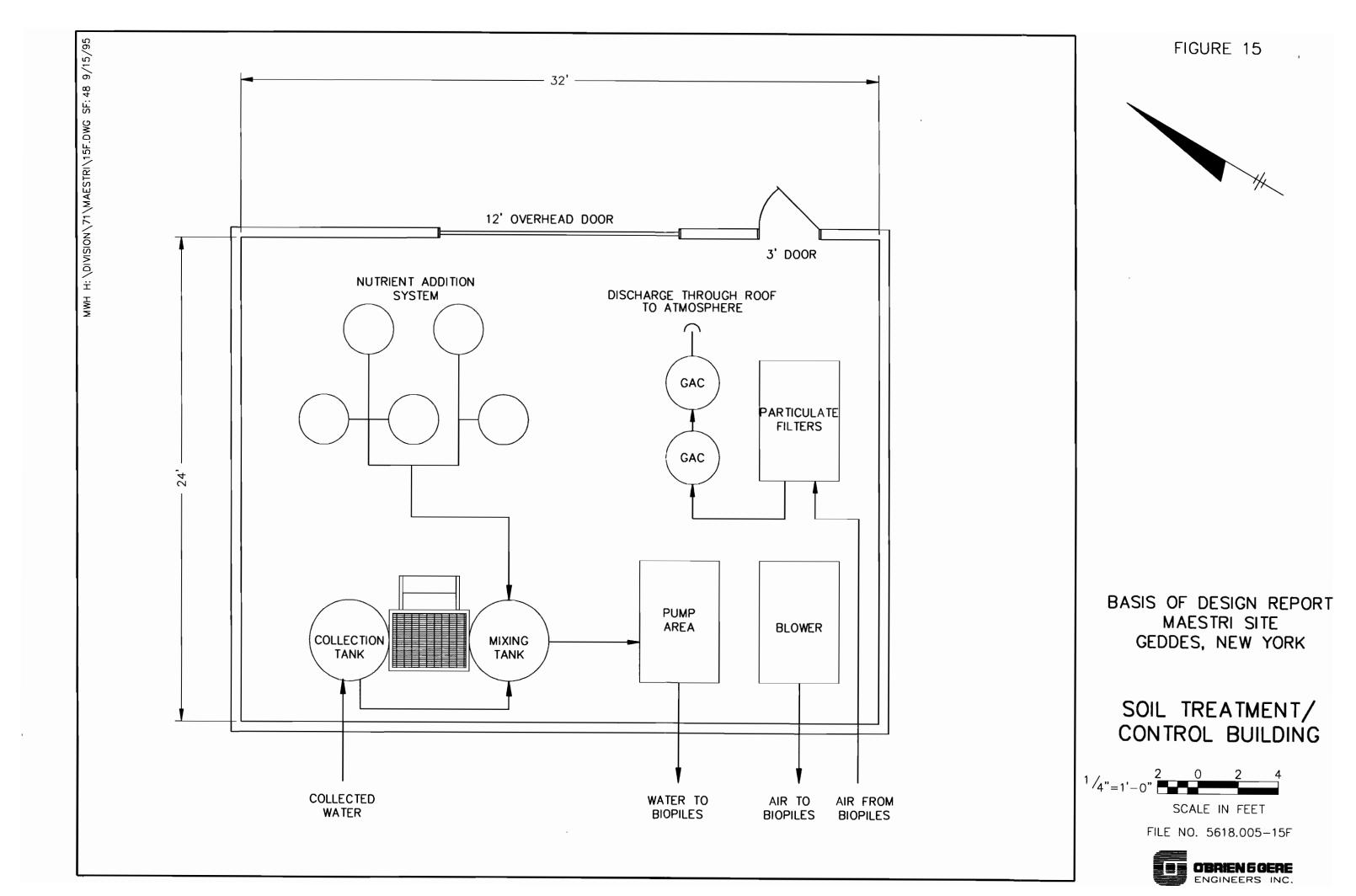
CONTROL VALVEPRESSURE GAUGE

BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

BIOREMEDIATION
CELL PLAN
(ABOVE SOILS)

SCALE AS NOTED
FILE NO. 5618.005-19F





Appendices



APPENDIX A
SOIL BORING LOGS - 1989

			·										
	O'BRII ENGIN	EN (EERS	GERE S, INC.				TEST BORING LOG	Repor	t of Boring N Sheet I o	io. i	B-1		
,	rojec	t Lo	cation:	Maestri S Geddes, N	ite Inves	tigation	SAMPLER Type: 2" Split Spoon	Ground Water	r Depth Depth	Dat	-		
	Client	: 5	Stauffer	Managemen	Company		Hammer: 140 lbs. Fall: 30 inches	File No.: 3	213.004.576	Dat	.6		
	oresa	n: K	(evin Wh:	tt-Wolff, ite nnis Theor			Boring Location: Adjac Ground Elevation: 419. Dates: Started: 8/2/89	41			/2/89		
				Sample				Stratum		Fie	d Test	ing	
	Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Sample Description	Change General Descript	Equipment Installed	рH	Sp Cond	HNU	k S#
١	0 ,					R	Reddish brown, dry and damp, very stiff clayey SILT, little fine to coarse sand,			•			
		1	0-21	3/9/15/12	21 /21	24 1	little fine/medium gravel, olive green withing apparent.					0	
ı		Ц					- ··						
		2	2-41	7/8/9/13	2'/1.3'	17	- Same as above, trace fine/medium sand, no fine/medium gravel.					0	
	5	3	4-61	5/15/-	21/0.91	41	- Same as above, hard, lenticular olive					0	
			, ,	25/45			- Same as above, hard, lenticular olive green and brownish red mottling, grades to very weathered bedrock at 6 ft.	1					
		4	6-6.41	50/.4	0.4/0.41	50+ I	interbedded, olive green and brownish red	6.01				0	
						=	Bottom of boring at 6.4 ft; boring	6. 41					
	- 10						terminated at top of bedrock.	}					
	10	Н				\square							
į		Н											
	_	Н											
								ŧ					
_		Ц						ĺ					.
1									i				
		Н											
		H											
		H											
-													
-													

O'BRIEN & GERE Report of Boring No. B-2 Sheet 1 of 1 ENGINEERS, INC. TEST BORING LOG Project Location: Maestri Site Investigation SOMPLER Ground Water Depth 5.8' Date 8/2/89 Type: 3" Split Spoon Hammer: 140 lbs. Geddes, N.Y. Depth Date Client: Stauffer Management Company Fall: 30 inches File No.: 3213.004.576 Boring Location: Adjacent left 40, 8 + 20 stake oring Co.: Parratt-Wolff, Inc. /oreman: Kevin White Ground Elevation: 408.71 OBG Geologist: Dennis Theoret Dates: Started: 8/2/89 Ended: 8/2/89 R Sample Stratum Field Testing Equipment Sample Change Blows /6" Depth Penetr/ Description General Installed Sp k Recovry No Depth Cond HNU Value рΗ Descript 5# 0 Reddish brown, dry, medium dense, fine/med-ium SAND, some silt, trace coarse sand, trace fine/medium gravel, trace roots. 1.8 1 0-21 3/8/5/4 21/1.51 Reddish brown, damp, very stiff, clayey SILT, little medium/coarse sand, trace buff 3.8 2 21/21 2-41 5/8/11/15 19 and olive green fine/medium gravel. 4.0 Medium brown, very moist, dense, fine/med-ium SAND, some silt. Saturated at 5.8°. 5.0 5 3 4-61 18/17/-21/21 30 6.01 13/25 Bottom of boring at 6 ft. 10

O'BRIEN & GERE Report of Boring No. B-3 ENGINEERS, INC. TEST BORING LOG Sheet I of i Project Location: Maestri Site Investigation Geddes, N.Y. Client: Stauffer Management Company SAMPLER Ground Water Depth Date Type: 3" Split Spoon Hammer: 140 lbs. Date Fall: 30 inches File No.: 3213.004.576 doring Co.: Parratt-Wolff, Inc. Foreman: Kevin White OBG Geologist: Dennis Theoret Boring Location: Adjacent left 40; 8 + 80 stake Ground Elevation: 409.71 Dates: Started: 8/2/89 Ended: Ended: 8/2/89 Sample Field Testing Stratum Sample Change Equipment Blows /6" Depth Penetr/ Description Installed General Sp No Recovry Value Depth рH HNU Cond Descript 5ŧ Reddish brown and orange, damp, medium dense, fine/medium GRAVEL and fine to coarse SAND, some silt, trace clay, trace 0 0-21 3/5/6/7 21/1.71 11 0 roots. 3.01 2 2-41 3/6/6/5 21/1.21 12 Buff, damp, stiff, clayey SILT. 350 4.01 Bottom of boring at 4 ft. (Non-aqueous phase liquid encountered) 5

O'BRIEN & GERE ENGINEERS, INC. Report of Boring No. B-4 Sheet I of 1 TEST BORING LOG Project Location: Maestri Site Investigation Geddes, N.Y. Client: Stauffer Management Company Ground Water Depth 6.25 Date 8/2/89
Depth Date
Fall: 30 inches File No.: 3213.004.576 SAMPLER Type: 3" Split Spoon Hammer: 140 lbs.

oring Co.: Parratt-Wolff, Inc.

Boring Location: Adjacent right 20; 8 + 80 stake Scound Elevation: 407.8°

								Dates: Started: 8/2/8		Ende				
- 1				Sample			Sai	ple	Stratum Change	Equipment	Fiel	d Tes	ting	R
	Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descr	ription	General Descript	Installed	рН	Sp Cond	HNU	k 54
	0						Reddish brown, dry, a	medium dense, fine to ne/medium gravel, lit- 5.						Γ
		1	0-21	3/7/19/14	21/21	26	tle silt, trace roots	5. 10. mentam di aseri 111.					0.4	1
֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֡֓֡֓֓֡֓֡֓֡֓							Paddish boom dawn	hand player STIT	2.3'					
		2	2-41	15/20/-	21/21	52	little coarse sand, gravel, trace cobble	hard, clayey SILT, little fine to coarse					0.2	:
• [32/50/.1			graves, trace coobse	>•						
	5	3	4-61	12/13/-	21/21	26	- Same as above, ver	y stiff.	6. 25'				0.4	1
. [13/13			Gray, saturated, med	ium dense, fine/medium and, trace fine gravel						
		4	6-81	8/9/14/15	21/21	23	orate, trace coarse si	ind, trace rine graver	8.01				35	
ſ							Bottom of boring	at 8 ft.	3.0					
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O'BRIEN & GERE ENGINEERS, INC. Report of Boring No. B-5 Sheet 1 of 1 TEST BORING LOG Project Location: Maestri Site Investigation Seddes, N.Y. 'lient: Stauffer Management Company Ground Water Depth 6.5' Date 8/2/89
Depth Date
Fall: 30 inches File No.: 3213.004.576 SAMPLER Type: 3" Split Spoon Hammer: 140 lbs.

Boring Co.: Parratt-Wolff, Inc. Foreman: Kevin White OBS Geologist: Dennis Theoret

Boring Location: Adjacent (right 90) 9 + 20 stake Ground Elevation: 405.8'
Dates: Started: 8/2/89

Endad: 9/2/99

096 Ge	BG Geologist: Dennis Theoret			et		Dates: Started: 8/2/8	9	Ended: 8/2/89						
			Sample			Sample	Stratum Change	Equi nimat	Field					
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	l Description	General Descript	Equipment Installed	рH	Sp Cond	HNU	k		
0						Reddish brown, dry and damp, very stiff clayey SILT, some fine/medium sand, trace						T		
	1	0-21	3/9/7/6	21/21	16	fine/medium gravel, trace coarse sand.					0			
	2	2-41	6/9/8/9	21/21	17	- As above, very moist, little fine/medium gravel, little fine to coarse sand.					0			
5	3	4-61	3/3/5/5	21/21	8	- As above, stiff, trace fine/medium grav-					0			
						Brown and buff, hard, very moist, clayey SILT, some fine/medium gravel, little fine/	6. 0'							
·	4	6-81	6/8/28/- 50/.4	21/21	36	SILT, some fine/medium gravel, little fine/ medium sand, trace coarse gravel. Saturated at 6.5'.					•			
						Bottom of boring at 8 ft.	8. 0'							
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O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	Report of Boring No. B-6 Sheet I of 1
Project Location: Maestri Site Investigation Geddes, N.Y. Client: Stauffer Management Company	Type: 3" Split Spoon	Ground Water Depth 6.5 Date 8/3/89 Depth Date File No.: 3213.004.576
Joring Co.: Parratt-Wolff, Inc. Foreman: Kevin White GBG Geologist: Dennis Theoret	Boring Location: Adjac Ground Elevation: 409. Dates: Started: 8/3/89	
Sample	Çamı) e	Stratum Four Field Testing R

UDO DE	aroñ	13t! NE	nis inecret Dates: Started: 0/3/05					Ended: 8/3/89						
		Sample				Sample	Stratum Change	Equipment	Fie	ting	R			
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Description	General Descript	Installed	рH	Sp Cond	HNU	k S#		
0						Black, damp, stiff organic SILT, little roots.	٠.					Γ		
	1	0-21	3/6/7/8	21/21	13		0.41				0			
	Ц		<u> </u>			Tan, damp, medium dense, fine/medium SAND, little silt, occasional lenses of decayed black organic matter.								
	2	2-41	7/6/6/8	21/21	12	Tan, damp, medium dense, medium/coarse SAND little fine sand, little silt, trace fine/	3. 5'				0			
5	3	4-61	8/8/11/10	21 /0 41	10	medium gravel.	4. 01				0			
-	3	4- 0·	6/6/11/10	2.70.4	19	Tan and brown, moist, very stiff, clayey SILT, trace fine/medium sand.	7.0] 				
	4	6-81	11/15/-	2'/1.8'	322	- Same as above, hard, some fine to coarse sand. trace fine/medium gravel. saturated					0			
	Ц		17/19	ļ		sand, trace fine/medium gravel, saturated at 6.5%.	8. 0'							
						Bottom of boring at 8 ft.				[]				
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O' BRI ENGIN	EN (GERE S, INC.				TEST BO	RING LOG	Repo	rt of Boring Sheet i	No. B	-7	
-			Maestri S Geddes, N Managemen	LY.	_	Type: 3" Split Spoo Hammer: 140 lbs.	PLER on Fall: 30 inches	1	er Depth 6' Depth 3213.004.576	Dai Dai	te 8/3 te	/89
orema	n: I	kevin Wh	tt-Wolff, ite nnis Theor				Boring Location: Adja Ground Elevation: 408. Dates: Started: 8/3/8	cent right (.3'	60, 8 + 60 si Ende	ake ed: 8	/3/89	
			Sample			_		Stratum		Fie	ld Tes	ting
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	San Descr	ple iption	Change General Descript	Equipment Installed	рН	Sp Cond	HNU
0												
	1	0-21	5/5/5/5	21/21	4							300
						Tan, moist, loose str	atified, fine/medium cassional interbeds of					
	5	2-41	2/4/4/5	21/21	8	silty clay 2-61.	cassional interbeds of					350
5	3	4-61	3/4/6/5	21/21	10							360
						Bottom of boring a	t 6 ft.	6. 0¹				
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-			, INC.				TEST BORING LOG	KEPOI	Sheet 1	of 1)-OH		
	•			Maestri S Geddes, N	. Y.	_	!Type: 3" Split Spoon	Bround Wate	Depth	Da: Da:			
		_		Managemen	t Company		Hammer: 140 lbs. Fall: 30 inches						
	Forema	n: ł	levin Wh	tt-Wolff, ite nnis Theor			Boring Location: Adja Ground Elevation: 406 Dates: Started: 8/3/8	.7י		ake ed: 8	/3/89		
		Γ		Sample				Stratum		Fie	ld Test	ing	R
	Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Sample Description	Change General Descript	Equipment Installed	pH	Sp Cond	HNU	k
	0						Tan and brown, damp, loose, fine to coarse SAND and fine/medium GRAVEL, little silt,						
		1	0-21	3/4/4/3	21 /21	8	trace clay.					0.2	
-							Spoon bouncing at 3' below grade.	3.0'					
		2	2-41	. No re	covery		Bottom of boring at 3 ft.; boring terminated, obstruction encountered.						
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		GERE S, INC.			_	TEST BO	RING LOG	Repor	rt of Boring Sheet 1	No.	B-8B		
-			Maestri S Geddes, N Managemen	. Y.	-	Type: 3" Split Spoo Hammer: 140 lbs.	PLER m Fall: 30 inches	1	r Depth 7.3 Depth 3213.004.576	Da Da		/89	
Forema	n: I	Kevin Wh	tt-Wolff, ite nnis Theor				Boring Location: Between Bround Elevation: 407. Dates: Started: 8/3/8	. 51			takes /3/89		
	Τ		Sample			_		Stratum		Fie	ld Tes	ting	T
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	l Descr	ple iption	Change General Descript	Equipment Installed	pH	Sp Cond	HNU	
0						Brown, reddish brown,	and tan, damp, medium						1
	1	0-21	3/5/8/14	2'/1.3'	13	dense, fine to coarse coarse GRAVEL, little	silt, trace clay.					1	
												1	١
	2	2-41	7/8/11/14	21/21	19			4.01				1.2	2
						Reddish brown and tam clayey SILT, some emb	, damp, very stiff	4.01			1		1
5	3	4-61	7/11/-	21/21	23	gravel, trace embedde	d coarse sand.					5	
			12/16										
	4	6-81	18/15/-	21/21	33	- As above, hard, sa	turated at 7.3°.	0.00				160	١
			18/14			Bottom of bori	ng at 8 ft.	8.01					Ì
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O'BRIEN & SERE Report of Boring No. B-9 Sheet 1 of 1 ENGINEERS, INC. TEST BORING LOG Project Location: Maestri Site Investigation SAMPLER Ground Water Depth 7.01 Date 8/4/89 Type: 3" Split Spoon Hammer: 140 lbs. Geddes, N.Y. Client: Stauffer Management Company Depth Date Fall: 30 inches File No.: 3213.004.576 Boring Co.: Parratt-Wolff, Inc. Boring Location: Adjacent right 20, 8 + 60 stake Ground Elevation: 407.7 Foreman: Kevin White OBG Geologist: Dennis Theoret Dates: Started: 8/4/89 Ended: 8/4/89 Sample Stratum Field Testing R Equipment Installed Sample Change Depth Blows HNH Penetr/ Description General . Sp рH No Depth /6" Recovry Value Descript Cond HNU Sŧ 0 Reddish brown and brown, moist, loose, silty fine/medium SAND, trace roots. 1 0-21 1/2/2/3 21/1.41 1 3.3 2 Gray, damp, medium dense, fine/medium SAND, little silt, occasional interbedded 2-41 9/3/4/7 21/21 7 50 silty clay 4-8'. 5 3 4-61 21/21 300 3/6/9/9 15 Saturated at 7 ft. 6-81 4/8/13/19 21/21 21 280 8.0 Bottom of boring at 8 ft. 10

O' BRIEN & GERE Report of Boring No. Sheet 1 of 1 ENGINEERS, INC. TEST BORING LOG Project Location: Maestri Site Investigation SAMPLER Ground Water Depth 7.91 Date 8/4/89 Type: 3" Split Spoon Hammer: 140 lbs. Geddes, N.Y. Dient: Stauffer Management Company Date Fall: 30 inches File No.: 3213.004.576 Boring Location: Adjacent center line, 8 + 40 stake Ground Elevation: 409.21 doring Co.: Parratt-Wolff, Inc. Foreman: Kevin White OBG Geologist: Dennis Theoret Dates: Started: 8/4/89 Ended: B/4/89 Field Testing Sample Stratum R Sample Equipment Change -No Depth Blows Penetr/ Installed Description General Sp Depth /6" Recovry Value Descript Cond HNU 5* ρH 0 Light brown, damp, stiff, SILT, some fine/ medium sand. 0-21 4/4/7/7 21/21 11 0.51 170 Reddish brown, damp medium dense, fine/med-ium SAND and SILT, little fine/medium gravel. 2-41 2 2/6/8/8 21/1.11 14 2.0 280 Reddish brown and tan, damp, medium dense, fine/medium sand, some silt. 5 3 4-61 2/4/5/7 21/21 Tan, moist, medium dense, fine/medium SAND, little silt, occasional interbedded silty 280 10 clay 4.7-81. 6-81 5/4/7/11 21/21 11 Saturated at 7.9 ft. 280 8.0 Bottom of boring at 8 ft. 10

O'BRIEN & GERE ENGINEERS, INC. Report of Boring No. B-11 Sheet 1 of 1 TEST BORING LOG Project Location: Maestri Site Investigation SAMPLER Ground Water Depth Date 8/4/89 Type: 3" Split Spoon Hammer: 140 lbs. Geddes, N.Y. Deoth Date "lient: Stauffer Management Company Fall: 30 inches File No.: 3213.004.576 Boring Co.: Parratt-Wolff, Inc. Boring Location: Adjacent right 20, 8 + 40 stake Ground Elevation: 409.2' Foreman: Kevin White DBG Geologist: Dennis Theoret Dates: Started: 8/4/89 Ended: 8/4/89 Sample Field Testing Stratum Sample Change Equipment Depth Description Blows Penetr/ "N" General Installed Sp No Depth /6" Value Recovry рH Cond HNU Descript 5# Reddish brown, damp, medium stiff, clayey SILT, little coarse sand, little fine/med-0 0-21 1/1/3/3 21/21 260 ium gravel. 2.31 Tan and light brown, moist, stiff, fine/ medium SAND, some silt. 2-41 2 5/4/5/7 21/21 3 38 4.01 Reddish brown and light brown, moist, med-ium dense SAND, little silt, occasional interbedded silty clay 4-81. 4-61 5 3 4/6/5/6 21/1.41 11 30 Saturated at 7 ft., loose. 4 6-81 5/4/5/11 21/1.11 140 8.0 Bottom of boring at 8 ft. 10

Project Location: Maestri Site Investigation SAMPLER Ground Water Depth *7' Date 7/25/89 Geddes, N.Y. Type: 3" Split Spoon Depth Date	Ē	D'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	Report of Boring No. MN-7 Sheet I of 2
Client: Stauffer Management Company Hammer: 140 lbs. Fall: 30 inches File No.: 3213.004.576	1	Geddes, N.Y.	Type: 3" Split Spoon	Depth Date

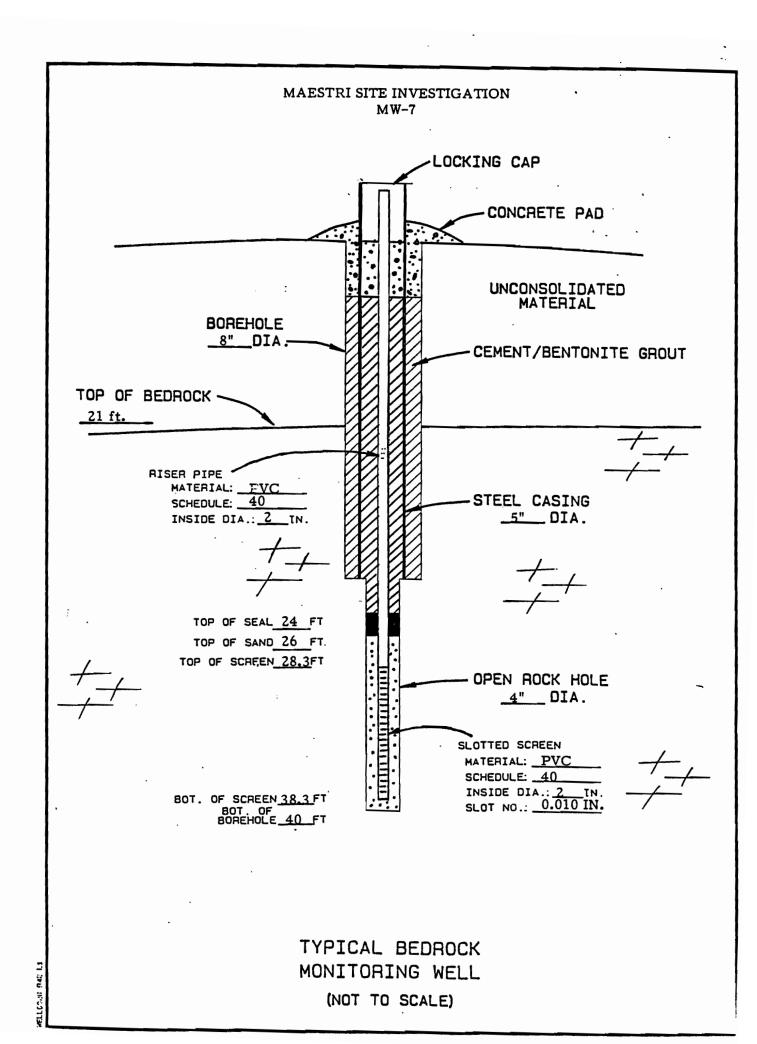
30ring Co.: Parratt-Wolff, Inc. Foreman: Kevin White UBB Geologist: Dennis Theoret

Boring Location: NE of main disposal area Ground Elevation: 406.9 ft. Dates: Started: 7/25/89

Ended: 8/3/89

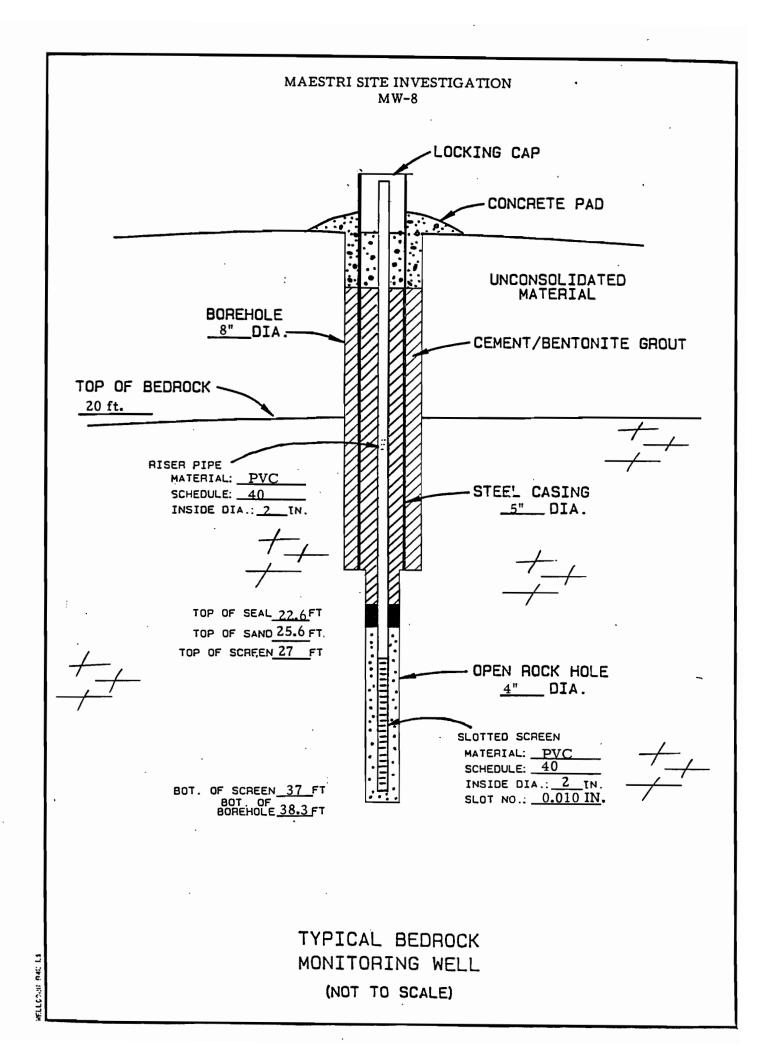
OB6 6e	oloi	gist: De	nnis Theor	et		Dates: Started: 7/25	89	End	ed: 8	/3/89		
						Sample	Stratum Change	Equipment	Fie	ld Tes	ting	R
)epth	No	Depth		Penetr/ Recovry	"N" Value	Description	General Descript	Installed	рH	Sp Cond	HNU	k S#
0						Reddish brown, damp, stiff, SILT, some firm /medium sand, trace coarse sand, trace						
	1	0-1.51	3/6/7	1.5/0.91	13	roots.			}		0.6	
						Auger cutting indicated fine/medium gravel layer 3 to 5 ft.						
5	2	5-6.51	8/8/7	1.5/0.7	15	- As above, trace clay, no roots.			[] 		0	
						Light brown, saturated, dense, fine/medium SAND, little silt, occasional interbeds of light brown, silty clay.	-71					
10	3	10-11.5	9/17/20	1.5/1.5	37						40	
15	\sqcup			 		Same as above, possible cobble layer.					7	
	5	15.5-16	50/.4	0.4/0.4	50+	Same as above.					.	
20							21.0					
		22 24 0	18/30/54-	21/1.91		Gray green, dry, non-calcareous, very weathered to relatively competent fissile						
	8	23-24. 7	50/.41	2.71.9	84	SHALE with interbedded dark brown clayey silt.		Ì	}			
	7	24.5-26		1.5/1.5	53						}	
25				-								
	8	26-27.1	24/53-	1.1/1.1	78+							
			25/.11			NOTE: 4" tricone drilling utilized 23 to 40 feet.						
	9	27.1-27	5 50/.41	.41/.41	50+							
-	10	25.7-	50/.21	.21/.21	50+							
		27.71										

G' BRI ENGIN	EN E	GERE S, INC.				TEST BO	DRING LOG	Repor	t of Boring Sheet 2	No. 1	₩-7	
Projec Client	t Lo	cation: Stauffer	Maestri S Geddes, N Managemen	ite Inves .Y. t Company	tigation	Type: 3" Split Spoo Hammer: 140 lbs.	PLER on Fall: 30 inches	Ground Wate File No.: 3	Depth	Dat Dat	te te	
CONTROL OF SECOND	Co. n: k	: Parra (evin Wh jist: De	tt-Wolff, ite nnis Theor	Inc. et			Boring Location: NE of Ground Elevation: Dates: Started: 7/25/8			ed: 8/	/3/89	
			Sample			^-	1-	Stratum	F	Fiel	ld Test	ting
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descr	ple iption	Change General Descript	Equipment Installed	рH	Sp Cond	HNU
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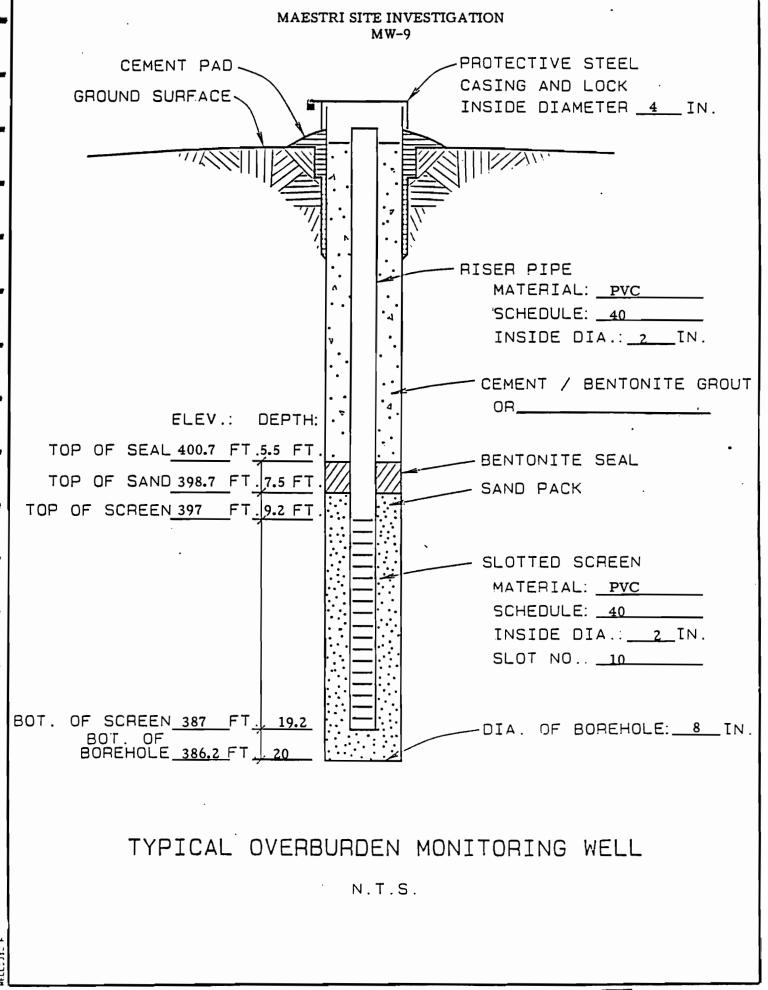


O'BRIEN & GERE Report of Boring No. Sheet I of 2 ENGINEERS, INC. TEST BORING LOG Project Location: Maestri Site Investigation Ground Water Depth 14.61 Date 8/1/89 Type: 3" Split Spoon Geddes, N.Y. Depth 15.8' Date 8/2/89 Client: Stauffer Management Company Hammer: 140 lbs. Fall: 30 inches File No.: 3213.004.576 Boring Location: East of main disposal area Ground Elevation: 406.14 ft. Boring Co.: Parratt-Wolff, Inc. Foreman: Kevin White **OBG Geologist: Dennis Theoret** Dates: Started: 7/26/89 Ended: 8/1/89 Sample Field Testing Stratum Sample Change Equipment Depth **Blows** Penetr/ -N= Description General Installed Sp No /6" Depth рH Recovry Value Descript Cond HNU Sŧ 0 1 0-1.5 3/4/9 1.5/0.91 Reddish brown, damp, stiff, SILT, some clay trace fine/medium sand and fine/medium 13 3.0 gravel, trace roots. ~5.0° Light brown and yellowish brown, very moist soft, SILT, some fine/medium sand, little fine/medium gravel, trace clay. 5 2 5-6.5 1/2/1 1.5/0.9 3 3.0 -At 6 ft. grades to very dense, some fine/ 3 7-7.21 .21/.21 50/.21 50+ coarse gravel, little fine/medium sand. 300 NOTE: Very hard augering 6 to 11' interval. .21 /.21 10 10-10.2 50/.21 50+ 200 Grades to reddish brown in color at 10 ft. 11.0 Reddish brown, saturated, very dense, fine/ medium SAND, trace silt. 15 5 15-16.4 14/22-11.4/1.4 72+ 110 50/.41 16.51 Brown, saturated, dense, coarse SAND and fine GRAVEL, some silty clay matrix. 6 18-201 10/14/-21/21 34 90 19.01 20/37 Reddish brown, saturated, dense, medium SAND with occasional rust and yellowish 20 colored silt lenses. 7 20-21.9 16/28-2/1.91 1.0 20.01 30-50/.4 Gray green, dry, non-calcareous, very weathered to relatively competent fissile 21.9-NX CORE 51/31 SHALE with interbedded dark brown clayey 26.91 25 NOTE: 4" tricone drilling utilized 21.9 to 38.3 ft. 30

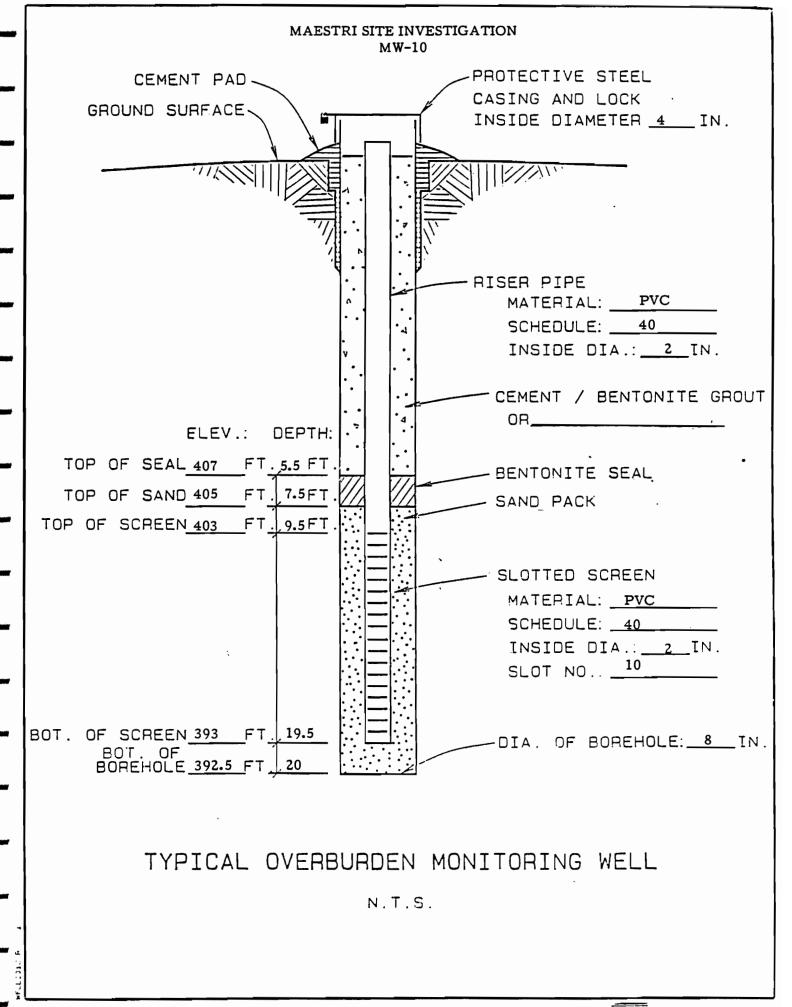
NGIN	ERS	GERE , INC.				TEST BORING LOG	керог	t of Boring N Sheet 2 c	6. · 1	% -8	
roject lient:	Lo S	cation: tauffer	Maestri S Geddes, N Managemen	ite Inves LY. t Company	tigation	SAMPLER Type: 3" Split Spoon Hammer: 140 lbs. Fall: 30	Ground Wate	r Depth 14.6° Depth 15.8° 213.004.576	Dat Dat	e 8/1 e 8/2	/89 /89
ring remar	Co.	: Parrat evin Whi	t-Wolff, ite mis Theor	Inc.		Boring Location Ground Elevation Dates: Started:	n: East of main dis		ed: A	/1/89	
,	,10g	1341 DE			T	Daves. Stal tes.	Stratum				.
epth	No	Depth	Sample Blows /6"	Penetr/ Recovry	"N" Value	Sample Description	Change General Descript	Equipment Installed	pH :	d Tes Sp Cond	l -
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						-					
	-	:			-	Bottom of boring at 38.3 ft.	38. 31				
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	O' BRI ENGIN	EN (& GERE S, INC.				TEST B	DRING LOG	Repor	rt of Boring Sheet 1 (No.	MI-9		
				Maestri S Geddes, N	ite Inves	tigation	n SA	IPLER		r Depth 9.4		te 7/31	/89	
-		_		Managemen	t Company		Type: 3" Split Spot Hammer: 140 lbs.			1213.004.576	Da	· ·		
	-orema	n: I	Kevin Wh	tt-Wolff, ite mnis Theor				Boring Location: East Bround Elevation: 406. Dates: Started: 7/27/	.2 ft.		ed: 7.	/27/89		,
		_		Sample	-		Sai	mble	Stratum Change	Equipment	Fie	ld Tes	1	
	Depth	No	Depth	Blows /6*	Penetr/ Recovry	+		ription	General Descript	Installed	рH	Sp Cond	HNU	k s*
	0						Augered to 20 ft. wit poring log MW-8 for a	thout sampling. See descriptions.		٠.	•			
-	5													
		Н												
	,					F	ine to coarse gravel	layer 7 to 12.5 ft.						
	10			•										
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7							abble lawer 10 da 20							
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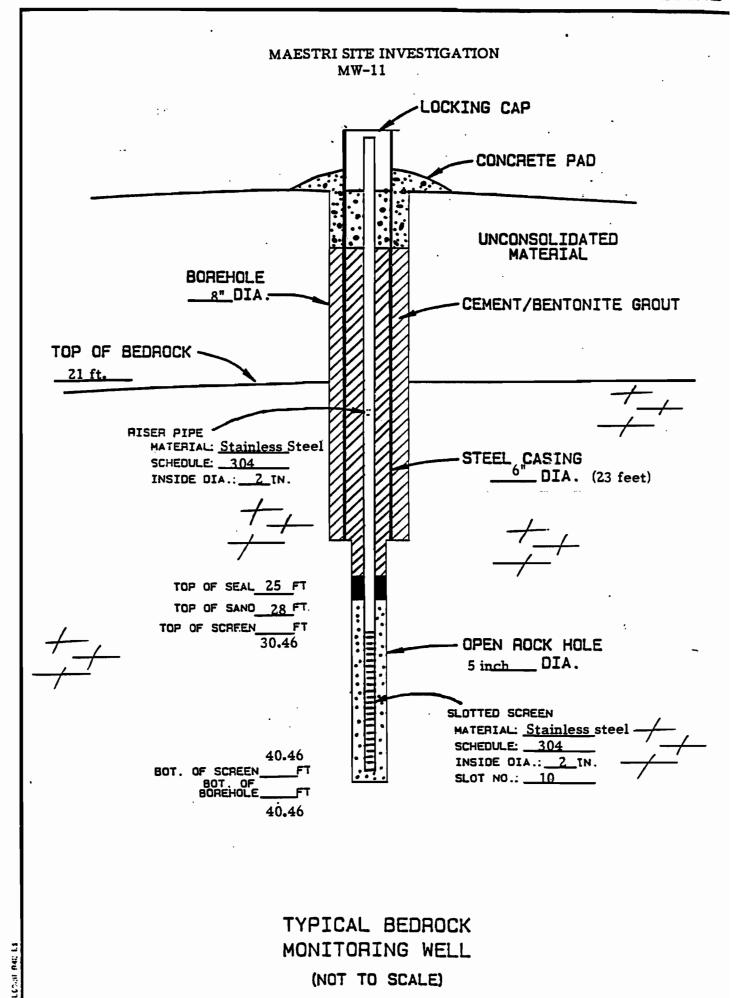


			GERE S, INC.	-			TEST B	ORING LDG	Repor	t of Boring Sheet 1 (No. I	W -10		
	Projec	t L	cation:	Maestri S Geddes, N Managemen	.Y.	-	Type: 3" Split Spo Hammer: 140 lbs.	MPLER on Fall: 30 inches		r Depth 6.5 Depth 7.9 1213.004.576	Dai	te 7/2 te 7/3		
	Foremai	n: ł	(evin Wh	tt-Wolff, ite nnis Theor				Boring Location: Sout Ground Elevation: 412. Dates: Started: 7/24/8	5 ft.	-		/25/89		
				Sample			92	mole .	Stratum Change	Equipment	Fie	ld Tes	ting	R
	Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value		ription	General Descript	Installed	рH	Sp Cond	HNU	k s*
	0	1	0-1.5	2/3/7	1.5/1.0	10	Light brown, damp, m ium SAND, some silt,	edium dense, fine/med- trace roots.					0	
							,							
-														
_	5	2	5-6.51	6/4/6	1.5/1.1	10	- As above. no root	s. very moist. Auger					1.2	
_			5 1,1				cuttings saturated	s, very moist. Auger at approx. 6.5 ft.						
_									1					l
_														
_														
-	10	3	10-11.5	3/8/13	1.5/1.3	21	- As above, saturat	ed.					0.2	
_														
						· .								
_		_												
╸	15	4	15-16.5	21/29/33	1.5/1.41	62							0	
_							Light brown, very mo:		15.8'					
•							fine/medium gravel, sand, little silt, to Matrix is clay, silt	little fine/coarse						
			i.i				Matrix is clay, silt	and fine sand.						
									20.03					
	20	5	20-20.2	50/.21	.21/.21	50+	Gray green and dark weathered fissile SH	gray, non-calcareous, ALE.					0	
•		Ц					Bottom of bor		20.41					
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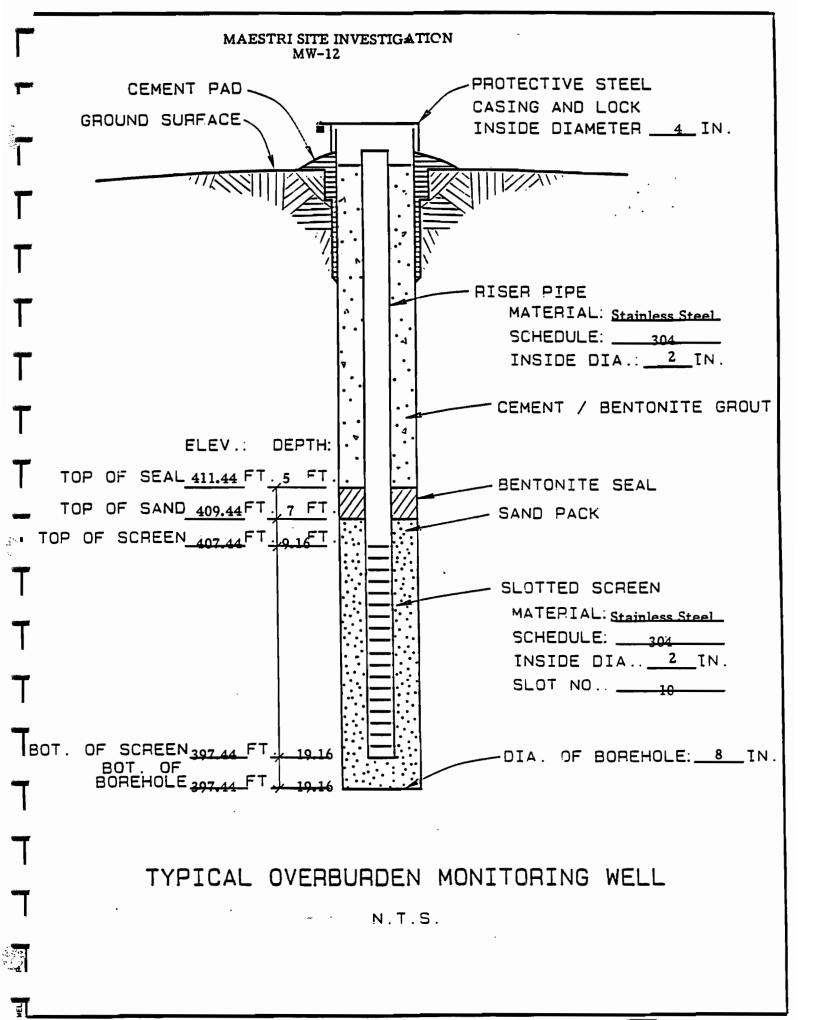


Report of Boring No. MW-11 Sheet I of 2 BRIEN & GERE ENGINEERS, INC. TEST BORING LOG ject Location: Maestri Site Investigation SAMPLER Ground Water Depth 8' Date 6/22/90 Type: Split Spoon Geddes, New York Depth Date wwent: Stauffer Management Company Hammer: 140 lb. Fall: 30" File No.: 3213.004.577 Boring Location: South of MW-10 Ground Elevation: 416.50 Ft. ng Co.: Parratt-Wolff, Inc. eman: Billy Rice Geologist: Dennis R. Theoret Ended: 6/26/30 Dates: Started: 6/22/90 Sample Stratus Field Testing Sample Change Equipment "N" Installed Sp rth Blows Penetr/ Description General . k /6" pН Cond HNU 5* No Depth Recovry Value Descript Reddish brown, dry, very stiff, clayey SILT, little very fine to fine sand, trace 1 0,-5, 4/7/11/16 21/1.17 olive green coarse sand size shale fragments Same as above, light green mottling noted, damp at 7 feet, hard 2 5' -7 14/15 21/1.711 PG 40 24/25 1101-121 12/18 21/1.421 26 39 Same as above, moist, 2 inch water bearing sandy gravel lens at 10.5 feet 21/13 15 FG 15' -23/22 1.9/1.7 72 Same as above, no lenses noted in split spoon sample 50/50/.3 16.31 201 -24/51 1.751/ Dark, red, damp, hard CLAY, with some embedded very coarse and fine gravel 58/50/.25 21.75 1.671 211 RG Olive green, dry, non-calcarreous SHALE, fissile, weathered (Vernon Shale) Note: 5" tricome drilling utilized 23 to 40.5 feet, black organic material noted in bedrock drilling water

O'BRI ENGIN	EN &	GERE		_		TEST BO	RING LOG	Repor	t of Boring : Sheet 2	No. M	W-11		
) jec	t Lo	cation:	Maestri S Geddes, N Management	Gite Inves New York Company	tigation	SAM Type: Split Spoon Hammer: 140 lb.	PLER Fall: 30"	Ground Water File No.: 3	Depth	Dat Dat			
ring rema DBG Ge	Co. n: E	: Parrat Gilly Ric gist: Der	t-Wolff, ce nnis R. Th	Inc.			Boring Location: Ground Elevation: Dates: Started:	416.50 Ft.	End	ed: f	6/26/90		
		_	Sample	<u> </u>		Sau	ple	Stratum Change	Equipment	Fie	ld Test	ļ	140
Depth ——	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descr	iption	General Descript	Installed	рH	Sp Cond	HNU	k 5*
			_										
35													
40													
						Bottom of Boring	at 40.5 feet	40.5					
					В	G = Background Readi	ngs on PID						
								A Company of the Comp					
			-										
													-
									•				



O' BRI ENGIN	EN & EERS	GERE G, INC.				TEST B	ORING LOG	Repor	t of Boring Sheet 1	No. M of 1	W-12		
			Geddes, N	ite Inves ew York	tigation	Type: Split Spoon	#PLER	Ground Water	Depth	Da: Da:	te te		
_		auffer Þ	lanagement	Company		Hammer: 140 lb.	Fall: 30"	File No.: 3	213.004.577				
ring rema OBG Ge	Co. n: B olog	: Parrat Billy Ric pist: Der	t-Wolff, re mis R. Th	Inc. seoret		•	Boring Location: Adj Ground Elevation: 41 Dates: Started: 6/25	6.6 Ft.	End	ed:	6/25/90		
			Sample	,			•	Stratum		Fie	ld Tes	ting	
Depth O	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value		ple ription	Change General Descript	Equipment Installed	рH	Sp Cond	HNU	k S#
						Augered to 19 feet wi boring log MW-11 for	thout sampling. See descriptions.						
-				<u> </u>									
5			_										
10				-									
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		_											
15							,						
												ļ	
20						Bottom of Bori	ng at 19 feet.	13'					
													
_													
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	\sqcup												



BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG SAMPLER

Report of Boring No. MW-13 Sheet I of 2

oject Location: Maestri Site Investigation Geddes, New York Itlient: Stauffer Management Company

Type: Split Spoon Hammer: 140 lb.

Ground Water Depth Depth Fall: 30" File No.: 3213.004.577 Date Date

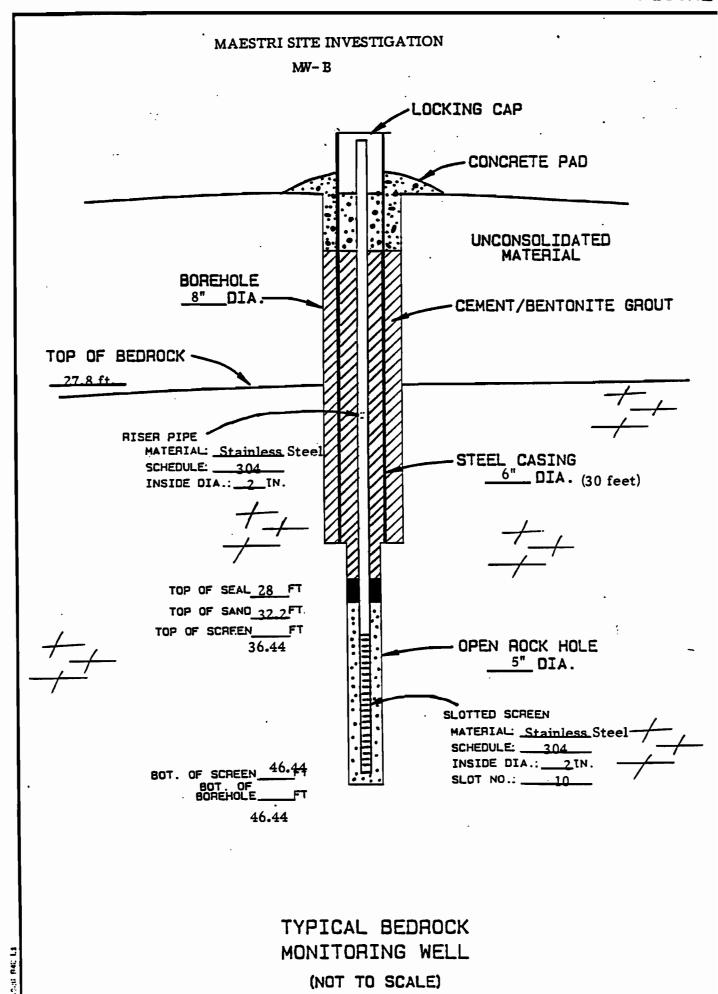
ing Co.: Parratt-Wolff, Inc. reman: Billy Rice remo Geologist: Dennis R. Theoret

Boring Location: Northern Corner of Site Ground Elevation: 404.6 Ft. Dates: Started: 7/2/90

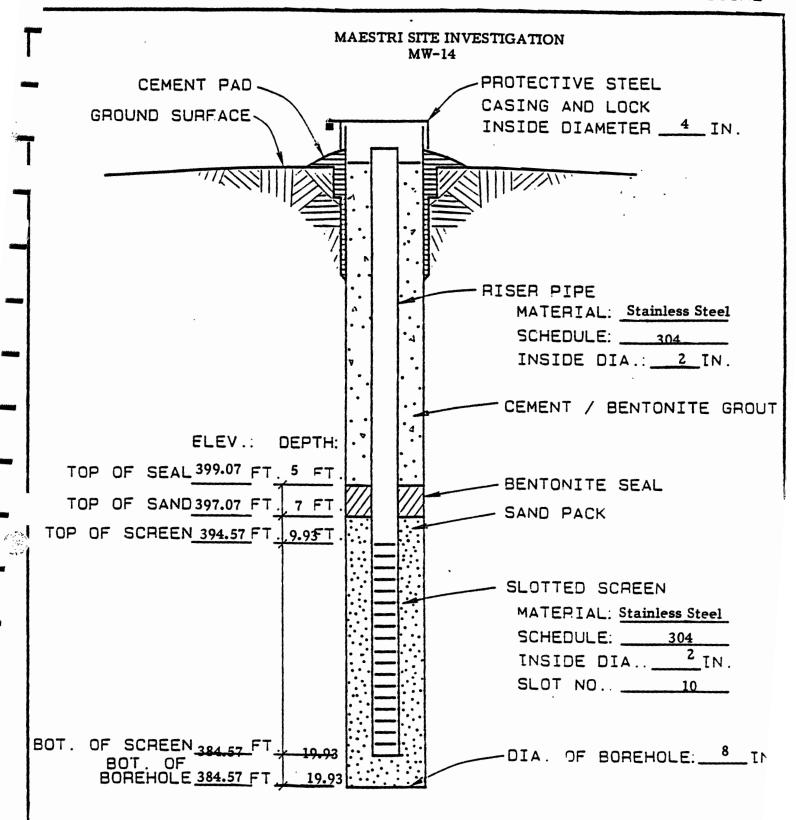
Ended: 7/4/30

	L		Sample	<u>'</u>		Sample	Stratum Change	Equipment	Fiel	ld Tes	ting	
pth 0	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Description	General Descript	Installed	рH	Sp Cond	HNU	
	1	01 -21	2/4/4/6	21/1.51	8	Brown and tan, dry, loose, silty, fine to medium SAND, trace fine to coarse gravel					RG	
						, , , , , , , , , , , , , , , , , , , ,						
						-						
5												
	2	יד- יכ	12/16	21/1.31	29	Reddish brown (pred.), gray, light green, very moist, medium dense, fine to coarse					PG	
			13/10			GRAVEL and fine to very coarse SAND, some cobbles, gravel is well-rounded, very						
						difficult augering						
10						;						
	3	10' -	22/29	1.51/	32	Same as above, very dense		•			BG	
		11.5	63	1.3								
15							`					
	4	15*-	41/42	1.91/	76	Same as abov⊵, saturated, augering easier					BG	i
		16.91	34/50/.4	1.91								
20												
	5	201-221	13/17	21/.751	37	Same as above, dense					BG	į
			20/28			Doub and doub board CLOV soon reheaded	22.51				BG	
	6	231 -	30/56	1.51/	171	Dark red, damp, hard CLAY, some embedded well rounded, coarse to very coarse sand and fine to coarse gravel, sand size olive					100	,
25	٦	24.51	115	1.41	1/1	green shale fragments noted (TILL)						
	7	251-261	34/187	11/.81	221	Same as above					86	;
	Н						27.81					
	8	281-291				Olive green, dry, non-calcarreous SHALE, fissile, weathered (Vernon Shale), satin						
30	Н					spar gypsum (1/16 to 1/4 inch thick), noted as fracture fillings in rock						

EN	BRII GIN	EN &	GERE , INC.				TEST BORING LOG	Repor	t of Boring Sheet 2	No. M of 2	⊢ 13		
	_			Maestri S Geddes, N Management	ew York	tigati	on SAMPLER Type: Split Spoon Hammer: 140 lb. Fall: 30"	Ground Water File No.: 3	Depth	Dat Dat	:e		
337	ema:	3: E	lilly Rid	tt-Wolff, ce nnis R. Th			Boring Location: Nor Ground Elevation: 40 Dates: Started: 7/2/	4.6 Ft.		ed: 7	7/4/90		
				Sample			Sample	Stratum Change	Equipment	Fie	d Tes	ting	R
	th	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Description	General Descript	Installed	pH.	Sp Cond	HNU	k 5#
_							Note: 5" tricone drilling utilized 30-46.5						
							feet, black organic material noted in bedrock drilling water.						
3	5												
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; 4	5												
<u> </u>								46.51					
_	_						BG = Background Readings on PID						
Ļ	i0						bo - background headings on Pib						
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BR	IEN NEER	& GERE S, INC.			į. S	TEST B	ORING LOG	Repo	rt of Boring Sheet I	No. M of 1	H−14		
Proje ien	ct L t: S	ocation: Stauffer	Maestri 9 Geddes, N Management	Site Inves New York t Company	tigatio	Type: Split Spoon Hammer: 140 lb.	MPLER Fall: 30"	Ground Wat File No.:	er Depth Depth 3213.004.577	Da:	te		
70 16 6	g Co an: eolo	.: Parra Billy Ri gist: De	tt-Wolff, ce nnis R. Th	Inc. secret			Boring Location: N Ground Elevation: Dates: Started: 7/	orthern Corne 404.5 Ft. 3/90	r of Site, Ad End	jacen ed:	t MW-13 7/3/90		
pth 0	-	Blows				Sa Desc	mple ription	Stratum Change General	Equipment Installed	Field Testing		ting	R
0	No	Depth	. /6"	Recovry		Augered to 19.9 feet See boring log Mw-13		Descript		bH	Cond	HNU	5
	İ					See boring log Mw-13	for descriptions.						
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TYPICAL OVERBURDEN MONITORING WELL

N.T.S.

Project Location: Maestri Site Investigation Sent Type: Split Spoon Geddes, New York Type: Split Spoon File No.: 3213.004.577

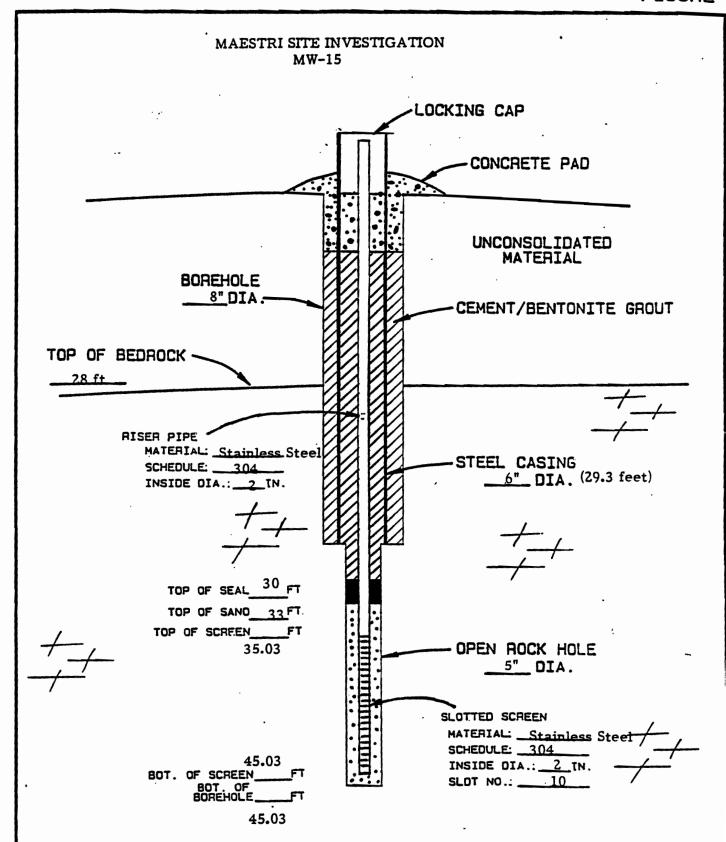
Project Location: Maestri Site Investigation Type: Split Spoon Bepth Date Type: Stauffer Management Company Hammer: 140 lb. Fall: 30" File No.: 3213.004.577

ing Co.: Parratt-Wolff, Inc. reman: Billy Rice 1786 Geologist: Dennis R. Theoret Boring Location: Fisher residence : 151 Alhan Parkway Ground Elevation: 391.1 Ft. Dates: Started: 6/27/90 Ended: 6/29/90

	שם טכ	G Geologist: Dennis K. Theoret			Dates: Started: 6/27/90			Ended: 6/29/90							
Depth				Sample	D	µ 1	Sample		Stratum Change	Equipment	Fie	ld Tes	ting	R	
	0 Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Descr	ription		General Descript	Installed	рH	Sp Cond	HNU	к 5£
		1	י2- י0	1/4/6/15	21/1.251	10	Brown, dry, stiff SIL into brown, dry, silt	T and CLAY grading, very fine SAN	ng D					BB	
·							Gray, dry, loose, sil little medium to coar	lty very fine SAN	D,	1.51					
							little medium to coar	rse gravei (FILL)							
	5			•							<i>.</i>				
		5	י7- י5	6/13	21/1.51	30	Reddish brown, very	moist, hard SILT,	and					BG	
				17/24			fine to medium SAND, and fine to medium gr	avel (FILL)	sano						
-	10														
		3	10' -12'	22/38	2' /1.17'	76	Dark red (pred.), tar	o. grav. brows. b	lack.					FG	
•				38/42			saturated, very dense coarse SAND and fine	, coarse to very						1	
ł							little silt -As augers advanced f well rounded oblate-s	from 10-15 feet, :	noted		-				
ļ							Mell Loguden opiate-	maped coontes							
	15														
-		4	ידו- ידו	25/37	21 /.751	75	Same as above, trace	calcite noted						PG	
				38/41											
-		Н													
-	20														
		5	201-211	31/62	יל-75י	93	Same as above, dark r	red in color						BG	
		Ц													
		_	221 . 241	07/50	49.4			8. N.		231					
	25	D	231 -241	27/50	1' /.75'	//	Dark red, damp, silty coarse to very coarse coarse gravel, gravel	e sand and fine to	0					RG	
		7	25' -26'	20/51	1'/1'	71	angular shale fragmer	nts noted (TILL)							
										28'					
		8	281 -291	42/52	יי22./יו	34	Olive green, non-cald weathered (Vernon Sha	careous SHALE, fi	ssile,	-5				B6	
i	30														
ŀ							Make. Et huisans de	.:11inn							L

Note: 5" tricone drilling utilized 30 to 45 feet, black organic material noted in bedrock drilling water.

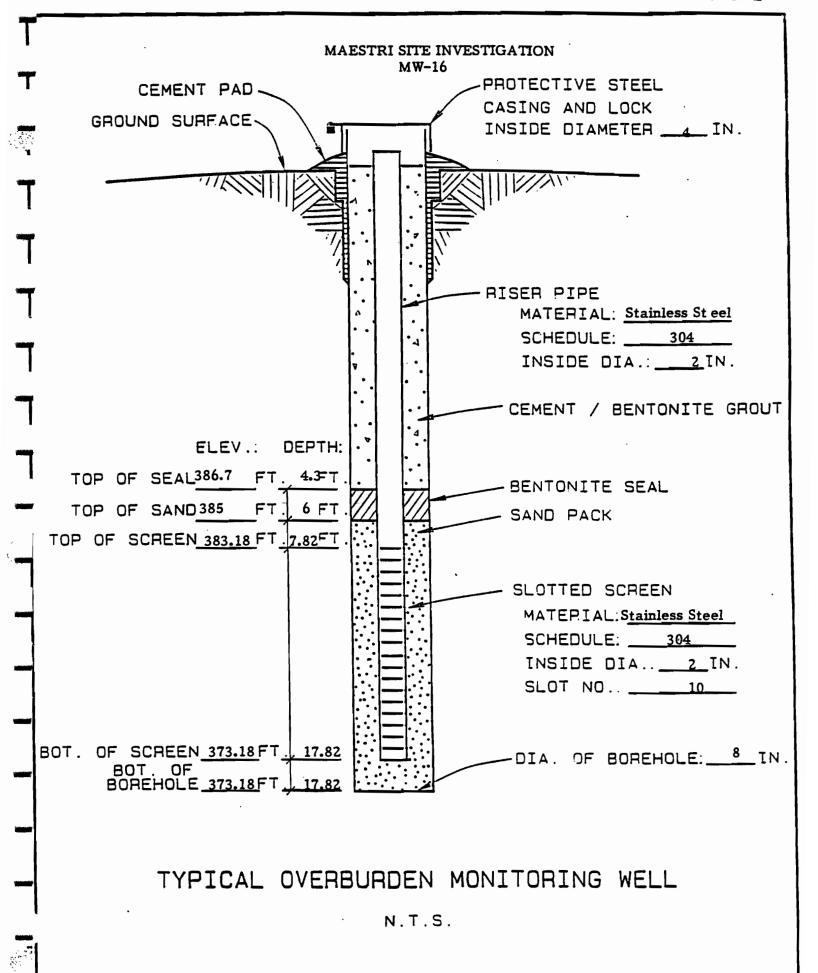
Report of Boring No. MW-15 Sheet 2 of 2 BRIEN & GERE GINEERS, INC. TEST BORING LOG Project Location: Maestri Site Investigation Geddes, New York SAMPLER Ground Water Depth Date Type: Split Spoon Depth Date ient: Stauffer Management Company Hammer: 140 lb. Fall: 30" File No.: 3213.004.577 ing Co.: Parratt-Wolff, Inc. Boring Location: Fisher residence : 151 Alhan Parkway Ground Elevation: 391.1 Ft. Dates: Started: 6/27/90 Ended: 6/29/90 3G Geologist: Dennis R. Theoret Sample Stratum Field Testing Sample Change Equipment epth "N" Sp Blows Penetr/ Description Installed k General Recovry HNU No Depth /6" Value Descript рH Cond Sŧ 35 40 45 451 Bottom of Boring at 45 feet BG = Background Readings on PID



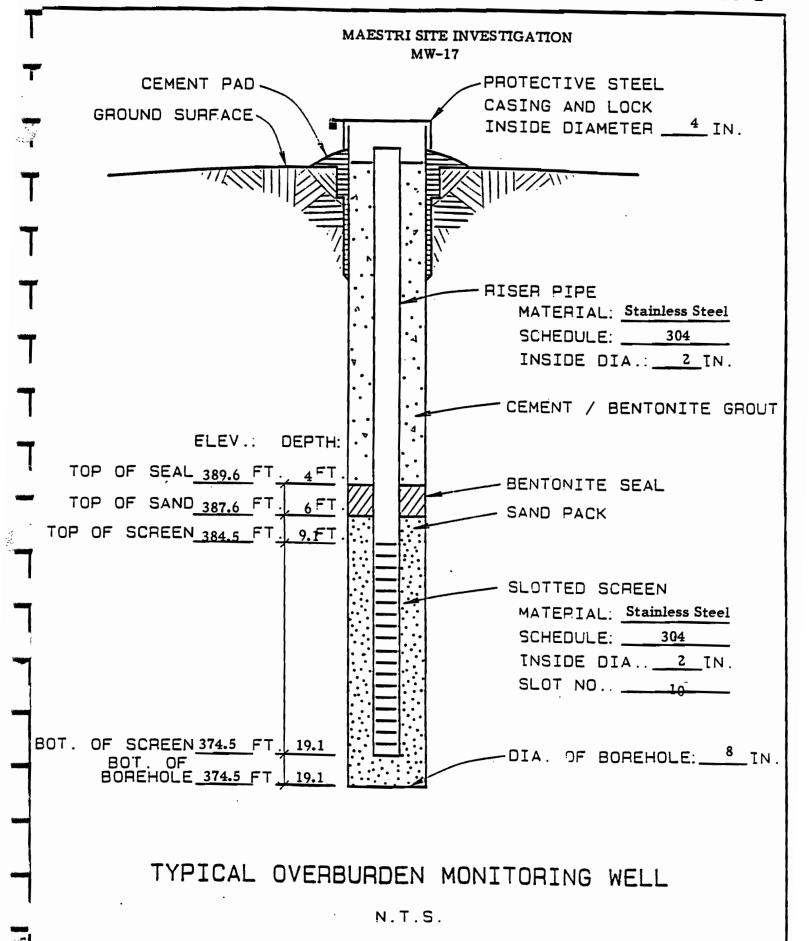
TYPICAL BEDROCK MONITORING WELL (NOT TO SCALE)

2.48 P46 L1

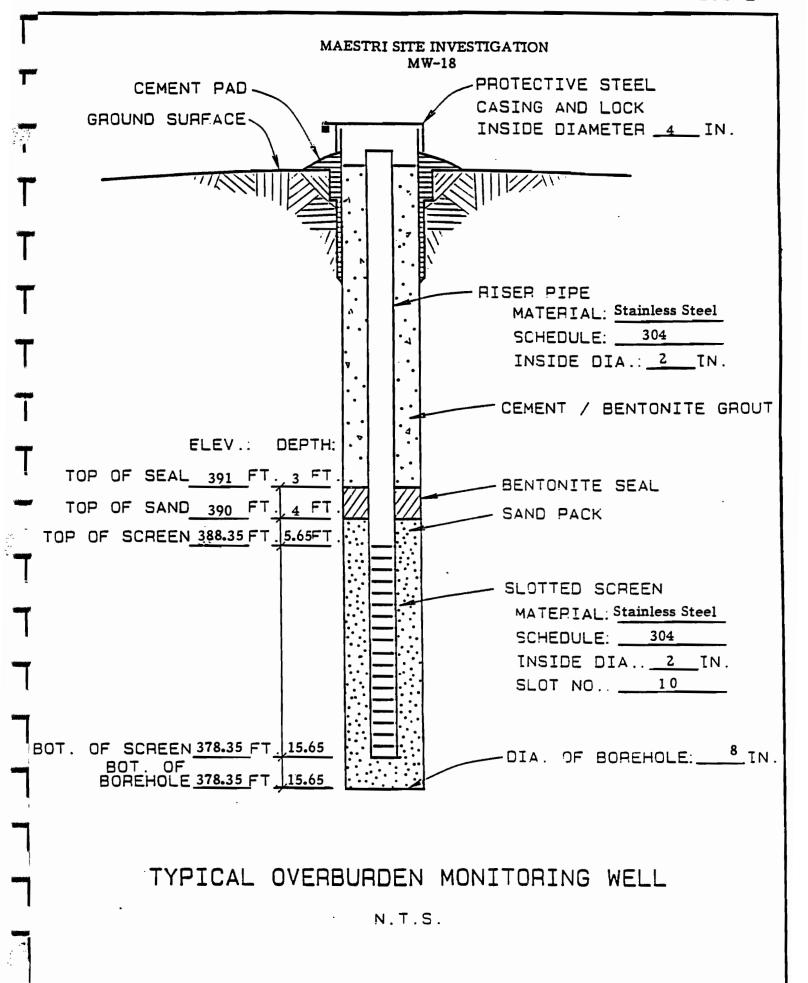
O'BRI ENGIN	EN 1	GERE				TEST BORING LOG	Repor	t of Boring Sheet I	No. M	¥−16		
jec	t Lo	cation:	Maestri S Geddes, N Management	lew York	tigati	on SAMPLER Type: Split Spoon Hammer: 140 lb. Fall: 30"	Ground Wate	Depth	Da Da			
ng 086 Ge	Co. n: B	: Parrat illy Ric ist: Der	t-Wolff, ce mis R. Th	Inc. eoret		Boring Location: Fi Ground Elevation: 3 Dates: Started: 6/2	sher residence 91.0 Ft. 3/90	e : 151 Alha End	n Pari	kway 5/28/90		
		-	Sample				Stratum		Fie	ld Tes	ting	R
Depth O	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Sample Description	Change General Descript	Equipment Installed	рH	Sp Cond	HNU	# k 5¥
						Augered to 17.8 feet without sampling. See boring log MH-15 for descriptions.						
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BRIEN & GERE Report of Boring No. MW-17 Sheet 1 of 1 ENGINEERS, INC. TEST BORING LOG pject Location: Maestri Site Investigation SAMPLER Ground Water Depth Date Geddes, New York Type: Split Spoon Depth Date Client: Stauffer Management Company Hammer: 140 lb. Fall: 30" File No.: 3213.004.577 Boring Location: Cook residence : 149 Alhan Parkway Ground Elevation: 393.6 Ft. .ng Co.: Parratt-Wolff, Inc. reman: Billy Rice USB Geologist: Dennis R. Theoret Dates: Started: 7/2/90 Ended: 7/2/90 Sample Field Testing Stratum Sample Change Equi pment oth Blows Penetr/ "N" Description General Installed Sp k Recovry No Depth /6* Value HNU Descript pΗ Cond 56 01-21 2/5 21/1.31 Brown, damp, stiff SILT, little clay, little fine to coarse sand, little fine to BG 3/4 coarse gravel 21 Reddish brown, very moist, very dense, coarse to very coarse SAND and fine to medium GRAVEL, little very fine to fine sand, little coarse rounded gravel 5'-7' 21/1.81 33/43 69 0.7 26/27 Saturated at 8.5 feet 10 10' -52 .51/.51 Same as above 2.2 10.5 15' -16' 19/55 11/11 74 Same as above, trace silt 0.8 (Approximate) 17' Light green, damp CLAY, little coarse to very coarse sand (auger sample) (TILL) BG = Background Readings on PID HNU Readings are in PPM.

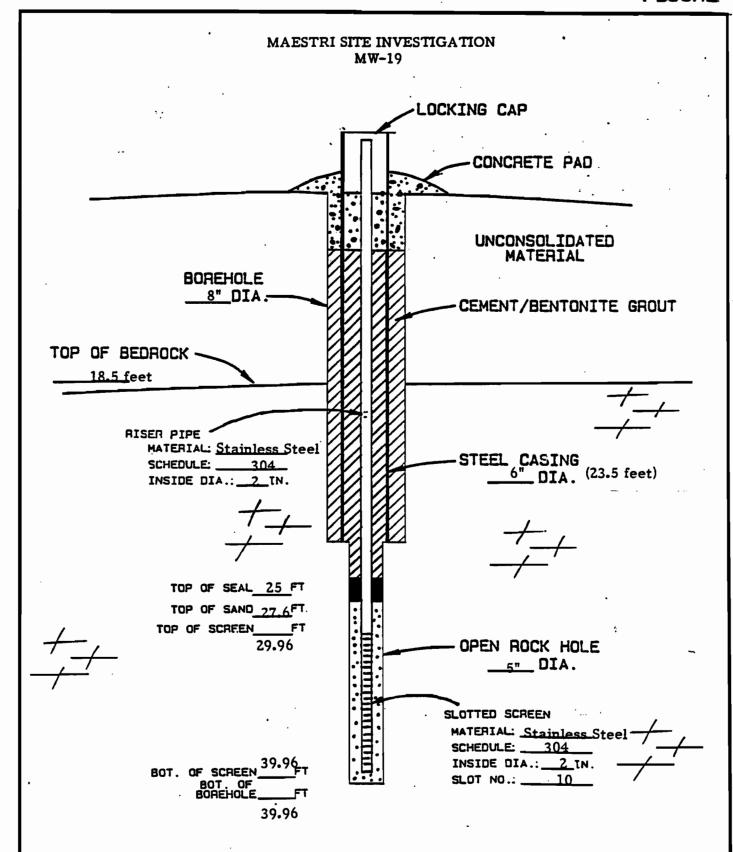


BRI ENGIN	EN L	GERE S, INC.				TEST BORING LOG	Repo	rt of Boring Sheet I	No. MH-18 of 1				
**************			Maestri S Geddes, N Management	Site Inves New York Company	tigati	on SAMPLER Type: Split Spoon Hammer: 140 lb. Fall: 30"	Ground Wat	er Depth Depth 3213.004.577	Date Date				
ena ing	Co.	: Parrat	t-Wolff,	Inc.		Boring Location: Gr Ground Elevation: 3 Dates: Started: 7/1	imsley resid 94.0 Ft.	ence : 145 A1	han Parkway ed: 7/10/90				
			Sample	-			Stratum	Field Testing					
o th	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Sample Description	Change General Descript	Equipment Installed	Sp k k				
			_			Augered to 15.7 feet without sampling. Se boring log MW-19 for descriptions.	2						
5													
_	Н		_										
10													
			-										
					-								
15													
						Bottom of Boring at 15.7 feet.	15.7						
20													
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BRIEN & GERE Report of Boring No. MW-13 Sheet 1 of 2 ENGINEERS, INC. TEST BORING LOG ject Location: Maestri Site Investigation SAMPLER Ground Water Depth Date Geddes, New York Type: Split Spoon Depth Date Client: Stauffer Management Company Hammer: 140 lb. Fall: 30" File No.: 3213.004.577 .ng Co.: Parratt-Holff, Inc. Boring Location: Grimsley residence : 145 Alhan Parkway Bround Elevation: 394.0 Ft. eman: Billy Rice Too Geologist: Dennis R. Theoret Dates: Started: 7/9/90 Ended: 7/10/90 Sample Stratum Field Testing Sample Equi pwent Change Blows. Penetr/ Description General Installed Sp 7 /6" Depth No Recovry Value Descript рH Cond HNU 5# 01-21 3/3/3/10 21/1.51 Dark, brown, moist, medium stiff, fine, sandy SILT, little medium to coarse gravel BG 1.81 Reddish brown, moist, very dense, coarse to very coarse SAND, some fine to coarse gravel and cobbles, trace silt, trace very fine to medium sand (auger sample) 3 5.0 30/0 0/0 10 10' -35/48 Reddish brown, saturated, very dense, coarse to very coarse SAND and fine GRAVEL, 1.31/ 9G 11.91 41/50/.4 little very fine fine to medium sand, trace 1.31 silt 14.5 Dark red, damp, hard CLAY with some BB 15' -17' 11/15 embedded very coarse sand and fine gravel 21/1.21 34/43 15.5 Olive green, damp, hard CLAY with some BG 17' -19' 29/38 21/.91 embedded fine gravel-size fragments of Vernon Shale bedrock (TILL) 41/58 18.5 Gray and clive green, dry, non-calcareous SHALE, weathered, fissile (Vernon Shale), EG satin spar gypsum (1/4" thick) noted 201 -75/.2 .2/.2 filling rock fractures 20.21 Note: 5" tricone drilling utilized 23.5 to 40 feet, black organic material noted in bedrock drilling water

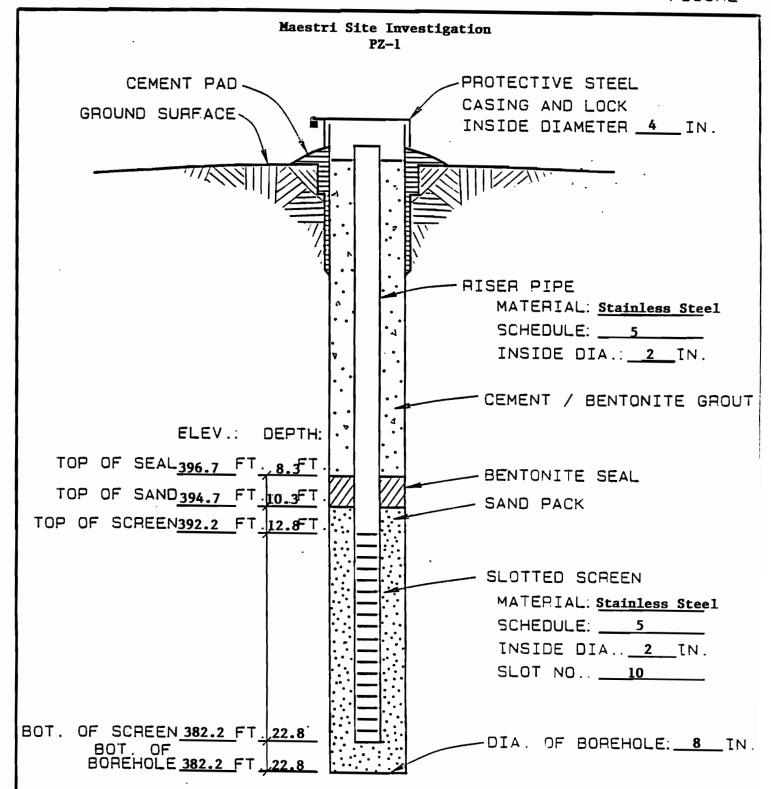
O'BRI ENGIN	EN 8	GERE , INC.			7 1)	TEST BORING LOG	Repor	rt of Boring Sheet 2	No. MH-13 of 2	_	
jec	t Lo	cation:	Maestri S Geddes, N	ite Inves ew York	tigatio	n SAMPLER Type: Split Spoon	Ground Wate	Depth	Date Date		
_			lanagement			Hammer: 140 lb. Fall: 30"		3213.004.577			
ose Ge Sema Ose Ge	n: B olog	: Parrat Billy Ric Dist: Der	t-Wolff, ce mis R. Th	inc. eoret		Boring Location: Gr Ground Elevation: 3 Dates: Started: 7/5	rimsley resid 394.0 Ft. 3/30	ence : 145 AI End	ed: 7/10/90		
			Sample			Sample	Stratum Change	Equipment	Field Testing		
Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value	Description	General Descript	Installed	pH Cond F	HNU S*	
35						•					
40							40'			•	
-						Bottom of Boring at 40 feet.					
						BG = Background Readings on PID					
						so - sacraji cama measings on ris					
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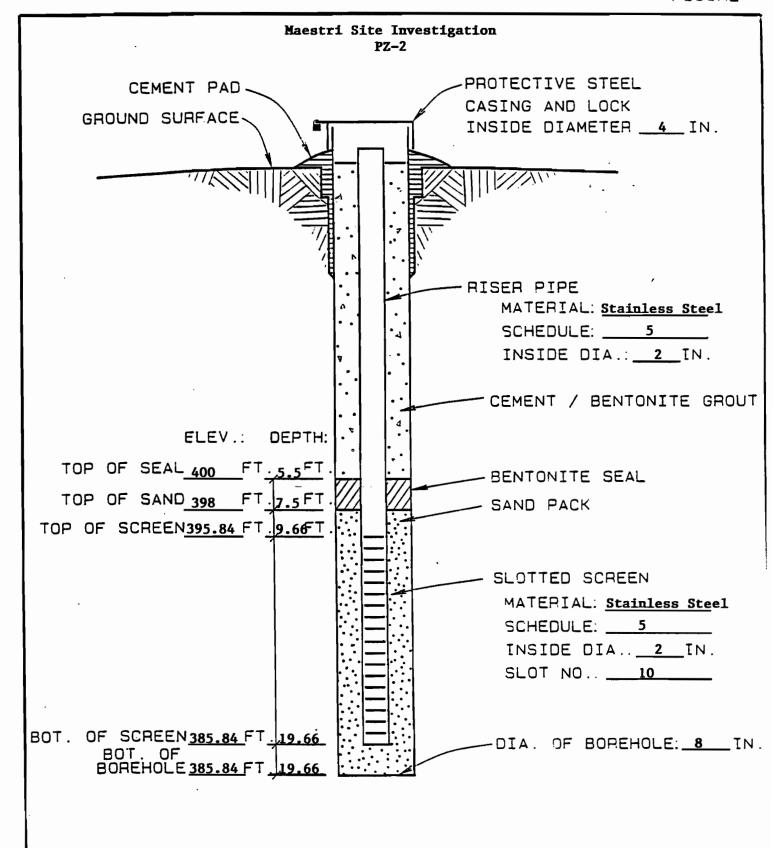
TYPICAL BEDROCK MONITORING WELL (NOT TO SCALE)

2.31 FAC L.1

	•			• •		•		•						
	O'BRII		GERE S, INC.				TEST B	DRING LOG	Repor	t of Boring Sheet 1		PZ-1		_
-	, ,			Maestri S Geddes, N Manag emen t	ew York	tigatio	Type: 2" Split Spo Hammer: 140 lbs.	MPLER on Fall: 30"	Ground Wate	Deoth	Da:			
	Foresa	n: f	imold C	tt-Wolff, nappel nnis Theor				Boring Location: 40 f Ground Elevation: Dates: Started: 10/2	t. north of 29/90		ed: :	10/29/9	0	
•				Sample			_		Stratum		Fie	ld Tes	ting	R
	Depth	No	Depth	Blows /6"	Penetr/ Recovry	"N" Value		mple ription	Change General Descript	Equipment Installed	рН	Sp Cond		k 5#
	0	1	0–21	4-6-7-8	21/0.81	13	Brown to reddish brow	m, moist and wet, fine and fine sand,	ĺ					
l							trace medium to coars	se gravel						
								_						
T														
ľ														
7	5	2	5-7'	9-25-	21/1.41		B_222_b_1	1	5.51					
Ī				22-30		} /·	Reddish brown, moist, coarse GRAVEL, some :	dense, medium to silt/clay, very fine						
_							to coarse sand							
Ī														
—												į		
	10	3	10-10.9	10-75/.4	0.9/0.9	85+	(Very hard augering 5	5.5 to 11.5', cobbles)						
-				- 1		 		,	11.5	!				
		4	12-141				Reddish brown to brown coarse GRAVEL. little	m, saturated, fine to very fine to coarse						
•							sand, trace silt		13.01					
		5	14-14.5	60/.5	0.5/0.5	50+	Brown and reddish bro	um dama madium ta	10.0					
L	15			50712	V. U. V. U	<u> </u>	coarse GRAVEL, little little silt	fine to coarse sand,						
_		6	16-18*	23-25-	21/1.71			rse GRAVEL and COBBLES						
Ļ				33-32			little very fine to v	very coarse sand, trace						
		7	18-201	33 32	21 /21		silt, saturated							
-		H	10 60		E. /£.	\vdash								
	20	8	20-21.9	10-21-	21 /1 04	100	Pundan &- 81 4-	COMP 5: 1						
7			FO. E1. 3	87-50/.4	21/1.21		brades to fine to coa coarse gravel	erse SAND, some fine to						
_		9	22-23.5			177	Name of the second	Ol OV	22.01					
		3	EE-E3. 3		1.5/1.2		Dark red, damp, hard very coarse sand and	CLAY, some embedded fine to coarse gravel						
		••	27 5	99-110		425								
-		10			1.9/1.9	127	(Bottom of boris	ng 25.4 ft.)						
			25.41	80-80/.4										
ļ		Ц												
		Ц												



O'BRIEN & GERE . ENGINEERS, INC. Report of Boring No. Sheet I of 1 PZ-2 TEST BORING LOG roject Location: Maestri Site Investigation SAMPLER Ground Water Depth Date Geddes, New York Type: 2" Split Spoon Depth Date TClient: Stauffer Management Company Hammer: 140 lbs. Fall: 30" File No.: 3213.004 oring Co.: Parratt-Holff, Inc. oreman: Arnold Chappel Boring Location: East of MW-6 Ground Elevation: 186 Geologist: Dennis Theoret Dates: Started: 10/31/90 Ended: 10/31/90 Sample Field Testing R Stratum Sample Change Equipment Blows epth Penetr/ "N" Description Installed General Sp k Death /6" No Recovry Value HNU Descript 뻐 Cond Sŧ 0-21 4-5-6-6 21/0.81 Brown and reddish brown, moist SILT and very fine to medium SAND, trace fine to 11 medium gravel 5-71 10-15-2 21/0.51 35 Same as above 20-2B 7.01 Dark red, moist, hard CLAY, some embedded fine to coarse gravel, trace coarse to very coarse sand 10-121 7-11-21/1.21 25 14-20 12-131 14-75 11/11 Greenish brown, saturated, very dense silty very fine to medium SAND interbedded with 5 14-16 11-12-21/21 reddish brown, medium to coarse gravel (12-131) 13-24 14.5 Reddish brown, saturated, medium dense, very fine to medium SAND, little silt At 16°, Grades to medium to coarse GRAVEL 6 16-181 and COBBLES, little medium to very coarse sand 18-19.9 17-30-1.9/1.91 19.01 24-50/.4 Dark red, damp, hard CLAY, some embedded coarse to very coarse sand and fine to 20 coarse gravel (Bottom of boring 19.9 ft.)



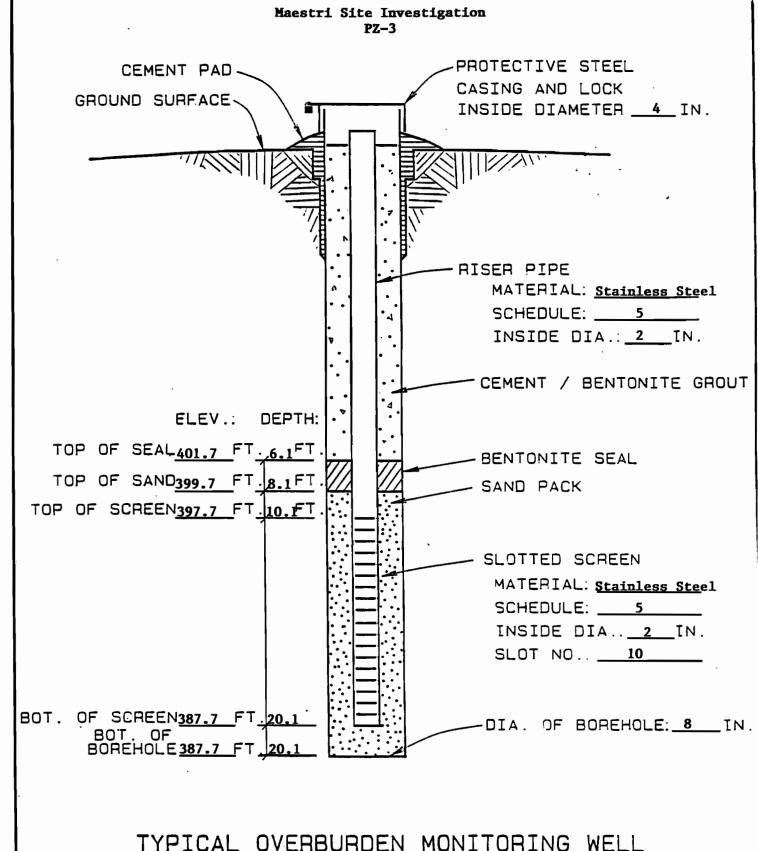
Ī	O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	Report of Boring No. PZ-3 Sheet 1 of 1
7		Type: 2" Split Spoon	Ground Water Depth Date Depth Date File No.: 3213.004

Boring Co.: Parratt-Wolff, Inc. Forewan: Arnold Chappel GBG Geologist: Dennis Theoret

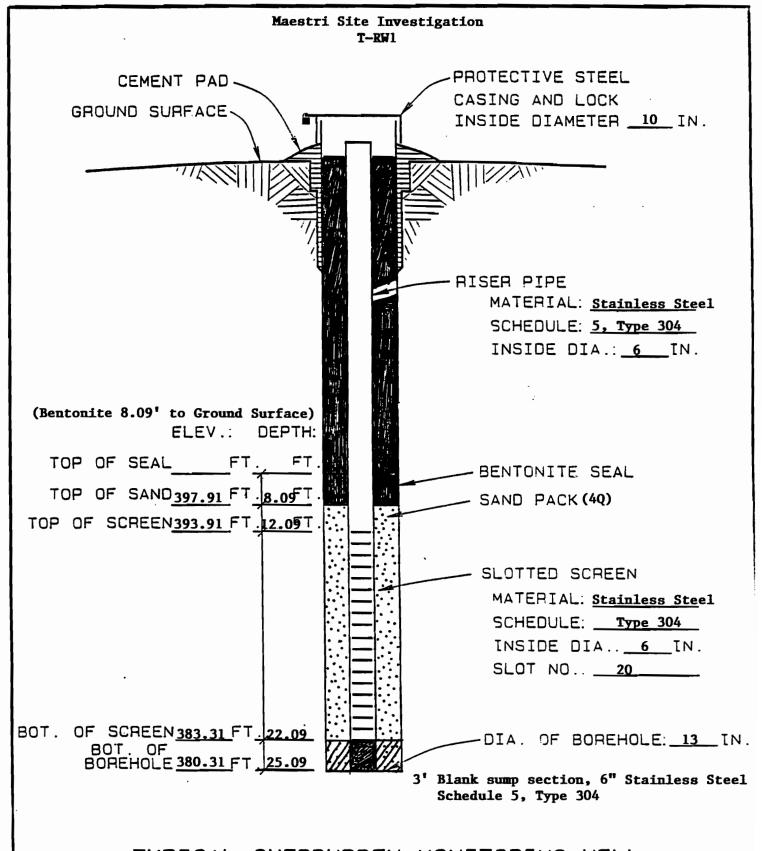
Boring Location: Southeast of NH-6 Ground Elevation: Dates: Started: 10/30/90

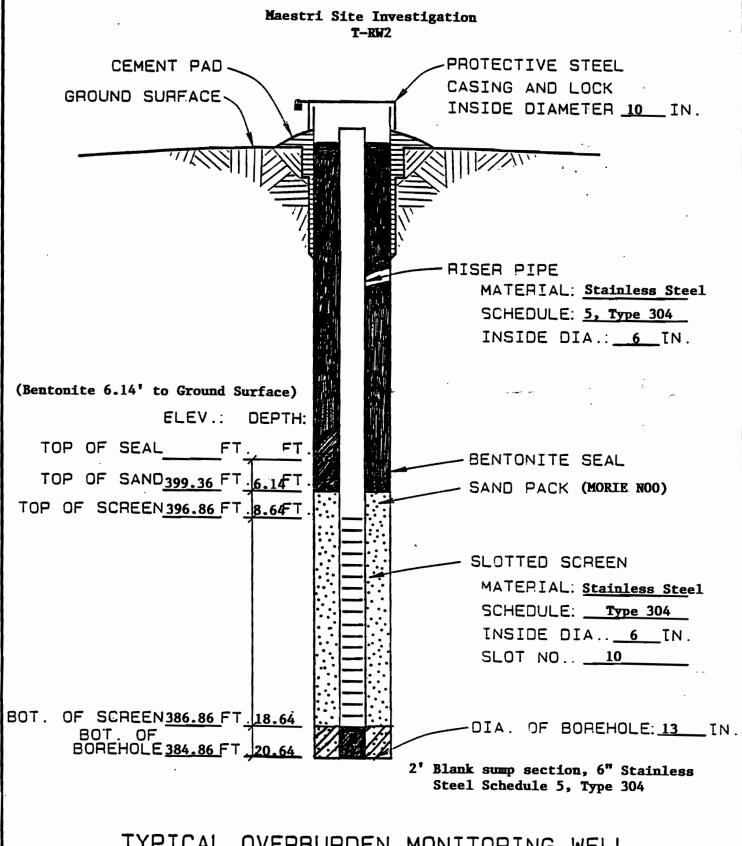
Ended: 10/30/90

'——										10, 50, 3	
•	h No Depth Blows Penetr/ Recovry					Sample	Stratus Change	Equipment	Fie	ld Tes	ting
Depth	No	Depth		Penetr/ Recovry	"N" Value	Description	General Descript	Installed	рH	Sp Cond	HMU
0	1	0-21	2-2-5-5	2' /0.8'	7	Reddish brown, very moist, stiff SILT, little very fine to medium sand, trace clay					
	2	2-41	5-7-6-4	21/0.91	13						
5	3	5-6.51	18-28-50	1.5'/1'	78		6. 0'				
					_	Reddish brown, moist, very dense, medium to coarse GRAVEL and very fine to coarse SAND, trace silt	:		•		
10	4	10-10.6	27-50/.1	0.6/0.6		Same as above		1			
	5	12-12.7	42-50/.2	0.7/0.7		Reddish brown, very moist, fine to medium SAND, trace coarse to very coarse sand (12.5')					
							14.5				
15	6	י75–17י	15-14-	י0/ י2	27	very fine to medium SAND, little silt					
	7	17-191	13-17 20-22-	21/21	47	Same as above					
	1	., .,	27-20	E- 7E-	71	Same as above					
	8	19-20.5	26-44-	1.5/1.5	124+						
20			86/.5			dense	21.09				
	9	21-231		21/1.61	80	Dark, red, damp, hard CLAY, some embedded coarse to very coarse sand and fine to		ļ			
			43-70			coarse gravel					
				·		(Bottom of boring 231)					
	П										
								1			
	H										
	1-1										



AL OVERBORDEN MONTIORING MELL





APPENDIX B

SOIL BORING LOGS - 1995

						TEST BORING LOG	REPO	ORT OF	BOR	ING
O'BF	IEN	& GEI	RE EN	GINEERS	, INC.		116.	B-12	DO.,	1114
Cilent	:	Maestr	ri Site			Sampler: 3" Split Spoon	Page 1 c			
Proj. L	.oc:	Lakela	nd, New	r York		Hammer: 140 lbs.	Location			
File No	•	5618.0	05			 Fail: 30"	1	te: 8/2/95 e: 8/2/95		
				ch Environn	nental \$	Services, Inc.	Screen		Grou	it .
Forem		ml a ke		Laramee O'Deli			Riser	1	l Pack	
OBG C	16010	gist:	Chawn	O Dell			Stratum		Bento	Onite Testing
Depth	I						Change		Over	
Below Grade	l	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	General	Equip.	Split	
Grade	140.	(1001)	/ /	licovery	Value		Descript	motanea	(ppm)	'
0	1	0-2	6-13	2.0/1.8	35	Pale reddish brown 10YR 5/4, dry, dense, very			0.0	0.0
			22-25			fine SAND, some silt, little subrounded to				
1						angular fine gravel, trace medium subrounded to angular gravel, trace medium and coarse				
					 	sand, poorly sorted, organics (plant roots).				
2	2	2-4	11-22	2.0/1.6	54	Pale reddish brown 10YR 5/4 with pale red 10R			0.0	0.0
3			32-38			6/2 mottling, dry, very dense, fine SAND, some medium subrounded to subangular sand,				
<u> </u>						little coarse sand, litle subrounded to				
						angular gravel, trace medium gravel, poorly				
4	3	4-6	12-22	2.0/1.0	44	sorted. Pale reddish brown 10YR 5/4, damp, dense,			45.2	280.0
			22-21			very fine SAND, some silt, some fine sand,				
5				_		little subrounded to angular fine gravel,				
<u> </u>						trace medium subrounded gravel, poorly sorted, moderate odor.]		
6	4	6-8	9-8	2.0/1.6	18	Grayish red 10R 4/2, damp, medium dense, fine	1		8.3	124.0
7	_		10-12			SAND, some silt to very fine sand, little				
						subrounded to angular fine to medium gravel, subrounded to subangular fine sand lense at		ŀ		
				_		approximately 7.0 to 7.5 ft., slight odor.	<u> </u>			
8	5	8-10	4-4 9-15	2.0/1.5	13	Grayish red 10R 4/2, moist, medium dense, subrounded to subangular, fine to medium			5.9	98.3
9			9-13			SAND, some silt, little fine to medium				
						subangular grvel, trace coarse subrounded to				
						subangular gravel, poorly sorted, slight odor.				
10	6	10-12	8-22	2.0/1.0	55	Grayish red 10R 4/2 with moderate greenish			9.3	108.0
			33-42			yellow 10Y 7/4, mottling, damp, very dense,		1		
11						fine to medium SAND, some subrounded to angular, fine to coarse gravel, little silt,				
						trace coarse sand, poorly sorted, slight				
- 10		10.11	22.52/2			odor.				
12	7	12-14	22-50/2	0.7/0.5		Brownish gray 5YR 4/1 with moderate red 5R 5/4 and yellowish gray 5Y 7/2 mottling (and			18.1	69.0
13						gravel), wet to saturated, extremely dense,				
						subangular to angular, fine to coarse gravel,				
					_	some fine to coarse sand, little silt, poorly sorted, slight odor.				
14	8	14-16	42/70/.4	0.9/0.5		Same as above.		i	16.5	174.0
15							İ			
									1	
16	9	16-18	50-80/.4	0.9/0.4		Brownish gray 5YR 4/1, saturated, extremely			41.3	161.0
17						dense, fine to coarse SAND, some subrounded to angular fine to coarse gravel and cobble				
						fragments, little silt, trace clay, poorly				
						sorted, moderate odor.				

						TEST BORING LOG	REP	ORT OF	ROH	IING
O'BR	IEN	& GEF	REEN	SINEERS	, INC.			B-12		
Client:		Maestr	i Site			Sampler: 3" Split Spoon	Page 2 c			
Proj. L	oc:	Lakela	nd, New	York		Hammer: 140 lbs.	Location			
File No). :	5618.0	05			Fall: 30"	End Date	te: 8/2/95 e: 8/2/95		
_		npany:	-		nental S	Services, Inc.	Screen		Grou	
Forema OBG G		alet.	Steve I Chawn	_aramee			Riser		Sand Bent	
	.00.0	9.0	1	 	-		Stratum		Field	
Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Change General Descript	Equip. Installed	Over Split Spoon	Hea Space
18	10	18-20	28-48	2.0/1.2	94	Pale brown 5YR 5/2, saturated, extremely	-		(ppm) 8.1	68.2
			46-38			dense, subrounded to angular, fine to coarse				1
19						GRAVEL, some subrounded to subangular, medium to coarse gravel, little fine sand,				
						trace silt, poorly sorted, slight odor.				
			l							l
										1
20	11	20-22	29-71	2.0/1.0	109	Pale brown 5YR 5/2, saturated, extremely			7.3	22.0
21			38-42			dense, subrounded to angular, medium to coarse GRAVEL, some fine gravel and angular				l
-21					_	cobble fragments, little medium to coarse				ļ
						sand, trace silt to fine sand, poorly sorted,				
						slight odor.				
22	12	22-24	28-40	2.0/1.0	60	Pale brown 5YR 5/2 to brownish gray 5YR 4/1,			1.8	3.4
			20-19			saturated, very dense, subrounded to]			
23						subangular, medium to coarse GRAVEL, some subrounded to subangular medium to coarse				
24						sand and fine gravel, little fine sand, trace				
						silt, poorly sorted, no apparent odor.				
25										
26										
					_					İ
27										
28										
					_					
29										1
30										
31								ì		
-										
32								1		
33										
									Ĭ	
34								1		ļ
35										ı
	_ +									
	-									
36	-	- 1	1		- 1		1		- 1	
36										

						TEST BORING LOG	REPO	ORT OF	BOR	ING
O'BF	IIEN	& GEI	RE EN	GINEERS	, INC.	<u> </u>		B-13		
Client	:	Maestr	ri Site			Sampler: 3" Split Spoon	Page 1 o			
Proj. L	Loc:	Lakela	ınd, New	v York		Hammer: 140 lbs.	Location	1=		
'						F-11- 004	1	te: 8/3/95		
File No		5618.0		ch Environn	nental !	Fail: 30" Services, Inc.	End Date Screen	e: 8/3/95	Grou	ıt
Forem	nan:		Steve L	Laramee		2017 (200,	Riser	H		d Pack
OBG C	jeolo	gist:	Chawn	O'Dell		_				onite
Depth							Stratum Change		Field 7	Testing
Below			Blows	Penetr/	*N*	Sample Description	General	Equip.	Split	Head
Grade	No.	(feet)	/6*	Recovery	Value	,	Descript	Installed		
لبا	<u> </u>			<u></u>	ļ				(ppm)	, ,, ,
0	1	0-2	NA-Grab	NA NA	NA	Light brown 5 YR 6/4, dry, very fine SAND, some silt, little subrounded to subangular,			0.0	0.0
1						fine to medium gravel, trace organics (plant				
						roots), poorly sorted.				
2	2	2-4	NA-Grab	NA	NA	Grayish brown 5YR 3/2, dry, fine to medium			0.0	0.0
3			 			SAND, some very fine sand, little silt, little subrounded to subangular, fine to medium				
						gravel, poorly sorted.				
4	3	4-6	3-4	2.0/1.4	7	Light brown 5YR 5/6 and modrate brown 5Y 4/4			0.0	0.0
5			3-3			mottling, moist, loose SILT, some subrounded to subangular fine to medium sand, little				
						subrounded to subangular fine gravel, trace				
				20/10		clay, poorly sorted.				
6	4	6-8	2-3 3-3	2.0/1.2	6	Dark yellowish brown 10YR 4/2 and dark yellowish orange 10YR 6/6 and pale olive 10Y			0.0	0.0
7						6/2 mottling, very moist, loose SILT to fine		J		
						SAND, some medium to coarse sand, little				
						subrounded to subangular, fine to medium				
8	5	8-10	3-2	2.0/1.3	6	gravel, trace coarse subrounded gravel. Same as above.			0.0	0.0
			4-5							i
9	\longrightarrow	——	\longrightarrow					ĺ		
10	6	10-12	3-4	2.0/1.0	9	Light brown 5YR 5/6 and dark yellowish orange			0.0	0.0
			5-4			10YR 6/6 mottling, saturated, loose,				
11						subrounded to subangular, fine to coarse				
	\rightarrow				_	SAND, some subrounded to angular, fine to medium gravel, little subrounded to angular,				
						coarse gravel, trace silt, poorly sorted.				
12	7	12-14	45/0.4	0.4/0.3		Very little recovery - moderate brown 5YR			0.0	0.0
13	\rightarrow		-			4/4, saturated, extremely dense, cobbles, some subrounded to angular, fine to coarse				
						gravel, little fine to coarse sand, trace				
	_	1116	50/0.0	20/00		silt, poorly sorted.				
14	8	14-16	50/0.3	0.3/0.3		Moderate brown 5YR 4/4, saturated, extremely dense, cobbles and gravel in spoon, little			0.0	0.0
15						silt to coarse sand, poorly sorted.				
16	9	16-18	50/0.2	0.0/0.0		1 this control backer exhibit fragments				~ ^
16	-	10-10	50/0.2	0.2/0.2		Little recovery, broken cobble fragments (angular, fine to coarse).			0.0	0.0
17	\rightrightarrows									
18	10	18-19	50/0.1	0.1/0.1		Non-Pitale Angular cabble				
18	10	18-19	50/0.1	0.1/0.1		Very little recovery. Angular cobble fragments.			0.0	0.0
19	11	19-20	50/0.2	0.2/0.2		Very little recovery. Angular coarse/large			0.0	0.0
20	\longrightarrow					cobble fragments.				
20	\rightarrow	$\overline{}$								
The bore	hole w	as backfil	led with so	oil cuttings.						

						TEST BORING LOG	REPO	ORT OF	BOR	ING
О'ВЯ	IEN	& GEF	REEN	GINEERS	, INC.			B-14		
Client	:	Maestr	l Site			Sampler: 2" Split Spoon	Page 1 c			
D		1 -11-		. V4-		11	Location	:		
Proj. L	.oc:	Lakela	nd, New	YORK		Hammer: 140 lbs.	Start Dat	e: 8/3/95	:	
File N	o.:	5618.0	05			Fall: 30"	End Date			
Boring	Con	npany:	Op-Tec	h Environn	nental S	Services, Inc.	Screen	= 1	Grou	
Forem				_aramee			Riser		Sand	
OBG C	ieolo	gist:	Chawn	O'Dell			Chumbron		Bento	
Depth							Stratum Change		Field 1	Festing I
Below		Depth	Blows	Penetr/	"N"	Sample Description	General	Equip.	Split	Head
Grade		(feet)	/6"	Recovery	Value	· · · · · · · · · · · · · · · · · · ·		Installed		
									(ppm)	(ppm
0	1	0-2	3-8	2.0/1.6	18	Moderate brown 5YR 4/4, dry, medium dense			0.0	0.0
			10-14			SILT, some fine sand, little subangular, fine	[
1						to medium gravel, trace medium to coarse				
2	2	2-4	3-7	2.0/1.7	15	sand, poorly sorted.			0.0	0.0
		27	8-14	2.0/1.7	15	Light brown 5YR 5/6, damp, medium dense, fine to medium SAND, well sorted.			0.0	0.0
3						to modition of the first of the				
4	3	4-6	7-10	2.0/1.2	24	Moderate brown 5YR 5/6, damp, medium dense,			0.0	0.0
5			14-19			fine to medium SAND, some silt, little subrounded to subangular, fine gravel, poorly	ĺ			
<u> </u>						sorted.				1
6	4	6-8	10-18	2.0/1.3	38	Moderate brown 5YR 4/4, damp, dense, fine			0.0	0.0
			20-32			SAND, some angular, fine to coarse gravel				
7_						(cobble fragments), little silt, trace				
						subrounded, medium to coarse sand, poorly sorted.				
8	5	8-10	9-18	1.9/1.9	81	Pale brown 5YR 5/2, damp, exremely dense,			0.0	0.0
			63-61/.4			fine to medium SAND, some subangular to				
9						angular gravel, little medium to coarse sand,				
10	6	10-12	2-40	1.8/1.2	96	trace silt, poorly sorted. Moderate brown 5 YR 3/4, damp, extremely			0.0	0.0
''		,,,,,	56-42/.3	1.0/1.2		dense, fine to medium SAND, some angular,		1	0.0	0.0
11				_		fine to coarse gravel, little subrounded to				
						subangular coarse sand, trace silt, poorly				
\vdash				_		sorted.				
12							' I			
13							1			
<u> </u>										
14										
							1			
15										
16										
										
17										
18										
19										
20										
	\Box			9 - 44						
ine pore	uole w	ras dack f	iiiea with s	soil cuttings.						

******	& GFF					1			
		(E ENC	GINEERS	INC.			B-15		
:	Maestr	l Site			Sampler: 2" Split Spoon	Page 1 o			
.oc:	Lakela	nd, New	York		Hammer: 140 lbs.	Location	•		
0.:	5618.00	05			Fall: 30"				
Con		Op-Tec		ental S		Screen		Grou	
	alst:					Riser		J .	
}						Stratum		Field 7	Testing
	Depth	Blows	Penetr/	*N*	Sample Description		Egulo.	l	Head
No.	(feet)	/6 "	Recovery	Value					
					<u> </u>				(ppm
1	0-2		2.0/1.3	9				0.0	0.0
					angular to subangular, fine to medium gravel,	}			
2	2-4	4-5	2.0/1.6	11	trace organics (plant roots). Moderate brown 5YR 4/4, dry, medium dense.			0.0	0.0
_		6-5	2.071.0		fine SAND, some subrounded to subangular,				"
			_		medium sand, little silt, well sorted.				
3	4-6	3-3	2.0/1.6	6	Pale brown 5YR 5/2, moist, loose, subrounded]		0.0	0.0
		3-5			to subangular, fine SAND, some very fine sand				
					fine gravel, trace medium to coase sand,				
			2011.5		trace clay, poorly sorted.				١
4	6-8	4-7 7-9	2.0/1.5	14				0.0	0.0
					silt, little subangular to angular, fine				
					sorted.				
5	8-10		2.0/1.9	7			ĺ	0.0	0.0
					some very fine sand, little silt, well				
6	10-12	6-7	2.0/0.0	15		1		NA	NA
		8-6			spoon tip.		ĺ		
7	12-14	5-5	2.0/1.8		•			0.0	0.0
		6-5							
					sorted.				
		_							
	o.: g Contain: geolo No. 1 2 3 4 5 6	0.: 5618.00 g Company: lan: Geologist: Depth No. (feet) 1 0-2 2 2-4 3 4-6 4 6-8 5 8-10 6 10-12	O.: 5618.005 G Company: Op-Tec Steve is Geologist: Chawn No. (feet) Blows /6" 1 0-2 3-4 2 2-4 4-5 6-5 3 4-6 3-3 3-5 4 6-8 4-7 7-9 5 8-10 3-4 3-5 6 10-12 6-7 8-6 7 12-14 5-5	Co.: 5618.005 G Company: Op-Tech Environm Steve Laramee Chawn O'Dell No. (feet) Blows Penetr/ Recovery 1 0-2 3-4 2.0/1.3 2 2-4 4-5 2.0/1.6 6-5 3 4-6 3-3 2.0/1.6 3 3-5 4 6-8 4-7 2.0/1.5 7 12-14 5-5 2.0/0.0	Company: Op-Tech Environmental Steve Laramee Chawn O'Dell No. Company: Steve Laramee Chawn O'Dell	Company: Op-Tech Environmental Services, Inc. Steve Laramee Chawn O'Dell Depth No. (feet) /6" Recovery Value 1 0-2 3-4 2.0/1.3 9 Pale yellowish brown 10YR 6/2, dry, loose, fine to very fine SAND, some silt, little angular to subangular, fine to medium gravel, trace organics (plant roots). 2 2-4 4-5 2.0/1.6 11 Moderate brown 5YR 4/4, dry, medium dense, fine SAND, some subrounded to subangular, medium sand, little silt, well sorted. 3 4-6 3-3 2.0/1.6 6 Pale brown 5YR 5/2, moist, loose, subrounded to subangular, fine gravel, trace clay, poorly sorted. 4 6-8 4-7 2.0/1.5 14 Dark reddish brown 10R 3/4, moist, medium dense, fine SAND, some very fine sand to silt, little subrounded to subangular, fine gravel, trace medium to coase sand, trace clay, poorly sorted. 5 8-10 3-4 2.0/1.9 7 Same as above to 9.0 ft., then pale yellowish brown 10YR 6/2, saturated, loose, fine sand, some very fine sand, some very fine sand, some very fine sand, some very fine sand, ittle silt, well sorted. 6 10-12 6-7 2.0/0.0 15 No recovery. Large pieces gravel lodged in spoon tip.	Start Date (Start Date (Start Date (Start Date (Start Date (Steve Laramee)) and (Steve Laramee) Chawn O'Dell Depth Blows Penetr/ "N" Sample Description Stratum (Change (General Description)	Start Date: 8/3/95 Grompany: Op-Tech Environmental Services, Inc. Steve Laramee Chawn O'Dell Depth Slows Penetr/ Recovery Value Sample Description Stratum Change General Description	Start Date: 8/3/95 Start D

						TEST BORING LOG	REPO	ORT OF	BOR	ING
O'BR	IEN	& GEF	RE EN	GINEERS	, INC.			B-16		
Client	:	Maestr	i Site			Sampler: 2" Split Spoon	Page 1 c			
Proj. L	.oc:	Lakela	nd, New	York		Hammer: 140 lbs.	Location	1.		
'		E610 A	05			Eall. 20"	Start Date	te: 8/3/95		
File No		5618.0 npany:		h Environn	nental S	Fall: 30" Services, Inc.	Screen		Grou	t
Forem	an:		Steve L	aramee		•	Riser			Pack
OBG C	ieolo	gist:	Chawn	O'Deli	1	1	Stratum			onite Testing
Depth			ĺ]		Change	ĺ	Over	
Below			Blows	Penetr/	"N"	Sample Description	General	Equip.	Split	
Grade	No.	(feet)	/6"	Recovery	Value		Descript	Installed		'
0	1	0-2	15-16	2.0/0.2	28	Moderate reddish brown 10R 4/6, dry, medium			(ppm) 0.0	(ppm
	•		12-11			dense, fine to medium SAND, some silt, little				
1						subangular to angular gravel, poorly sorted.				ľ
2	2	2-4	5-6	2.0/1.9	12	Moderate yellowish brown 10YR 5/4, damp,			0.0	0.0
			6-8			medium dense, fine SAND, little very fine sand				l
3						to silt, trace subrounded to subangular gravel, poorly sorted.				
4	3	4-6	2-5	2.0/2.0	10	Pale brown 5YR 5/2, moist, medium dense, fine			0.0	0.0
5			5-5			SAND, little very fine sand to silt, well sorted.	,			
-						sorted.				
6	4	6-8	4-5 4-6	2.0/1.8	9	Pale yellowish brown 10YR 6/2 and moderate yellowish brown 10YR 4/2, moist to wet,			0.0	0.0
7						loose, fine SAND, some very fine sand, little		İ		
8	5	8-10	WOH-WOH	2.0/1.6	2	silt. Light brownish gray 5YR 6/1, wet, very loose,			5.9	26.6
		0.10	WOH-2	2.0, 1.0		medium SAND, some fine sand silt lenses from				
9						approximately 8.5 to 9.2 ft., well sorted.				
10	6	10-12	4-4	2.0/1.8	12	(slight odor) Dark yellowish brown 10YR 4/2, moist, medium			3.2	16.8
			8-12			dense, subrounded to subangular, fine to				ĺ
11						medium SAND, little very fine sand and silt, well sorted. (slight odor)				
12	7	12-14	9-22	2.0/0.9	44	Dark yellowish brown 10YR 4/2, saturated,			2.4	11.6
12			22-26			dense SILT to very fine SAND, little subrounded to subangular, fine to medium				
13						sand, trace caly, well sorted. (slight odor)				
14	8	14-16	10-15	2.0/1.8	36	Moderate yellowish brown 10YR 4/2, dense,			1.9	15.4
15		_	21-24			fine SAND, some silt, little subrounded to subangular, medium sand, well sorted. (slight				
						odor)				
16	9	16-18	9-18 20-20	2.0/1.9	38	Dark yellowish brown 10YR 4/2, saturated, dense, subrounded to subangular, fine to			0.0	5.9
17						medium SAND, little silt, poorly sorted.				
18	10	18-20	8-10	2.0/2.0	22	Dark yellowish brown 10YR 4/2, saturated,			0.0	0.0
10		10-20	12-15	2.0/2.0		medium dense, fine SAND, some subrounded to			"	0.0
19						subangular medium sand, little silt and clay,				
20						laminated clay seam from 19.0 to 19.3 ft., well sorted.				
The bore	nole w	as backfil	led with s	oil cuttings.						

O'BR						TEST BORING LOG	REPO	ORT OF	BORI	NG
	IEN	& GER	E ENG	INEERS,	INC.			B-17		
Client	;	Maestr	Site		***************************************	Sampler: 2" Split Spoon	Page 1 o			
Proj. L		Lakela:		York		Hammer: 140 lbs.	Start Date	te: 8/4/9		
Boring	Con	npany:	Op-Tec		nental S	Services, Inc.	Screen		Grou	
Forem OBG C	an:		-	Laramee O'Dell			Riser		Bento	Pack onite
Depth Below Grade			Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip.	Over Split Spoon	Head Space
0	1	0-2	8-6	2.0/1.7	14	Light brown 5YR 6/4, dry, medium dense SILT,			(ppm) 0.0	(ppm)
	<u> </u>		8-10	6.0 ,	 	some very fine sand, little subrounded to				
1						subangular medium to coarse sand, trace				
	 _	<u> </u> '	 '			medium subrounded gravel, trace organics				
2	2	2-4	4-6	2.0/0.8	16	(plant roots), poorly sorted. Moderate brown 5 YR 4/4, dry, medium dense,			0.0	0.0
			10-11			very fine SAND, some silt, little fine sand,				
3						trace subrounded fine gravel, poorly sorted.				
4	3	4-6	6-8	2.0/1.3	16	Same as above to approximately 5.0 ft., then			0.0	0.0
			8-12	2.010		moderate yellowish brown 10YR 5/4, damp,			J	0.0
5						medium dense, fine SAND, little very fine				
						sand to silt.				
6	4	6-8	4-11	1.9/1.5	56	Moderate yellowish brown 10YR 5/4 to pale			0.0	0.0
			44-50/.4	,		reddish brown 10R 5/4 to pale olive 10Y 6/2,				
7						damp, very dense SILT to fine SAND, some				
		\vdash				medium sand, little subangular coarse sand				
		-				and fine gravel, trace medium subrounded to subangular gravel, porly sorted.				
8	5	8-10	9-21	1.8/1.8	59	Pale brown 5YR 5/2, damp, very dense, fine to		l	0.0	1.2
			38-30/.3			medium SAND, some subrounded to subangular,				
9		\vdash			\vdash	coarse sand, little subangular to angular, fine to coarse gravel and cobble fragments,				
					\vdash	little silt, poorly sorted.				
10	6	10-12	NA NA	NA NA		No spoon collected. Augered through a boulder			NA	NA
						10 12.0 ft.				
11		\vdash			\vdash					
12	7	12-14	18-10	2.0/1.5	24	Grayish brown 5YR 3/2, moist, medium dense,			1.5	35.9
			14-17			subrounded to subangular, medium to coarse				
13					\vdash	SAND, some fine sand, little subangular to				
					$\overline{}$	angular, fine to medium gravel, trace silt, poorly sorted.				
14	8	14-16	19-20	1.8/1.5	50	Grayish red 5R 4/2, saturated, very dense,			4.3	53.1
15	\longrightarrow		30-50/.3		\longrightarrow	subrounded to subangular, medium SAND, some				
15	\rightarrow	\vdash			\vdash	coarse sand, little fine sand, trace silt, poorly sorted moderate odor.				
16	9	16-18	40-67	2.0/1.5	107	Moderate brown 5YR 4/4, light brown 5YR 5/6			6.2	25.6
17	\longrightarrow	\longmapsto	30-27			and pale clive 10Y 6/2 mottling, saturated,				
-''-		\vdash	-		\vdash	extremely dense, subrounded to angular, coarse SAND and fine GRAVEL, some fine to				
						medium sand, little silt, trace clay, trace				
\rightarrow	\dashv					subrounded to angular, medium gravel, poorly				
18	10	18-20	35-42	2.0/1.6	93	sorted. (moderate odor). Same as above, slight odor.			3.5	15.6
			51-47							
	\Box									
19_			17-22	2.0/2.0	60	Date reddich brown 108 5/4 moist very dense			0.0	0.8
	-44	20.00			ו טט	Pale reddish brown 10R 5/4, moist, very dense			0.0	0.0
20	11	20-22	38-66	2.0/2.0	-	SILT, some fine to medium sand, little	1		1 1	,
	11	20-22		2.0/2.0	-	SILT, some fine to medium sand, little subrounded to subangular coarse sand and fine				
20	11	20-22		2.0/2.0		-				

c: : Com	Maestr Lakela 5618.00	eccrement comment	GINEERS	, INC.	Sampler: 2" Split Spoon	Page 1 c	B-18		
: Com n:	Lakelar 5618.00				Sampler: 2" Split Spoon	Page 1 c	of 1		
: Com n:	5618.00	nd, New			- ampiere & opiniopeen	Location			
: Com n:	5618.00		/ York		Hammer: 140 lbs.	Location	ı.		
Com							te: 8/4/95		
n:	nanv:		h Environm	nental S	Fall: 30" Services, Inc.	End Date	e: 8/4/95	Grou	.+
oloe	.puy.		_aramee	ioinai c	501 V1003, 1110.	Riser	FI H		r i Pack
	gist:	Chawn	O'Dell				Bentonite		
								Field Over	Testing
	Depth	Biows	Penetr/	"N"	Sample Description	General	Split	1	
No.	(feet)	/6"	Recovery	Value		Descript	Installed	Spoor	Spac
									(ppm
1	0-2		2.0/2.0	8				0.0	0.0
					sand, well sorted.				
									ł
2	2-4	4-2	2.0/1.9	5	Same as above.			0.0	0.0
\dashv		3-2							
3	4-6	1-2	2.0/1.6	4	Moderate yellowish brown 10YR 5/4, moist,			0.0	0.0
-		2-3							
					33.132.				
4	6-8	2-3	2.0/1.7	6	Dark yellowish brown 10YR 4/2, loose, fine to	ı		0.0	0.0
-		3-4			* *				
5	8-10	2-3	2.0/1.9	13	Pale yellowish brown 10YR 6/2, to dark			1.9	10.4
\dashv		10-14					}		
					silt, trace subangular fine gravel, well				
_	10.10	44.45	2.0/2.0		sorted, slight odor.				
$\stackrel{\bullet}{ o}$	10-12		2.0/2.0					77.5	12.7
-	10.14	4.10	0.0/1.0		odor.			40.0	
'	12-14	12-15	2.0/1.9			1	- 1	12.8	273.0
<u>.</u>	14.16	16.10	2.0/2.0		odor.				
$^{\circ}+$	14-16	16-17	2.0/2.0	34	Same as above.	J		14.2	269.0
							J	ł	
9	18.18	14.25	20/14	20	Moderate brown EVP 4/4 paterated dense				057.0
*	10-10	14-25	2.0/1.4					6.7	257.0
\perp						ł			
10	18-20	15-21	2.0/1.8		-			3.2	7.3
		27-19			reddish brown 10R 5/4, moist, dense SILT,				
_					·				
+		-			•				
	1 2 3 3 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 0-2 2 2-4 3 4-6 4 6-8 5 8-10 6 10-12 7 12-14 8 14-16	1 0-2 6-4 1 0-2 6-4 4-3 2 2-4 4-2 3-2 3 4-6 1-2 2-3 4 6-8 2-3 3-4 5 8-10 2-3 10-14 6 10-12 14-15 17-18 7 12-14 4-10 12-15 8 14-16 16-18 16-17 9 16-18 14-25 14-15 0 18-20 15-21 27-19	1 0-2 6-4 2.0/2.0 1 0-2 6-4 2.0/2.0 2 2-4 4-2 2.0/1.9 3 4-6 1-2 2.0/1.6 2-3 4 6-8 2-3 2.0/1.7 3-4 5 8-10 2-3 2.0/1.9 10-14 6 10-12 14-15 2.0/2.0 17-18 7 12-14 4-10 2.0/1.9 12-15 8 14-16 16-18 2.0/2.0 16-17 0 18-20 15-21 2.0/1.8	No. (feet) /6" Recovery Value 1 0-2 6-4 2.0/2.0 8 4-3 2.0/1.9 5 3 4-6 1-2 2.0/1.6 4 2-3 2.0/1.7 6 3-4 6-8 2-3 2.0/1.7 6 3-4 5-8 10 2-3 2.0/1.9 13 10-14 5 2.0/2.0 32 17-18 7 12-14 4-10 2.0/1.9 22 12-15 7 12-14 4-10 2.0/1.9 22 12-15 7 12-15 32 16-18 14-25 2.0/2.0 34 16-17 39 16-18 14-25 2.0/1.4 39 14-15 7 12-19 7 15-21 2.0/1.8 48	1	1	1	1 0-2

						TEST BORING LOG	REPO	ORT OF	BOR	ING			
O'BF	HEN	& GEI	RE ENG	GINEERS	, INC.			B-19					
Client	:	Maesti	l Site			Sampler: 2" Split Spoon	Page 1 c						
Proj. I	_oc:	Lakela	nd, New	York		Hammer: 140 lbs.	Location	l•					
						F-11. 008	Start Date: 8/7/95 End Date: 8/7/95						
File N		5618.0 npany:		h Environn	nental S	Fall: 30" Services, Inc.	Screen		Grou	1			
Foren	-		•	_aramee			Riser			Pack			
OBG (Geolo	gist:	Chawn	O'Deli					Bento				
Depth			ĺ				Stratum Change	}	Field 1 Over	esting			
Below		Depth	Blows	Penetr/	"N"	Sample Description	General	Equip.	Split	Head			
Grade	No.	(feet)	/6"	Recovery	Value		Descript	Installed	Spoon	Space			
	ļ			2.24.2						(ppm)			
0	1	0-2	3-6 7-8	2.0/1.9	13	Moderate brown 5YR 4/4, dry, medium dense, veery fine SAND, some silt, little fine sand,			0.0	0.0			
1			' '			well sorted.							
2	2	2-4	8-8 8-7	2.0/1.7	16	Same as above, trace angular fine gravel.			0.0	0.0			
3													
4	3	4-6	3-2	2.0/1.6	5	Pale brown 5YR 5/2, wet, loose, fine SAND,			0.0	0.0			
-		4-0	3-5	2.0/1.0	3	some very fine sand, little silt, well sorted.		,	0.0	0.0			
5		_											
6	4	6-8	4-5	2.0/1.4	12	Moderate brown 5YR 4/4, wet, medium dense,			0.0	0.0			
	Ť	"	7-5	2.07.7.1		subrounded to subangular, medium SAND, some			***				
7						fine sand, little very fine sand to silt,							
8	5	8-10	1-1	2.0/1.9	2	poorly sorted. Grayish brown 5YR 3/2, wet, very loose,			0.0	0.0			
			1-1			subrounded to subangular, medium SAND, little							
9						fine sand, trace silt, well sorted.		1	ł				
10	6	10-12	4-4	2.0/1.1	10	Grayish brown 5YR 3/2, wet, medium dense,			0.0	0.0			
			6-8			subrounded to subangular, medium SAND, little							
11						fine sand to silt, trace subrounded to subangular, coarse sand, poorly sorted.		ł					
12	7	12-14	5-7	2.0/2.0	15	Grayish brown 5YR 3/2, wet, medium dense,			0.0	0.0			
13			8-10			subrounded to subangular, medium SAND, little fine sand, trace silt, trace subrounded to							
13						subangular, coarse sand, poorly sorted.							
14	8	14-16	8-9	2.0/2.0	17	Moderate brown 5YR 4/4, saturated, medium	ĺ		0.0	0.0			
15			8-10			dense, medium SAND, some fine sand, little silt, trace subrounded to subangular, coarse							
						sand, poorly sorted.							
16	9	16-18	25-40/.2	2.0/2.0		Same as above.			0.0	0.0			
17													
						_							
18	10	18-19	100/0.4	0.4/0.4		Same as above to 18.2 ft., then cobble/boulder fragments.			0.0	0.0			
19	11	19-20	43-50/.2	0.7/0.6	_	Auger to 19.0 ft. refusal. Drove the split			0.0	0.0			
20			_			spoon. Very fine, mostly through blow by. Pale green 10G 6/2, moist, extremely dense							
20						cobble fragments, (angular) and medium to							
21						coarse subrounded to subangular SAND,							
The hore	hole w	vae hackfii	lled with s	oil cuttings.		weathered (boulders/cobble).							

						TEST BORING LOG	REPO	ORT OF	BOR	ING
O'BF	RIEN	& GE	RE EN	GINEERS	, INC.			B-20		
Client	:	Maestr	i Site			Sampler: 2" Split Spoon	Page 1 c			
Proj. I	_oc:	Lakela	nd, New	v York		Hammer: 140 lbs.	Location	1.		
								te: 8/7/95		
File N		5618.0		ch Environn	nental S	Fall: 30" Services, Inc.	End Date	e: 8/7/95	Grou	
Foren	_	puny.		Laramee	ioinai c	761 V1003, 1110.	Riser		Sand	
OBG (Geolo	gist:	Chawn	O'Dell		<u> </u>			I	onite
Depth							Stratum		Field 1	esting
Below		Depth	Blows	Penetr/	"N"	Sample Description	Change General	Equip.	Over Split	Head
Grade	No.	(feet)	/6*	Recovery	Value	· · ·	Descript	Installed	, .	1
									(ppm)	(ppm
0	1	0-2	3-3	2.0/1.8	8	Light brown 5YR 6/4, dry, loose, very fine			0.0	0.0
1			5-6			SAND, some silt, little fine sand, well sorted, little organics (plant roots).				l
⊢ <u> </u>						sorted, mae organies (plant roots).				
2	2	2-4	6-6	2.0/2.0	14	Moderate brown 5YR 4/4, damp, medium dense,			0.0	0.0
3			8-9			subrounded to subangular, fine to medium sand, some silt, well sorted.				
ا ا						saild, some sitt, well softed.				
4	3	4-6	2-3	2.0/1.7	6	Moderate brown 5YR 3/4, damp to wet, loose,			0.0	0.0
5			3-2			fine SAND, some very fine sand to silt, well sorted.				
<u> </u>						sorted.				
6	4	6-8	4-6	2.0/1.5	12	Moderate brown 5YR 4/4, damp, medium dense,	}		0.0	0.0
7			6-7			medium SAND, some fine sand, little silt, well sorted.				
<u> </u>						wen sorted.				l
8	5	8-10	3-2	2.0/2.0	5	Moderate brown 5YR 4/4, damp, loose,			0.0	0.0
9			3-2			subrounded to subangular, medium SAND, some fine sand, little silt, poorly sorted.				
						mo sand, mas san, posity sortes.				
10	6	10-12	4-9	2.0/1.9		Moderate brown 5YR 3/4, damp, medium dense,			0.0	0.0
11			17-30	_		medium SAND, some fine sand, little subrounded to subangular, coarse sand, poorly				
						sorted.				
12	7	12-14	19-25	2.0/1.9		Same as above to approximately 13.0 ft., then			0.0	0.0
13	\dashv		26-24			SILT, some fine to coarse sand, little subrounded to subangular, fine to medium				
						gravel, poorly sorted (Till).				
14	8	14-16	44-51	2.0/2.0		Dark reddish brown 10R 3/4, damp to wet,			0.0	0.0
15			40-30			extremely dense SILT, some fine to coarse sand, little subrounded to subangular, fine				
						to medium gravel, trace subrounded, coarse				
16						gravel, poorly sorted (Till).				
17										
10										
18										
19	\Box									
20										
21										
The bore	hole w	as backfill	ed with so	oil cuttings.						

						TEST BORING LOG	REPC	RT OF B	ORIN	1G
O'BRIEN & GERE ENGINEERS, INC. Client: Maestri Site				NEERS, IN	IC.			B-21		
Cllent	:	Maestr	Site			Sampler: 2" Split Spoon	Page 1 of			
Proj. L	Loc:	Lakelar	nd, New	York		Hammer: 140 lbs.	Location:	į		
`							Start Date	-, -, -		
File No		5618.00 pany:		ch Environme	antal Sc	Fall: 30"	End Date			_
Forem	_	рану.	•	aramee	entai Se	rvices, inc.	Screen		Grout Sand	it I Pack
OBG (gist:	Chawn						Bento	
							Stratum		Field T	
Depth Below		Depth	Blows	Penetr/	"N"	Sample Description	Change General	Equip.	Over Split	1
Grade	1		/6"	Recovery	1	1	Descript	Installed	Spoon	
									(ppm)	'
0	1	0-2	5-7	2.0/0.2	23	Poor recovery. Moderate yellowish brown 10YR	 		0.0	0.0
1	 		16-15		 	5/4, dry, medium dense, subangular, medium to				
<u> </u>				 		coarse gravel, little silt to fine sand, poorly sorted.				
2	2	2-4	12-12	2.0/1.5	27	Moderate brown 5YR 4/4, dry, medium dense,			0.0	0.0
<u> </u>			15-16			fine SAND, some medium sand, little silt,				
3	-					little fine to medium angular gravel.				
4	3	4-6	6-12	2.0/1.2	53	Pale yellowish brown 10YR 6/2, damp, very			0.0	0.0
			41-38			dense, fine to medium SAND, some fine to				
5	-		$\vdash \vdash \vdash$			medium angular gravel (cobble fragments), little silt, trace coarse subangular to				
						angular sand, poorly sorted.				
6	4	6-8	45-50	1.3/1.0	100+	Pale yellowish brown 10YR 6/2, damp,			0.0	0.0
7	 		50/0.3		$\vdash \vdash \vdash$	extremely dense SILT to fine SAND, some				
	-					angular, fine to medium gravel, little medium to coarse sand, poorly sorted.				
8	5	8-10	5.0/0.4	0.4/0.0		No recovery. Cobbles/boulder. Boney			NA	NA
		$\overline{\qquad}$				augering.				
9		$\vdash \vdash \vdash$			$\vdash \vdash \vdash$					
10	6	10-12	50/0.2	0.2/0.0		No recovery. Cobbles/boulder.			NA	NA
<u> </u>	igwdapprox igwedge	\vdash	$\overline{}$							
11	\vdash	\vdash	$\overline{}$							
12	7	12-14	17-50	2.0/1.2	80	Pale yellowish brown 10YR 6/2, moist,			0.0	0.0
			30-22			extremely dense, fine SAND, some fine to				
13		\vdash				coarse angular gravel, little medium to coarse sand, poorly sorted.				
14	8	14-16	19-32	2.0/1.5	73	Grayish brown 5YR 3/2, saturated, very dense,			1.2	2.4
			41-48			subrounded to subangular, medium to coarse				
15	\square					SAND, some angular, fine to medium gravel, little silt, poorly sorted.				
16	9	16-18	6-7	2.0/1.3		Moderate brown 5YR 3/4, saturated, medium			0.7	1.2
			10-9			dense, medium SAND, some subrounded to				
17	\longmapsto					subangular coarse sand, little silt to fine sand, poorly sorted.				
18	10	18-20	14-12	2.0/1.9		Same as above to 19.5 ft., then fine to very			0.0	0.0
			27-45			fine sand.				
19	\longmapsto									
20	11	20-22	15-14	2.0/1.5	30	Same as above.			0.0	0.0
			16-21							I
21										
22	12	22-24	10-8	2.0/2.0	20	Pale reddish brown 10YR 5/4, moist, medium			0.0	0.0
			12-12	2.0/2.0		dense, SILT, some fine to medium SAND, little			0.5	
23						subrounded to subangular, coarse sand to				
	\longrightarrow					medium gravel, trace clay, trace coarse, subrounded gravel, poorly sorted.				
		- 1	with soil cu	uttings		subroditided graver, poorly socied.				

Depth Blows Penetr Recovery Value Sample Description Stratum Change General Descript Installed Spoon Space							TEST BORING LOG	REPO	RT OF E	30RIN	1G
Proj. Loc: Lakeland, New York		***********	*******		NEERS, IN	IC.			B-22		
File No. Selection Selec	Client	:	Maestr	i Site			Sampler: 2" Split Spoon	-			
Fail: 30" Fail	Proj. I	∟oc:	Lakela	nd, New	York		Hammer: 140 lbs.	Location	:		
File No.: 5618.005 Fall: 30" End Date: 8/4/95 Screen Fall: 30" Screen Fall: 30" Growth Growth Steve Laramee Steve Larame								Start Dat	e: 8/4/95	ś	
Boring Company: Street Environmental Services, inc. Street Steve Learnines	File N	o.:	5618.0	05			Fall: 30"				
Depth Depth Blows Penetr/ No. (feet) /6 Recovery Value Sample Description Depth Depth Solve Penetr/ No. (feet) /6 Recovery Value Description D		-	pany:	•		ental Se		Screen		Grou	
Depth Blow Depth Blows Penetr/ No. (feet) /6* Recovery Value Sample Description Change General Descript Installed Speen Speen Penetry Sample Description Change General Descript De	ı		alst:				·	Riser		×	
Depth Grade No. Depth Grade No. Penetry Value No. Recovery Value No. Sample Description Change General Equip. Descript Installed Space S	-		100.		T	T	T	Stratum			
Grade No. (feet) /6* Recovery Value				mia.m	Domests/	35.10	Secreta Description	1		Over	۱. ۱
Spm) Spm			1 -				1			1 '	1
0			(, .				3 3 3 3 1 1 1	1		'
1	0	1	0-2	3-8	2.0/2.0	18	Moderate yellowish brown 10YR 5/4, dry,				
2 2 2 2-4 11-8 2.0/1.8 15 Upit brown SYR 5/6, damp, medium dense, fine SAND, some way fine sand, little stit. 3 3 4-6 4-5 2.0/2.0 8 Moderate brown SYR 5/6, most, toose, fine to medium sand, little stit. 5 1				10-9			-				
2 2 2-4				 							
3	2	2	2-4		2.0/1.8	15	4 **			0.0	0.0
1	- 3			7-9			-				
10 3-6		\vdash					sorted.				
S	4	3	4-6	_	2.0/2.0	8	4			0.0	0.0
6 4 6-8 3-5 2.0/1.9 8 Ught brown SYR 5/8, moist, loose, fine SAND, little medium sAND, trace silt, well sorted. 7	5	\vdash		3-6		 	medium sand, little silt.				
1											
7	6	4	6-8		2.0/1.9	8	- · · · · · · · · · · · · · · · · · · ·			0.0	0.0
8 5 8-10 3-1 2.0/2.0 2 Moderate brown SYR 3/4, most, very loose, subrounded to subanguiar, medium SAND, little fine sand, tace very fine sand to silt, well screed. 9	7	\vdash		3-3		$\vdash \vdash \vdash$	little medium sAND, trace sitt, weil sorted.				
1-2 subrounded to subangular, medium SAND, little fine sand, trace very fine sand to silt, well sorted.											
Section Sect	8	5	8-10	_	2.0/2.0	2	•			0.0	0.0
10	9						-				
3-2			:0.10		20".0		sorted.				
11	10	6	10-12		2.0/1.8	7				0.0	0.0
12 7 12-14 1-2 1.9/1.8 12 Moderate brown SYR 3/4, wet, medium dense, medium SAND, some subrounded to subangular, coarse sand, little fine sand to silt, trace clay, poorly sorted. Uight brown SYR 6/4, damp, extremely dense, subangular to angular, fine to medium GRAVEL and cobble fragments. little silt to fine sand, poorly sorted. Uight brownish gray SYR 6/1, damp, very dense, angular, fine to coarse GRAVEL and cobble fragments. Uight brownish gray SYR 6/1, damp, very dense, angular, fine to medium gravel. O.0 O.	11						_				
12		$\overline{-}$					•				
10-50/.5 medium SAND, some subrounded to subangular, coarse sand, little fine sand to silt, trace clay, poorly sorted. 14	12	7	12-14	1-2	1.9/1.8		*			0.0	0.0
14 8 14-18 33-85/4 0.9/0.5 Light brown 5YR 6/4, damp, extremely dense, subangular to angular, fine to medium GRAVEL and cobble fragments, little silt to fine sand, poorly sorted. Light brownish gray 5YR 6/1, damp, very 0.0 0.0				10-50/.5							
14 8 14-16 33-85/.4 0.9/0.5 — Light brown 5YR 6/4, damp, extremely dense, subangular, fine to medium GRAVEL and cobble fragments, little silt to fine sand, poorly sorted. 0.0 0.0 15 30-50/3 2.0/0.7 51 Light brown 5YR 6/1, damp, very dense SILT, some angular, fine to coarse GRAVEL and cobble fragments. 0.0 0.0 17 39-50/.3 Greenish gray 5YR 6/1, damp, very dense SILT, some angular, fine to medium gravel. 0.0 0.0 18 10 18-20 39-50/.3 39-50/.3 Some angular, fine to medium gravel. 20 39-50/.3 39-50/.3 Some angular, fine to medium gravel.	13										
15 and cobble fragments, little silt to fine sand, poorly sorted. 16 9 18-18 18-33 2.0/0.7 51 Light brownish gray 5YR 6/1, damp, very dense, angular, fine to coarse GRAVEL and cobble fragments. 17 cobble fragments. 18 10 18-20 36-26 1.8/0.9 65 Greenish gray 5YR 6/1, damp, very dense SILT, some angular, fine to medium gravel. 20 cobble fragments from the first open angular from the	14	8	14-16	33-85/.4	0.9/0.5		* * *			0.0	0.0
sand, poorly sorted. 16 9 18-18 18-33 2.0/0.7 51 28-53	45						_				
16 9 18-18 18-33 2.0/0.7 51 Light brownish gray 5YR 6/1, damp, very dense, angular, fine to coarse GRAVEL and cobble fragments. 18 10 18-20 36-26 1.8/0.9 65 Greenish gray 5YR 6/1, damp, very dense SILT, some angular, fine to medium gravel. 20 21 22 23 23 24 25 26 20 20 20 20 20 20 20 20 20 20 20 20 20	15	-					_				
17 Cobble fragments. 18	16	9	16-18		2.0/0.7	51	Light brownish gray 5YR 6/1, damp, very			0.0	0.0
18 10 18-20 36-26 1.8/0.9 65 Greenish gray 5YR 6/1, damp, very dense SILT, some angular, fine to medium gravel. 20 21 22 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	17	\rightarrow	\longrightarrow	28-53			•				
39-50/.3 some angular, fine to medium gravel.							ecopie ilaginana.				
20 21 22 23 23 23 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	18	10	18-20		1.8/0.9					0.0	0.0
21	19	\rightarrow		39-50/.5			some angular, fine to medium gravel.				
21											
22 23 23 23 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	20	\rightarrow	\longrightarrow								
23	21										
23	20	$\overline{}$									
	22	-				-					
The branch of a way be shell the divide said as the sa	23										
	The bornt	alo was	Secifilled								

Cient: Maestri Site Sampler: 2' Spill Spoon Page 1 of 1							TEST BORING LOG	REPO	RT OF E	BORIN	1G
Proj. Loc: Lakeland, New York	O'BRI	IEN .	L GERI	E ENGI	NEERS, IN	IC.			B-23		
Proj. Loc: Lakeland, New York	Client:		Maestr	i Site			Sampler: 2" Split Spoon	-			
	Proj. Le	oc:	Lakela	nd, New	York		Hammer: 140 lbs.	Location	•		
Depth Depth Depth Penetr/ (real) /6* Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Name Penetr/ Penetr/ Name Penetr/ Penetr/ Name Penetr/ Pen						ental So			<u> </u>	Grou	t
Depth Blow Penetr No. (feet) /6" Recovery No. No. (feet) /6" Recovery No. No. (feet) /6" No. (feet)			-1-4-					Riser		3	
Depth Part	ОВС С	10010	gist:	Chawn	T Dell	_		Stratum			
Grade No. (feet) /6* Recovery Velue Descript Installed Specim	Depth									J	
0					1			1	1	Split	Hea
0	Grade	No.	(feet)	/6"	Recovery	Value		Descript	Installed	Spoon	Spac
1					224.5	2.1					(ppn
1	0	1	0-2	_	2.0/1.5	24	•			0.0	0.0
2 2 24 6-7 2.0/1.6 13 Subronded to subangular, fine to medium SAND, some silt, little subangular to apular, fine to medium SAND, some silt, little subangular to apular, fine grave, poorly sorted. O.0	1			11110			,	İ			
3 6-6 Subtracted to subengular, fine to medium SAND, some sit, little subengular to engular from the subengular to engular from the subengular from the subengular from the subengular from the subengular from the subengular from the subengular fine to medium gravel, process sand, little subengular fine to medium gravel, process sand, little subtracted to subengular fine to medium gravel, process sand, little subtracted to subengular fine to medium gravel, process sand, little subtracted to subengular fine to medium gravel, process sand, little subtracted to subengular, medium to coarse SAND, some fine sand, little angular, from the subengular, medium to coarse SAND, some fine sand, little angular, from the subengular, medium to coarse SAND, some fine sand, little angular, from the subengular, medium to coarse sand, little angular, from the subengular, medium to coarse sand, little angular, from the subengular, medium to coarse sand, little angular, from the subengular, medium to coarse sand, little angular, from the subengular, medium to coarse sand, little angular, subtracted to subengular, fine to medium gravel, little fine to coarse gravel, little fine to coarse sand, little angular, fine to coarse sand, little angular, fine to coarse sand, little angular, fine to coarse sand, little angular, fine to coarse sand, little subengular, fine to coarse sand, little angular coarse sand, little subengular, medium to coarse sand, little subengular, medium to coarse sand, little subengular, medium to coarse sand, little subengular, medium to coarse sand, little subengular, medium to coarse sand, little subengular, medium to coarse sand, little fine gravel, little fine to coarse gravel, little fine to coarse gravel, little fine sand, trace sait, poorly sorted (sight codor). 10 10 10 10 10 10 10 10 10 10 10 10 10 1							poorly sorted.				
SAND, some siti, little subangular to angular, fine gravel, poorty sorted. 4 3 4-6 7-10 2.0/2.0 21 Dav readish brown 1078 3/4, damp, medium dense SiLT, some fine to coarse sand, little subangular fine to medium gravel, process of the subangular fine to medium gravel, process of the subangular, medium to coarse sand, little angular, fine gravel, trace clay, poorty sorted. 5 0 4 0-6 11-13 2.0/2.0 28 subrounded to subangular, medium to coarse sand, little encourage, medium to coarse sand, little encourage and the subangular, fine to medium gravel, poorty sorted. 6 1 0 10 10 10 10 10 10 10 10 10 10 10 10	2	2	2-4		2.0/1.6	13				0.0	0.0
## 13 ## 4-6 7-10	3			6-6			•				
11-10					<u> </u>					,]
Subrounded to subengular fine to medium gravel, trace clar, poorly sorted.	4	3	4-6		2.0/2.0	21	Dark reddish brown 10YR 3/4, damp, medium			0.0	0.0
gravel, trace citary, poorly sorted. 8				11-10							
15-10	3						•				
Description Description	6	4	6-8	11-13	2.0/2.0	28				0.0	0.0
Coarse SAND, some fine sand, little angular, fine gravel, trace subrounded, medium gravel, poorly sorted.				15-10			_				
	7										
8 5 8-10 50/0.1 0.1/0.1 — Very little rocovery. Split spoon refused at approximately 6.1 ft., moderate brown 5YR 44 4/4, damp, extremely dense, subrounded to subangular, fine to medium gravel, little silt to medium subangular, fine to medium stremely dense SILT, some subrounded to subangular, fine to coarse gravel, little fine to coarse sand, trace are gravel, little fine to coarse sand, trace are gravel, little fine to coarse sand, trace and the fine fine fine fine fine fine fine fin											
approximately 8.1 ft., moderate brown SYR 4/4, damp, extremely dense, subrounded to subangular, fine to medium gravel, little silt to medium sand, trace cobble fragments. 10 6 10-12 72/0.4 0.4/0.3 - Moderate brown SYR 4/4, damp extremely dense silt. To mea subrounded to subangular, fine to coarse gravel, little fine to coarse sand, trace angular cobble fragments. 11							poorly sorted.				
4/4, damp, extremely dense, subrounded to subangular, fine to medium gravel, tittle silt to medium sand, trace cobble fragments. 10 6 10-12 72/0.4 0.4/0.3 - SILT, some subrounded to subangular, fine to coarse sand, trace angular cobble fragments. 11	8	5	8-10	50/0.1	0.1/0.1					0.0	0.0
Subangular, fine to medium gravel, little silt to medium gravel, little silt to medium sand, trace cobble fragments.	9										
10 6 10-12 72/0.4 0.4/0.3 - SILT, some subrounded to subangular, fine to coarse gravel, little fine to coarse sand, trace angular cobble fragments. 1.9											
SILT, some subrounded to subangular, fine to coarse gravel, little fine to coarse sand, trace angular cobble fragments.	- 10				0.4/0.0						
11 Coarse gravel, little fine to coarse sand, trace angular cobble fragments. 12	10	6	10-12	72/0.4	0.4/0.3	-				0.7	0.3
12 7 12-14 4-52 2.0/1.3 78 Moderate brown 5YR 3/4, moist, very dense, subrounded to subangular, medium to coarse SAND, some subangular medium to coarse gravel, little fine gravel, trace silt and clay, poorly sorted (slight odor). 14 8 14-18 25-23 2.0/2.0 47 Moderate brown 5YR 3/4, wet to saturated, very dense, subrounded to subangular, medium to coarse gravel, little fine gravel, trace silt, poorly sorted, moderate odor. 15 coarse SAND, some subangular medium to coarse SAND, some subangular medium to coarse staturated, very dense, subrounded to subangular, medium to coarse SAND, little fine sand, trace silt, poorly sorted, moderate odor.	11										
subrounded to subangular, medium to coarse SAND, some subangular medium to coarse gravel, little fine gravel, trace silt and clay, poorly sorted (slight odor). Moderate brown 5YR 3/4, wet to saturated, very dense, subrounded to subangular, medium to ocarse SAND, little fine sand, trace silt, poorly sorted, moderate odor. 16 17 18 19 20 21 22 23							trace angular cobble fragments.				
subrounded to subangular, medium to coarse SAND, some subangular medium to coarse gravel, little fine gravel, trace silt and clay, poorly sorted (slight odor). Moderate brown 5YR 3/4, wet to saturated, very dense, subrounded to subangular, medium to ocarse SAND, little fine sand, trace silt, poorly sorted, moderate odor. 5.4 16 17 18 19 20 21 22 23	12	7	12.14	4.50	20/12	70	Madarata brown EVR 3/4, majet vany dansa				3.3
SAND, some subangular medium to coarse gravel, little fine gravel, trace silt and clay, poorly sorted (slight odor). 14	12		12-14		2.0/1.3		•			9.1	3.3
clay, poorly sorted (slight odor). 14 8 14-16 25-23 2.0/2.0 47 Moderate brown 5YR 3/4, wet to saturated, very dense, subrounded to subangular, medium to ocarse SAND, little fine sand, trace silt, poorly sorted, moderate odor. 16	13						SAND, some subangular medium to coarse				
14 8 14-16 25-23 2.0/2.0 47											
24-55 very dense, subrounded to subangular, medium to ocarse SAND, little fine sand, trace silt, poorly sorted, moderate odor.	14	8	14-16	25-23	2.0/2.0					54	34.5
poorly sorted, moderate odor. 16 17 18 19 20 21 22 23					2.0/2.0					0.4	04.0
16	15										
17	16						poorly sorted, moderate odor.				
18											
20	17										
19	18	-									
20	-10										
21 22 23 23 23 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	19										
21 22 23 23 23 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	20										
23	20										
23	21										
23											
	22	-									
The borehole was backfilled with soil cuttings.	23										
The borehole was backfilled with soil cuttings.											
	he boreh	ole wa	s backfilled	with soil cu	uttings.						

						TEST BORING LOG	REPC	RT OF	BORI	NG	
O'BR	IEN	& GER	E ENG	INEERS,	INC.		B-24				
Client	*******	Maestr		(000000 000 000000000000000000000000000	***************************************	Sampler: 2" Split Spoon	Page 1 of 1				
D		Lakala	nd Naur	Vaul		Hamman, 140 lbs	Location:				
Proj. L	.oc:	Lakela	nd, New	YORK		Hammer: 140 lbs.	Start Date: 8/7/95				
<u> </u>						_ ,,	1				
File No		5618.00 npany:		h Environm	nental S	Fall: 30" Services, Inc.	Screen	: 8/7/95 = \	Grou	<u> </u>	
Forem	an:	•		aramee	ioina. c	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Riser		Sand	Pack	
OBG C	ieolo	gist:	Chawn	O'Dell			Stratum		Bento		
Depth							Change		Field T	esung	
Below		Depth	Blows	Penetr/	· "N"	Sample Description	General	Equip.	Split	Head	
Grade	No.	(feet)	/6"	Recovery	Value		Descript	Installed	Spoon	Space	
				22"		SVDS (2 day leave CILT come			(ppm) 0.0	(ppm) 0.0	
0	1	0-2	3-4 4-6	2.0/1.3	8	Pale brown 5YR 5/2, dry, loose SILT, some fine to very fine sand, well sorted, little			0.0	0.0	
1						organics (plant roots).					
2	2	2-4	6-8	2.0/0.4	18	Dark yellowish brown 10YR 4/2, damp, medium			0.0	0.0	
-	-	2-4	10-12	2.0/0.4	19	dense SILT and subangular to angular fine to			5.0	5.0	
3						medium GRAVEL, little fine to medium sand,					
4	3	4-6	19-14	2.0/1.4	25	poorly sorted. Moderate brown 5YR 4/4, moist, medium dense			0.0	0.0	
			11-10	2.0/1.4		SILT to fine SAND, little medium sand, trace				.	
5						subangular fine to medium gravel, poorly					
6	4	6-8	9-9	2.0/1.3	13	sorted. Moderate brown 5YR 4/4, moist, medium dense,			0.0	0.0	
			4-4			subrounded to subangular, medium to coarse					
7						SAND, some fine sand little subnagular to angualr fne to medium gravel.					
						anguair me to medium graves.					
									0.0		
8	5	8-10	4-6 7-6	2.0/1.2	13	Moderate brown 5YR 4/4, moist to wet, medium dense, subrounded to subangualr, medium to			0.0	0.0	
9						coarse SAND, some sugangular to angular fine					
						to medium gravel, little fine sand to silt, poorly sorted.					
10						poorly surieu.					
11											
12											
13											
14											
,,,											
15											
16											
1-											
17											
18											
19											
20											
21											
22											
23											
The bore	hole w	as backfille	ed with soi	cuttings.		<u> </u>					

						TEST BORING LOG	REPO	RT OF B	ORIN	1G
O'BR	IEN	4 GERI	E ENGI	INEERS, IN	VC.			B-25_		
Client:		Maestri	Site			Sampler: 2" Split Spoon	Page 1 of			
Proj. L	oc:	Lakelaı	nd, New	York		Hammer: 140 lbs.	Location	:		
			,			146.225	Start Dat	e: 8/7/95		
File No).:	5618.00	05			Fall: 30*	End Date			
Boring		pany:	-	ch Environm	ental S		Screen	-,-,-	Grout	
Forema OBG G		alet.	Steve L Chawn	Laramee			Riser		8	Pack
ODC C	10010;	Jiot.	Tina wiii	C Deii	Т		Stratum		Bento Field To	
Depth Below Grade	No.	Depth (feet)	Blows	Penetr/	"N"	Sample Description	Change General	Equip.	Over Split	Head
Grade	140.	(1661)	/5	Recovery	Value		Descript	Installed	Spoon (nnm)	'
0	1	0-2	2-5	2.0/1.5	10	Pale brown 5YR 5/2, dry, medium dense SILT to			(ppm) 0.0	(ppm) 0.0
			5-3			fine SAND, little medium sand, little organic				
1					<u> </u>	(plant roots).				
2	2	2-4	2-4	2.0/1.9	8	Pale brown 5YR 5/2, dry to damp, loose, fine			0.0	0.0
			4-7			SAND, some silt, well sorted.				
3			 '		 '					
4	3	4-6	2-3	2.0/1.9	7	Moderate yellowish brown 10YR 6/6, damp,			0.0	1.1
			4-6			loose, very fine SAND, little silt, well				
5			 '	 	$\vdash \!$	sorted.		·		
6	4	6-8	4-4	2.0/2.0	7	Pale yellowish brown 10YR 6/2, damp, loose,			0.0	0.3
_			3-5			fine SAND, some very fine sand, little silt,				
7			 			well sorted.				
8	5	8-10	3-5	2.0/1.9	13	Dark yellowish brown 10YR 4/2, moist, medium			0.0	2.5
			8-10			dense, medium SAND, little fine SAND to SILT,				
9	\rightarrow					well sorted.				
10	8	10-12	4-7	2.0/2.0	15	Dark yellowish brown 10YR 4/2, saturated,			2.0	17.4
-,,			8-10			medium dense, fine SAND, some very fine SAND,				
11						some very fine sand, little silt, well sorted, slight odor.				
						l l				
12	7	12-14	7-10	2.0/1.5		Dark yellowish brown 10YR 4/2, saturated,			0.0	1.1
13			19-14			medium dense, fine SAND, some subrounded to sbuangular medium sand, little silt, poorly				
						sorted.				
14	_	1116	20.79							
14	8	14-16	38-78 50/0.1	1.1/1.1		Dark yellowish brown 10YR 4/2, extremely dense, saturated, fine SAND, some subrounded			0.0	0.2
15						to subangular, medium to coarse sand, little				
16	9	16-18	50/0.5	0.5/0.3		angular fine gravel, trace silt to very fine sand. Pale brown 5YR 5/2, saturated, extremely			20	0.0
		10-10	30/0.5	0.5/0.5		dense, angular gravel and cobble fragments,			0.0	0.3
17						little silt to medium sand.				
18	10	18-20	23-17	2.0/1.5	38	Moderate brown 5YR 4/4, saturated, medium			0.0	0.0
			21-25	B/5/		dense, medium to coarse SAND, some silt to			0.0	0.0
19						very fine sand, little subrounded to angular,				
20	11	20-22	18-25	2.0/2.0		fine to medium gravel, trace clay. Grayish red 10R 4/2, moist, very dense SILT,			0.0	0.0
			26-31			some subrounded to subangular, fine to coarse				•
21						SAND, little subrounded to angular fine to				
22	\rightarrow		\rightarrow			medium gravel, trace clay, poorly sorted (Till).				
	\Box					()				
23										
	\rightarrow			$\overline{}$						

APPENDIX C VOLATILE ORGANIC COMPOUNDS LABORATORY REPORTS - 1995



CLIENT MAESTRI SITE	JOB NO3213.008.517
DESCRIPTION Geddes, NY	
Volatile Organics: Method 8010/8020	MATRIX: Solid
Analyzed 8-11.14.15.16-95 PATE COLLECTED 8-2.3.4.7-95	DATE RECEIVED 8-8-95

	Sample #	BENZENE	ETHYL- BENZENE	TOLUENE	XYLENES (total)
					1
B-12 (4-6')	W5310	<1100.	<1100.	<1100.	41,000.
B-12 (22-24')	W5311	<1.	<1.	<1.	47.
B-13 (10-12')	W5312	<1.	<1.	<1.	<4.
B-14 (6-8')	W5313	<1.	<1.	<1.	<3.
B-15 (8-10')	W5314	<1.	<1.	<1.	<4.
B-16 (8-10')	W5315	<1.	<1.	<1.	3.
B-16 (16-18')	W5316	<1.	2.	<1.	200.
B-17 (8-10')	W5317	<1.	<1.	<1.	<3.
B-17 (14-16')	W5318	<110.	<110.	<110.	280.
B-18 (6-8')	W5319	<1.	<1.	<1.	<4.
B-18 (12-14')	W5320	<110.	<110.	<110.	3500.
B-21 (16-18')	W5321	<1.	2.	<1.	210.
B-21 (20-22')	W5322	<1.	<1.	<1.	<4.
B-19 (14-16')	W5323	<1.	<1.	<1.	<4.
B-20 (10-12')	W5324	<1.	<1.	<1.	<3.
B-23 (12-14')	W5325	<1.	<1.	<1.	<3.
B-23 (14-16')	W5326	<110.	<110.	<110.	370.
B-25 (10-12')	W5327	<1.	<1.	<1.	<4.
B-25 (18-20')	W5328	<1.	<1.	<1.	<3.
B-22 (12-14')	W5329	<1.	d.	<1.	₹3.
	1	•	•	•	1

Comments:

10155 Certification No.:

Units:

μg/kg dry weight

Authorized: September 1, 1995 Date:

O'Brien & Gere Laboratories, Inc., an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



CLIENT MAESTRI SITE	JOB NO. 3213.008.517 Method 8010/8020 MATRIX: Solid/Water*
DESCRIPTION Geddes, NY	
Volatile Organics: Method 8010/8020	MATRIX: Solid/Water*
Date Analyzed 8-14.16-95 DATE COLLECTED 8-7-95	DATE RECEIVED 8-8-95

	Sample #	BENZENE	ETHYL - BENZENE	TOLUENE	XYLENES (total)
B-24 (8-10')	W5330	<1.	<1.	<1.	<3.
Equipment Blank	W5331*		<1.	<1.	<3.
QC Trip Blank	W5332*		<1.	<1.	<3.
QC Trip Blank	W5338*		<1.	<1.	<3.
QC Trip Blank	W5339*	<1.	<1.	<1.	<3.
				<u>.</u>	
	-				
	, -				
			1		

Comments:

Certification No.: 10155

Units:

 $\mu g/kg$ dry weight

 $\mu g/1$

Authorized:_

Date:

September 1, 1995

O'Brien & Gere Laboratories, Inc., an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



CLIENT	MAESTRI SIT	Е				JOB NO	3213.008.517
DESCRIPTION	Gedde:	s, NY		_			
						MATRIX:	Solid
			DATE COLLEC	STED 8-2,	4,7-95	DATE RECEIV	VED 8-8-95
				Sample #	PERCENT TOTAL SOLIDS	PH, LABORATORY std. units	
B-24	(8-10')			W 5330	90.8	-	
B-12	2 (12-14')			W5333	87.0	8.0	
B-16	5 (12-14')			W5334	85.5	7.7	
B-17	7 (12-14')			W5335	90.8	7.9	
B-18	3 (14-16')			W5336	84.2	8.1	
B-25	5 (8-10')			W533 7	88.2	7.9	
			į				
						:	

Comments: pH analyzed outside recommended 15 minute holding time.

Certification No.:

Date:

10155

Units:

See Above

Authorized: September 1, 1995

O'Brien & Gere Laboratories, Inc.. an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



LIENT MAESTRI SITE			JOB NO3	213.008.517
Geddes, NY				
			MATRIX: S	olid
	DATE COLLECTED8-	2,3,4,7-95	DATE RECEIVED	8-8-95
	1	1	1 1	ı
	Sample	# PERCENT TOTAL SOLIDS		
B-12 (4-6')	W5310	92.0		
B-12 (22-24')	W531:	92.2		
B-13 (10-12')	W531:	77.3		
B-14 (6-8')	W531	94.1		
B-15 (8-10')	W5.31	4 85.5		
B-16 (8-10')	W531	85.8		
B-16 (16-18')	W531	82.0		
B-17 (8-10')	W531	95.7		
B-17 (14-16')	W5318	89.1		
B-18 (6-8')	W5319	82.7		
B-18 (12-14')	W532	90.9		
B-21 (16-18')	W5 32	82.8		
B-21 (20-22')	W532	2 85.6		
B-19 (14-16')	W532	3 82.3		
B-20 (10-12')	W532	90.0		
B-23 (12-14')	W532	92.2		
B-23 (14-16')	W532	6 89.9		
B-25 (10-12')	W532	7 81.7		
B-25 (18-20°)	W532	88.0		
B-22 (12-14 ⁻¹)	W532	9 87.3		

Comments:

Certification No.:

10155

Units:

%

Authorized: Monka Santuce

Date:

September 1, 1995

Job	No.	3	61	To	a	15

Sheet / of /

Office: SYRACUSE, NY

Address: 5000 BRITTON FIELD PLWY

Phone: (3/5) 437-6/00

CHAIN OF CUSTODY

CLIENT: ICI AMERIC MAESTRI S LOCATION: LAKELAND,	(Signature) Chaun ODELL					
SAMPLE DESCRIPTION	Date	Time	Sample Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED
B-12 (0-2')	8/2/95	1519	5014	COMPOSITE	2	HOLD-See DAN
B-12 (2-4°)	9/2/95	1525	5012	COMPOSITE	2	TOWERS REGAL
* B-12(4-6)	8/2/95	1537	5012	COMPOSITE	2	ANALYSIS /
B-12 (6-8)	8/245	1545	50/2	COMPOSITE	2	
R-12 (B-10')	8/2/95	1556	SOIL	COMPSITE	2	
B-12 (10-12)	8/2/95	1610	5012	COMPOSITE	2	
B-12 (12-14')	8/295	1622	50/2	COMPOSITE	2	/-
B-12 (14-161)	8/2/95	1640	5016	COMPOSITE	2	
B-12 (16-18')		1653	5014	COMPOSITE	2 .	\rightarrow
B-12 (18-20)		1705	5074	ComPosITE	2	
B-12(20-22')	3545		501L	COMPOSITÉ	2	
* B-12 (22-24')	3/2/95	1735	5012	CompositE	2	
TRIP BLANK	B/2/95		WATER	GRAB)	

	Ka	.#	670	o IX	WS)
•	'		_	' (~

Matrix = water, wastewater, air, sludge, sediment, etc.
 Type = grab, composite

7	Type - gran, composite										
	Relinquished by: Chaur SDELL	Date	Time	Received by: Ill a 410 With	Date	Time					
Ţ	* Brien & Gere Engineers Inc.	8/2/95	1915	a abthlabs	8/3/95	0700					
	Relinquished by:	Date	Time	Received by:	Date	Time					
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	Relinquished by:	Date	Time	Received by:	Date	Time					
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71.0	Use this space of shipped we counter (e.g., Fed Er)	Date:	Time	Courier Name:	Date	Time					
	Relinquished by:										
-		2		*Attack delivery/course receipt to Chain of Custody							
H	Relinquished by:	Date	Time	Received by:	Date	Time					



Job No. <u>56/8,005</u> Sheet <u>/</u> of <u>2</u>

Office: SYRACUSE, NY.
Address: 5000 BRITTONFIELD PKWY

Phone: (315) 437-6/00

CHAIN OF CUSTODY

CLIENT: OF MAESTRI LOCATION: LAKELAND,	(Signature) Chawn ODELL					
SAMPLE DESCRIPTION	Date	Time	Sample Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED
B-13 (0-2)	8/3/95	0735	50/2	GRAB	2	HOLD -SEE DAVE
B-13 (2-4°)	8/3/95	0740	5012	GRAB	S	TOWERS REGARDING
B-13 (4-6')	8/3/45	0755	50/2	COMPOSITE	2	ANACY SIS.
B-13 (6-8')	8/3/45	0800	5012	COMPOSITE	2	
B-13 (8-10°)	3/3/15	08/0	30/6	COMPOSITE	2	
* B-13 (10-121)	8/3/95	08/8	5012	COMPOSITE	<u>a</u>	
B-13 (12-14')	8/3.ps	<u>0825</u>	5012	COMPOSITE		<u> </u>
B-13 (14-16')	8/3/25	0850	5012	COMPOSITE	/	
B-14 (0-2)	8/3/A5	1020	2017	COMPOSITE	2 .	
B-14 (2-4°)	8/3/95	1025	5012	COMPOSITE	2	
B-14 (4-6)	8/3/5	/030	5012	COMPOSITE	a	
** B-14 (6-8')	8/3/25	1035	50/2	COMPOSITE	a	
B-14 (8-10)	8/3/5	1057	50/2	COMPOSITE	a	
B-14 (10-12')	8/3/65	1106	50/2	COMPOSITE	2	

¹ Matrix = water, wastewater, air, sludge, sediment, etc.

² Type = grab, composite

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****	Relinquished by: Chaux ODE	Date	Time	Received by: Me ray Smith	Date	Time
	* OBNEW & Gere Engineer IR.	8/3/95	1815	at 18+16 (abs	1995	<i>(Y10</i> 0
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	Use this space if shipped via courier (e.g., Fed Ex)	Date	Time	Courier Name:	Date	Time
	Relinquished by:					
-	oś.			"Attack delivery/courier receipt to Chain of Custody		
	Relinquished by:	Date	Time	Received by:	Date	Time
(Indicated)	of:			of:		



Job No. <u>56/8,005</u>
Sheet <u>2</u> of <u>2</u>

Office: SYRACUSE, N.Y.

Address: 5000 BRITTONFIELD PICKY

Phone: (315) 437-6100

CHAIN OF CUSTODY

CLIENT! MAESTRI S LOCATION: LAKELAND,	COLLECTED BY: CHAWN ODELL (Signature) Chawn Divell					
SAMPLE DESCRIPTION	Date	Time	Sample Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED
B-15 (0-2)	8/3/95	1503	50/2	COMPOSITE	2	HOLD-SEE DAUE
B-15 (2-4°)	8/3/95	1506	5012	COMPOSITE	2	TOWERS REGARDING
B-15 (4-6)	8/3/05	1527		COMPOSITE	2	ANALYSIS,
B-15 (68°)	8/3/25	1530	5012	MARSITE	2	
* B-15 (B-10-)	8/3/05	1549	50/2	COMPOSITE	2	
B-15 (10-12)		1555	5012	COMPOSITE	2	
B-15 (12-14°)	8/3/45		5016	COMPOSITE	2) .
B-16(0-2)	8/3/15	1630	50/2	COMPOSITE	2	
B-16 (2-4-)	3/3/05	1634	5016	COMPOSITS	<u>J.</u>	
B-16 (4-6)		1640	5012	Composite	9	
TRIP BLANK	3/3/95		WATER	GRAB	1	
	_ ·			<u> </u>		
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¹ Matrix = water, wastewater, air, sludge, sediment, etc.

² Type = grab, composite

	Relinquished by: Chaun ODE	Date	Time	Received by: 101 A My SWHA	Date	Time			
١	a OBrien & Gere Empireer, Im.	8/3/95	1815	€ OB46 Labs	14/5	8708			
-	Relinquished by:	Date	Time	Received by:	Date	Time			
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	Retinquished by:	Date	Time	Received by:	Date	Time			
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Office: SYRACUSE, NY.

Address: 5000 BRITTONFIELD PKWY

Phone: (3/5) 437 - 6/00

CHAIN OF CUSTODY

CLIENT: MAESTRI SI LOCATION: LAKELAND, A			(Signature) Chan Fall					
SAMPLE DESCRIPTION	Date	Time	Sample Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED		
B-16 (6-8)	3/4/95	0702	50/4	COMPOSITE	2	HOLD-See DAVE		
W B-16 (8-10')	8/4/95	07/6			/			
B-16 (10-12')	8/4/95	0720				Analysis,		
B-16 (12-14)	3/4/95	073/						
B-16 (14-16)	8/4/95	0735						
W B-16(16-18)	8/4/95	0752						
B-16 (18-25)	3/4/95	0758						
B-17 (3-2°)	1	9 847						
B-17 (2-4')	3/4/95	0851			/ ·			
13-17 (4-6)	3/4/95							
B-17 (6-8')	3/4/95					/		
N B-17 (8-10')	8/4/45							
B-17 (12-14')		0958	\					
N B-17 (14-16)	8/4/5	1005	V	$\sqrt{}$	$\sqrt{}$			

Relinquished by: Chewn Orall Date Time Time Relinquished by: 8/4/95 1930 bood Date Time Received by: Time Relinquished by: Date Time Received by: Time Use this space if shipped was courier (e.g., Fed Er) Time Reliaquished by:

Time

Date

² Type = grab, composite

Received by: _

1 Matrix = water, wastewater, air, sludge, sediment, etc.

"Attack delivery/couries receipt to Chain of Costody

WpC

of:

Recinquished by:

Time

Date

Address: 5000 BRITTONFIELD PKWY

Phone: (3/5) 437-6/00

CHAIN OF CUSTODY

CLIENT: MAKSTRY SI LOCATION: LAKELAND			(Signature) Chaun ODELL					
SAMPLE DESCRIPTION	Date Ti	Sample me Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED			
13-17 (16-18')	3/4/25 10	22 50/6	CompositiE	2	NOLO _ Seo DAVI			
B-17 (18-20)	3/4/95/03	0 /		/	Towers Regarding			
B-17 (20-22)	9/4/95/05	8			Analysis.			
B-18 (0-2')	3/4/05/14	3			, ,			
B-19 (2-41)	8/443 114	16						
B-18 (4-6)	5/4/05 //							
XX B-13 (6-8)	8/4/95 /15				/ .			
B-18 (8-10°)	3/4/95 120			_/_				
13-13 (N-12')	34/05 121			/	\			
10 /B (/2 · / /	3/4/95 12							
13-18 (14-16) 13-18 (16-18)	8/4/95 12	30		_				
B-18 (13-20')		12		-\				
B-21 (2-4°)	3/4/24 142	1						

1 Matrix = water, wastewater, air, sludge, sediment, etc.

² Type = grab, composite 1930 at OBY LIBS Relinquished by: Chaus OPell Date Date Time OBrient Gere Eng Ihr. 8/4/95 7/95/2000 Relinquished by: Date Time Received by: Time Relinquished by: Date Time Received by: ____ Date Time Use this space if shipped via counter (e.g., Fed Er).
Relinquished by: Date Time Пос Date "Littack delivery/courses receipt to Chain of Custody Retinquished by: Date Time Received by: Date Time

JOD NO. 56/8, 005

· Sheet 3 of 3

Office: STRACUSE, NY,

Address: 5000 BRITTON FIRM PINY

Phone: (315) 437-6100

CHAIN OF CUSTODY

CLIENT: MAESTRE 5) LOCATION: LAKE LAND!		(Signature) Chan ONE					
SAMPLE DESCRIPTION	Date	Time	Sample Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED	
B-21(4-6')	84/95	1439	50/2	COMPOSITE	2	HOLD-See DAVE	
B-21 (6-8')	84/95	1447	/	/	/	TOWERS REGARDING	
B-21(12-14)	3/4/45	1645		/		ANALYSIS.	
B-21 (14-16)	1/1/	152					
K B-21 (16-18)	8/4/615						
B-21(18-20')	-1/	1707		/	/		
TRIP BLANK	3/4/95	1722 ——	WATER	CLAB	1		
						У	
				 			
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1 Matrix = water, wastewater, air, sludge, sediment, etc. ² Type = grab, composite

			ke a Brant charles		
Relinquished by: Chaun Och	Date	Time	Received by: Wendy SMITH	Date	Time
of Brien & Gere Engineers, Iuc.	8/4/95	1930	œ 0 Br6 labs	8/2/4	0700
Relinquished by:	Date	Time	Received by:	Date	Time
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Relinquished by:	Date	Time	Received by:	Date	Time
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Relinquished by:	Date	Time	Received by:	Date	Time
Ш					

Sheet / of 4

Office: SYLACUSE, N.Y.

Address: 5000 BRITTONFIELD. PKWY

Phone: (3/5) 437-6/00

CHAIN OF CUSTODY

CLIENT: MAESTRI S. LOCATION: LAKELAND			COLLEC	TED BY: C/	: 1	POELL
SAMPLE DESCRIPTION	Date	Time	Sample Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED
B-19 (0-2°)	8/7/5	0726	5012	ComPosiTE	コ	WOLD-CONTACT PAUL
B-19 (2-4)	8/4/95	0729	50/6	COMPOSITE	2	YOWERS REGARDING
B-19 (4-6)	8/4/8	0737	50/2	COMPOSITE	2	ANAUYSIS.
B-19(6-8)	8/4/25	0740	50/6	COMPOSITIE	2	,
B-19(8-10)	8/7/45	0745	50/1	. COMPOSITE	2	
B-19(10-12)	3/2/18	<u>0748</u>	5016	Composite	コ	
B-19(12-14)	3/7/05	0755	5016	50mf65ITE	ュ	
WB-19(14-16)	8/7.65	0758	5016	COMPOSITE	2	
B-19 (16-18')	8/7/15	0807		COMPOSITE	٦.	
Equipment Blank	3/4/5		WATER	GRAB	3	
B-20(0-2)	R/1/05		5016	COMPOSITE	2	
B-20 (2-4-)	3/7/15		5014	COMPOSITE	2	
B-20 (4-6)	8/7/95		SOLC	COMPOSITE	3	
B-2016-8)	3/7/95	0925	5016	COMPOSITE	2	

² Type = grab, composite Relinquished by: Claun ODE Date Time Time * Brien & Gere Engineers Inc. 0708 Relinquished by: Date Time Received by: Time Relinquished by: _ Time Date Received by: Time Use this space of thipped was counter (e.g., Fed Ex) Relinquished by: **9317** Time "Attack delivery/comise receipt to Chain of Custody Ralinquished by: _ Date Time Received by: Time

¹ Matrix = water, wastewater, air, sludge, sediment, etc.

Address: 5000 BRITTONEIFON PROY

Phone: (3/5) 437-6/08

CHAIN OF CUSTODY

2.65		Sample Matrix ¹	Sample Type ²	No. of Containers	
	1	C ~ 1 .			ANALYSIS REQUESTED
1/95	1	50/4	COMPOSITE	2	HOLD-COLTACT DAVE
	0936	5016	COMPOSITE	2	TOWERS REGARDING
2/95	0948	5012	COMPOSITE	2	ANNUYSIS
2/15	0959	SOZZ	COMPOSITE	2	
195	1111	5016.	COMPOSITE	2	
15	11/3	5012	Composite	2	
45	1124	50/6	COMPOSITE	2	
95	1127	5016	COMPOSITE	2	
15	1150	5012		2.	
95	1209	5016		2	
15	1221	50/2	Confishe	2	
135	1305	Cari		2	
15	1307			2	
15	1319	_		2	
	45 45 45 45 45	95 1150 95 1209 95 1221 195 1305	195 1124 50/L 195 1127 50/L 195 1150 50/L 195 1209 50/L 195 1305 50/L 195 1307 50/L	195 1124 50/L COMPOSITE 195 1127 50/L COMPOSITE 195 1150 50/L COMPOSITE 195 1209 50/L COMPOSITE 195 1221 50/L COMPOSITE 195 1305 50/L COMPOSITE 195 1307 50/L COMPOSITE	195 1124 SOIL COMPOSITE 2 195 1127 SOIL COMPOSITE 2 195 1150 SOIL COMPOSITE 2 195 1209 SOIL COMPOSITE 2 195 1221 SOIL COMPOSITE 2 195 1305 SOIL COMPOSITE 2 195 1307 SOIL COMPOSITE 2

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Matrix = water, wastewater, air, sludge, sediment, etc.

Pl fauell

Type = grab, composite

		<u> </u>		be the transfer of the transfe		
	Relinquished by: Chaun Oll	Date	Time	Received by. MILLAY SMILL	Date	Time
7	* OBreen & Gere Engineer Inc	8/7/05	1930	ce Oby6 Labs	18/95	070
H	Relinquished by:	Date	Time	Received by:	Date	Time
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Office: 54RRCUSE, N.Y.

Address: 5000 BRITTONEI BLD P.KWY

Phone: (3/5) 437-6/00

CHAIN OF CUSTODY

	CLIENT: MAESTRY ST LOCATION: LAKELAND			(Signature) Chaun ODELL			
	SAMPLE DESCRIPTION	Date Tin	Sample	Sample Type ²	No. of Containers	ANALYSIS REQUESTED	
	B-25(6-8)	8/7/95 132	5012	COMPOSITE	2	HOLD-CONTACT DAVE	
7	B-25 (8-10)	3/7/95 132	7 50/2	COMPOSITE	2	TOWERS REGARDING	
1	8 B-25 (10-12)	8/7/95 132	9 50/2	COMPOSITE	2	ANALYSIS.	
7	B-25 (12-14)	8/7/95 134	1 50/2	COMPOSITE	2		
1	13-25 (14-16)	8/7/95 /34	3 50/2	COMPOSITE	ಇ		
	XX B-25 (18-20)	3/7/95 1410	SOIL	COMPOSISE	a		
-	B-22(0-2)	3/2/05 145		COMPOSITE	2	\ .	
T	B-22 (2-4')	8/7/95 145	9 50/2	COMPOSITE	2		
•	B-22(4-6)	8/7/05 150		COMPOSITE	2.		
Ŧ	B-22(6-8)	9/7/05/508	50/2	COMPOSITE	2		
Ħ.	B-22(8-10)	9/7/95 15/5	5012	COMBS/TE	2		
T	B-22 (10-121)	8/7/45 1517	50/2	COMPOSITE	2		
ķ	N B-22 (12-14')	8/7/95 1525		COMPOSITE	2		
E	B-22 18-20')	8/7/95 155	50/2	COMPOSITE	2	\bigvee	

1 Matrix = water, wastewater, air, sludge, sediment, etc.

The same of the sa		_ * Ty	pe = grab, composite		
Relinquished by: Luwn Dell	Date	Time	Received by: Wil 1 / 4 Mith	Date	Time
- Buen & Gere Engineer The	8/7/95	1930	a Brig Labs	18/95	8400
Relinquished by:	Date	Time	Received by:	Date	Time
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	2	_	"Attack delivery/comine receipt to Chain of Custody"		
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Sheet 4 of 4

Office: SYRACUSE N.Y.

Address: 5000 Bri Honfield MINY

Phone: (3,5) 437-6/00

CHAIN OF CUSTODY

CLIENT: MAESTRE SI LOCATION: LAKE LAND	TENY	/	COLLECT (Signature)	ED BY: CN	MUR À	EU
SAMPLE DESCRIPTION	Date	Time	Sample Matrix ¹	Sample Type ²	No. of Containers	ANALYSIS REQUESTED
B-24 (6-2')	3/2/25	1629	50/2	COMPOSITE	2	HOLD-CONTACT DAVE
B-24 (4-6)	8/7/25	1640	5012	ComposiTE	2_	TOWERS REGARDING
B-24 (6-31)	11	1643	50/2	COMPOSITE	2	ANALYSIS Y
WX B-24 (8-10)	3/7/15	1650	50/6	COMPOSITE	2	
	1 .					
					•	
	-					
						
,						

1 Matrix = water, wastewater, air, sludge, sediment, etc.

² Type = grab, composite Relinquished by: Chown Older on Bringer & Gene Engineer Inc. Received by: Wen In Smith Time Date Date Time 1893 1930 Relinquished by: Date Time Received by: Time Date Relinquished by: Time Received by: Date Time Use this space if shipped vis courier (e.g., Fed Er) "Attack delivery/courier receipt to Chain of Custody Relinquished by: Date Time Received by: __ Date Time



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PROGRAM INFORMATION -			<u> </u>		
Client: Obth English	215	Div.	Ref. No		
Program:		r	774C		
Location: City/Town	ell	na	State		XX 10
Date Rec'd: 8/3408/1/95 Time	Rec'o	d: _	Sampler!	WX	usell
Custody Seal! Intac	t	<u>·</u>	Not Intact <u>(</u>	_ NA	
AFTER HOURS CUSTODY					
RELINQUISHED BY:	DATE	TIME	RECEIVED BY SECURITY GUARD:	DATE	TIME
RELINQUISHED BY SECURITY GUARD TO COOLER:	DATE	TIME	RECEIVED BY SAMPLE CUSTODIAN:	DATE	TIME
			<u> </u>		
		_			
COMMENTS/DISCREPANCY:		<i>a</i> 1 -	to boul to		
Served lab wal	Nia		mells from 8-3	1000 40	
8-7-95 These 11	LPLE	 1	n Halk watil 8-	8-95	
analysis de al	Tall	ell	to Morika San	HIC	
8010/80/20 8/270 4 PC	<u>75.</u>	X	aditional Samples	SA	1
Nitriter Witrate, Nt	13N	TK	n), Ptty Phos 1, 6-12	(1)	Ψ
5. 11 max Vast 0	i/ c			-+	
sengus were pept co	4°C.		<u> </u>	مِل ہے۔	
			6-18	(14)	-14)
RESOLUTION/CLIENT COMMENT:			1000	(8-	/0')
Al Clarified the Wet C		an	7 7 7	T-P d	700
to holide the follow	ing:	% Pc	TS, MOLNOZ, TKN, /H, F	/ 5	- 1 CIL
A come reported that the	1/10		and part to the last		
	<u>, </u>	-4		anel	
Signed: What Onth		Proje	ect Manager Approval: <u> </u>	21	
Date: 8-8-951		QA/QC	Approval:		
SAMPLE DISPOSAL					
Disposal Procedure: Rout	ine)				
			Signed: Dank	, fa \	<u></u>
			9.01		neer
			Date:	195	

COMMENTS/DISCREPANCY: (continued)
- TOMESTALINE TO A TOWN OF THE PARTY OF THE
On 8/15/95 Pam Sheeten Confected & the lab
and shutter instructed to subcontract all of the
Wet Chemit Parameters to Bio Trole this was
performed as 10 eurs. A and the wort will be
Atwarded deilette som Bio Tral to Pam
Shaken 1 O'Brien Merk Engineer - Edwar Delice.
However & O'Brien & key Laboratories But already
performed the att and fcTs on these sample and
are included with this report-
PROPOSED RESOLUTION: (continued)

·
CLIENT COMMENTS: (continued)

•
Signed: Mike far fuec Project Manager Approval: MS
Date: QA/QC Approval:
Z., Zo Phi o. at.

APPENDIX D

SEMI-VOLATILE ORGANIC COMPOUNDS LABORATORY REPORT - 1995



CLIENTMAESTRI SITE		JOB NO.	3213.008.517
DESCRIPTION Geddes, NY			
B-12 (4-6')		MATRIX	: Solid
SAMPLE NO. W5310	DATE COLLECTED	8-2-95 DATE RE	8-8-95
	DATE EXTRACTED	8-9-95 DATE AN	9 27 05
Phenol	<360.	4-Chloro-3-methylphenol	<360.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	1
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene	i	2,4,6-Trichlorophenol	\downarrow
1,4-Dichlorobenzene	1	2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<360.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<360.
Bis (2-chloroisopropyl) ether	į	Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<360.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone		4-Nitrophenol	<1700.
2-Nitrophenol		Dibenzofuran	<360.
2,4-Dimethylphenol	· · · · · · · · · · · · · · · · · · ·	2,4-Dinitrotoluene	
Benzoic acid	<17.00.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<360.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	·
1,2.4-Trichlorobenzene	!	4-Nitroanifine	<1700.
Naphthalene	\(\frac{1}{2} \) \(\frac{1}	4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline	·	N-Nitrosodiphenylamine	<360₊
Hexachlorobutadiene		4-Bromophenyl-phenylether	<360.

Page 1 of 2

Authorized: Moniko Fantucci



DESCRIPTION	Geddes, NY			JOB NO	
ZESCRIPTION_	B-12 (4-6')	_	_	MATRIX: Sol	id
SAMPLE NO	W5310	DATE COLLECTED	8-2-95	DATE RECEIVED	8-8-95 8-23-95
		DATE EXTRACTED	8-9-95	DATE ANALYZED	
Hexachlorob	enzene	₹360.	Benzo (a) ant	hracene	<360.
Pentachlorop Phenanthrer		<1700.	Chrysene Bis (2-ethylhe	exvI) phthalate	
			·	exyl) phthalate	
Phenanthrer	ne		Bis (2-ethylhe	exyl) phthalate halate	
Phenanthrer Anthracene	ne nthalate		Bis (2-ethylhe	exyl) phthalate halate oranthene	
Phenanthrer Anthracene Di-n-butylph	ne nthalate		Bis (2-ethylhe Di-n-octylphti Benzo (b) fluo	exyl) phthalate halate oranthene oranthene	

Comments:

3,3'-Dichlorobenzidine

Methodology: EPA Target Compound List By 8270, SW-846

November 1986, 3rd Edition

Certification No.:

Dibenz (a,h) anthracene

Benzo (g,h,i) perylene

10155

Units:

<720.

μg/kg dry weight

Page 2 of 2

Authorized: Manka Sankuci



CLIENT MAESTRI SITE		JOB NO	213.008.517
DESCRIPTION Geddes, NY			
B-12 (22-24')		MATRIX: S	Solid
SAMPLE NO. W5311	DATE COLLECTED	8-2-95 DATE RECEIVE	8-8-95
	DATE EXTRACTED_	8-9-95 DATE ANALYZ	ED 8-23-95
Phenol	<360.	4-Chloro-3-methylphenol	<360.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	1
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<360.
1,2-Dichlorobenzene		2-Nitroaniline	<1700.
2-Methylphenol	Į į	Dimethylphthalate	<360.
Bis (2-chloroisopropyl) ether	İ	Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	J.
N-Nitroso-di-n-propylamine	.	3-Nitroaniline	<1700.
Hexachloroethane	;	Acenaphthene	<360.
Nitrobenzene		2.4-Dinitrophenol	<1700.
Isophorone	,	4-Nitrophenol	<17,00.
2-Nitrophenol		Dibenzofuran	<360.
2,4-Dimethylphenol	· · · · · · · · · · · · · · · · · · ·	2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<360.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene	1	4-Nitroaniline	<1700.
Naphthalene	The state of the s	4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline	, ,	N-Nitrosodiphenylamine	<360.
AND THE PERSON	and the same when the		

Page 1 of 2

<360.

Authorized: Marka farhieri

August 31, 1995

4-Bromophenyl-phenylether

O'Brien & Gere Laboratories, Inc., an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



Semivolatile Organics Method 8270

CLIENT MAESTRI SITE		JOB N	3213.008.517
DESCRIPTION Geddes, NY			
B-12 (22-24')		MAT	RIX: Solid
SAMPLE NO. W5311	DATE COLLECTED	8-2-95 DATE	RECEIVED 8-8-95
	DATE EXTRACTED	8 0 05	8-23-95
Hexachlorobenzene	<360.	Benzo (a) anthracene	<360.
Pentachlorophenol	<1700.	Chrysene	
Phenanthrene	<360.	Bis (2-ethylhexyl) phthalat	re
Anthracene		Di-n-octylphthalate	6
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate	, ,	Indeno (1,2,3-cd) pyrene	en
3,3'-Dichlorobenzidine	<720.	Dibenz (a,h) anthracene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Benzo (g,h,i) perylene

Certification No.:

10155

Units:

μg/kg dry weight

Page 2 of 2

Authorized: Monka fartheci

August 31, 1995

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CLIENT MAESTRI SITE		JOB NO	5213.008.517
DESCRIPTION Geddes, NY			
B-13 (10-12')		MATRIX:	Solid
SAMPLE NO	DATE COLLECTED	8-3-95 DATE RECEIV	8-8-95
	DATE EXTRACTED_	8-9-95 DATE ANALY	ZED 8-23-95
Phenol	<430.	4-Chloro-3-methylphenol	<430.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	1
2-Chlorophenol		Hexachlorocyclopentadiene	İ
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	\downarrow
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<2100.
Benzyl alcohol		2-Chloronaphthalene	<430.
1,2-Dichlorobenzene	į	2-Nitroaniline	<2100.
2-Methylphenol		Dimethylphthalate	<430.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine	İ	3-Nitroaniline	<2100.
Hexachloroethane	• !	Acenaphthene	<430.
Nitrobenzene		2,4-Dinitrophenol	<2100.
Isophorone	,	4-Nitrophenol	<2100.
2-Nitrophenol		Dibenzofuran	<430.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<2100.	Diethylphthalate	13
Bis (2-chloroethoxy) methane	<430.	4-Chlorophenyl-phenylether	,
2,4-Dichlorophenol		Fluorene	. ↓
1,2,4-Trichlorobenzene	,	4-Nitroanilline	<2100
Naphthalene		4,6-Dinitro-2-methylphenol	<2100.
4-Chloroaniline	1	N-Nitrosodiphenylamine	<430.
5 mm - mbm?		к Мг	

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<430.

August 31, 1995

4-Bromophenyl-phenylether

Date: _

O'Brien & Gere Laboratories, Inc., an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300. Box 4942 / Syracuse. NY 13221 / (315) 437-0200



CLIENT MAESTRI SITE			JOB NO3213	3.008.517
DESCRIPTION Geddes, NY				_
B-13 (10-12')			MATRIX: Sol	id
SAMPLE NO. W5312	DATE COLLECTED	8-3-95	DATE RECEIVED_	8-8-95
	DATE EXTRACTED_	8-9-95	DATE ANALYZED _	8-23-95
Hexachlorobenzene	<430.	Benzo (a) anthracen	e	<430.
Pentachlorophenol	<2100.	Chrysene	1.	
Phenanthrene	<430.	Bis (2-ethylhexyl) ph	thalate	
Anthracene		Di-n-octylphthalate		
Di-n-butylphthalate		Benzo (b) fluoranthe	ne	
Fluoranthene		Benzo (k) fluoranthe	ne	
Pyrene		Benzo (a) pyrene		
Butylbenzylphthalate	,	Indeno (1,2,3-cd) py	rene	
3,3'-Dichlorobenzidine	<850.	Dibenz (a,h) anthrac	ene	
		Benzo (g,h,i) peryler	ne:	
Comments:			Compound List By 82 1986, 3rd Edition	70, SW-846

Certification No.:

10155

Units:

 $\mu g/kg$ dry weight

Page 2 of 2

Authorized: Monka Landuce



CLIENT MAESTRI SITE		JOB NO	3213.008.517
DESCRIPTION Geddes, NY			
B-14 (6-8')		MATRIX:	Solid
SAMPLE NO. W5313	DATE COLLECTED	8-3-95 DATE REC	EIVED 8-8-95
	DATE EXTRACTED	8-9-95 DATE ANA	ALYZED 8-23-95
Phenol	<350.	4-Chloro-3-methylphenol	<350.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene	İ	2,4,6-Trichlorophenol	↓ ·
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<350.
1,2-Dichlorobenzene	1	2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<350.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	4
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane	!	Acenaphthene	<350.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone	·	4-Nitrophenol	<1700.
2-Nitrophenol	.pr	Dibenzofuran	<350.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	i
Bis (2-chloroethoxy) methane	<350.	4-Chlorophenyl-phenylether	1 may 2 5 5 1
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene ***	ž	4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<350.
Hexachlorobutadiene	The state of the s	4-Bromophenyl-phenylether	<350.

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August 31, 1995

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CLIENT MAESTRI SITE		JOE	в NO32 <u>1</u> 3	.008.517
DESCRIPTION Geddes, NY				
B-14 (6-8')		MA	TRIX: Sol	i <u>d</u>
SAMPLE NO. W5313	DATE COLLECTED	8-3-95 DA	TE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95 DA	TE ANALYZED _	8-23-95
Hexachlorobenzene	<350.	Benzo (a) anthracene		<350.
Pentachlorophenol	<1700.	Chrysene	AND STATE OF THE S	<350.
Phenanthrene	<350.	Bis (2-ethylhexyl) phtha	ılate	480.
Anthracene		Di-n-octylphthalate		<350.
Di-n-butylphthalate		Benzo (b) fluoranthene		
Fluoranthene		Benzo (k) fluoranthene	•	
Pyrene	1	Benzo (a) pyrene		
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	e	
3,3'-Dichlorobenzidine	700.	Dibenz (a,h) anthracene	е	
		Benzo (g,h,i) perylene		

Comments:

Methodology: EPA Target Compound List By 8270, SW-846

November 1986, 3rd Edition

Certification No.: 10155

μg/kg dry weight

Page 2 of 2

Authorized: Majuka Lanluce

August 31, 1995



CLIENT MAESTRI SITE		JOB NO	3213.008.517
DESCRIPTION Geddes, NY			
B-15 (8-10')		MATRIX:	Solid
SAMPLE NOW5314	DATE COLLECTED	8-3-95 DATE RECE	8-8-95
	DATE EXTRACTED	8-9-95 DATE ANAI	YZED 8-23-95
Phenol	<390.	4-Chloro-3-methylphenol	<390.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol)
1,4-Dichlorobenzene	İ	2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<390.
1,2-Dichlorobenzene		2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<390.
Bis (2-chloroisopropyl) ether	,	Acenaphthylene	
4-Methylphenol	•	2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1900.
Hexachloroethane	1	Acenaphthene	<390.
Nitrobenzene	1	2.4-Dinitrophenol	<1900.
Isophorone	,	4-Nitrophenol	<1900.
2-Nitrophenol	A modernitation of	Dibenzofuran	<390.
2,4-Dimethylphenol	•	2,4-Dinitrotoluene	The state of the s
Benzoic acid	<1900.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<390.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol	-y, r	Fluorene	· •
1,2,4-Trichlorobenzene	•	4-Nitroaniline	<1900.
Naphthalene	F	4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline	·	N-Nitrosodiphenylamine	<390.
, i	24 m		

Page 1 of 2

Authorized: Marker Santucci

Date: August 31, 1995

<390.

4-Bromophenyl-phenylether

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CLIENT MAESTRI SITE			JOB NO3213	3.008.517
DESCRIPTION Geddes, NY				
B-15 (8-10')			MATRIX: Sol	id
SAMPLE NO	DATE COLLECTED	8-3-95	DATE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95	DATE ANALYZED _	8-23-95
Hexachiorobenzene	<390.	Benzo (a) anthracer	ne	<390.
Pentachlorophenol	<1900.	Chrysene		1
Phenanthrene	<390.	Bis (2-ethylhexyl) pl	hthalate	
Anthracene		Di-n-octylphthalate	E	
Di-n-butylphthalate		Benzo (b) fluoranthene		
Fluoranthene		Benzo (k) fluoranthe	ne	
Pyrene		Benzo (a) pyrene		
Butylbenzylphthalate	V	Indeno (1,2,3-cd) py	rene	
3,3'-Dichlorobenzidine	<770.	Dibenz (a,h) anthrac	cene	
		Benzo (g,h,i) peryle	ne.	A P And And And And And And And And And And
Comments:			t Compound List By 82' 1986, 3rd Edition	70, SW-846
		Certification No.: 10	0155	

Units:

Page 2 of 2

Authorized: Monika Jantuca

August 31, 1995

μg/kg dry weight

O'Brien & Gere Laboratories, Inc., an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300. Box 4942 / Syracuse, NY 13221 / (315) 437-0200



ESCRIPTION Geddes, NY			
B-16 (8-10')		MATRIX: So	olid
AMPLE NOW5315	DATE COLLECTED	8-4-95 DATE RECEIVED	8-8-95
	DATE EXTRACTED	8-9-95 DATE ANALYZE	8-23-95
Phenol	<380.	4-Chloro-3-methylphenol	<380.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	İ
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<380.
1,2-Dichlorobenzene	1	2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<380.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1900.
Hexachloroethane	7 7 2 2	Acenaphthene	<380.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone		4-Nitrophenol	<1900↓
2-Nitrophenol	e verter en en en en en en en en en en en en en	Dibenzofuran	<380.
2,4-Dimethylphenol	•	2,4-Dinitrotoluene	The state of the s
Benzoic acid	<1900.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<380.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol	4:	Fluorene	
1,2,4-Trichlorobenzene	2	4-Nitroaniline	<1900.
Naphthalene	r, s r di res	4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline		N-Nitrosodiphenylamine	<380.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<380.

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August 31, 1995

O'Brien & Gere Laboratories, Inc., an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300. Box 4942 / Syracuse. NY 13221 / (315) 437-0200



LIENTPARESTRI STILL			JOB NO321	3.008.517
Geddes, NY				_
B-16 (8-10')			MATRIX: So	lid
SAMPLE NO. W5315	DATE COLLECTED	8-4-95	DATE RECEIVED	8-8-95
	DATE EXTRACTED	8-9-95	DATE ANALYZED	8-23-95
Hexachiorobenzene	<380.	Benzo (a) ant	thracene	<380.
Pentachlorophenol	<1900.	Chrysene	Part C	<3800.
Phenanthrene	<380.	Bis (2-ethylhe	exyl) phthalate	530.
Anthracene		Di-n-octylpht	halate	<380.
Di-n-butylphthalate		Benzo (b) flu	oranthene	
Fluoranthene		Benzo (k) fluo	oranthene	
Pyrene		Benzo (a) pyr	rene	
Butylbenzylphthalate	✓	Indeno (1,2,3	-cd) pyrene	
3,3'-Dichlorobenzidine	<770.	Dibenz (a,h)	anthracene	
		Benzo (g,h,i)	perylene	

Units:

Page 2 of 2

Authorized: Norike Landuce Date: August 31, 1995

μg/kg dry weight



CLIENT MAESTRI SITE Geddes, NY		JOB	NU	3.008.517
B-16 (16-18')			TRIX: Sol	 lid
SAMPLE NO. W5316	DATE COLLECTED	8-1-05	E RECEIVED_	8-8-95
SAMPLE NU.	DATE EXTRACTED	9 0 05	E ANALYZED	8-23-95
Phenol	<400.	4-Chloro-3-methylpheno	ol	<400.
Bis (2-chloroethyl) ether		2-Methylnaphthalene		1
2-Chlorophenol		Hexachlorocyclopentadie	ene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol		J
1,4-Dichlorobenzene	}	2,4,5-Trichlorophenol		<2000.
Benzyl alcohol		2-Chloronaphthalene		<400.
1,2-Dichlorobenzene		2-Nitroaniline		<2000.
2-Methylphenol		Dimethylphthalate		<400.
Bis (2-chloroisopropyl) ether	1	Acenaphthylene		
4-Methylphenol		2,6-Dinitrotoluene		J
N-Nitroso-di-n-propylamine		3-Nitroaniline		<2000.
Hexachloroethane	1	Acenaphthene		<400.
Nitrobenzene		2,4-Dinitrophenol		<2000.
Isophorone	!	44Nitrophenol		<2000.
2-Nitrophenol		Dibenzofuran	,	<400.
2,4-Dimethylphenol	1	2,4-Dinitrotoluene	on Milly 2" a	American Company
Benzoic acid	<2000.	Diethylphthalate		T _p
Bis (2-chloroethoxy) methane	<400.	4-Chlorophenyl-phenylet	her	Secretary of the secret
2,4-Dichlorophenol		Fluorene		V
1,2,4-Trichlorobenzene	Was a second of the second of	4-Nitroaniline		<2000.
Naphthalene		4,6-Dinitro-2-methylphen	ioi	<2000.
4-Chloroaniline	***	N-Nitrosodiphenylamine	, g	<400.
Hexachlorobutadiene		4-Bromophenyl-phenylet	her	<400.

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Authorized:

August 31, 1995

Date:

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CLIENTMA	ESTRI SITE			JOB NO
DESCRIPTION	Geddes, NY			
	B-16 (16-18')			MATRIX: Solid
SAMPLE NO.	W5316	DATE COLLECTED	8-4-95	DATE RECEIVED 8-8-95
		DATE EXTRACTED		DATE ANALYZED 8-23-95

Hexachlorobenzene	₹400.	Benzo (a) anthracene	<400.
Pentachlorophenol	<2000.	Chrysene	***************************************
Phenanthrene	<400 · ·	Bis (2-ethylhexyl) phthalate	
Anthracene	į	Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	·
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate	•	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<800.	Dibenz (a,h) anthracene	
	•	Benzo (g,h,i) perylene	C

Comments:

Methodology: EPA Target Compound List By 8270, SW-846

November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized: Monka Sankuci



CLIENT MAESTRI SITE		ЈОВ NO32	213.008.517
DESCRIPTION Geddes, NY			
B-17 (8-10')		MATRIX: S	Solid
SAMPLE NO. W5317 DATE COLLI	естер <u>8-4-95</u>	DATE RECEIVE	8-8-95
DATE EXTRA	ACTED 8-9-95	DATE ANALYZE	8-23-95
Phenol <340.	4-Chloro-3-me	ethylphenol	<340.
Bis (2-chloroethyl) ether	2-Methylnapht	thalene	
2-Chlorophenol	Hexachlorocyc	olopentadiene	
1,3-Dichlorobenzene	2,4,6-Trichloro	phenol	1
1,4-Dichlorobenzene	2,4,5-Trichloro	phenol	<1700.
Benzyl alcohol	2-Chloronapht	thalene	<340.
1,2-Dichlorobenzene	2-Nitroaniline		<1700.
2-Methylphenol	Dimethylphtha	ılate	<340
Bis (2-chloroisopropyl) ether	Acenaphthylen	ne	
4-Methylphenol	2,6-Dinitrotolu	ene-	
N-Nitroso-di-n-propylamine	3-Nitroaniline		<1700.
Hexachloroethane	Acenaphthene		<340.
Nitrobenzene	2,4-Dinitrophe	nol	<1700.
Isophorone	4-Nitrophenol		<1700.
2-Nitrophenol	Dibenzofuran		<340.
2,4-Dimethylphenol	2,4-Dinitrotolue	ene	
Benzoic acid <1700.	Diethylphthala	te	
Bis (2-chloroethoxy) methane <340.	4-Chloropheny	yl-phenylether	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2,4-Dichlorophenol	Fluorene		√
1,2,4-Trichlorobenzene	4-Nitroaniline		<1700.
Naphthalene	4,6-Dinitro-2-n	nethylphenol	<1700.
4-Chloroaniline	N-Nitrosodiphe	enylamine	<340.
Hexachlorobutadiene	4-Bromopheny	/I-phenylether	<340.

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CLIENT MAESTRI SITE			JOB NO. 3213.008.517
DESCRIPTION Geddes, NY			
B-17 (8-10')			MATRIX: Solid
SAMPLE NOW5317	DATE COLLECTED	8-4-95	DATE RECEIVED 8-8-95
	DATE EXTRACTED	8-9-95	DATE ANALYZED 8-23-95
Hexachlorobenzene	<340°.	Benzo (a) anthracen	<340.
Pentachlorophenol	<1700.	Chrysene	
Phenanthrene	<340.	Bis (2-ethylhexyl) ph	thalate
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthe	ne
Fluoranthene		Benzo (k) fluoranthei	ne
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate	· v	Indeno (1,2,3-cd) pyr	ene ·
3,3'-Dichlorobenzidine	<690.	Dibenz (a,h) anthrac	ene
		Benzo (g,h,i) perylen	e - 81 2 2

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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CLIENT MAESTRI SITE		JOB NO	3213.008.517
DESCRIPTION Geddes, NY			
B-17 (14-16')		MATRIX:	Solid
SAMPLE NO. W5318	_ DATE COLLECTED	8-4-95 DATE RECI	EIVED 8-8-95
	DATE EXTRACTED	8-9-95 DATE ANA	LYZED 8-23-95
Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	·
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane	and the second	Acenaphthene	√ 370.
Nitrobenzene		2.4-Dinitrophenol	<1800.
Isophorone	·	4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol	,	2,4-Dinitrotoluene	The state of the s
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	<i>,</i>
1,2,4-Trichlorobenzene	ī	4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline	•	N-Nitrosodiphenylamine	<370 .
Hexachlorobutadiene	and the second of the second of the second	4-Bromophenyl-phenylether	<370.

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August 31, 1995



DESCRIPTION Geddes, NY			JOB NO	.008.517
B-17 (14-16'			MATRIX: Sol	id
SAMPLE NO. W5318	DATE COLLECTED DATE EXTRACTED	8-4-95 8-9-95	DATE RECEIVED DATE ANALYZED	8-8-95 8-23-95
Hexachlorobenzene	<370.	Benzo (a) ant	thracene	<370.
Pentachlorophenol	<1800.	Chrysene	· · · · · ·	
Phenanthrene	<370.	Bis (2-ethylhe	exyl) phthalate	
Anthracene		Di-n-octylphtl	halate	
Di-n-butylphthalate		Benzo (b) fluo	oranthene	
Fluoranthene	í	Benzo (k) fluo	oranthene	
Pyrene		Benzo (a) pyr	rene	
Butylbenzylphthalate	٧	Indeno (1,2,3-	-cd) pyrene	
3,3'-Dichlorobenzidine	<740.	Dibenz (a,h) a	anthracene	
		Benzo (g,h,i)	perylene	-

Certification No.:

Units:

μg/kg dry weight

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Authorized: Monke Sonthuci



ESCRIPTION Geddes, NY			
B-18 (6-8')		MATRIX: S	olid
AMPLE NO. W5319	DATE COLLECTED	8-4-95 DATE RECEIVE	8-8-95
	DATE EXTRACTED_	8-9-95 DATE ANALYZE	8-23-05
Phenol	<400.	4-Chloro-3-methylphenol	<400.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	1
2-Chlorophenol	ļ	Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<400.
1,2-Dichlorobenzene	ļ.	2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<400.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	2
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1900.
Hexachloroethane	!	Acenaphthene	<400.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone	1	4-Nitrophenol	<1900.
2-Nitrophenol	A Commenter	Dibenzofuran	<400.
2.4-Dimethylphenol	· ·	2,4-Dinitrotoluene	
Benzoic acid	<1900.	Diethylphthalate	- 180
Bis (2-chloroethoxy) methane	<400.	4-Chlorophenyl-phenylether	70
2,4-Dichlorophenol		Fluorene	√
1,2,4-Trichlorobenzene		4-Nitroaniline	<1900.
Naphthalene	34, */PF = 1 = 1 = 1 ()	4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline	r	N-Nitrosodiphenylamine	<400⊶

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4-Bromophenyl-phenylether

<400.

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CLIENT MAESTRI SITE DESCRIPTION Geddes, NY			JOB NO	.008.517
B-18 (6-8')			MATRIX: Sol	.id
SAMPLE NO. W5319	DATE COLLECTED	8-4-95	DATE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95	DATE ANALYZED_	8-23-95
Hexachlorobenzene	<400.	Benzo (a) anthracen	e	<400.
Pentachlorophenol	<1900.	Chrysene	A 47	1
Phenanthrene	<400.	Bis (2-ethylhexyl) ph	thalate	
Anthracene	1	Di-n-octylphthalate		
Di-n-butylphthalate		Benzo (b) fluoranthe	ne	
Fluoranthene		Benzo (k) fluoranthe	ne	
Pyrene		Benzo (a) pyrene		
Butylbenzylphthalate	· •	Indeno (1,2,3-cd) pyr	rene	
201 Diableschemidine	<800.	Dibenz (a,h) anthrac	ene	
3,3'-Dichlorobenzidine				1

November 1986, 3rd Edition

Certification No.:

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Units:

μg/kg dry weight

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Authorized: __

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CLIENT MAESTRI SITE		JOB NO	213.008.517
DESCRIPTION Geddes, NY			
B-18 (12-14')		MATRIX:	Solid
SAMPLE NO	DATE COLLECTED	8-4-95 DATE RECEIV	8-8-95
	DATE EXTRACTED_	8-9-95 DATE ANALY	ZED8-23-95
Phenol	<360.	4-Chloro-3-methylphenol	<360.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	1
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	< 36 0.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<360.
Bis (2-chloroisopropyl) ether		Acenaphthylene	l :
4-Methylphenol		2,6-Dinitrotoluene	Ĺ
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<360.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone	'	4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<360.
2,4-Dimethylphenol	, ,	2,4-Dinitrotoluene	The state of the s
Benzoic acid	<1800.	Diethylphthalate	•
Bis (2-chloroethoxy) methane	<360.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	· ~
1,2,4-Trichlorobenzene	·	4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline	· · · · · · · · · · · · · · · · · · ·	N-Nitrosodiphenylamine	<360.

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<360.

August 31, 1995

4-Bromophenyl-phenylether

Date:

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MAESTRI SITE Geddes, NY			_ JOB NO321	3.008.517
B-18 (12-14')			MATRIX: So	 lid
AMPLE NO. W5320	DATE COLLECTED	8-4-95	DATE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95	DATE ANALYZED	8-23-95
Hexachlorobenzene	<360.	Benzo (a) anthrac	ene	<360.
Pentachlorophenol	<1800.	Chrysene		1
Phenanthrene	<360.	Bis (2-ethylhexyl)	phthalate	
Anthracene		Di-n-octylphthalat		
Di-n-butylphthalate		Benzo (b) fluorant	hene	
Fluoranthene		Benzo (k) fluorant	hene	
Pyrene		Benzo (a) pyrene		
Butylbenzylphthalate	·v	Indeno (1,2,3-cd)	pyrene	le le le le le le le le le le le le le l
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) anthr	racene	
		Benzo (g,h,i) pery	lene	To the state of th
mments:			get Compound List By 8: er 1986, 3rd Edition	270, SW-846

Certification No.:

Units:

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Authorized: Monks fandree:

Date: August 31, 1995

10155

 $\mu g/kg$ dry weight

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CLIENT MAESTRI SITE		JOB NO	oo.
DESCRIPTIONGeddes, NY			
B-21 (16-18')		MATR:	IX: Solid
SAMPLE NO. W5321	DATE COLLECTED	8-4-95 DATE	RECEIVED8-8-95
	DATE EXTRACTED	8-9-95 DATE	ANALYZED 8-23-95
Phenol	<400.	4-Chloro-3-methylphenol	<400.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	ĺ
2-Chlorophenol		Hexachlorocyclopentadiene	,
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<400.
1,2-Dichlorobenzene		2-Nitroaniline	<1900.
2-Methylphenol	1	Dimethylphthalate	<400.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol	,	2,6-Dinitrotoluene	1
N-Nitroso-di-n-propylamine	- Company	3-Nitroaniline	<1900.
Hexachloroethane	i	Acenaphthene	<400.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone		4-Nitrophenol	<1900
2-Nitrophenol		Dibenzofuran	<400.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<1900.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<400.	4-Chlorophenyl-phenylethe	7
2,4-Dichlorophenol		Fluorene	,
1,2,4-Trichlorobenzene		4-Nitroaniline	<1900.
Naphthalene	To the	4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline	ī	N-Nitrosodiphenylamine	<400.
Hexachlorobutadiene		4-Bromophenyl-phenylethe	r <400.

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CLIENT MAESTRI SITE			JOB NO. <u>3213</u>	<u>5.008.517</u>
DESCRIPTION Geddes, NY				
B-21 (16-18')			MATRIX: Sol	id
SAMPLE NO. <u>W5321</u>	DATE COLLECTED	8-4-95	DATE RECEIVED_	8-8-95
	DATE EXTRACTED_	8-9-95	DATE ANALYZED _	8-23-95
		•		
Hexachlorobenzene	<400.	Benzo (a) anthr		<400.
Pentachlorophenol	<1900.	Chrysene		1
Phenanthrene	<400.	Bis (2-ethylhexy	yl) phthalate	
Anthracene		Di-n-octylphtha	ilate	
Di-n-butylphthalate	}	Benzo (b) fluora	anthene	
Fluoranthene		Benzo (k) fluora	anthene	
Pyrene		Benzo (a) pyrer	пе	1
Butylbenzylphthalate	•	Indeno (1,2,3-co	d) pyrene	
3,3'-Dichlorobenzidine	<800.	Dibenz (a,h) an	thracene	
		Benzo (g,h,i) pe	erylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846

November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized: Moreka Sanfuce

Date:



Geddes, NY		JOB NO	
B-21 (20-22')		MATRIX: So	lid
SAMPLE NO. W5322	DATE COLLECTED	8-4-95 DATE RECEIVED	8-8-95
	DATE EXTRACTED	8-9-95 DATE ANALYZED	8-23-95
Phenol	<390.	4-Chloro-3-methylphenol	<390.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	1
2-Chlorophenol	ŀ	Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	1
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1900.
Benzyl alcohol		2-Chloronaphthalene	<390.
1,2-Dichlorobenzene		2-Nitroaniline	<1900.
2-Methylphenol		Dimethylphthalate	<390.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	1
N-Nitroso-di-n-propylamine	Ì	3-Nitroaniline	<1900.
Hexachloroethane	;	Acenaphthene	<390.
Nitrobenzene		2,4-Dinitrophenol	<1900.
Isophorone	1	4-Nitrophenol	<1900.
2-Nitrophenol		Dibenzofuran	<390.
2,4-Dimethylphenol	· •	2,4-Dinitrotoluene	
Benzoic acid	<1900.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<390.	4-Chlorophenyl-phenylether	4.4
2,4-Dichlorophenol	**	Fluorene	, *
1,2,4-Trichlorobenzene	•	4-Nitroanifine	<1900.
Naphthalene		4,6-Dinitro-2-methylphenol	<1900.
4-Chloroaniline	. 1	N-Nitrosodiphenylamine	<390.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<390.

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CLIENTMA	ESTRI SITE			JOB NO3213.008.517
DESCRIPTION_	Geddes, NY			
	B-21 (20-22')			MATRIX: Solid
SAMPLE NO	W5322	DATE COLLECTED	8-4-95	DATE RECEIVED 8-8-95
		DATE EXTRACTED		DATE ANALYZED 8-23-95

Hexachlorobenzene	<390.	Benzo (a) anthracene	<390.
Pentachlorophenol	<1900.	Chrysene	1
Phenanthrene	<390.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate	ļ	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<770.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	j

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized: Monika Santurei



ESCRIPTION Geddes, NY				
B-19 (14-16')	RIX: Sol	Solid		
SAMPLE NO. W5323	DATE COLLECTED	8-7-95DAT	E RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95DAT	E ANALYZED	8-23-95
Phenol	<400.	4-Chloro-3-methylpheno	ol	<400.
Bis (2-chloroethyl) ether		2-Methylnaphthalene		
2-Chlorophenol		Hexachlorocyclopentadiene		
1,3-Dichlorobenzene		2,4,6-Trichlorophenol		\downarrow
1,4-Dichlorobenzene]	2,4,5-Trichlorophenol		<1900.
Benzyl alcohol		2-Chloronaphthalene		<400.
1,2-Dichlorobenzene	,	2-Nitroaniline		<1900.
2-Methylphenol		Dimethylphthalate		<400.
Bis (2-chloroisopropyl) ether		Acenaphthylene		
4-Methylphenol		2,6-Dinitrotoluene		↓
N-Nitroso-di-n-propylamine		3-Nitroaniline		<1900.
Hexachloroethane		Acenaphthene	94.	<400≀.
Nitrobenzene		2,4-Dinitrophenol		<1900.
Isophorone	!	4-Nitrophenol		<1900.
2-Nitrophenol		Dibenzofuran		<400.
2,4-Dimethylphenol	· •	2,4-Dinitrotoluene	· '*	
Benzoic acid	<1900.	Diethylphthalate		
Bis (2-chloroethoxy) methane	<400.	4-Chlorophenyl-phenylet	ther	
2,4-Dichlorophenol	,	Fluorene		Į.
1,2,4-Trichlorobenzene	į	4-Nitroaniline	, all	<1900.
Naphthalene	in the second	4,6-Dinitro-2-methylpher	nol	<1900.
4-Chloroaniline	*	N-Nitrosodiphenylamine		<400.
Hexachlorobutadiene	4-Bromophenyl-phenyle	ther	<400.	

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CLIENTMAESTRI SITE			JOB NO3213	3.008.517	
DESCRIPTION Geddes, NY					
B-19 (14-16')			MATRIX: Sol	Solid	
SAMPLE NO. W5323	DATE COLLECTED	8-7-95	DATE RECEIVED_	8-8-95	
	DATE EXTRACTED	8-9-95 DATE	DATE ANALYZED _	8-23-95	
Hexachlorobenzene	<400.	Benzo (a) anth	nracene	<400.	
Pentachlorophenol	<1900.	Chrysene		1	
Phenanthrene	<400.	Bis (2-ethylhexyl) phthalate			
Anthracene	i	Di-n-octylphth	alate		
Di-n-butylphthalate		Benzo (b) fluoranthene			
Fluoranthene		Benzo (k) fluoranthene		ļ	
Pyrene		Benzo (a) pyre	ene		
Butylbenzylphthalate	V	Indeno (1,2,3-c	od) pyrene		
3,3'-Dichlorobenzidine	<800.	0. Dibenz (a,h) anthracene		f .	
		Benzo (g,h,i) p	perylene.		
Comments:			Target Compound List By 82 ember 1986, 3rd Edition	270, SW-846	

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized: Marike Santuce



CLIENT MAESTRI SITE		JOB NO	3213.008.517	
DESCRIPTION Geddes, NY B-20 (10-12')		MATRIX:	Solid	
SAMPLE NO. W5324	DATE COLLECTED	8-7-95 DATE RECE	IVED 8-8-95	
SAMPLE NU	DATE EXTRACTED	8-9-95 DATE ANAL	0 07 05	
Phenol	<370.	4-Chloro-3-methylphenol	<370.	
Bis (2-chloroethyl) ether		2-Methylnaphthalene	1	
2-Chlorophenol		Hexachlorocyclopentadiene		
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	\downarrow	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.	
Benzyl alcohol		2-Chloronaphthalene	<370.	
1,2-Dichlorobenzene		2-Nitroaniline	<1800.	
2-Methylphenol	and the second second	Dimethylphthalate	<370.	
Bis (2-chloroisopropyl) ether		Acenaphthylene		
4-Methylphenol		2,6-Dinitrotoluene	1 .	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.	
Hexachloroethane	1	Acenaphthene	<370.	
Nitrobenzene		2,4-Dinitrophenol	<1800.	
Isophorone	'	4-Nitrophenol	<1800.	
2-Nitrophenol	1	Dibenzofuran	<370.	
2,4-Dimethylphenol	V	2,4-Dinitrotoluene		
Benzoic acid	<1800.	Diethylphthalate		
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether		
2,4-Dichlorophenol	4	Fluorene	· ~	
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.	
Naphthalene	W	4.6-Dinitro-2-methylphenol	<1800.	
4-Chloroaniline	8	N-Nitrosodiphenylamine	<370.	
· Nation	, your afterways of the same			

Page 1 of 2

Authorized: Morika Sanfuce

4-Bromophenyi-phenylether

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Hexachlorobutadiene

August 31, 1995

<370.



CLIENT MAESTRI SITE			JOB NO. 3213	3.008.517
DESCRIPTION Geddes, NY				
B-20 (10-12')			MATRIX: Sol	lid
SAMPLE NO. W5324	DATE COLLECTED	8-7-95	DATE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95	DATE ANALYZED _	8-23-95
Hexachiorobenzene	<370.	Benzo (a) antl	hracene	<370.
Pentachlorophenol	<1800.	Chrysene	Marine San Carlos	1
Phenanthrene	<370.	Bis (2-ethylhe	xyl) phthalate	ļ
Anthracene		Di-n-octylphth	palate	
Di-n-butylphthalate		Benzo (b) fluo	eranthene	
Fluoranthene		Benzo (k) fluo	ranthene	
Pyrene		Benzo (a) pyre	ene	•
Butylbenzylphthalate	✓	Indeno (1,2,3-	cd) pyrene	
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) a	anthracene	
		Benzo (g,h,i) p	perylene	
omments:			Target Compound List By 82 ember 1986, 3rd Edition	270. SW-846
		Certification No.:	10155	

Units:

Page 2 of 2

μg/kg dry weight



CLIENT MAESTRI SITE		JOB NO	3213.008.517
DESCRIPTION Geddes, NY			
B-23 (12-14')		MATRIX:	Solid
SAMPLE NO	DATE COLLECTED	8-7-95 DATE RECE	IVED 8-8-95
	DATE EXTRACTED	8-9-95 DATE ANAL	YZED8-23-95
Phenoi	<360.	4-Chloro-3-methylphenol	<360.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	↓
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1700.
Benzyl alcohol		2-Chloronaphthalene	<360.
1,2-Dichlorobenzene	1	2-Nitroaniline	<1700.
2-Methylphenol		Dimethylphthalate	<360.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1700.
Hexachloroethane		Acenaphthene	<360.
Nitrobenzene		2,4-Dinitrophenol	<1700.
Isophorone	·	4-Nitrophenol	<1700
2-Nitrophenol		Dibenzofuran	<360.
2,4-Dimethylphenol	· •	2,4-Dinitrotoluene	
Benzoic acid	<1700.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<360.	4-Chlorophenyl-phenylether	A VALUE OF THE PROPERTY OF THE
2,4-Dichlorophenol	29 m	Fluorene	1
1,2,4-Trichlorobenzene		4-Nitroaniline	<1700.
Naphthalene	The state of the s	4,6-Dinitro-2-methylphenol	<1700.
4-Chloroaniline		N-Nitrosodiphenylamine	<360.

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<360.

Authorized: Months Surface

August 31, 1995

4-Bromophenyl-phenylether

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CLIENT MAESTRI SITE		JOB NO. 3213.008.517
DESCRIPTION Geddes, NY		
B-23 (12-14')		MATRIX: Solid
SAMPLE NO. W5325 DATE COL	LECTED 8-7-95	DATE RECEIVED 8-8-95
DATE EXT	RACTED 8-9-95	DATE ANALYZED 8-23-95

Hexachlorobenzene	<360).	Benzo (a) anthracene	<360.
Pentachlorophenol	<1700).	Chrysene	1
Phenanthrene	<360) .	Bis (2-ethylhexyl) phthalate	
Anthracene			Di-n-octylphthalate	
Di-n-butylphthalate			Benzo (b) fluoranthene	
Fluoranthene			Benzo (k) fluoranthene	
Pyrene			Benzo (a) pyrene	
Butylbenzylphthalate		,	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<720).	Dibenz (a,h) anthracene	t
			Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

Page 2 of 2

Authorized: Monika Sanline August 31, 1995

Date: _

O'Brien & Gere Laboratories, Inc., an O'Brien & Gere Company 5000 Brittonfield Parkway / Suite 300. Box 4942 / Syracuse, NY 13221 / (315) 437-0200



CLIENT MAESTRI SITE		JOB NO32	213.008.517
DESCRIPTION Geddes, NY B-23 (14-16')		MATRIX: S	 Solid
SAMPLE NO. W5326	DATE COLLECTED	8-7-95 DATE RECEIVE	0.0.05
SAMPLE NO	DATE EXTRACTED_	8-9-95 DATE ANALYZ	0 27 05
Phenol	<370.	4-Chloro-3-methylphenol	<370.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	1
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<370.
1,2-Dichlorobenzene	İ	2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<370.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	↓
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<370 ⋅
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone	·	4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<370.
2,4-Dimethylphenol	· ·	2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<370.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	V
1,2,4-Trichlorobenzene	1	4-Nitroaniline	<1800.
Naphthalene ***		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline	•	N-Nitrosodiphenylamine	<370.

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Authorized: Morile Landucei

<370.

Date: ____August 31, 1995

4-Bromophenyl-phenylether



CLIENT MAESTRI SITE		JOE	в NO3213	.008.517
DESCRIPTION Geddes, NY				
B-23 (14-16')		MA	TRIX: Sol	id
SAMPLE NOW5326	DATE COLLECTED	8-7-95 DA	TE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95 DA	TE ANALYZED _	8-23-95
Hexachlorobenzene	<3 70 .	Benzo (a) anthracene		<370.
Pentachlorophenol	<1800.	Chrysene	F.	İ
Phenanthrene	<370.	Bis (2-ethylhexyl) phtha		
Anthracene		Di-n-octylphthalate	ATTE.	
Di-n-butylphthalate		Benzo (b) fluoranthene		
Fluoranthene		Benzo (k) fluoranthene		
Pyrene		Benzo (a) pyrene		
Butylbenzylphthalate	V	Indeno (1,2,3-cd) pyreno	8	
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) anthracene	•	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846

Benzo (g,h,i) perylene

November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized:

Date:

August 31, 1995

Monke Santucci



CLIENT MAESTRI SITE		JOB NO32	213.008.517
ESCRIPTION Geddes, NY			
B-25 (10-12')		MATRIX: S	Solid
AMPLE NO. <u>W5</u> 327	DATE COLLECTED	8-7-95 DATE RECEIVE	D 8-8-95
	DATE EXTRACTED	8-9-95 DATE ANALYZ	8-23-95
Phenol	<400.	4-Chloro-3-methylphenol	<400.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	1
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	\downarrow
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<2000.
Benzyl alcohol		2-Chloronaphthalene	<400.
1,2-Dichlorobenzene		2-Nitroaniline	<2000.
2-Methylphenol		Dimethylphthalate	<400.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<2000.
Hexachloroethane	·	Acenaphthene	<400.
Nitrobenzene		2,4-Dinitrophenol	<2000.
Isophorone	·	4-Nitrophenol	<2000.
2-Nitrophenol		Dibenzofuran	<400.
2,4-Dimethylphenol	v	2,4-Dinitrotoluene	- I - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Benzoic acid	<2000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<400.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	·/
1,2,4-Trichlorobenzene		4-Nitroaniline	<2000.
Naphthalene		4,6-Dinitro-2-methylphenol	<2000.
4-Chloroaniline		N-Nitrosodiphenylamine	<400.
- Me - M	· · · · · · · · · · · · · · · · · · ·		

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Monke to August 31, 1995

4-Bromophenyl-phenylether

Date: .

<400.

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B-25 (10-12')			MATRIX: Sol	id
AMPLE NO. W5327	DATE COLLECTED	8-7-95	DATE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95 DATE ANALYZ		8.27.05
Hexachlorobenzene	<400.	Benzo (a) anthracer	ne	<400.
Pentachlorophenol	<2000.	Chrysene	4	1
Phenanthrene	<400.	Bis (2-ethylhexyl) pl	hthalate	
Anthracene		Di-n-octylphthalate	į, e	
Di-n-butylphthalate		Benzo (b) fluoranthe	ene	
Fluoranthene		Benzo (k) fluoranthe	ene	
Pyrene		Benzo (a) pyrene		
Butylbenzylphthalate	<u> </u>	Indeno (1,2,3-cd) py	rene	
3,3'-Dichlorobenzidine	<810.	Dibenz (a,h) anthrac	cene	
		Benzo (g,h,i) peryle	ne	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized:

August 31, 1995 Date:



CLIENT MAESTRI SITE		JOB NO321	3.008.517
DESCRIPTION Geddes, NY			
<u>B-25 (18-20'.)</u>		MATRIX: So	lid
SAMPLE NO. W5328	DATE COLLECTED	8-7-95 DATE RECEIVED	8-8-95
	DATE EXTRACTED	8-9-95 DATE ANALYZED	8-23-95
Phenol	<380.	4-Chloro-3-methylphenol	<380.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	1
2-Chlorophenol	1	Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol	1	2-Chloronaphthalene	<380.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<380.
Bis (2-chloroisopropyl) ether		Acenaphthylene	1
4-Methylphenol		2,6-Dinitrotoluene	Ţ
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane	,	Acenaphthene	<380.
Nitrobenzene		2.4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<380.
2,4-Dimethylphenol	•	2,4-Dinitrotoluene	The state of the s
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<380.	4-Chlorophenyl-phenylether	3.
2,4-Dichlorophenol		Fluorene	~
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene		4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<380.

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Authorized: Montes Santucci

Date: ___

4-Bromophenyl-phenylether

August 31, 1995

<380.



MAESTRI SITE			ов но3213	.008.517
Geddes, NY				
B-25 (18-20')		M	ATRIX: So1	id
SAMPLE NO. W5328	DATE COLLECTED	8-7-95	ATE RECEIVED	8-8-95
	DATE EXTRACTED	8-9-95	PATE ANALYZED _	8-23-95
Hexachlorobenzene	<380. ₹	Benzo (a) anthracene		<380.
Pentachlorophenol	<1800.	Chrysene	B. Office of the	ŀ
Phenanthrene	<380.	Bis (2-ethylhexyl) phth	nalate	
Anthracene	1	Di-n-octylphthalate		
Di-n-butylphthalate		Benzo (b) fluoranthen	е	
Fluoranthene		Benzo (k) fluoranthene	e	
Pyrene		Benzo (a) pyrene		
Butylbenzylphthalate	↓	Indeno (1,2,3-cd) pyre	ne	
3,3'-Dichlorobenzidine	<750.	Dibenz (a,h) anthrace	ne	
		Benzo (g,h,i) perylene	,	1.

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized: Monka Sa

August 31, 1995 Date: ___



CLIENT MAESTRI SITE		JOB NO	3213.008.517
DESCRIPTION Geddes, NY			
B-22 (12-14')		MATRIX:	Solid
SAMPLE NO. W5329	DATE COLLECTED	8-7-95 DATE REC	EIVED 8-8-95
	DATE EXTRACTED	8-9-95 DATE ANA	LYZED 8-23-95
Phenol	<380.	4-Chloro-3-methylphenol	<380.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	1
2-Chlorophenol	4	Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	1
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<380.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<380.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene	<380.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol	No.	Dibenzofuran	<380.
2,4-Dimethylphenol	V	2,4-Dinitrotoluene	
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<380.	4-Chlorophenyl-phenylether	the state of the s
2,4-Dichlorophenol	> ∰ ₁₀ ≠	Fluorene	v
1,2.4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene	The state of the s	4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline		N-Nitrosodiphenylamine	<380.

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Authorized: Monde Sanduica

Date: August 31, 1995

<380.

4-Bromophenyl-phenylether

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B-22 (12-14')			MATRIX: Sol	id
SAMPLE NOW5329	DATE COLLECTED	8-7-95	DATE RECEIVED	8-8-95
	DATE EXTRACTED	8-9-95	DATE ANALYZED _	8-23-95
Hexachlorobenzene	<380.	Benzo (a) anth	racene	<380.
Pentachlorophenol	<1800.	Chrysene	· Don't was	1
Phenanthrene	<380.	Bis (2-ethylhex	kyl) phthalate	
Anthracene		Di-n-octylphth	alate	
Di-n-butylphthalate		Benzo (b) fluor	ranthene	
Fluoranthene	·	Benzo (k) fluor	anthene	
Pyrene	All the state of t	Benzo (a) pyre	ne	
Butylbenzylphthalate	IJ	Indeno (1,2,3-c	od) pyrene	
3,3'-Dichlorobenzidine	<760.	Dibenz (a,h) a	nthracene	Ì
		Benzo (g,h,i) p	erylene	

November 1986, 3rd Edition

Certification No.:

10155

Units:

μg/kg dry weight

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Authorized: August 31, 1995

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CLIENT MAESTRI SITE		JOB NO	3213.008.517
DESCRIPTION Geddes, NY			
B-24 (8-10')		MATRIX:	Solid
SAMPLE NO	_ DATE COLLECTED _	8-7-95 DATE RECEI	ved 8-8-95
	DATE EXTRACTED	8-9-95 DATE ANALY	ZED 8-24-95
Phenol	<360.	4-Chloro-3-methylphenol	<360.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene	[2,4,6-Trichlorophenol	J
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<1800.
Benzyl alcohol		2-Chloronaphthalene	<360.
1,2-Dichlorobenzene		2-Nitroaniline	<1800.
2-Methylphenol		Dimethylphthalate	<360.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<1800.
Hexachloroethane		Acenaphthene **	<360.
Nitrobenzene		2,4-Dinitrophenol	<1800.
Isophorone		4-Nitrophenol	<1800.
2-Nitrophenol		Dibenzofuran	<360.
2,4-Dimethylphenol	· •	2,4-Dinitrotoluene	A State of the sta
Benzoic acid	<1800.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<360.	4-Chlorophenyl-phenylether	· · · · · · · · · · · · · · · · · · ·
2,4-Dichlorophenol	P. Commission of the Commissio	Fluorene	V
1,2,4-Trichlorobenzene		4-Nitroaniline	<1800.
Naphthalene	*	4,6-Dinitro-2-methylphenol	<1800.
4-Chloroaniline	Ĭ	N-Nitrosodiphenylamine	<360.

Page 1 of 2

Authorized: Monks Santucei

<360.

4-Bromophenyl-phenylether

Date: August 31, 1995



CLIENT MAESTRI SITE DESCRIPTION Geddes, NY		JOB NO3213	5.008.517
B-24 (8-10')		MATRIX: Sol	id
SAMPLE NO	DATE COLLECTED	8-7-95 DATE RECEIVED_	8-8-95
	DATE EXTRACTED	8-9-95 DATE ANALYZED	8-24-95
Hexachlorobenzene	<360.	Benzo (a) anthracene	<360.
Pentachlorophenol	<1800.	Chrysene Chrysene	1
Phenanthrene	<360.	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate	-	Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene	ĺ	Benzo (a) pyrene	
Butylbenzylphthalate	v	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<730.	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	J.
Comments:		Methodology: EPA Target Compound List By 82 November 1986, 3rd Edition	70, SW-846
		Certification No.: 10155	

Units:

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Authorized: / /仏)

Date: August 31, 1995

μg/kg dry weight



CLIENT MAESTRI SITE		JOB NO3213	3.008.517
DESCRIPTION Geddes, NY			
Equipment Bla	nk	MATRIX: Wat	er
SAMPLE NO. W5331	DATE COLLECTED	8-7-95 DATE RECEIVED_	8-8-95
	DATE EXTRACTED_	8-9-95 DATE ANALYZED	8-24-95
Phenol	<11.	4-Chloro-3-methylphenol	<11.
Bis (2-chloroethyl) ether	1	2-Methylnaphthalene	İ
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<54.
Benzyl alcohol		2-Chloronaphthalene	<11.
1,2-Dichlorobenzene		2-Nitroaniline	<54.
2-Methylphenol		Dimethylphthalate	<11.
Bis (2-chloroisopropyl) ether		Acenaphthylene	1
4-Methylphenol		2,6-Dinitrotoluene	Consumer of the consumer of th
N-Nitroso-di-n-propylamine	-	3-Nitroaniline	<54.
Hexachloroethane	; 	Acenaphthene	<11.
Nitrobenzene		2,4-Dinitrophenol	<54.
Isophorone		4-Nitrophenol	<54 .
2-Nitrophenol		Dibenzofuran	<11.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<54 .	Diethylphthalate	
Bis (2-chloroethoxy) methane	<11.	4-Chlorophenyl-phenylether	- The state of the
2,4-Dichlorophenol	*	Fluorene	V
1,2,4-Trichlorobenzene		4-Nitroaniline	<54.
Naphthalene	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,6-Dinitro-2-methylphenol	<54.
4-Chloroaniline		N-Nitrosodiphenylamine	<11.

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<11.

Authorized: Moreka Sanlucci

Date: August 31, 1995

4-Bromophenyl-phenylether



CLIENTMAI	STRI SITE			_ JOB NO3213	3.008.517
DESCRIPTION	Geddes, NY				
	Equipment Blank			MATRIX: Wat	ter
SAMPLE NO.	W5331	_ DATE COLLECTED	8-7-95	DATE RECEIVED_	8-8-95
J 22 1101		DATE EXTRACTED		DATE ANALYZED	

Hexachlorobenzene	×11.	Benzo (a) anthracene	<11.
Pentachlorophenol	<54.	Chrysene	
Phenanthrene	<11.	Bis (2-ethylhexyl) phthalate	
Anthracene	Ì	Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene	a pro-	Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate	.	Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<22.	Dibenz (a,h) anthracene	1
		Benzo (g,h,i) perylene	1

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.:

10155

Units:

 $\mu g/1$

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Authorized: __

August 31, 1995