SOIL MANAGEMENT PLAN

180-182 EXCHANGE BOULEVARD
ROCHESTER, NEW YORK

NYSDEC Spill No. 0070040

NOVEMBER 2002

Prepared For:

CITY OF ROCHESTER
DIVISION OF ENVIRONMENTAL QUALITY
30 CHURCH STREET, ROOM 300 B
ROCHESTER, NEW YORK 14614

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November 12, 2002

Mr. Joseph J. Biondolillo
Environmental Specialist
Division of Environmental Quality
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1278

RE: Soil Management Plan **15155.07**
180-182 Exchange Boulevard
Rochester, New York

Dear Joe:

Enclosed please find three copies of the final Soil Management Plan for the 180-182 Exchange Boulevard site located in the City of Rochester, Monroe County, New York.

Should you have any questions, please do not hesitate to contact me at 585-475-1440 extension 760.

Sincerely,

Michael P. Storonsky
Senior Associate

Enclosure

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Prepared For:

CITY OF ROCHESTER
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30 CHURCH STREET, ROOM 300 B
ROCHESTER, NEW YORK 14614

Prepared By:

THE SEAR-BROWN GROUP, INC.
85 METRO PARK
ROCHESTER, NEW YORK 14623

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1.0 Introduction

1.1 Purpose

This Soil Management Plan (SMP) has been developed at the request of the City of Rochester and pertains to 180-182 Exchange Boulevard in the City of Rochester, New York (Drawing EN1). It has been developed to assist the City, potential developers and designers in planning for development, monitoring, management and characterization of impacted fill materials and water that may be encountered during subsurface activities that may occur at the subject property. In particular, it is understood that the 18-inch diameter cast-iron cooling water discharge line, which is maintained by the Monroe County Civic Center and transects an area of documented subsurface contamination, may be replaced in the next few years.

New York State Department of Environmental Conservation (NYSDEC) regulations require management of hazardous and non-hazardous solid waste as contained in 6 NYCRR Parts 371-376 and 6 NYCRR Part 360, respectively. Proper management will require that care be taken in planning, monitoring and characterizing the soil/fill materials and water to confirm their non-hazardous status and allow for proper off-site disposal or relocation on-site. This SMP provides guidance for planning and performing such monitoring, testing and management of excavated soil/fill materials or groundwater that may be encountered at the 180-182 Exchange Boulevard property (hereto referred to as the Site).

1.2 Background

The Site is comprised of two parcels totaling 1.67 acres and located at 180-182 Exchange Boulevard, in the City of Rochester, in the County of Monroe, New York (Drawing EN2). The western portion of the Site is currently a commercially operated parking lot, while the eastern portion of the Site was redeveloped as a pedestrian/bicycle trail in August 2000. Historic Sanborn maps available for the Site and dating back to the late nineteenth century indicate that it was the previous location of the Monroe County Jail and Monroe County Garage. The Sanborn maps further indicate the historic presence of a millrace, within the eastern portion of the Site, which discharged to the abutting Genesee River. Based upon review of these maps, it is evident that the millrace was filled in and a metal quonset hut erected for use as the Monroe County Sheriff's Garage between 1950 and 1971. The quonset hut was demolished in July 2000 by others as part of the development of the pedestrian/bicycle trail and to facilitate remedial activities designed to address subsurface petroleum contamination identified beneath and adjacent to the metal quonset hut. Although the exact operations conducted in conjunction with the former garage have not been determined, the Sanborn maps and other historical records [e.g., City of Rochester Building Information System

(BIS) permits and Fire Department records] indicate the historical presence of underground storage tanks at the Site.

A Phase I Environmental Site Assessment (ESA) was conducted by Day Environmental, Inc. (Day) in September 1998 and is documented in the "Phase I Environmental Site Assessment Report" dated September 9, 1998.

In October 1998, Sear-Brown performed a Phase II ESA to address the environmental concerns documented in the Day Phase I ESA Report. A Supplemental Phase II Investigation was conducted in November 1998 to assess contamination near the northeastern corner of the quonset hut. The results of both investigations were documented in the "Phase II Environmental Investigation Report" dated February 23, 1999. This report indicates that concentrations of petroleum-related compounds were present in soils at the Site above NYSDEC soil guidance values. The affected soils were located adjacent to the northern footprint of the quonset hut.

Additional Phase II Environmental Investigation activities were conducted by Sear-Brown in 1999 to further delineate the extent of the petroleum impacts to the soil and groundwater at the Site, as well as investigate a series of magnetic anomalies found during an EM-61 geophysical survey of the Site performed as part of the Phase II ESA conducted in 1998. Based on the findings of these additional investigation activities, the limits of the petroleum contamination in both soil and groundwater were estimated and indicated petroleum-related impacts extending beneath the northern portion of the metal quonset hut. These results, as well as a summary of the previous Phase II investigations performed by Sear-Brown, were used to develop a Corrective Action Plan (CAP) for the Site. The Phase II activities and CAP are discussed in the Sear-Brown report entitled "Additional Phase II Environmental Investigation/Corrective Action Plan Report" dated July 2000.

The findings of the Sear-Brown subsurface investigations were forwarded to the NYSDEC for review. The former property owner (Monroe County) forwarded a letter to the NYSDEC on March 31, 1999 along with a copy of the Sear-Brown "Phase II Environmental Investigation Report" (February 23, 1999). A NYSDEC Spill Report File was opened on April 19, 2000, and assigned Spill Number 0070040. The spill was attributed to tank failure and an unknown quantity of gasoline was reported to have affected the Site. On July 6, 2000, a copy of the "Additional Phase II Environmental Investigation/Corrective Action Plan Report" (July 2000) was forwarded to the NYSDEC for review and approval. Verbal approval of the CAP was given by Mr. Peter Miller of the NYSDEC.

The remedial program described in the CAP was begun by Sear-Brown in July 2000. The methods and results of these remedial activities are presented in the Sear-Brown "Subsurface Remediation Report" dated April 2001. The remediation activities included:

- Groundwater Monitoring Well Abandonment;
- Soil Excavation, Removal and Off-Site Disposal;
- UST Removal and Disposal;
- Confirmatory Soil Sample Collection and Analysis;
- Application of Oxygen Releasing Compound® (ORC®) to treat residual contamination;
- Backfill, Compaction and Site Restoration;
- Test Pits;
- ORC® Slurry Injections;
- Installation of Replacement Bedrock Monitoring Wells;
- Monitoring Well Sample Collection and Analysis;
- Staged Drum Disposal, and
- Petroleum Spill Site Inactivation Evaluation.

Excavation was conducted within and adjacent to the northern portion of the former quonset hut at the northeastern extent of the Site. A total of approximately 1,207 cubic yards of material were excavated to bedrock as a result of the remedial activities, approximately 410 cubic yards (616 tons) of which were petroleum-contaminated soil and were transported off-site for disposal at the Monroe County Mill Seat Landfill located in Riga, New York. The excavated area is labeled "excavation limits" on Drawing EN2. Due to the excavation activities, the soil in the areas of MW-1, MW-2, B-4, GP-101, GP-102, GP-104 and GP-105 was removed.

Excavation was limited in three of the four directions by utility and property boundary constraints. An 18-inch diameter cast-iron cooling water discharge line, maintained by the Monroe County Civic Center, transects the impacted area to the north. As a result, a sloped excavation was conducted south of the pipe and no excavation was initiated north of, or directly under the pipe. Results of test pitting and previous soil borings to the north of the pipe indicated that the volume of accessible impacted soil within that area was approximately ten percent (44 cubic yards) of the total volume of impacted soil removed as part of the remedial activities. Concentrations of total benzene, toluene, ethylbenzene and xylenes (BTEX) in accessible soils remaining north of the pipe were generally one to three orders of magnitude less than those from soils removed south of the discharge line. To address the affected area north of the pipe, supplemental ORC® slurry injections were conducted following the excavation program. In addition, ORC® injection points were placed along the western and northeastern excavation boundaries in areas where excavation was limited by the location of utility lines and the Genesee River retaining wall.

In October 2000 and January 2001, Sear-Brown conducted post-remedial groundwater sampling events at the Site. Subsequent to receipt of the analytical results, a Petroleum Spill Site Inactivation (PSSI) Evaluation was performed to determine if the Site is protective of human health and the environment. Since the

depth to contamination is greater than 3 feet below ground surface, public users were precluded as potential receptors in the evaluation as inhalation of vapors and particulates, dermal contact and ingestion of contaminants located in, or originating from subsurface soils is not likely. In addition, the construction worker exposure pathway is more conservative than public use. The results of the PSSI Evaluation indicate that maximum detected concentrations of the contaminants of concern are below the calculated contaminant concentration limits set forth by the NYSDEC for the complete groundwater exposure pathway. Similarly, area-weighted concentrations of the contaminants of concern are below the calculated Contaminant Concentration Limits set forth by the NYSDEC for the complete soil exposure pathway. Given the completion of the remedial program executed under the NYSDEC-approved CAP as well as the conclusions of the PSSI Evaluation, a "No Further Action" status for the site and inactivation of the spill file was requested. The results of the PSSI Evaluation are included in the Sear-Brown "Subsurface Remediation Report" (April 2001).

On May 14, 2001, Sear-Brown collected samples from groundwater monitoring wells MW-3 through MW-7 located at the Site. The analytical results indicate that petroleum-related volatile organic compounds (VOCs) were present within the groundwater samples collected from each of the five wells, with the highest concentrations of total VOCs detected in the groundwater samples from MW-6 and MW-7.

In order to address the residual VOCs detected in groundwater, Sear-Brown completed the following activities:

- Collection and analysis of two additional rounds of groundwater samples and five additional rounds of groundwater level measurements;
- A geophysical survey in the vicinity of MW-7;
- Test pits in the locations of geophysical anomalies; and
- Soil borings around MW-7.

These activities are summarized in the Sear-Brown January 24, 2002 "Geophysical and Test Pit Report" and in the Sear-Brown July 2002 "Progress Report #2." The subsurface explorations are depicted on the attached Drawings EN2 and EN3.

Based on these previous investigation and remediation activities, the following site-specific issues have been identified:

- In general, soil conditions at the Site include a five to ten foot thick fill layer, which consists primarily of moist, brown silty sand and gravel, with trace to some amounts of brick, asphalt, concrete and ash. A moist light to dark gray silty sand underlies the fill. At a depth of approximately 14 feet below ground surface, bedrock is encountered. Groundwater at the Site has historically been encountered in the bedrock.

- Fill materials consisting primarily of ash, brick, and concrete are present throughout the Site, particularly within the former county jail building footprint. Polycyclic aromatic hydrocarbons, typically found in ash, cinders and soot, and coal tar pitch, are present within the fill materials at the Site and exceed NYSDEC recommended soil cleanup objectives. The attached tables summarize these analytical results. (See Section 2.1 – Existing Information.)

- RCRA metals are present in fill material and soils at the Site at concentrations below the NYSDEC recommended soil cleanup objectives (TAGM 4046) and Eastern USA Background Range, with the exception of mercury in one boring. Mercury was found very slightly above the upper limits of the Eastern USA Background Range in fill materials sampled from depths of 5-9 feet below ground surface within the former county jail building footprint. The attached tables summarize these analytical results. (See Section 2.1 – Existing Information.)

- Concentrations of petroleum-related compounds are present in soils and groundwater at the Site above NYSDEC guidance values. Fill materials and residual petroleum-impacted soils on various portions of the Site exceed NYSDEC recommended soil cleanup objectives for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). The latest round of groundwater data (April 2002) indicates that the groundwater concentrations exceed the NYSDEC groundwater standards and guidance values. The attached tables summarize the impacted soil and groundwater encountered at the Site. (See Section 2.1 – Existing Information.)

- Affected soils that were left in place are north of, under and south of the 18-inch diameter cast-iron cooling water discharge line maintained by the Monroe County Civic Center and near the eastern property line. Additional residual petroleum-impacted soils are located at the west wall of the excavation at depths of 11-14.5 feet below ground surface.

- Petroleum-impacted soil and groundwater have also been identified in the area of MW-7 (Drawing EN3). Based on the findings from a March 2002 soil boring program, a small volume of soil with gasoline-derived VOC impacts has been confirmed around monitoring well MW-7. Based on this soil exploration program, Sear-Brown estimates that approximately 20 cubic yards of petroleum-contaminated soil may be present in this area.

- Reinforced concrete slabs and/or demolition debris associated with the former county jail and county garage buildings may be present beneath the Site, as suggested by geophysical surveys performed at the Site. Concrete encountered during remedial excavation in the area of the former metal quonset hut was placed at the bottom of the excavation (i.e., on top of bedrock) prior to backfilling.

2.0 Development and Pre-Excavation Planning

2.1 Existing Information

Site development and excavation planning will need to incorporate information from the previous investigations, documented subsurface contamination, and the intended location of proposed construction/development. Site development and excavation planning activities will require environmental review prior to issuance of any City permit. The property is flagged for review by the City's Division of Environmental Quality in the City of Rochester Building Information System (BIS) in order to protect potential developers and establish proper management of construction activities prior to their commencement. This flagging provides an institutional control mechanism. Further information regarding the BIS flagging system is provided in Section 7.0 of this report.

A list of documents prepared for the City of Rochester and containing Site subsurface soil and groundwater information is provided in Appendix A. Copies of select summary tables of field screening and analytical results from previous Sear-Brown Site Investigations are attached to this SMP and are organized according to the respective reports within which they can be found. Copies of the previous soil boring and test pit logs for the Site are presented in Appendix B.

General Subsurface Conditions

In general, soil conditions at 180-182 Exchange Boulevard consist of a five to ten foot thick fill layer. The fill layer consists primarily of moist, brown silty sand and gravel, with trace to some amounts of brick, asphalt, concrete and ash. A moist, light to dark gray silty sand underlies the fill. At a depth of approximately 14 feet below ground surface, bedrock is encountered. Subsurface conditions are described on the soil boring and test pit logs included in Appendix B.

Moist conditions were generally encountered in the subsurface explorations at the Site. The water table was not observed during subsurface explorations or remedial activities conducted by Sear-Brown. It is anticipated that groundwater will most likely be present within the bedrock.

Field Screening of Soils

Extensive, documented PID headspace readings are available for this Site. This information is summarized in the attached Sear-Brown tables:

Table Title	*Table Location*
▪ Summary of Maximum Soil Boring PID Headspace Readings	(Table 1 from February 1999 Report)
▪ Summary of PID Headspace Readings (ppm)	(Table 1 from July 2000 Report)
▪ Summary of Headspace Readings	(Table 4 from July 2002 Report)

PID headspace readings are also presented on the attached boring and test pit logs.

Soil Analytical Data

The soil analytical results are summarized in the following tables:

Table Title	*Table Location*
▪ Summary of Detected Compounds - Soil Sampling	(Table 3 from February 1999 Report)
▪ Summary of Detected Volatile Organic Compounds in Soil	(Table 8 from July 2000 Report)
▪ Confirmatory Soil Sampling Analytical Results	(Table 1 from April 2001 Report)
▪ Soil Boring Analytical Results	(Table 2 from April 2001 Report)
▪ Summary of Detected STARS List Volatile Organic Compounds in Soil	(Table 6 from July 2002 Report)

Review of the soil analytical data revealed the presence of various VOCs, SVOCs, and metals present in the Site subsurface samples. The detected VOCs are commonly associated with gasoline. Numerous VOCs (including: ethylbenzene, toluene, m,p & o-xylenes) exceeded soil guidance values established in the NYSDEC STARS Memo #1 for the samples.

The detected SVOCs are polycyclic aromatic hydrocarbons (PAHs) which commonly result from the incomplete combustion of organic matter, including fossil fuels, such as coal or fuel oil, and are often found in ash, cinders and soot,

and coal tar pitch. Small quantities of such materials were observed in some of the boreholes located in the former county jail building footprint. Five of the detected SVOCs (benzo (a) anthracene, chrysene, benzo (b) fluoranthane, benzo (k) fluoranthane and benzo (a) pyrene) exceeded their respective NYSDEC recommended soil cleanup objectives listed in TAGM 4046. Based on the history of the property and the fill material present throughout the Site, it is not unusual to find these PAHs.

Review of the RCRA metals analyses revealed that RCRA metals were found below the NYSDEC recommended soil cleanup objectives (TAGM 4046) and the Eastern USA Background Range, with the exception of mercury in one boring (0.201 ppm). This mercury concentration was slightly above the upper limit of the Eastern USA Background Range of 0.2 ppm, at a depth of 5-9 feet below ground surface.

Groundwater Analytical Data

The groundwater analytical results are summarized in the following tables:

Table Title	*Table Location*
▪ Summary of Detected Concentrations in Groundwater	(Table 9 from July 2000 Report)
▪ Summary of Detected Concentrations in Groundwater	(Table 6 from April 2001 Report)
▪ Summary of Detected Concentrations in Groundwater	(Table 1 from July 2002 Report)

The groundwater at the Site has historically been encountered in bedrock or at the overburden/bedrock interface. The latest round of groundwater data (April 2002) indicates that the groundwater concentrations exceed the NYSDEC groundwater standards and guidance values (TOGS No. 1.1.1.) The groundwater concentrations exceed NYSDEC groundwater standards or guidance values for petroleum-related compounds at all five wells at the Site.

2.2 *Construction/Design Considerations*

Past investigations and laboratory analyses at the 180-182 Exchange Boulevard Site have shown that the fill materials present at the Site consist of non-hazardous solid waste. More specifically, the Site contains soil impacted by VOCs, SVOCs and mercury, groundwater impacted by VOCs and soil vapor impacted by VOCs. However, the possibility that hazardous materials exist on Site cannot be ruled out. Any waste material that is excavated during construction or Site development must therefore be properly managed. The development process can be simplified by pre-planning how the fill will be handled during necessary excavation and construction.

If hazardous waste is encountered as part of the excavation program, it cannot be replaced on the Site and must be properly characterized, managed and disposed of off-site at a permitted facility. Management of impacted materials is discussed in Section 6.0 of this SMP.

As the project progresses, developers and design engineers for the planned development will need to consider that the following construction elements may be affected by soil/fill management and waste characterization:

- Schedules: Scheduling of construction will need to allow for management of waste fill material that is excavated during the course of construction. Should unanticipated materials or conditions be observed during excavation work, sampling may be required. Sampling will entail laboratory analysis, which typically takes from several days to several weeks to be completed. Therefore, construction schedules and design plans should allow for adequate flexibility for sampling, segregation, and temporary stockpiling of unanticipated materials on-site.

- Fill and Subsurface Variability: Construction schedules should also provide both contingency time and measures to address variability in fill conditions and the presence of groundwater. For example if hazardous conditions are encountered, additional safety measures and use of personal protection gear may be required. Excavation dewatering and work stoppage could also affect construction schedules and costs.

Measures designed to address these situations are described in further detail in Sections 3.0, 4.0 and 5.0 of this SMP.

3.0 Soil-Fill Characterization

3.1 Pre-Construction Sampling

Sufficient data is available at this time such that it does not appear necessary to perform additional soil/fill sampling prior to construction activities. In general, test pits, soil borings and monitoring well installations have been performed throughout the Site and appear to provide sufficient coverage in anticipation of development. However, if there are areas of excavation that are not near the previous investigation locations (Drawings EN2 and EN3), pre-construction sampling is recommended. In such cases, pre-construction sampling frequency and analyses would vary based upon the location of proposed work in relation to characterized areas, quantities of material to be encountered, and anticipated use/disposal of removed materials.

3.2 Construction Sampling

Sampling of excavated fill or subsurface materials during construction efforts should be considered if either of the following conditions are encountered:

- If conditions during construction are significantly different than those observed during pre-construction exploration, including unusual odors or visual observations such as stained soils, drums, containers, etc.; or

- If concerns such as sheens or free-product are identified within soil or groundwater.

In these situations, sampling frequency and analyses would vary based on the types and quantities of material encountered and anticipated use/disposal of removed materials. Analysis must adequately characterize materials in light of current NYSDEC TAGM 4046 guidance value and/or permitted disposal facility requirements, depending on intended destination of materials.

Typical waste disposal analyses are:

- Full Toxicity Characteristic Leaching Procedure (TCLP) VOCs,
- Full TCLP SVOCs,
- Full TCLP Metals,
- PCBs, Pesticides and Herbicides,
- Ignitability,
- Reactivity,
- Modified Paint Filter Test, and
- pH.

4.0 Groundwater Characterization

4.1 Pre-Construction Sampling

Sufficient data is available at this time such that it does not appear necessary to perform additional groundwater sampling prior to construction activities. Monitoring wells have been installed on the northeast side of the property and appear to provide sufficient coverage for this portion of the Site. If excavation activities are proposed on the west side of the Site and are expected to encounter groundwater at or near the top of bedrock, pre-construction sampling is recommended. In such cases, pre-construction sampling frequency and analyses would vary based on the location of proposed work in relation to the characterized areas and on the anticipated quantity and handling of groundwater (see also Appendix C, Sewer Use Permit Information).

4.2 Construction Sampling

Sampling of groundwater during construction efforts should be considered if either of the following conditions are encountered:

- If conditions during construction are significantly different than those observed during pre-construction exploration, including unusual odors or visual observations such as stained soils, drums, containers, etc.; or

- If concerns such as sheens or free-product are identified within soil or groundwater.

In these situations, sampling frequency and analyses would vary based on the condition and quantity of groundwater encountered and handling options. In order to obtain approval to discharge potentially impacted groundwater to the Monroe County sewer system, the typical analyses that may be required are identified in Appendix C (Sewer Use Permit Information).

5.0 Monitoring During Excavation

Monitoring of materials encountered during construction is generally needed for three purposes:

- To protect the health and safety of Site workers during construction;
- To determine that soil/fill materials and groundwater are consistent with pre-construction characterization; or
- If no pre-construction characterization was performed.

5.1 Health and Safety Monitoring

Past investigations have shown that fill materials will be encountered during construction activities. Based on the historical uses of the Site, hazardous materials may potentially be encountered. These include materials that could be associated with the fill as well as materials that may be present in groundwater.

General groups of chemicals that are associated with the fill and are considered as potentially hazardous materials subject to health and safety planning include:

- Volatile organic compounds (VOCs) – gasoline related;
- Semi-volatile organic compounds (SVOCs)- these include polycyclic aromatic hydrocarbons (PAHs) which commonly result from the incomplete combustion of organic matter including fossil fuels, such as coal or fuel oil, and are often found in ash, cinders and soot, and coal tar pitch; and
- Metals - Review of the RCRA metals analysis revealed that RCRA metals were found below NYSDEC recommended soil cleanup objectives and the Eastern USA Background Range, with the exception of mercury in one boring (0.201 ppm). This mercury concentration was found above the upper limit of the Eastern USA Background Range of 0.2 ppm at a depth of 5-9 feet below ground surface.

VOCs are also associated with the groundwater and are considered potentially hazardous materials subject to health and safety planning.

Health and safety planning should also give consideration to other construction-related issues, such as use of heavy equipment, weather conditions, confined space entry, excavation safety and other construction-related OSHA regulations.

Health and safety planning should be performed prior to construction activities. This should include the preparation of a written Health and Safety Plan (HASP) for construction activities. The HASP would be based on the results of the previous chemical analyses, information specific to the proposed development,

specific construction tasks to be completed and the potential for exposure of Site workers to the Site contaminants.

The use of OSHA-trained hazardous waste site workers during earthwork activities should be considered. Previous investigations show that overall, the potential for worker exposure exists, but is relatively low. However, all contractors and developers involved in earth moving and excavation activities should consider the need for health and safety planning relative to their specific tasks and planned activities.

5.2 Soil/Fill/Groundwater Monitoring

Monitoring of soil and fill materials that are excavated and groundwater that is pumped during construction should be performed for two reasons:

- To determine that the material encountered during construction is consistent with the material encountered during previous investigations; and
- To allow characterization of the non-hazardous or hazardous nature of material encountered in the event that no previous investigation results are available for a specific area.

Monitoring should generally consist of documentation of visible characteristics of the soil, fill and groundwater encountered, including obvious staining, sheens, odors, or other indicators of contamination such as oils, tars or containers. It is recommended that construction monitoring by a trained individual such as an environmental engineer, scientist, or geologist be performed during all earth moving, excavation and groundwater work.

Several portable monitoring instruments are available to assist in field monitoring of materials. Such instruments are primarily used for detection of volatile organic compounds. Since volatile organics have been detected in the past at the Site, this instrumentation is appropriate for construction excavation monitoring. Types of instruments available for this purpose include:

- Photoionization detector instruments (PID) - these instruments operate by pumping a sample of ambient air into a chamber where the air is ionized using a light source of specific energy (either 10.2, 10.6, or 11.7 eV). Such instruments are manufactured by HNu and Microtip.
- Flame ionization detector instruments (FID) - these instruments operate on a similar principle as the PIDs; however, ionization is caused by a flame produced by combusting hydrogen. The OVA manufactured by Foxboro is such an instrument.

- Colorimetric tubes - these are small glass tubes which contain chemical salts formulated to react with specific volatile and some non-volatile compounds. A sample of air is drawn through a tube with the use of a hand pump. The presence of the target chemical causes a reaction and a color change to the chemical salts in the tube. The Draeger Tube system is such an instrument.

- Combustible gas meters/gas monitors – these instruments are capable of measuring combustible gases such as methane and hydrogen sulfide and would be used during construction activities if large amounts of organic materials such as railroad timbers or peat are encountered.

These types of instruments are readily available in the Rochester area and can be rented or purchased from several sources. However, these instruments should be operated by individuals trained and experienced in their use, limitations and capability for data generation. Readings generated from monitoring instruments should be recorded in the field along with visual observations. As long as excavation monitoring shows soil, fill, and groundwater material to be consistent with previous investigations, then the material should be manageable as determined prior to construction. If conditions are different from those anticipated, then sampling and additional characterization may be necessary.

6.0 Management of Impacted Material

At this time, there is no preferred method for the management of soil/fill excavated during construction activities. In general, it is recommended that non-hazardous soil/fill excavated during foundation work, utility trenching work and other earth moving activities either be hauled off-site for disposal or, if permitted and in accordance with regulations, be returned to the excavation and covered with either clean soil or an impervious surface. However, if hazardous wastes are encountered, they cannot be reused on-site and will need to be disposed properly at an approved, off-site facility.

If groundwater is pumped at the Site, a temporary sewer use permit is required for sewer disposal from the Monroe County Department of Environmental Services (MCDES) – Division of Pure Waters (DPW). The required information to be supplied to the MCDES-DPW is included in Appendix C.

6.1 On-Site Re-Use of Excavated Materials

Impacted materials that will be re-used on site will need to be segregated based upon field screening, previous investigation findings, and/or additional pre-construction and/or construction sampling and analyses. On-site re-use of materials must meet NYSDEC TAGM 4046 recommended soil clean up objectives. Impacted materials that are determined acceptable for re-use on-site excavations should be covered with clean soil or an impervious surface. Staging and stockpiling management of materials should be conducted as described in the sections below.

6.2 Off-Site Disposal of Excavated Materials

Management of materials that will be disposed off-site will need to include characterization (sampling and laboratory analysis as required by the chosen landfill), management, and off-site transportation and disposal at an approved landfill. Appropriate measures for management of excavated materials will need to include temporarily stockpiling excavated soils and solids, as well as measures to prevent them from contaminating other materials or migrating off-site. Measures that should be incorporated into such plans include:

- Stockpile locations away from storm sewers, downwind property boundaries, and drainage courses;
- Dust suppression techniques, as necessary;
- Placement of stockpiles of petroleum contaminated soils or hazardous materials (e.g. drums, containers, odiferous fill) on 6-mil polyethylene (poly) with perimeter berms; and

- Covering stockpiles of petroleum contaminated soils or hazardous materials (e.g. drums, containers, odiferous fill) with weighted down poly at the end of each day of placement to prevent migration by wind-blown dust or stormwater runoff until final placement and final cover is established.

6.3 Off-Site Disposal of Impacted Water

Management of water will include characterization (sampling and laboratory analysis as required by the MCDES-DPW), management, and pumping to the Monroe County sewer system. Appropriate measures for management of water will need to include temporary containerization and measures to prevent water from contaminating other materials or migrating off-site. Measures that should be incorporated into such plans include:

- Containerize water prior to pumping off-site;
- Stage containers away from downwind property boundaries and drainage sources;
- Pump water directly into containers;
- Perform necessary sampling prior to disposal; and
- Coordinate with MCDES-DPW to receive permission for disposal.

The sewer use permit information is included in Appendix C.

7.0 Flagging System

The City of Rochester has established a procedure for "flagging" the tax account numbers of properties that require special environmental reviews as a result of hazardous waste or hazardous substance contamination. The reviews are conducted as referrals to the City's Division of Environmental Quality (DEQ) for any permit applications for properties where soil management plans or environmental contingency plans need to be established and followed during construction activities.

The City will "flag" the parcels that comprise the 180-182 Exchange Boulevard Site and they will be subject to a special environmental review prior to issuance of a permit. A special notation will be added to the City's mainframe computer database of property information for the following tax account numbers:

121.390-0001-004.000/000
121.390-0001-003.000/000

The notation will appear as a "flag" to City staff that receive various building and site preparation permit applications. The flag will require a referral to the City's DEQ before the application can be processed for approval. DEQ staff will review the permit application for consistency with the Soil Management Plan, limited-use areas and land-use restrictions. If DEQ wishes, a notification to the DEC can be included at the time the permit is reviewed.

PROJECT ENGINEER/ARCHITECT
D. BELASKAS

PROJECT MANAGER
M. STORONSKY

DRAWN BY
A. LESS

SCALE
1" = 2000'

FIRST ISSUE DATE
/ /

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PROJECT
SOIL MANAGEMENT PLAN
180-182 EXCHANGE BOULEVARD
ROCHESTER , NEW YORK

TITLE OF DRAWING
SITE LOCATION MAP

PROJECT NO.
15155.07

DRAWING NO.
EN 1

Plotting Parameters
Plotted By: aless
Design File: N:\JOBS\1515507\dxfordwg\Drawings 7-31-01\EN1.dgn
Plotted: 11/13/2002 08:24:09 AM
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Workspace
Discipline: CIVIL
Project: SBG
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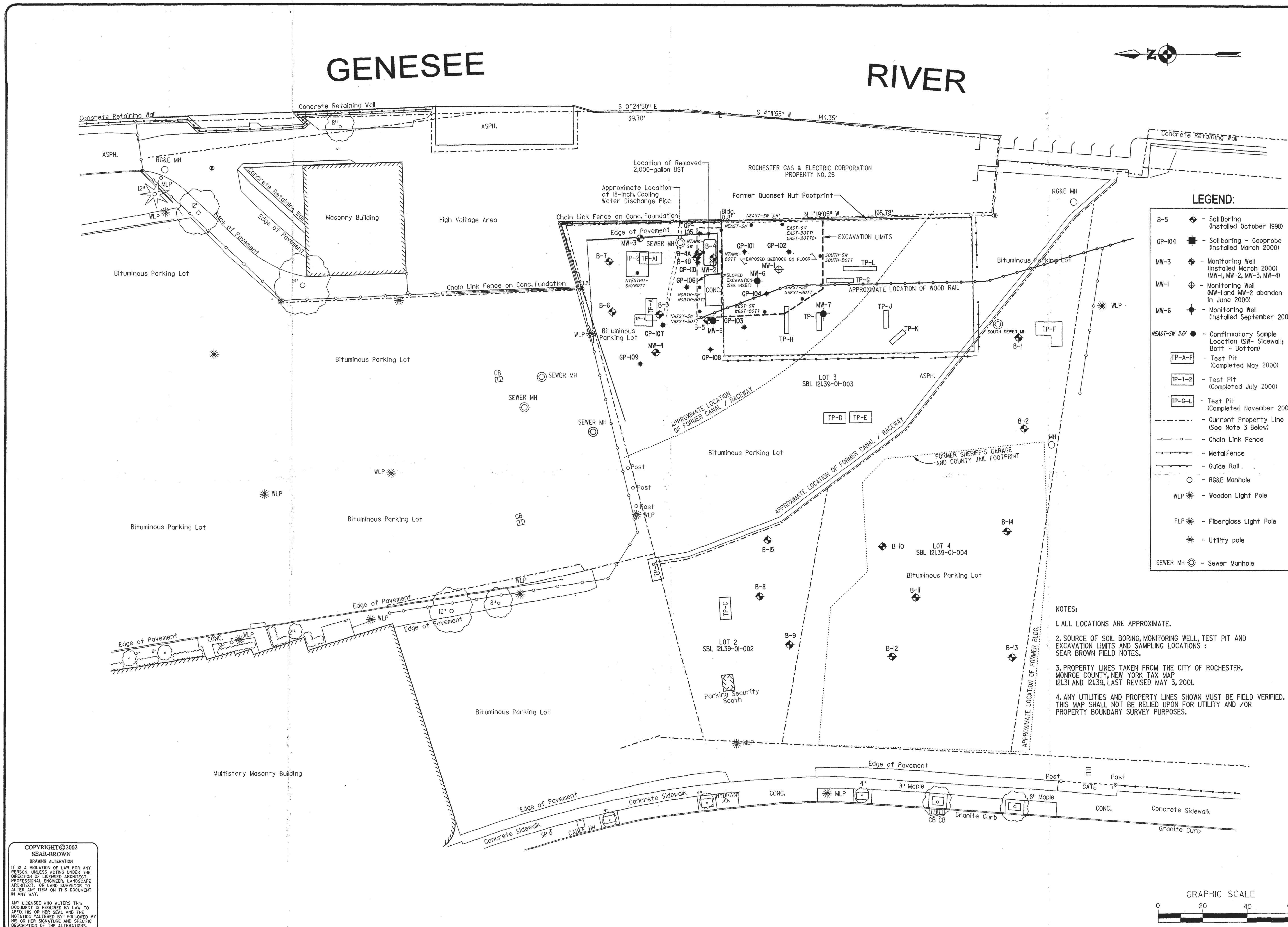

GENESEE
RIVER
N
Concrete Retaining Wall
S 0°24'50" E
39.70'
S 4°11'55" W
144.35'
ASPH.
RG&E MH
Masonry Building
High Voltage Area
Concrete Retaining Wall
Edge of Pavement
MLP
WLP
Location of Removed 2,000-gallon UST
Approximate Location of 18-inch Cooling Water Discharge Pipe
Chain Link Fence on Conc. Foundation
ROCHESTER GAS & ELECTRIC CORPORATION PROPERTY NO. 26
Former Quonset Hut Footprint
N 1°19'05" W
195.78'
RG&E MH
EXCAVATION LIMITS
EXPOSED BEDROCK ON FLOOR
APPROXIMATE LOCATION OF WOOD RAIL
Bituminous Parking Lot
Chain Link Fence on Conc. Fundation
SEWER MH
CB
ASPH.
LOT 3
SBL 121.39-01-003
APPROXIMATE LOCATION OF FORMER CANAL / RACEWAY
FORMER SHERIFF'S GARAGE AND COUNTY JAIL FOOTPRINT
LOT 4
SBL 121.39-01-004
LOT 2
SBL 121.39-01-002
Parking Security Booth
APPROXIMATE LOCATION OF FORMER BLDG.
Multistory Masonry Building
Edge of Pavement
Concrete Sidewalk
HYDRANT
CONC.
8" Maple
Granite Curb
CB CB
GATE
Post
B-1
B-2
B-5
B-6
B-7
B-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
GP-101
GP-102
GP-103
GP-104
GP-106
GP-107
GP-108
GP-109
GP-110
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
TP-A
TP-B
TP-C
TP-D
TP-E
TP-F
TP-G
TP-H
TP-I
TP-J
TP-K
TP-L
TP-1
TP-2
GRAPHIC SCALE
0
20
40
60

LEGEND:

B-5	Soil Boring (Installed October 1998)
GP-104	Soil boring - Geoprobe (Installed March 2000)
MW-3	Monitoring Well (Installed March 2000) (MW-1, MW-2, MW-3, MW-4)
MW-1	Monitoring Well (MW-1 and MW-2 abandon in June 2000)
MW-6	Monitoring Well (Installed September 2000)
NEAST-SW 3.5'	Confirmatory Sample Location (SW- Sidewall; Bott - Bottom)
TP-A-F	Test Pit (Completed May 2000)
TP-1-2	Test Pit (Completed July 2000)
TP-G-L	Test Pit (Completed November 2000)
	Current Property Line (See Note 3 Below)
	Chain Link Fence
	Metal Fence
	Guide Rail
	RG&E Manhole
WLP	Wooden Light Pole
FLP	Fiberglass Light Pole
	Utility pole
SEWER MH	Sewer Manhole

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. SOURCE OF SOIL BORING, MONITORING WELL, TEST PIT AND EXCAVATION LIMITS AND SAMPLING LOCATIONS : SEAR BROWN FIELD NOTES.
3. PROPERTY LINES TAKEN FROM THE CITY OF ROCHESTER, MONROE COUNTY, NEW YORK TAX MAP 121.31 AND 121.39, LAST REVISED MAY 3, 2001.
4. ANY UTILITIES AND PROPERTY LINES SHOWN MUST BE FIELD VERIFIED. THIS MAP SHALL NOT BE RELIED UPON FOR UTILITY AND /OR PROPERTY BOUNDARY SURVEY PURPOSES.

6			
5			
4			
3			
2	PROPERTY LINE INFORMATION	10/28/02	DB
1	TEST PIT INFORMATION	1/10/02	DB

PROJECT ENGINEER/ARCHITECT
D. BELASKAS, P.E.
PROJECT MANAGER
M. STORONSKY
DRAWN BY
A. LESS

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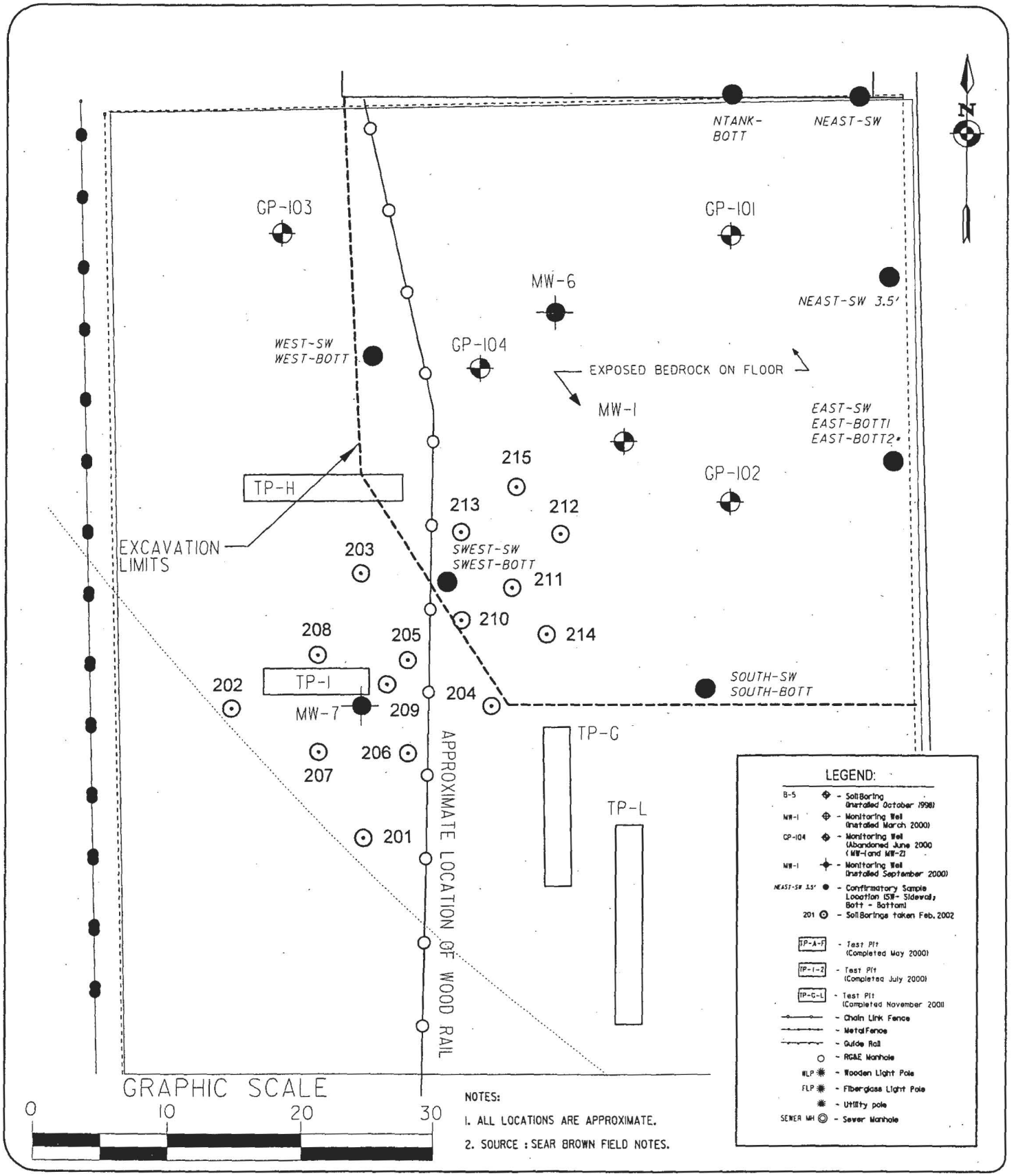
Rochester, N.Y. 14623-2674
(585) 475-1440

PROJECT
SOIL MANAGEMENT PLAN
180 - 182 EXCHANGE BOULEVARD
ROCHESTER, NEW YORK
TITLE OF DRAWING

PROJECT NO.
1515507
DRAWING NO.
EN 2



PROJECT ENGINEER/ARCHITECT: D. BELASKAS, P.E.
PROJECT MANAGER: M. STORONSKY
DRAWN BY: A. LESS
SCALE: 1" = 10'
FIRST ISSUE DATE:

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PROJECT: SOIL MANAGEMENT PLAN
180 - 182 EXCHANGE BOULEVARD
ROCHESTER, NEW YORK

TITLE OF DRAWING: SOIL BORINGS IN THE VICINITY OF MW-7

PROJECT NO. 15155.07
DRAWING NO. EN 3

Selected Tables from Previous Sear-Brown Reports

From the Phase II Environmental Investigation Report, February 23, 1999

Table 1 - Summary of Maximum Soil Boring PID Headspace Readings
Table 3 - Summary of Detected Compounds – Soil Sampling

From the Additional Phase II Environmental Investigation/Corrective Action Plan Report, July 2000

Table 1 - Summary of PID Headspace Readings (ppm)
Table 8 - Summary of Detected Volatile Organic Compounds in Soil
Table 9 - Summary of Detected Concentrations in Groundwater

From the Subsurface Remediation Report, April 2001

Table 1 - Confirmatory Soil Sampling Analytical Results
Table 2 - Soil Boring Analytical Results
Table 6 - Summary of Detected Concentrations in Groundwater

From Progress Report #2, July 2002

Table 1 - Summary of Detected Concentrations in Groundwater
Table 4 - Summary of Headspace Readings
Table 6 - Summary of Detected STARS List Volatile Organic Compounds in Soil

SELECTED TABLES

From the

Phase II Environmental Investigation Report

February 23, 1999

TABLE 1
SUMMARY OF MAXIMUM SOIL BORING PID HEADSPACE READINGS
180-182 Exchange Street
Rochester, NY

Boring	Sample	Depth (ft BGS)	PID Headspace		
			Peak (ppm)	Background (ppm)	Net (ppm)
B-1	3	5-7	3.6	2.8	0.8
	4	7-9	3.8	2.8	1.0
	5	10-12	3.9	2.8	1.1
	6	12-14.5	4.5	2.8	1.7
B-2	1	1-3	3.6	3.6	0.0
	5	9-11	3.6	3.6	0.0
	6	11-13	3.6	3.6	0.0
	7	13-15	3.6	3.6	0.0
B-3	1	1-1.5	3.4	2.9	0.5
	2	5-7	3.5	2.9	0.6
	3	7-9	4.2	2.9	1.3
	4	9-11	3.5	2.9	0.6
	5	11-13	4.1	2.9	1.2
B-4	1	3-5	18.6	2.6	16.0
	2	5-7	424	2.6	421.4
	3	7-9	1311	2.6	1308.4
	4	9-11	1851	2.6	1848.4
	5	11-13	>2000	NA	>2000
	6	13-14	>2000	NA	>2000
B-5	1	1-3	4.6	4.6	0.0
	2	3-5	8.6	4.6	4.0
	3	5-7	4.6	4.6	0.0
	4	7-9	10.1	4.6	5.5
	5	9-11	154.0	4.6	149.4
	7	13'-14'	>2000	NA	>2000
B-6	1	1-1.5	3.6	2.8	0.8
	2	5-7	3.4	2.8	0.6
	3	7-9	9.0	2.8	6.2
	4	9-11	11.2	2.8	8.4
	5	11-13	5.0	2.8	2.2
	6	13-13.5	3.8	2.8	1.0
B-7	1	3-5	4.1	3.0	1.1
	2	5-7	3.8	3.0	0.8
	3	7-8.3	4.2	3.0	1.2

TABLE 1
SUMMARY OF MAXIMUM SOIL BORING PID HEADSPACE READINGS
180-182 Exchange Street
Rochester, NY

Boring	Sample	Depth (ft BGS)	PID Headspace		
			Peak (ppm)	Background (ppm)	Net (ppm)
B-8	1	1-3	5.4	4.0	1.4
	2	3-5	9.9	4.0	5.9
	3	5-7	5.2	4.0	1.2
	4	7-9	NA	NA	NA
B-9	1	1 - 2.5	10.6	5.8	4.8
	2	8-10	9.3	5.8	3.5
	3	10-12	6.1	5.8	0.3
B-10	1	1-3	6.2	5.0	1.2
	2	3-5	NA	NA	NA
	3	5-7	13.2	5.0	8.2
	4	7-9	5.0	5.0	0.0
	5	9-11	7.6	5.0	2.6
	6	11-13	5.0	5.0	0.0
	7	13-15	5.1	5.0	0.1
B-11	1	1-3	4.2	3.8	0.4
	2	5-7	4.6	3.8	0.8
	3	7-9	4.2	3.8	0.4
	4	9-11	4.2	3.8	0.4
	5	11-13	3.8	3.8	0.0
B-12	1	5-7	3.9	4.4	0.0
	2	7-9	4.1	4.4	0.0
B-13	1	5-7	3.9	3.6	0.3
	2	7-9	4.1	3.6	0.5
B-14	1	1-3	2.5	2.2	0.3
	2	5-7	2.8	2.2	0.6
	3	7-9	2.4	2.2	0.2
	4	9-11	2.4	2.2	0.2
	5	11-13	NA	NA	NA
	6	13-15	2.2	2.2	0.0
	7	15-17	NA	NA	NA
B-15	1	1-3	4.2	3.6	0.6

Notes:
1. All readings expressed in ppm (parts per million) using a 10.2 eV lamp.
2. NA = Not available.

TABLE 3
SUMMARY OF DETECTED COMPOUNDS
SOIL SAMPLING
180-182 Exchange Street
Rochester, New York

	Units	Guidance Value*	Eastern USA Background Range*	B-1	B-4	B-5	B-6	B-8	B-9	B-10
Sample Depth	ft.			12-14.5	13-14	13-14	9-11	3-5	1-2.5	5-7
EPA Method 8260B										
TCL - Volatiles										
Ethylbenzene	ug/kg	100	NA		**201655**	**1581**				
Toluene	ug/kg	100	NA		**199525**	**1156**				
m,p-Xylene	ug/kg	100	NA		**818979**	**7335**				
0-Xylene	ug/kg	100	NA		**351006**	**2494**				
NYDOH Method 310.13										
Petroleum Hydrocarbon										
TPH	mg/kg	NA	NA		1,789					
EPA Method 8021										
Stars LIST - Volatiles										
Toluene	ug/kg	100	NA					7.7		
Ethylbenzene	ug/kg	100	NA				6.9			
m,p-Xylene	ug/kg	100	NA				68.5	17.8		
0-Xylene	ug/kg	100	NA				8.9			
1,2,4-Trimethylbenzene	ug/kg	100	NA					11.6		
EPA Method 8270										
TCL - Semi-Volatile BN										
Fluoranthene	ug/kg	50000	NA						2623	
Anthracene	ug/kg	50000	NA						461	
Phenanthrene	ug/kg	50000	NA						1758	340
Benzo (a) anthracene	ug/kg	301	NA						**1259**	
Chrysene	ug/kg	301	NA						**1102**	
Pyrene	ug/kg	50000	NA						2836	348
Benzo (b) fluoranthane	ug/kg	1100	NA						**1363**	
Benzo (k) fluoranthane	ug/kg	1100	NA						**1151**	
Benzo (g,h,I) perylene	ug/kg	50000	NA						442	
Benzo (a) pyrene	ug/kg	301	NA						**901**	
Indeno (1,2,3-cd) pyrene	ug/kg	3200	NA						495	
RCRA Metals Various Methods										
Total Concentrations										
Arsenic	mg/kg	7.5 or SB	3-12	5.36					5.4	2.99
Barium	mg/kg	300 or SB	15-600	23.8					42.7	82.3
Cadmium	mg/kg	1 / 10***	0.1-1	2.01					2.03	1.66
Chromium	mg/kg	10 / 50***	1.5-40****	7.36					8.49	7.11
Lead**	mg/kg	SB	**	31.8					69.2	211
Mercury	mg/kg	0.1	0.001-0.2	0.142					0.187	**0.201**
Selenium	mg/kg	2 or SB	0.1-3.9	<0.429					<0.442	<0.423
Silver	mg/kg	SB	NA	<0.875					<0.885	<0.826

Notes:

1. ug/kg = micrograms per kilogram (equivalent to parts per billion).
2. Sample results which exceed guidance values are presented in **Bold**.
3. Blank space= below method detection limit
4. SB = site background
5. * Guidance values and Eastern USA Background ranges from NYSDEC guidance document TAGM HWR, 94-4046, Jan 24, 1994. and STARS Memo #1, Petroleum Contaminated Soil Guidance Policy, August 1992
6. ** Background levels for lead vary widely. Average background levels in metropolitan or suburban areas typically range from 200-500 ppm.
7. *** Existing and proposed guidance values.
8. **** New York State Background
9. NA = Not applicable

SELECTED TABLES

From the

Additional Phase II Environmental Investigation/Corrective Action Plan Report

July 2000

TABLE 1
Summary of PID Headspace Readings (ppm)
180-182 Exchange Boulevard
Rochester, NY

LOCATION	DEPTH (ft BGS)	PID READINGS		
		PEAK (ppm)	SUSTAINED (ppm)	BACKGROUND (ppm)
GP-101	0-4	0.4	0.4	0.3
	4-8	3.8	2.3	0.4
	8-12	210	209	0.4
	12-13.5	51.3	43.3	0.9
	Refusal @ 13.5			
GP-102	0-4	0.4	0.4	0.4
	4-8	0.5	0.5	0.4
	8-12	9.9	9.9	0.4
	12-14	0.7	0.7	0.6
	Refusal @ 14			
GP-103	0-4	0.8	0.8	0.8
	4-8	1.0	1.0	0.9
	8-12	1.1	1.1	0.6
	12-13.5	0.7	0.7	0.4
	Refusal @ 13.5			
GP-104	0-4	0.5	0.5	0.4
	4-8	4.3	4.0	0.4
	8-12	3.5	2.2	0.4
	Refusal @ 13.5			
GP-105	0-4	1.1	0.7	0.4
	4-8	3.6	2.0	0.5
	8-12	3.4	2.5	0.3
	12-13.5	1.9	1.3	0.4
	Refusal @ 13.5			
GP-106	0-4	0.4	0.4	0.4
	4-8	0.5	0.4	0.4
	8-12	0.6	0.5	0.4
	12-13	199	150	0.4
	Refusal @ 13			
GP-107	0-4	0.6	0.6	0.6
	4-8	7.8	4.4	0.5
	8-12	19.9	15.6	0.4
	12-13.5	106	94.5	0.3
	Refusal @ 13.5			

TABLE 1
Summary of PID Headspace Readings (ppm)
180-182 Exchange Boulevard
Rochester, NY

LOCATION	DEPTH (ft BGS)	PID READINGS		
		PEAK (ppm)	SUSTAINED (ppm)	BACKGROUND (ppm)
GP-108	0-4	0.5	0.5	0.4
	4-8	0.5	0.5	0.4
	8-12	0.6	0.5	0.4
	12-13.5	1.8	1.8	0.4
	Refusal @ 13.5			
GP-109	0-4	0.4	0.4	0.4
	4-8	0.4	0.4	0.4
	8-12	0.4	0.4	0.4
	12-13	0.4	0.4	0.4
	Refusal @ 13			
GP-110	0-4	0.4	0.4	0.4
	4-8	0.5	0.4	0.4
	8-12	1.8	1.8	0.4
	12-13.5	24.5	13.0	0.4
	Refusal @ 13.5			
MW-2	4-6	0.8	0.8	0.7
	6-8	1.5	1.4	0.8
	8-10	341	196	0.8
	10-12	566	549	1.7
	12-13.5	510	399	2.5
	Refusal @ 13.5			
MW-3	4-6	0.8	0.8	0.7
	6-8	0.9	0.8	0.7
	8-10	0.8	0.8	0.7
	10-12	0.8	0.8	0.7
	12-13.4	1.0	1.0	0.7
	Refusal @ 13.4			
MW-4	6-8	0.8	0.8	0.7
	8-10	0.8	0.8	0.7
	10-12	0.9	0.8	0.7
	12-13.5	1.5	1.0	0.7
	Refusal @ 13.5			

Note: Due to the location of MW-1 within the Quonset Hut, split spoon activities were not possible

TABLE 8
Summary of Detected Volatile Organic Compounds in Soil
180-182 Exchange Boulevard
Rochester, New York

Volatile Organic Compounds (ug/kg)														
Compound	B-4 (13'-14')	B-5 (13'-14')	GP-101 (8'-10')	GP-102 (8'-12')	GP-103 (12'-13.5')	GP-104 (4'-8')	GP-105 (8'-12')	GP-106 (12'-13')	GP-107 (12'-13.5')	GP-108 (12'-13.5')	GP-109 (12'-13')	GP-110 (12'-13.5')	MW-3 (12'-13.4')	Guidance Value*
Benzene						123.9				126.8				14
Ethyl benzene	**201655**	**1581**	**21500**	**226.1**		**215.6**		**3120**	**2177.0**	56.3				100
Toluene	**199525**	**1156**	**15900**	41.9										100
m,p-Xylene	**818979**	**7335**	**87200**	**812.2**	11.0	**251.9**		**13300**	**7716.2**	**107.1**				100
o-Xylene	**351006**	**2494**	**36400**	**280.1**				**4350**	**2351.6**	38.0				100
Isopropylbenzene	NA	NA	**2510**				44.7		**662.8**	**309.6**		65.1		100
n-Propylbenzene	NA	NA	**8980**	44.6			80.0	**1790**	**2505.2**	**705.6**		**539.3**		100
1,3,5-Trimethylbenzene	NA	NA	**19800**	70.5		19.1		**4830**	**3158.0**	29.4				100
1,2,4-Trimethylbenzene	NA	NA	**66000**	**225.9**		50.0		**11900**	**12791.0E**	**319.1**		**1657.2**		100
sec-Butylbenzene	NA	NA	**1070**				24.9		**313.8**			**254.9**		100
p-Isopropyltoluene	NA	NA	**2540**											100
Naphthalene	NA	NA	**19700**						**2580.5**	**615.3**	15.3			200
4-Isopropyltoluene	NA	NA							**703.4**			**129.3**		100
n-Butylbenzene												**629.6**		100

Notes:
1. * = NYSDEC. December 1992. Petroleum Contaminated Soil Guidance Policy: STARS Memo #1. Bureau of Spill Prevention and Response.
2. **BOLD** = reported concentration is above Guidance Value
3. Blank space = concentration below detection limits
4. NA = Not Analyzed
5. ug/kg = micrograms per kilogram which is equivalent to parts per billion (ppb)

TABLE 9
Summary of Detected Concentrations in Groundwater
180-182 Exchange Boulevard
Rochester, New York

Detected Concentrations in Groundwater					
Compound	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**Groundwater Standard***
Volatile Organic Compounds (ug/l)					
Benzene	**339**	**303**		**1.30**	1
Ethyl benzene		**1370**			5
Toluene	**46.5**	**5750**			5
m,p-Xylene	**70.9**	**4900**		**5.31**	5
o-Xylene	**356**	**2310**		**7.74**	5
1,3;5-Trimethylbenzene	**193**	**451**		**22.4**	5
1,2,4-Trimethylbezene	**199**	**1800**		**158**	5
p-Isopropyltoluene	**43.0**	**42.2**			5
Isopropylbenzene		**99.0**			5
n-Propylbenzene		**194**		3.30	5
Naphthalene		**302**			10 (G)
TPH (ug/l)					
Gasoline	752	5480	NA	NA	NGV

Notes:
1. * = NYSDEC. June 1998. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (1.1.1).
2. NA = Not Analyze
3. **BOLD** = reported concentration is above Guidance Value or Standard
4. Blank space = concentration below detection limits
5. ug/l = micrograms per liter which is equivolent to parts per billion (ppb)
6. NGV = No guidance value has been established by New York State
7. (G) = Guidance Value

SELECTED TABLES

From the

Subsurface Remediation Report

April 2001

TABLE 1

Confirmatory Soil Sampling Analytical Results
180-182 Exchange Street
Rochester, New York

Sample ID	TCLP AGV[1]	TAGM RSCO [2]	NTESTPIT - SW	NTESTPIT - BOTT	NEAST - SW 3.5	NEAST - SW	NTANK - SW	NTANK - BOTT	NORTH - SW	NORTH - BOTT	NWEST - SW	NWEST - BOTT
Depth (below grade)			6' - 8'	9'	3.5'	6' - 8'	8'	11' - 14.5'	6' - 10'	11' - 14.5'	6' - 10'	11' - 14.5'
Date Sampled			7/21/00	7/21/00	7/21/00	7/20/00	7/20/00	7/20/00	7/21/00	7/21/00	7/21/00	7/21/00
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Benzene	14	60	ND	**15.4**	13.7	ND	ND	**31.6**	ND	ND	8.73	**35.8**
Ethylbenzene	100	5500	ND	ND	ND	ND	**14200**	**507**	ND	**1800**	ND	ND
Toluene	100	1500	ND	ND	ND	ND	ND	**345**	ND	ND	ND	10.7
o-Xylene	100	1200	ND	ND	ND	21.9	**29800**	**787**	ND	**148**	ND	ND
m,p-Xylene	100	1200	ND	ND	ND	76	**107000**	**1600**	ND	**1520**	ND	76
Isopropylbenzene	100	5000	ND	ND	ND	20.6	ND	**140**	ND	ND	ND	ND
n-Propylbenzene	100	14000	ND	ND	ND	19.8	**19900**	**520**	ND	**339**	ND	9.57
p-Isopropyltoluene	100	11000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	100	13000	ND	ND	ND	**150**	**305000**	**1500**	ND	**2430**	ND	**240**
1,3,5-Trimethylbenzene	100	3300	ND	ND	ND	59.8	**63600**	**390**	ND	**507**	ND	38.6
n-Butylbenzene	100	18000	ND	ND	ND	ND	ND	**143**	ND	ND	ND	ND
sec-Butylbenzene	100	25000	ND	ND	ND	ND	ND	33.9	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	**102000**	193	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	1,000	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Sample ID	TCLP AGV[1]	TAGM RSCO [2]	EAST - SW	EAST - BOTT 1	EAST - BOTT 2	SOUTH - SW	SOUTH - BOTT	SWEST - SW	SWEST - BOTT	WEST - SW	WEST - BOTT
Depth (below grade)			6' - 10'	11' - 14.5'	11' - 14.5'	6' - 10'	11' - 14.5'	6' - 10'	11' - 14.5'	6' - 10'	11' - 14.5'
Date Sampled			7/20/00	7/20/00	7/20/00	7/19/00	7/19/00	7/19/00	7/19/00	7/19/00	7/19/00
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Benzene	14	60	**23.1**	**30**	**25**	ND	ND	ND	**178**	ND	**114**
Ethylbenzene	100	5500	ND	ND	ND	20.4	ND	ND	19.6	ND	16
Toluene	100	1500	10.3	17.4	18	ND	ND	ND	ND	ND	ND
o-Xylene	100	1200	ND	ND	ND	24.1	ND	34.6	30.4	19.5	28.1
m,p-Xylene	100	1200	ND	ND	ND	69.8	18.3	ND	**185**	ND	66
Isopropylbenzene	100	5000	ND	ND	ND	ND	ND	ND	ND	ND	26.8
n-Propylbenzene	100	14000	ND	ND	ND	ND	ND	ND	ND	ND	28.6
p-Isopropyltoluene	100	11000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	100	13000	ND	ND	ND	26.2	9.27	ND	24.7	ND	37.2
1,3,5-Trimethylbenzene	100	3300	ND	ND	ND	ND	ND	14.9	8.85	20.5	12
n-Butylbenzene	100	18000	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	100	25000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	1,000	120	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1) TCLP Alternative Guidance Values (AGVs) from the New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memo #1 Petroleum-Contaminated Soil Guidance Policy, dated August 1992.
2) NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM) HWR 94-4046 (Revised) revised December 20, 2000, Recommended Soil Cleanup Objective (RSCO).
3) **Bolded** values are samples that have been detected and exceed the TCLP Alternative Guidance Values.
   Underlined values are samples that have been detected and exceed the TAGM standards.
4) ND = Not Detected at or above the laboratory detection limit. Minimum laboratory detection limits listed in the Paradigm Environmental Services, Inc. Report No. 00-1545.
5) Soil sample nomenclature: SW = Sidewall; BOTT = Bottom

TABLE 2

Soil Boring Analytical Results
180-182 Exchange Street
Rochester, New York

Sample ID *Depth (below grade)* *Date Sampled* *Units*	TCLP AGV[1] µg/kg	TAGM RSCO [2] µg/kg	**MW-7** 10' - 12' 9/18/00 µg/kg
Benzene	14	60	ND
Ethylbenzene	100	5500	**2820**
Toluene	100	1500	**3690**
o-Xylene	100	1200	**5160**
m,p-Xylene	100	1200	**11700**
Isopropylbenzene	100	5000	**171**
n-Propylbenzene	100	14000	**774**
p-Isopropyltoluene	100	11000	ND
1,2,4-Trimethylbenzene	100	13000	**6070**
1,3,5-Trimethylbenzene	100	3300	**1720**
n-Butylbenzene	100	18000	ND
sec-Butylbenzene	100	25000	ND
Naphthalene	200	13000	**665**
Methyl tert-butyl ether (MTBE)	1,000	120	ND

Notes:

1) TCLP Alternative Guidance Values (AGVs) from the New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memo #1 Petroleum-Contaminated Soil Guidance Policy, dated August 1992.

2) NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM) HWR 94-4046 (Revised), revised December 20, 2000, Recommended Soil Cleanup Objective (RSCO).

3) **Bolded** values are samples that have been detected and exceed the TCLP Alternative Guidance Values. Underlined values are samples that have been detected and exceed the TAGM standards.

4) ND = Not Detected at or above the laboratory detection limit. Minimum laboratory

TABLE 6

Summary of Detected Concentrations In Groundwater
180-182 Exchange Street
Rochester, New York

Monitoring Well/Sample ID	MW-1	MW-2	MW-3			MW-4			MW-5		MW-6		MW-7		Groundwater
Sampling Date	4/6/00	4/6/00	4/6/00	10/5/00	10/16/00	4/6/00	10/5/00	10/16/00	10/5/00	10/16/00	10/5/00	10/16/00	10/5/00	10/16/00	Standard*
Detected Volatile Organic Compounds (ug/l)															
STARS List															
Benzene	**339**	**303**	<0.7	**6.7**		**1.30**	**18**		**140**		**51**	**59**	**97**		1
Ethyl benzene	<20	**1370**	<2	<2		<2	**40.1**		**30.9**		**7.97**	<2	<40		5
Toluene	**46.5**	**5750**	<2	<2		<2	<2		3.91		**70.9**	**25.2**	**1010**		5
m,p-Xylene	**70.9**	**4900**	<2	<2		**5.31**	**19.7**		**152**		**1110E**	**1300E**	**2120**		5
o-Xylene	**356**	**2310**	<2	<2		**7.74**	3.43		**56.7**		**747E**	**999E**	**1300**		5
1,3,5-Trimethylbenzene	**193**	**451**	<2	<2		**22.4**	<2		**19.6**		**134**	**155**	**164**		5
1,2,4-Trimethylbenzene	**199**	**1800**	<2	<2		**158**	**18.1**		**77.3**		**363E**	**363E**	**485**		5
p-Isopropyltoluene	**43**	**42.2**	<2	<2		3.30	<2		<2		<2	<2	<40		5
Isopropylbenzene	<20	**99**	<2	<2		<2	**15**		**14.9**		**6.72**	2.03	<40		5
n-Propylbenzene	<20	**194**	<2	<2		<2	**21.5**		**24.5**		<2	<2	<40		5
Naphthalene	<50	**302**	<5	<5		<5	**25.6**		**24.9**		**82.4**	**67.3**	<100		10 (G)
Total Petroleum Hydrocarbons (ug/l)															
by NYDOH Method 310-13	752	5480			<250			351		<250		1070		4770	NGV

Notes:

1) * = New York State Department of Environmental Conservation (NYSDEC). June 1998. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS) 1.1.1. GA Class standards or guidance values (G) listed.
2) STARS = New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memo #1 Petroleum-Contaminated Soil Guidance Policy, dated August 1992.
3) BOLD = Reported concentration is above NYSDEC TOGS Guidance Value or Standard
4) ug/l = Micrograms per liter which is equivalent to parts per billion (ppb)
5) E = Estimated concentration reported by laboratory; concentration exceeds calibration range.
6) NGV = No guidance value has been established by New York State
7) Groundwater samples taken on 4/6/00 were analyzed for Target Compound List Volatile Organic Compounds by USEPA Method 8260.
8) Groundwater samples taken on 10/5/00 and 10/16/00 were analyzed for STARS List Volatile Organic Compounds by USEPA Method 8021.

SELECTED TABLES

From

Progress Report #2

July 2002

TABLE 1

Summary of Detected Concentrations in Groundwater
180-182 Exchange Street
Rochester, New York

Monitoring Well/Sample ID	MW-1	MW-2	MW-3										MW-4							MW-5						MW-6						MW-7						Groundwater
Sampling Date	4/6/2000	4/6/2000	4/6/2000	10/5/2000	10/16/2000	1/24/2001	5/14/2001	7/26/2001	4/10/2002	4/23/2002	4/23/2002[10]		4/6/2000	10/5/2000	10/16/2000	1/24/2001	5/14/2001	7/26/2001	4/10/2002	10/5/2000	10/16/2000	1/24/2001	5/14/2001	7/26/2001	4/10/2002	10/5/2000	10/16/2000	1/24/2001	5/14/2001	7/26/2001	4/10/2002	10/5/2000	10/16/2000	1/24/2001	5/14/2001	7/26/2001	4/10/2002	Standard*
Detected VOCs (ug/l) STARS List																																						
Benzene	339	303	<0.7	6.7		<0.70	3.8	<0.70	<0.70	<0.70	<0.70		1.30	18		10	22	6.1	20	140		130	28	<0.70	50	51	59	26	88	<0.70	7.5	97		210	420	100	77	1
Ethyl benzene	<20	1370	<2	<2		<2	<2	<2	<2	<2	< 1		<2	40.1		12.6	80.2	<2	4.63	30.9		77.2	15.3	<2	35	7.97	<2	306	483	<2	146	<40		524	751	29.7	183	5
Toluene	46.5	5750	<2	<2		<2	<2	<2	<2	<2	< 1		<2	<2		<2	<20	<2	<2	3.91		2.57	<2	<2	<2	70.9	25.2	138	972	<2	2.8	1010		825	963	94.1	28.3	5
m,p-Xylene	70.9	4900	<2	<2		<2	<2	<2	<2	<2	<2		5.31	19.7		15.3	20.4	5.26	2.86	152		54.2	22	<2	5.31	1110E	1300E	3110	3220	<2	97.7	2120		2100	2440	848	236	5
o-Xylene	356	2310	<2	<2		<2	<2	<2	<2	<2	<2		7.74	3.43		3.25	<20	<2	<2	56.7		5.22	3.13	<2	<2	747E	999E	118	1430	<2	5.9	1300		724	719	275	68.9	5
1,3,5-Trimethylbenzene	193	451	<2	<2		<2	<2	<2	<2	<2	< 1		22.4	<2		4.11	<20	2.74	<2	19.6		4.69	8.53	<2	<2	134	155	248	341	102	7.16	164		176	388	89.5	34.6	5
1,2,4-Trimethylbenzene	199	1800	<2	<2		<2	<2	<2	<2	<2	< 1		158	18.1		19.3	20.7	3.36	5.13	77.3		34.5	13.6	<2	6.61	363E	363E	1000	1200	<2	241	485		740	1380	292	290	5
p-isopropyltoluene	43	42.2	<2	<2		<2	<2	<2	<2	<2	< 1		3.30	<2		<2	<20	<2	<2	<2		<2	<2	<2	<2	<2	<2	<20	<20	<2	3.53	<40		<20	<20	<20	<20	5
Isopropylbenzene	<20	99	<2	<2		<2	<2	<2	<2	<2	< 1		<2	15		17.1	38.5	<2	40.2	14.9		7.73	8.09	<2	18.3	6.72	2.03	35.1	58.7	<2	23.8	<40		33	75	<20	29.5	5
n-Propylbenzene	<20	194	<2	<2		<2	<2	<2	<2	<2	< 1		<2	21.5		29.7	74.2	<2	61.3	24.5		11.9	14.8	<2	20.4	<2	<2	48.4	131	<2	62.5	<40		93.4	231	<20	69.6	5
n-Butylbenzene	<20	<20	<2	<2		<2	<2	<2	<2	<2	< 1 [11]		<2	<2		2.73	<20	<2	2.19	<2		<2	<2	<2	<2	<2	<2	<20	<20	<2	10.9	<40		<20	<20	<20	<20	5
Naphthalene	<50	302	<5	<5		25.8	<5	<5	<5	<5	<2	< 1	<5	25.6		9.47	<50	<5	5.77	24.9		153	<5	<5	<5	82.4	67.3	478	247	<5	70	<100		116	186	53	78	10 (G)
MTBE	<20	<20	<2	<2		<2	<2	<2	123	141	120		<2	<2		<2	<20	<2	<2	<2		<2	<2	<2	<2	<2	<2	<20	<20	<2	<2	<40		<20	<20	<20	<20	10
Total VOC's (Does not include MTBE)	1312.4	17531.2	12.85	19.2		36.15	16.3	12.85	12.85	12.85	12.85		205.6	165.4		125.6	331	26.96	146.08	546.71		483.01	118.95	12.85	143.12	2575.99	2974.53	5527.5	8190.7	113.85	678.79	5326		5561.4	7573	1821.2	1114.9	
TPHs (ug/l) by NYDOH Method 310-13	752	5480			<250										351						<250					1070					4770						NGV

Notes:

1) * = New York State Department of Environmental Conservation (NYSDEC). June 1998. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS) 1.1.1. GA Class standards or guidance values (G) listed.
2) STARS = New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memo #1 Petroleum-Contaminated Soil Guidance Policy, dated August 1992.
3) BOLD = Reported concentration is above NYSDEC TOGS Guidance Value or Standard.
4) ug/l = Micrograms per liter which is equivalent to parts per billion (ppb)
5) E = Estimated concentration reported by laboratory; concentration exceeds calibration range.
6) NGV = No guidance value has been established by New York State
7) Groundwater samples taken on 4/6/00 were analyzed for Target Compound List Volatile Organic Compounds by USEPA Method 8260.
8) Groundwater samples taken on 10/5/00; 10/16/00; 1/24/01; 5/14/2001 and 7/26/2001 were analyzed for STARS List Volatile Organic Compounds by USEPA Method 8021.
9) Total VOC's is the sum of the detected compounds and half the detection limit of non-detected compounds
10) Duplicate sample taken for submission to second laboratory (Columbia Analytical Services). CAS results are indicated in *Italics*.
11) CAS analyzed for two forms of butylbenzene, sec butylbenzene and tert-butylbenzene, in addition to n-butylbenzene. The results for these forms were also <1 ug/l.

TABLE 4

Summary of Headspace Readings
180-182 Exchange Street
Rochester, New York

Borehole	Depth (ft. bgs)	PID Readings	
		Sustained (ppm)	Background (ppm)
GP-201	0-4	0.3	0.2
	4-8	0.2	0.2
	8-12	0.3	0.2
	12-14	1.4	0.2
GP-202	0-4	0.2	0.2
	4-8	0.1	0.2
	8-12	0.4	0.2
	12-14.3	1.2	0.2
GP-203	0-4	31.1*	0.2
	4-8	0.2	0.2
	8-12	0.2	0.2
	12-14	0.2	0.2
GP-204	0-4	0.4	0.2
	4-8**	NM	-
	8-12	3.4	0.2
	12-14.5	2.2	0.2
GP-205	0-4	0.4	0.2
	4-8	0.4	0.2
	8-12	1200.0	0.2
	12-14	111.0	0.2
GP-206	0-4	0.7	0.2
	4-8	0.5	0.2
	8-12	1.1	0.2
	12-14	0.7	0.2
GP-207	0-4	0.4	0.2
	4-8	0.8	0.2
	8-12	1.4	0.2
	12-14	1.0	0.2
GP-208	0-4	0.6	0.2
	4-8	0.6	0.2
	8-12	1.6	0.2
	12-14	3.9	0.2
GP-209	0-4	0.6	0.2
	4-8	1.0	0.2
	8-12	0.6	0.2
	12-14	432.0	0.2
GP-210	0-4	3.0	0.2
	4-8	0.7	0.2
	8-12	0.3	0.2
	12-14	1235.0	0.2
GP-211	0-4	1.5	0.2
	4-8	0.7	0.2
	8-12	3.7	0.2
	12-14	372.0	0.2
GP-212	0-4	1.1	0.2
	4-8	0.5	0.2
	8-12	0.3	0.2
	12-14.5	203.0	0.2
GP-213	0-4	0.8	0.2
	4-8	0.5	0.2
	8-12	0.7	0.2
	12-14	897.0	0.2
GP-214	0-4	0.4	0.2
	4-8	0.6	0.2
	8-12	0.4	0.2
	12-14	0.8	0.2
GP-215	0-4	0.6	0.2
	4-8	0.8	0.2
	8-12	0.2	0.2
	12-14	12.6	0.2

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Mini-Rae 2000 equipped with 10.6 eV lamp.
* possible marker paint in the sample
** No Recovery

TABLE 6

Summary of Detected STARS List Volatile Organic Compounds in Soil
180-182 Exchange Street
Rochester, New York

Sample ID / Depth (below grade) / Date Sampled / Units	TAGM RSCO[1] µg/kg	Soil Sample Designation: February 2002 GP-205 8'-12' 2/27/2002 µg/kg	February 2002 GP-205 12'-14' 2/27/2002 µg/kg	February 2002 GP-209 12'-14' 2/27/2002 µg/kg	July 2000 WEST - SW 6' - 10' 7/19/2000 µg/kg	July 2000 WEST - BOTT 11' - 14.5' 7/19/2000 µg/kg	July 2000 SWEST - SW 6' - 10' 7/19/2000 µg/kg	July 2000 SWEST - BOTT 11' - 14.5' 7/19/2000 µg/kg	July 2000 SOUTH - SW 6' - 10' 7/19/2000 µg/kg	July 2000 SOUTH - BOTT 11' - 14.5' 7/19/2000 µg/kg	September 2000 MW-7 10' - 12' 9/18/2000 µg/kg
Benzene	60	ND	**95.5**	ND	ND	**114**	ND	**178**	ND	ND	ND
Ethylbenzene	5,500	131	365	134	ND	16	ND	19.6	20.4	ND	2820
Toluene	1,500	143	344	13.4	ND	ND	ND	ND	ND	ND	**3690**
o-Xylene	600	**733**	**1370**	126	19.5	28.1	34.6	30.4	24.1	ND	**5160**
m,p-Xylene	1,200	**1410**	**1290**	102	ND	66	ND	185	69.8	18.3	**11700**
Isopropylbenzene	2,300	ND	44	36.8	ND	26.8	ND	ND	ND	ND	171
n-Propylbenzene	3,700	83.7	85	86.9	ND	28.6	ND	ND	ND	ND	774
p-Isopropyltoluene	10,000	ND	13.6	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10,000	1600	348	110	ND	37.2	ND	24.7	26.2	9.27	6070
1,3,5-Trimethylbenzene	3,300	524	409	74.1	20.5	12	14.9	8.85	ND	ND	1720
n-Butylbenzene	18,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	25,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13,000	268	82.1	ND	ND	ND	ND	ND	ND	ND	665
Methyl tert-butyl ether (MTBE)	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1) NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Administrative Guidance Memorandum (TAGM) HWR 94-4046 (Revised) revised December 20, 2000, Recommended Soil
2) Bold and Underlined values are samples that have been detected and exceed the
3) ND = Not Detected at or above the laboratory detection limit. Minimum laboratory detection limits listed in Appendix.
4) Soil sample nomenclature: SW = Sidewall; BOTT = Bottom

APPENDIX A

LIST OF REFERENCED DOCUMENTS
For the
180-182 Exchange Boulevard, Rochester, New York
Soil Management Plan

Reports

- DAY Environmental, Inc. *Phase I Environmental Site Assessment Report.* September 9, 1998.
- The Sear-Brown Group Inc. *Phase II Environmental Investigation Report.* February 23, 1999.
- The Sear-Brown Group, Inc. *Additional Phase II Environmental Investigation/ Corrective Action Plan Report.* July 2000.
- The Sear-Brown Group, Inc. *Subsurface Remediation Report.* April 2001.
- The Sear-Brown Group, Inc. *Progress Report #2.* July 2002.

New York State Department of Environmental Conservation Guidance Documents

- *Ambient Water Quality Standards and Guidance Values, Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1.* June 1998.
- *Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation Technical and Administrative Guidance Memorandum (TAGM) HWR 94-4046.* January 24, 1994; revised December 20, 2000.
- *Spill Technology and Remediation Series (STARS) Memo #1, Petroleum Contaminated Soil Guidance Policy.* August 1992.

APPENDIX B

SUBSURFACE EXPLORATION LOGS

SUBSURFACE EXPLORATION LOGS

From the

Phase II Environmental Investigation Report

February 23, 1999

1555.07 | City of Rochester | 180-82 Exchange St Rec

DRILLING METHOD: 3 1/4" Augers

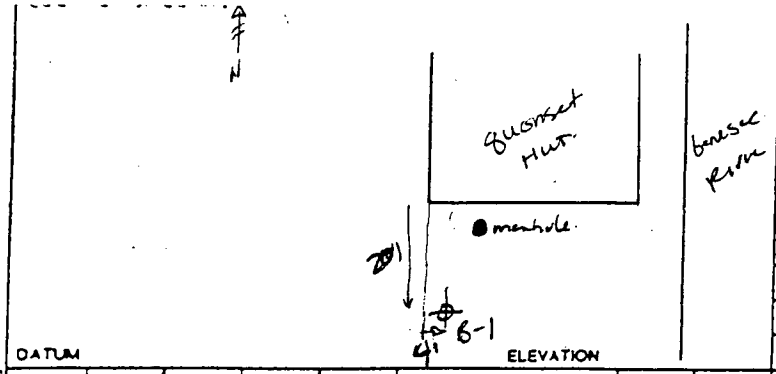
SAMPLING METHOD: 2" x 24" Sampler

SURFACE CONDITIONS: Asphalt.

BORING NUMBER: B-1

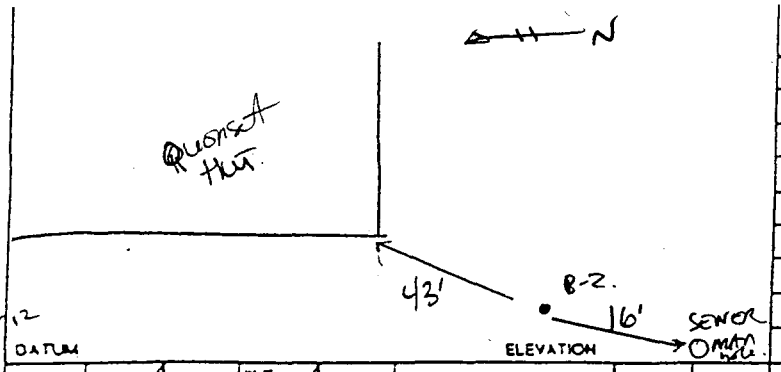
SHEET: 1 OF 1

DRILLING: START TIME 0900 DATE 10/17 | FINISH TIME 1000 DATE 10/17



DATUM ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH	
								0		REFUSAL @ 1 Ft. BGS. Move Hole
								1		NO RECOVERY
	24		1	5,7				2		
	0		1-3	7,4						
	24		2	4,8				4		
	0		3-5	6,5						
	24		3	3,7		3.6		5		LIGHT BROWN SILTY CLAY, SOME FILL MATERIAL AND COARSE GRAVEL (MOIST) (LOOSE).
	12		5-7	4,3				6		SOME COAL / BRICK FRAGMENTS
	24		4	5,3		3.8		7		SAME AS PREVIOUS
	12		7-9	3,3				8		
	24		5	9,11				9		LIGHT GRAY SAND AND SILTY CLAY SOME COARSE GRAVEL AND BRICK FRAGMENTS, FILL MATERIAL (WET) (LOOSE).
	12		10-12	17,8		3.9		10		
	24		6	4,8				13		SAME AS PREVIOUS (WET) (LOOSE)
	6		12-14.5	6,5		4.5		14		DRILLER NOTED REFUSAL @ 14.5. ATTEMPT TO ADVANCE REFUSAL - STOP B-1 @ 14.5 FT BGS @ 1000
								15		NOTE HNu Background @ 2.8 ppm - Down wind of Drilling Rig
								16		
								17		
								18		
								19		
								20		
								21		



15155.02 | CITY OF Rochester. | EXCHANGEST

DRILLING METHOD: 3 1/4" AUGERS.

SAMPLING METHOD: 2" SPLIT SPOON

BORING NUMBER: B-2

SHEET: 1 OF 1

DRILLING: START TIME 1045 DATE 10/18 | FINISH TIME 1115 DATE 10/18

SURFACE CONDITIONS: ASPHALT.

DATUM: 712 ELEVATION:

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH	
								0		
								1		
2"SS.	24 / 12"		1 / 1-3	4/7 13/12		3.6		2		DARK BROWN SILTY SAND. (MOIST) (LOOSE.
								3		
2"SS.	24 / NR		2 / 3-5	7/8 13/14				4		NO RECOVERY
								5		
2"SS.	24 / NR		4 / 5-5.3	50/3				6		NO RECOVERY
								7		
								8		HARD AUGERS
								9		
2"SS	24 / 24		5 / 9-11	5/5 7/6		3.6		0		LIGHT BROWN SAND (MOIST) (STIFF). WITH SOME COBBLES
								1		
2"SS	24 / 12		6 / 11-13	2/3 20/14		3.6		2		SAME AS PREVIOUS. - TIPOT SPOON - SAME (Refusal
								3		
2"SS	24 / 12		7 / 13-15	7/3 3/0		3.6		4		SAME AS PREVIOUS.
								5		DRILLER NOTES REFUSAL @ 14.5' BGS @ 1115.
								6		
								7		HNu BACKGROUND 3.6 ppm
								8		
								9		
								0		
								1		

15155.02 | CITY OF ROCHESTER | EXCHANGE ST

DRILLING METHOD: 3 1/4" AUGERS

BORING NUMBER: B-3

SHEET: 1 OF 1

SAMPLING METHOD: 2" ∧ 24" SPLITSPOON

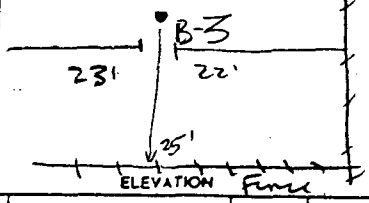
DRILLING START TIME: 1010 DATE: 10/17

DRILLING FINISH TIME: 1047 DATE: 10/17

SURFACE CONDITIONS: Asphalt

DATUM

ELEVATION Finish



SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
2"SS	6" / 6"		1 / 1-1.5			B.4		0	
2"SS	24 / 24		2 / 5-7	18,10 / 5,6		3.5		5	
2"SS	24 / 24		3 / 7-9	6,8 / 5,6		4.2		8	
2"SS	24 / 24		4 / 9-11	1,1 / 2,2		3.5		10	
2"SS	24 / NR		5 / 11-13	4,3 / 3,5		4.1		12	
2"SS	24 / NR		6 / 13-15	4,6				14	

Asphalt/GRAVEL. DRILLER NOTES HARD DRILLING @ 1-1.5. FILL MATERIAL, SOME COAL AND BRICK FRAGMENTS.

DRILL THROUGH FILL.

FILL MATERIAL. BRICK FRAGMENTS, COARSE GRAVEL concrete debris.

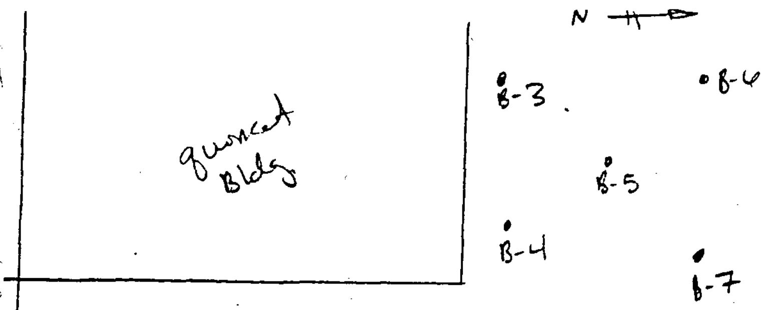
SAME AS PREVIOUS. Bottom 6" OF SPOON DARK GRAY SILTY SAND (MOIST)(LOOSE)

SAME AS PREVIOUS (WET)(LOOSE)

NO RECOVERY ON SPLIT SPOON

DRILLER NOTES REFUSAL @ 14' BGS

NOTE BKL: 2.5 ppm



CITY OF ROCHESTER EXCHANGE ST.

DRILLING METHOD	3 1/4" AUGERS
SAMPLING METHOD	2" SPLIT SPOON
BORING NUMBER	B-4
SHEET	1 OF 1
DRILLING START TIME	1310
DRILLING FINISH TIME	NW
START DATE	10/17
FINISH DATE	10/17

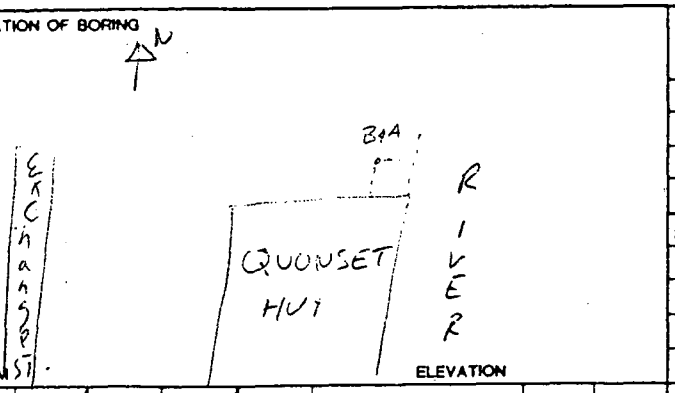
DATUM

ELEVATION

SURFACE CONDITIONS: Asphalt

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH	DESCRIPTION
								0		
								1		
								2		HAND AUGERS FROM 0-3' BGS (FILL)
								3		
2" SS	24 / 12		1 / 3-5	4,7 / 3,3		18.6		4		DARK GRAY SILTY SAND (MOIST) (LOOSE). Weathered Petrol odor. (FUEL OIL)
								5		
2" SS	24 / 24		2 / 5-7	1,1 / 1,1		424		6		SAME AS PREVIOUS, STRONG PETROL ODOR.
								7		
2" SS	24 / 24		3 / 7-9	1,3 / 6,3		1,311		8		SAME AS PREVIOUS, STRONG PETROL ODOR
								9		
2" SS	24 / 24		4 / 9-11	1,2 / 3,4		1,851		10		SAME AS PREVIOUS - STRONG SOLVENT ODOR. - NOT AS MUCH PETROL ODOR.
								11		
2" SS	24 / 24		5 / 11-13	1,1 / 3,3		PEAKED.		12		SAME AS PREVIOUS
								13		
2" SS	12"		6 / 13-14	3,6 / 50/0		PEAKED		14		SAME AS PREVIOUS. DRILLER NOTES REFUSAL @ 14' BGS. HNu Background 2 ppm. PID READING IN HOLE 740 ppm
								15		
								16		
								17		
								18		
								19		
								20		
								21		

LOCATION OF BORING



DATUM ELEVATION

JOB NUMBER	CLIENT	LOCATION
1555.02	C.O.R.	Exchange St

DRILLING METHOD: HSA

BORING NUMBER: SB4A/B

SHEET 1 OF

SAMPLING METHOD: 2' S.S.

DRILLING: START TIME / FINISH TIME

SURFACE CONDITIONS: asphalt/gravel

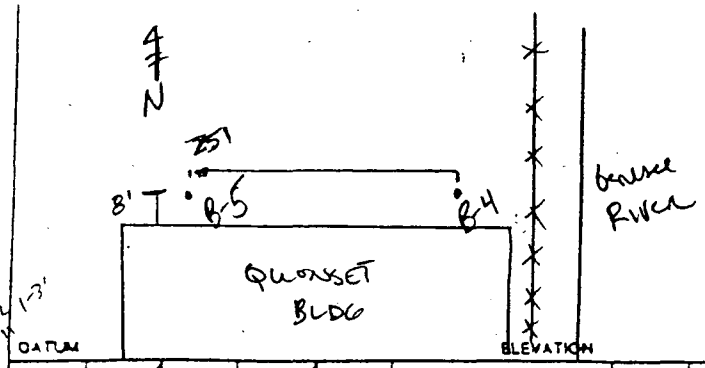
DATE: 11/24/98 / DATE: 11/24/98

DRILLING CONTRACTOR: TARGET

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA PROBE	OVA BK SAMPLE	OVA CUTTINGS BSV	DEPTH IN FEET	SOIL GRAPH	
								0		Drill through fill/concrete
								1		
								2		
								3		
				2				4		
	7"			2 3	300	3.5	275	5	SS-1	DARK Brown Brown SILT, little gravel and sand STRONG petro odor trace clay moist
				2 2				6		
	6"			1 1	38	3.6	27	7	SS-2	same as above Cnot enough recovery after split sampling to get accurate HNU RDJ
				2 4				8		
	6"			3 3	287	4.9	150	9	SS-3	same as above not enough recovery to sample
				2 4				10		
	12"			3 3	over 2000	6		1	SS4	same as above, slight phen, strong solvent like odor
				5 4				2		
	20"			3 4	over 2000	11		3	SS5	Moist Grey Black SILT, little f-m sand and clay Strong odor petro/solvent
				3				4		
								5		EOB 14 Refusal
								6		
								7		
								8		
								9		
								0		
								1		

CHECKED BY: 1115

DATE 11/24/98 BY



15155.02 | CITY OF ROCHESTER | EXCHANGE ST.

DRILLING METHOD: 3 1/4" AUGERS

SAMPLING METHOD: 2" SPLIT SPOON

BORING NUMBER: B-5

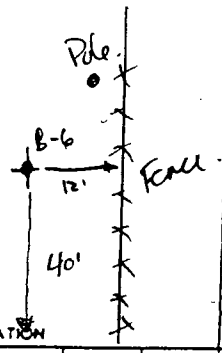
SHEET: 1 OF 1

DRILLING: START TIME 1620 DATE 10/17 | FINISH TIME 1700 DATE 10/17

SURFACE CONDITIONS: Asphalt

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH	
								0		
								1		
2"SS	24 / 24		1 / 1-3	6,9 / 12,11		4.6		2		FILL MATERIAL, SOME BRICK FRAGMENTS AND SLAG MATERIAL (MOIST) (LOOSE) (ASH)
								3		
2"SS	24 / 24		2 / 3-5	6,9 / 8,11		8.6		4		SAME AS PREVIOUS
								5		
2"SS.	24		3 / 5-7	5,4 / 7,21		4.6.		6		FILL MATERIAL BRICK FRAGMENTS COARSE GRAVEL. ASH IN TIP OF SPOON (6") SOME COAL FRAGMENTS
								7		ASH
2"SS	24 / 12		4 / 7-9	11,14 / 13,8		10.1.		8		FILL MATERIAL BRICK AND COAL FRAGMENTS
								9		
2"SS	24 / 12.		5 / 9-11	6,5 / 3,4		154		10		LIGHT GRAY SILTY SAND. SLIGHT PETROL ODOR
								1		
2"SS.	24 / NR		6 / 11-13	3,3 / 3,3				2		
								3		SAME AS PREVIOUS. STRONGER PETROL ODOR.
2"SS	24 / 12.		7 / 13-15	3,3		PEAKED.		4		DRILLER NOTES REFUSAL @ 14' BGS @ 1700
								5		
								6		NOTE 4.6 HNU BKG.
								7		
								8		
								9		
								10		
								11		

15155.07 | CITY OF ROCHESTER



DATUM ELEVATION

DRILLING METHOD: 3¼" Augers.

SAMPLING METHOD: 2" x 24" SPLIT SPOON.

SURFACE CONDITIONS: Asphalt

BORING NUMBER: B-6

SHEET: 1 OF 1

DRILLING: START TIME 1050 DATE 10/17 | FINISH TIME 1130 DATE 10/17

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
								0	
	24 / 12"		1 / 1-1½	4 / 50/6		3.6		1	
								2	
								3	
								4	
								5	
	24 / 24		2 / 5-7	12,22 / 18,14		3.4		6	
	24 / 24		3 / 7-9	14,11 / 7,6.		9.0.		7	
								8	
	24 / 24		4 / 9-11	2,2 / 4,3		11.2.		9	
								10	
	24 / 6"		5 / 11-13	3,3 / 4,3		5.0.		11	
	6" / 6"		6 / 13-13.6	40/6		3.6		12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	
								21	

Asphalt.

FILL MATERIAL. BRICK FRAGMENTS, COARSE GRAVEL

FILL MATERIAL, BRICK FRAGMENTS, COARSE GRAVEL.

SAME AS PREVIOUS, BOTTOM 1.2' LIGHT GRAY SILTY SAND.

LIGHT GRAY SILTY SAND. (MOIST) (STIFF). Weathered Petrol odor.

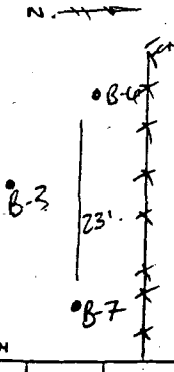
SAME AS PREVIOUS.

SAME AS PREVIOUS.
DRILLER NOTED refusal @ 13.6' BGS SPLIT SPOON
- AUGER ATTEMPT - REFUSAL @ 13.6' BGS @ 1130.

NOTE BKG - 2.8 ppm

Job 15155.02 | City of Rochester | Exchange St.

guessed here



DRILLING METHOD: 3 1/4" Augers

BORING NUMBER: B-7

SHEET: 1 of 1

SAMPLING METHOD: 2" x 24" SPLIT SPOON.

DRILLING START TIME: 1145 | FINISH TIME: 1215

DATUM | ELEVATION

SURFACE CONDITIONS: Asphalt.

DATE: 10/15 | DATE: 10/15

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
2'SS.	24 / 24		1 / 3-5	12,6 / 6,4		4.1.		0	
2'SS	24 / NR		2 / 5-7	15,22 / 19,13		3.8		6	
2'SS	24 / 6"		3 / 7-8.3	15,19 / 25,3		4.2		8	

REFUSAL @ 1'0 BGS MOVE HOLE. 3' South West.

HARD AUGERS FROM 1-3' BGS.

DARK BROWN SILTY SAND SOME COARSE GRAVEL (MOIST) (LOOSE).

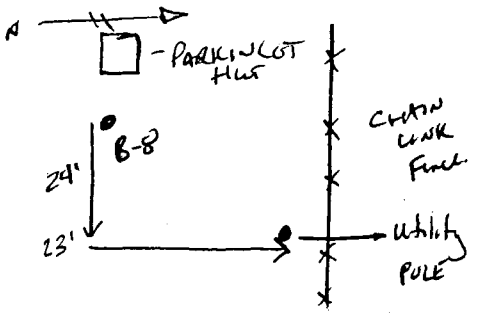
LIGHT BROWN SILTY SAND, SOME GRAY SAND. (moist) (LOOSE)

NO RECOVERY. same as above

VERY COARSE GRAVEL. LIGHT BROWN SAND (VERY LOOSE) (MOIST)

DRILLER NOTES REFUSAL @ 8.6 FT BGS. @ 1215

NOTE: BKG. 3.0ppm



15155.02 | CITY OF ROCHESTER | EXCHANGE ST

DRILLING METHOD: 3¼" AUGERS

SAMPLING METHOD: 2" SPLIT SPOON

BORING NUMBER: B-8

SHEET: 1 OF

DRILLING START TIME: 0720 FINISH TIME: 0750

DATE: 10/18 DATE: 10/18

SURFACE CONDITIONS: Asphalt.

DATUM: ELEVATION:

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
								0	
								1	
2"SS	24 / 24		1 / 1-3	15,12 / 18,18		5.4		2	
								3	
2"SS	24 / 12		2 / 3-5	35/10 / 14/15		9.9		4	
								5	
2"SS	24 / 12		3 / 5-7	8/5 / 6/7		5.2		6	
								7	
2"SS	24 / NR		4 / 7-9	12/6 / 5/1				8	
								9	
								0	
								1	
								2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
								0	
								1	

Asphalt And Crushed Run

FILL MATERIAL ASH, BRICK FRAGMENTS, Concrete AND COARSE GRAVELS (LOOSE)

VERY COARSE GRAVELS. SLIGHT ODOR.

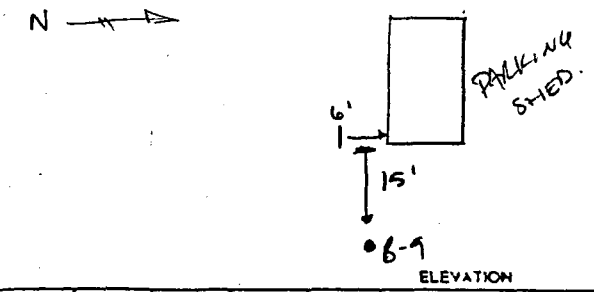
SAME AS PREVIOUS WITH SOME LIGHT BROWN SILTY SAND (MOIST) (LOOSE) NO ODOR.

NO RECOVERY.

HARD AUGERS.
DRILLER NOTES REFUSAL @ 9' BGS @ 0750
STOP B-8

HNu BKG. 4.0.

EXCHANGE ST. | 15155.02 | CITY OF ROCHESTER



DATUM ELEVATION

DRILLING METHOD: 3 1/4" AUGERS

SAMPLING METHOD: 2" SPLITSPOON

BORING NUMBER: B-9

SHEET: 1 OF 1

DRILLING: START TIME 1415 | FINISH TIME 1450

SURFACE CONDITIONS: Asphalt

DATE: 10/14 | DATE: 10/14

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
2"SS	24" / 12"		1 / 1-2.5	7,14 / 9		10.6		0	
								1	
								2	
								3	
								4	
								5	
								6	
								7	
								8	
2"SS	24" / 12"		2 / 8-10	3,1 / 2,3		9.3		9	
								10	
2"SS	24" / 12"		3 / 10-12	4,3 / 4,12		6.1		11	
								12	
								13	
2"SS	24" / NR		4 / 12-14					14	
								15	
								16	
								17	
								18	
								19	
								20	
								21	

FILL MATERIAL BRICK FRAGMENTS, COARSE GRAVELS

HARD AUGERS.

HARD AUGERS

HARD AUGERS

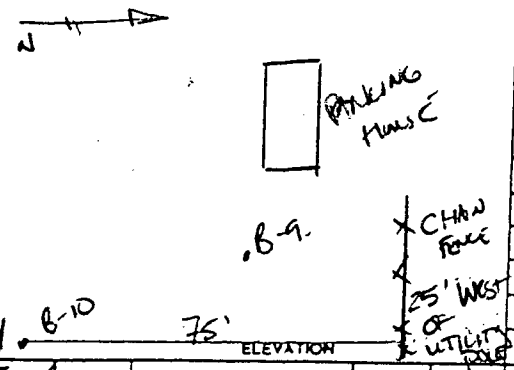
FILL MATERIAL, CONCRETE debris TIP OF SPOON, SILTY CLAY (WET) (LOOSE).

LIGHT BROWN SILTY SAND (WET) (LOOSE

STOP B-9 @ 13.10 FT BGS @ 1450.
DRILLER NOTES REFUSAL @ 13.10" FT BGS.

NOTE BACKGROUND 5.8 ppm

15155.02 | City of Rochester | Exchange St



DATUM ELEVATION

DRILLING METHOD: 3 1/4" Augers

SAMPLING METHOD: 2" SPLIT SPOON.

SURFACE CONDITIONS: Asphalt

BORING NUMBER: B-10

SHEET: 1 OF 1

DRILLING: START TIME 1520 DATE 10/17 | FINISH TIME 1555 DATE 10/17

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH	
								0		
								1		
2"SS.	24/12		1 / 1-3	M,M / M,9		6.2		2		FILL MATERIAL, MOSTLY BRICK FRAGMENTS.
2"SS	24/NR		2 / 3-5	50/3		...		3		NO RECOVERY - BRICK FRAGMENTS
								4		
2"SS.	24/24		3 / 5-7	3,2 / 3,2		13.2		5		FILL MATERIAL, GRAVEL (COARSE), BRICK, GLASS. TIP OF SPOON - LIGHT BROWN, SILTY SAND, WITH SOME COARSE GRAVEL (MOIST) (LOOSE)
2"SS.	24/24		4 / 7-9	3,3 / 4,3		5.0		6		SAME AS PREVIOUS, SOME BRICK FRAGMENTS.
								7		
2"SS	24/24		5 / 9-11	10,3 / 4,4		7.4 / 5.0		8		SAME AS PREVIOUS.
								9		
2"SS	24/24		6 / 11-13	2,2 / 2,4		5.0		10		LIGHT GRAY SILTY SAND (MOIST) (LOOSE)
								11		
2"SS	24/12		7 / 13.5	3,3		5.1		12		SAME AS PREVIOUS W/ SOME WOOD FRAGMENTS (MOIST) (LOOSE)
								13		
								14		SAME AS PREVIOUS
								15		DRILLER NOTES REFUSAL @ 14' BGS @ 1555
								16		
								17		NOTE HNu Background 5.0.
								18		
								19		
								20		
								21		

15155.02 | CITY OF ROCHESTER | EXCHANGE.

DRILLING METHOD: 3 1/4" AUGERS

SAMPLING METHOD: 2" SPLIT SPOON

BORING NUMBER: B-11

SHEET: 1 OF 1

DRILLING START TIME: 1005 DATE: 10/18

DRILLING FINISH TIME: 1040 DATE: 10/18

SURFACE CONDITIONS: Asphalt

DATUM: 5,134 ELEVATION: See B-14 Boring Log.

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
								0	
								1	
2"SS	24/12		1/1-3	16/10 12/20		4.2		2	
								3	
								4	
								5	
2"SS	24/24		2/5-7	5/1 3/4		4.6		6	
								7	
2"SS	24/24		3/7-9	2/1 2/1		9.0 4.2		8	
								9	
2"SS	24/12		4/4-11	9/7 2/2		4.2		10	
								11	
2"SS	24/24		5/11-13	3/3 3/4		3.8		12	
								13	
2"SS	24/NR		6/13-14	4/3 10/0				14	
								15	
								16	
								17	
								18	
								19	
								20	
								21	

FILL MATERIAL - BRICK AND COARSE GRAVEL.

HARD AUGERS.

FILL MATERIAL, ASH AND BRICK MATERIAL.

DARK BROWN SILTY SAND (MOIST) (STIFF)

DARK GRAY SILTY SAND (MOIST) (STIFF)

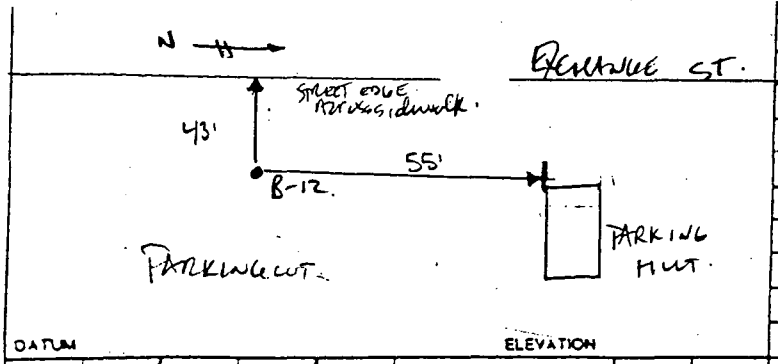
SAME AS PREVIOUS.

SAME AS PREVIOUS.

NO RECOVERY

DRILLER NOTES: Refusal @ 14' BGS @ 1040

HNu Background 3.8 ppm



1515502 | CITY OF REVERE | EXCHANGE ST

DRILLING METHOD: 3 1/4" AUGERS

SAMPLING METHOD: 2" SPLIT SPOON

BORING NUMBER: B-12

SHEET: 1 OF 1

DRILLING: START TIME 0755 | FINISH TIME 0820

SURFACE CONDITIONS: ASPHALT

DATE: START 10/18 | FINISH 10/18

DATUM: ELEVATION:

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
								0	
								1	
								2	
								3	
2"SS	24/24		1/3.5	5/3 2/4		5.0 4.9		4	
								5	
2"SS	24/24		2/6-7	3/2 3/2		58		6	
								7	
2"SS	24/24		3/7-9	1/1 5/3		5.5 13.8		8	
								9	
2"SS	24/24		4/9-11	1/3 5/6		4.4		10	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	

HAND AUGER.

HAND AUGERS:

FILL MATERIAL. BRICK / CONCRETE DEBRIS, SOME COARSE GRAVELS.

DARK BROWN SILTY SAND. (MOIST) (LOOSE).

SAME AS PREVIOUS WITH SOME FINE GRAVELS (MOIST) (LOOSE).

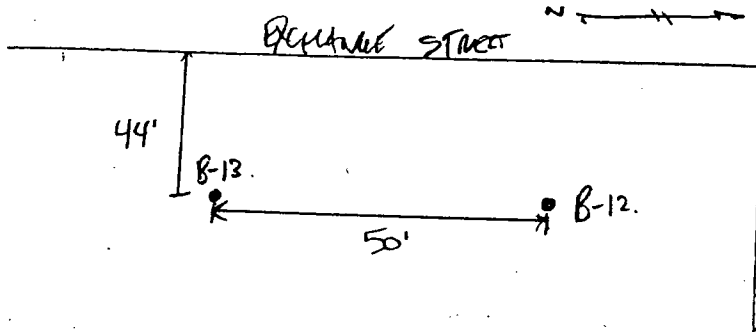
SAME AS PREVIOUS (MOIST) (LOOSE).

FILL MATERIAL / BRICK FRAGMENTS. (LOOSE) (MOIST) SLIGHT ODOR

-LIGHT GRAY SILTY SAND (WET) (LOOSE) SLIGHT ODOR.

STOP B-12 @ 11' BGS @ 0820.

HNU BACKGROUND 4.4 ppm.



15155.02 | CITY OF ROCHESTER | EXCHANGE ST.

DRILLING METHOD: 3 1/4" AUGERS.

SAMPLING METHOD: 2" SPLIT SPOON.

BORING NUMBER: B-13

SHEET: 1 OF 1

DRILLING: START TIME 0830 | FINISH TIME 0910

DATE: 10/18 | DATE 10/18

SURFACE CONDITIONS: Asphalt.

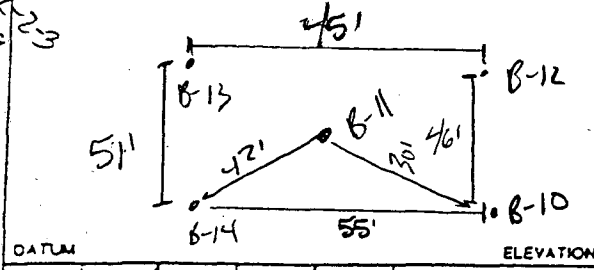
DATUM: ELEVATION:

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH	
								0		Asphalt and Gravel
								1		
								2		HARD AUGERS. FILL - BRICK FRAGMENTS.
								3		
								4		
								5		HARD AUGERS
2'/5.	24 /		1 /	6/2		3.9		6		FILL MATERIAL. ASH, COARSE GRAVEL, BRICK FRAGMENTS
	24.		57	1/5						
								7		
2'/5.	24		2 /	3/3		4.1		8		SAME AS PREVIOUS.
			79	7/18.						DRILLER NOTES REFUSAL @ 9.8" @ 0910.
								9		BACKGROUND 3.6 ppm
								10		NO SAMPLE COLLECTED
								11		
								12		
								13		
								14		
								15		
								16		
								17		
								18		
								19		
								20		

3-8-12-8
5-7

Richary St.

15155.02 | City of Rochester | Environmental



DATUM ELEVATION

DRILLING METHOD: 3¼" Augers

SAMPLING METHOD: 2" Split Spoon

SURFACE CONDITIONS: Asphalt

BORING NUMBER: B-14

SHEET: 1 OF

DRILLING START TIME: 0920 | DRILLING FINISH TIME: 0955

DATE: 10/18 | DATE: 10/18

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA AUGER	OVA SAMPLE	OVA CUTTINGS	DEPTH IN FEET	SOIL GRAPH
								0	
								1	
2"SS	24/12		1/1-3	17/15 15/14		2.5		2	
								3	
								4	
								5	
2"SS	24/12		2/5-7	3/8 12/8		2.8		6	
								7	
2"SS	24/12		3/7-9	5/7 2/3		2.4		8	
								9	
2"SS	24/16"		4/9-11	2/3 4/4		2.1		0	
								1	
2"SS	24/NR		5/11-13	3/3 4/2				2	
								3	
2"SS	24/24		6/B-K	2/2 4/2		2.2		4	
								5	
2"SS	24/NR		7/15-17	50/0				6	
								7	
								8	
								9	
								0	
								1	

FILL - BRICK FRAGMENTS

HAND AUGERS.

SAME AS PREVIOUS

SAME AS PREVIOUS

DARK BROWN SILTY SAND WITH SOME BRICK FRAGMENTS (MOIST) (LOOSE).

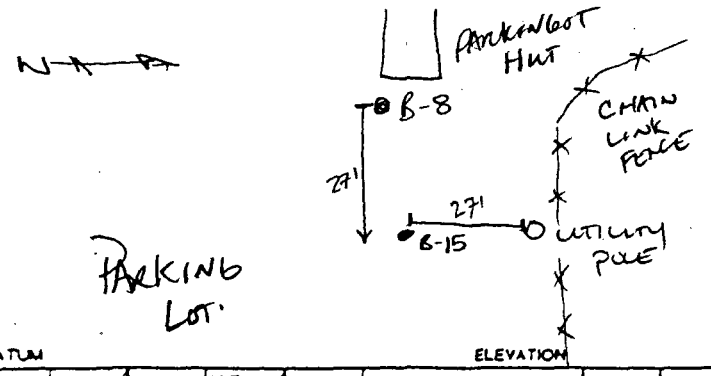
SAME AS PREVIOUS

NO RECOVERY

DARK GRAY SILTY SAND WITH SOME WOOD FRAGMENTS (WET) (LOOSE)

Driller Notes Refusal @ 15.2 BGS @ 0955

BKG 2.2 ppm



15155.02 | CITY OF ROCHESTER | EXCHANGE ST

DRILLING METHOD: 3¼" AUGERS

SAMPLING METHOD: 2" SPLIT SPOON

BORING NUMBER: B-15

SHEET: 1 OF 1

SURFACE CONDITIONS: ASPHALT

DRILLING	START	FINISH
TIME	1125	1210
DATE	10/18	10/18

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NUMBER / SAMPLE DEPTH	BLOWS/FT. SAMPLER	OVA: AUGER	OVA: SAMPLE	OVA: CUTTINGS	DEPTH IN FEET	SOIL GRAPH
								0	
								1	
2"SS	24 / 6"		1 / 1-2	6/12				2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
								10	
								11	
2"SS	24 / 24		1 / 1-3	8/15 17/22		4.2		12	
								13	
2"SS	24 / NR		2 / 3-5	5/8 12/15				14	
								15	
2"SS	24 / NR		3 / 5-7	23/18 18				16	
								17	
								18	
								19	
								20	
								21	

Concrete debris and COARSE GRAVEL.

HARD AUGERS AT 2' BGS.

HARD AUGERS.

DRILLER NOTES REFUSAL @ 5' BGS @ 1140. MOVE HOLE 8.1 SOUTH. BACKFILL STONE IN CUTTINGS

FILL MATERIAL. BRICK AND COARSE GRAVEL AND SLAG MATERIAL (LOOSE)

NO RECOVERY.

HARD AUGERS NO RECOVERY

HARD AUGERS.

DRILLER NOTES REFUSAL AT 9' BGS @ 1210

NOTE - HNu BACKGROUND 3.6 ppm

SUBSURFACE EXPLORATION LOGS

From the

Additional Phase II Environmental Investigation/Corrective Action Plan Report

July 2000

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Project 180-182 Exchange
Client C/O Rochester
Elevation _____ Start 3-22 Completed 3-22 Driller Adrian Stevens
Water Level - During Drilling _____ Inspector _____
Water Level - At Completion _____
Seasonal and climatic changes may alter observed water levels.

Sample				
	Rec.	No	Depth	
				asphalt pieces Brown Sandy loam [FILL]
5		1		
		2		
10			9'	Same as previous w/more Brick Slight petro odor
		3	13.5'	Light grey Silty Sand (moist) Petro odor
15		4		Same as previous (moist to wet)
				Refusal @ 13.5'

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Test Boring No. GP-102
Page 1 of 1

Project 180-182 Exchange
Client c/o Rochester
Elevation _____ Start 3-22 Completed 3-22 Driller Mascor
Water Level - During Drilling _____ Inspector Gerasch
Water Level - At Completion _____
Seasonal and climatic changes may alter observed water levels.

Sample Rec.	Sample No	Depth	
	1	5	asphalt pieces, Brown Sandy loam, Coal and Brick Pieces [FILL]
	2	10	same as previous
	3	10'	Lt. Grey Silty Sand (moist) Petro odor
	4	15	-- Same as previous. Refusal @ 14'

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Test Boring No. GP-103

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Project 100-182 Exchange

Client c/o Rochester

Elevation _____ Start 3-22 Completed 3-22 Driller Mason

Water Level - During Drilling _____ Inspector Gerardi

Water Level - At Completion _____

Seasonal and climatic changes may alter observed water levels.

	Sample			
	Rec.	No	Depth	
		1		asphalt pieces, Brown Sandy loam, Coal and Brick pieces [FILL]
5				7.5 Same as Previous
		2		Light grey silty Sand (moist)
10				12' Same as Previous
		3		Refusal @ 12'
15				

Test Boring No. GP104

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Project 180-182 Exchange

Client C/O Rochester

Elevation _____ Start 3-22 Completed 3-22 Driller Marcon

Water Level - During Drilling _____ Inspector Gelardi

Water Level - At Completion _____

Seasonal and climatic changes may alter observed water levels.

Sample Rec.	Sample No	Depth	
		0	asphalt pieces, Brown Sandy loam, coal and brick pieces [FILL]
	1	5	Same as previous
		7.5	
	2	10	Lt. Grey Silty Sand (moist) petroleum odor
	3	13.5'	Same as previous (moist to wet)
		15	Refusal @ 13.5'

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Test Boring No. GP-105
Page 1 of 1

Project 180-182 Exchange
Client C/O Rochester
Elevation _____ Start 3-22 Completed 3-22 Driller Marcon
Water Level - During Drilling _____ Inspector _____
Water Level - At Completion _____
Seasonal and climatic changes may alter observed water levels.

Sample Rec.	Sample No	Sample Depth	
	1		asphalt Pieces, Brown Sandy loam, coal, wood and Brick Pieces [FILL]
		4'	
			Lt-grey Silty Sand (Moist) No odor
	2		
			Same as Previous (Moist to wet)
	3		
		13.5'	Same as Previous
	4		Refusal @ 13.5'

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Test Boring No. GP106
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Project 160-182 Exchange
Client C/O Rochester
Elevation _____ Start 3-22 Completed 3-22 Driller Mayer
Water Level - During Drilling _____ Inspector Gerardi
Water Level - At Completion _____
Seasonal and climatic changes may alter observed water levels.

Sample Rec.	Sample No	Depth	
	1	5	asphalt Pieces, Brown Sandy loam, Coal, ash, Brick Pieces [FILL]
	2	8'	Same as previous
		10	Lt. Grey silty Sand (moist)
	3	13'	Same as previous
		15	Refusal @ 13'

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Test Boring No. GP-107

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Project 180-182 Exchange

Client C/O Rochester

Elevation _____ Start 3-22 Completed 3-22 Driller Mayer

Water Level - During Drilling _____ Inspector Gerardi

Water Level - At Completion _____

Seasonal and climatic changes may alter observed water levels.

Sample				
	Rec.	No	Depth	
		1		asphalt pieces, Brown sandy loam, Brick pieces wood and ash [FILL]
5				7.5' Same as previous
		2		Lt. Grey Silty Sand (moist) Petro odor
10				
		3		13.5' Same as previous Strong Petro odor
15				Refusal @ 13.5'

Test Boring No. GP-108

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Project 190-192 Exchange

Client C/O Rochester

Elevation _____ Start 3-22 Completed 3-22 Driller Mancer

Water Level - During Drilling _____ Inspector Gerard

Water Level - At Completion _____

Seasonal and climatic changes may alter observed water levels.

Sample				
	Rec.	No	Depth	
				Brown Sandy loam, Brick Pieces, Coal and ash [FILL]
5		1		Same as Previous
		2	8'	Lt. Grey Silty Sand (Moist)
10				
		3	13.5'	Same as Previous (Petro odor)
15				Refusal @ 13.5'

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Test Boring No. GP-109

Page 1 of 1

Project 180-182 Exchange

Client c/o Rochester

Elevation _____ Start 3-22 Completed 3-22 Driller Mayer

Water Level - During Drilling _____ Inspector Gerardi

Water Level - At Completion _____

Seasonal and climatic changes may alter observed water levels.

Sample				
	Rec.	No	Depth	
		1		Brown Sandy loam, Brick piece and ash [FILL]
5				same as previous w/more Brick (moist)
		2		9' Same as Previous
10				Lt. Grey Silty Sand (moist)
		3	12'	
				Refusal @ 12'
15				

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Test Boring No. GP110

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Project 180-182 Exchange

Client C/O Rochester

Elevation _____ Start 3-22 Completed 3-22 Driller Marcor

Water Level - During Drilling _____ Inspector Gerardi

Water Level - At Completion _____

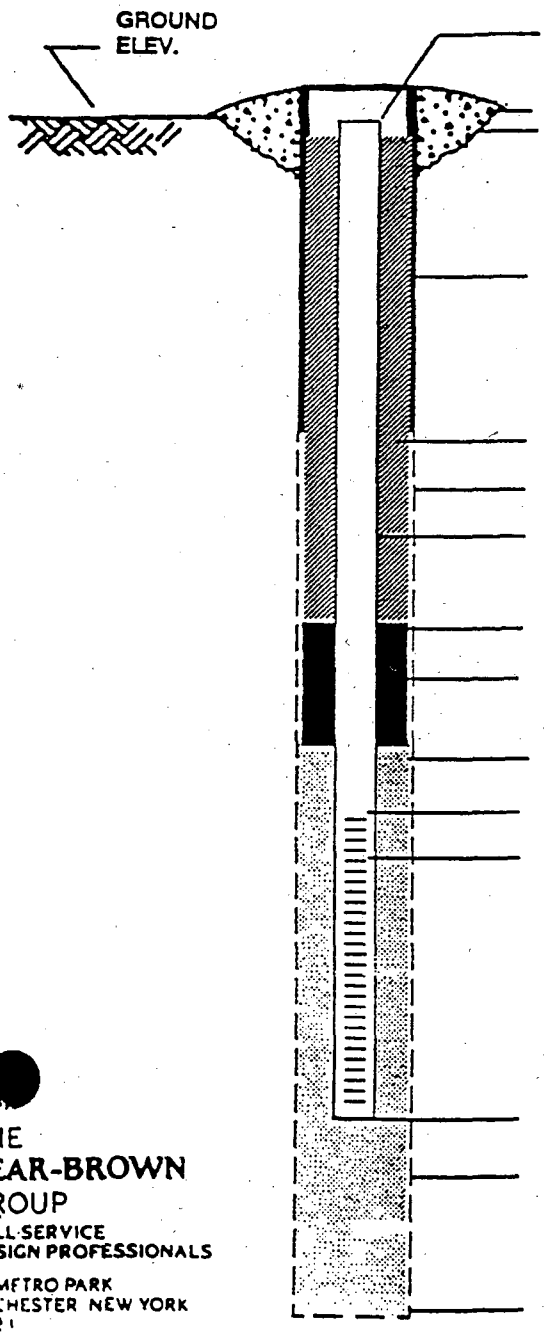
Seasonal and climatic changes may alter observed water levels.

Sample Rec.	Sample No	Depth	
	1	0	Brown Sandy loam w/Brick Pieces, Coal and ash [FILL]
		5	Same as Previous
	2	8'	
		10	Lt. Grey Silty Sand (moist) Petro odor
	3	12'	
			Refusal @ 12'
		15	

MONITORING WELL COMPLETION RECORD

Well Number: MW-1
Project: 180-182 Exchange
Project Number: 15155.07
Driller: Nature's Way

Drilling Method:
Geologist: Gerardi
Installation Date(s): 3-29-00



Elevation/Top of Riser Pipe:
Type of Surface Seal: Concrete
I.D. of Surface Casing: Steel Manhole
Type of Surface Casing: flush mount
Type of Backfill: clean Fill
Borehole Diameter: 8"
I.D. of Riser Pipe: 2"
Type of Riser Pipe: PVC
Depth of Seal: 4.5
Type of Seal: Bentonite
Depth of Sand Pack: 7.5
Depth Top of Screen: 8.5
Type of Screen: PVC
Slot Size x Length:
I.D. of Screen: 10 Slot 10'
Type of Sand Pack:
Depth Bottom of Screen: 16.5
Depth Bottom of Sand Pack:
Depth of Hole: 16.5

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Test Boring No. MW-2
Page 1 of 1

Project 180-182 Exchange Street
Client C/O Rochester
Elevation _____ Start 12:55 Completed 15:20 Driller Nature's Way
Water Level – During Drilling _____ Inspector Gerardi
Water Level – At Completion _____
Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler 0"/6"	6"/12"	12"/18"	18"/24"	Sample N	Rec.	No	Depth	Soil and Rock Information Remarks
		24								asphalt-concrete, Brown Sandy loam [FILL]
			16							
				6						
					8	1	24/6			
		7								
			24							
				50/2						
						2	16			moved 1' South & continue Lt. Brown Sandy loam Some Silt [FILL] (moist)
		7								
			16							
				3						
					9	3	24/10			
		4								
			7							7.5'
				5						Lt. grey silty Sand (moist) Petroodor
					6	4	24/6			
		6								
			6							
				4						
					5	5	24/10			Same as above
		1								
			1							
				1						
					2	6	24/4			Same as above (Strong Petroodor)
		1								
			1							
				1						
					50/3.	7	24/21			13.7 Refusal

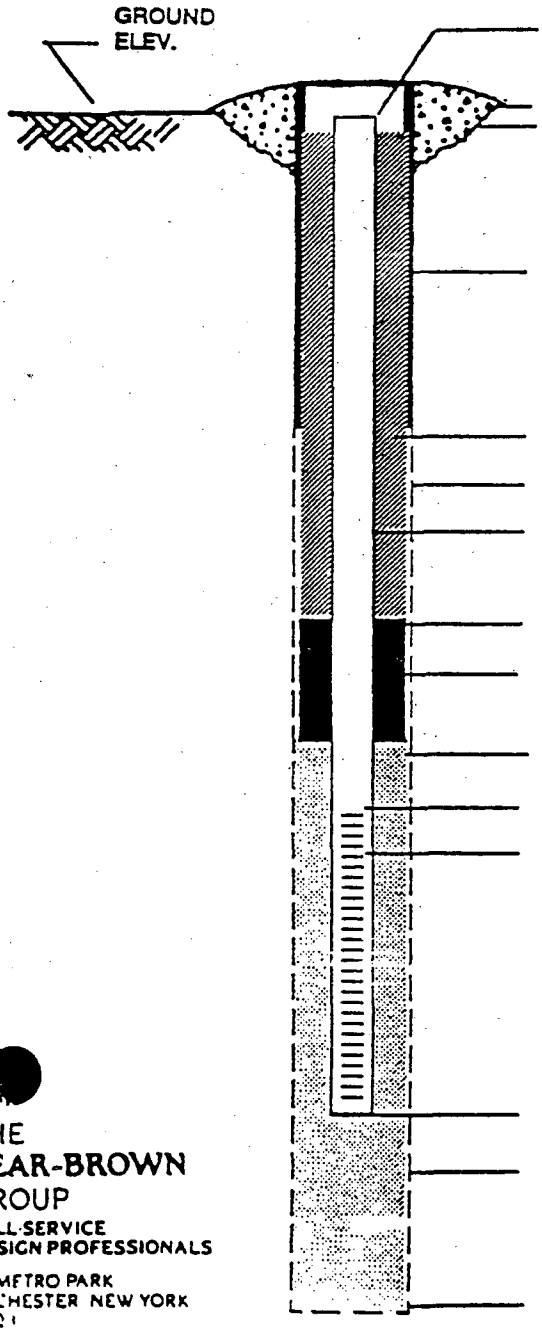
63" Recovery
100% Recovery
95.7% RQD

N=No. of Blows to Drive _____ Spoon _____ with _____ lb. wt. _____ Fa. Blow
C=No. of Blows to Drive _____ Casing _____ with _____ lb. wt. _____ Fa. Blow

MONITORING WELL COMPLETION RECORD

Well Number: MW-2
Project: 182-182 Exchange
Project Number: 15155.07
Driller: Nature's Way

Drilling Method:
Geologist: Gerardi
Installation Date(s): 3-28-00



Elevation/Top of Riser Pipe:

Type of Surface Seal: Concrete

I.D. of Surface Casing: Steel manhole

Type of Surface Casing: flush mount

Type of Backfill: Clean Fill

Borehole Diameter:

I.D. of Riser Pipe:

Type of Riser Pipe:

Depth of Seal: 4.5

Type of Seal: Bentonite

Depth of Sand Pack: 7.5

Depth Top of Screen: 8.5

Type of Screen:

Slot Size x Length: 10 Slot 10'

I.D. of Screen:

Type of Sand Pack:

Depth Bottom of Screen: 18.5

Depth Bottom of Sand Pack:

Depth of Hole: 18.5

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Test Boring No. MW-3

Page 1 of 1

Project 180-182 Exchange

Client C/o Rochester

Elevation _____ Start 8:50 Completed 11:50 Driller Nature's Way

Water Level – During Drilling _____ Inspector Steve J

Water Level – At Completion _____

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler 0"/6"	6"/12"	12"/18"	18"/24"	Sample N	Rec.	No	Depth	Soil and Rock Information Remarks
		10								asphalt pieces, Brown Sandy loam [FILL]
			10							
				13						
					15	1	24/12			
		15								same as above w/ Brick Pieces
			9							
				6						
					8	2	24/12			
		7								same as previous
			4							
				3						
					3	3	24/1			
		6								same as previous more Brown Sandy loam (moist)
			4							
				3						
					2	4	24/6			
		3								
			3							
				4						
					5	5	24/12			10' Lt grey Silty Sand (moist) slight petro odor
		2								
			2							
				1						
					1	6	24/12			
		1								same as above
			2							
				5/5						13.4 Refusal
						7	15/3			
										65" Recovery
										100% Recovery
										75.3% RQD

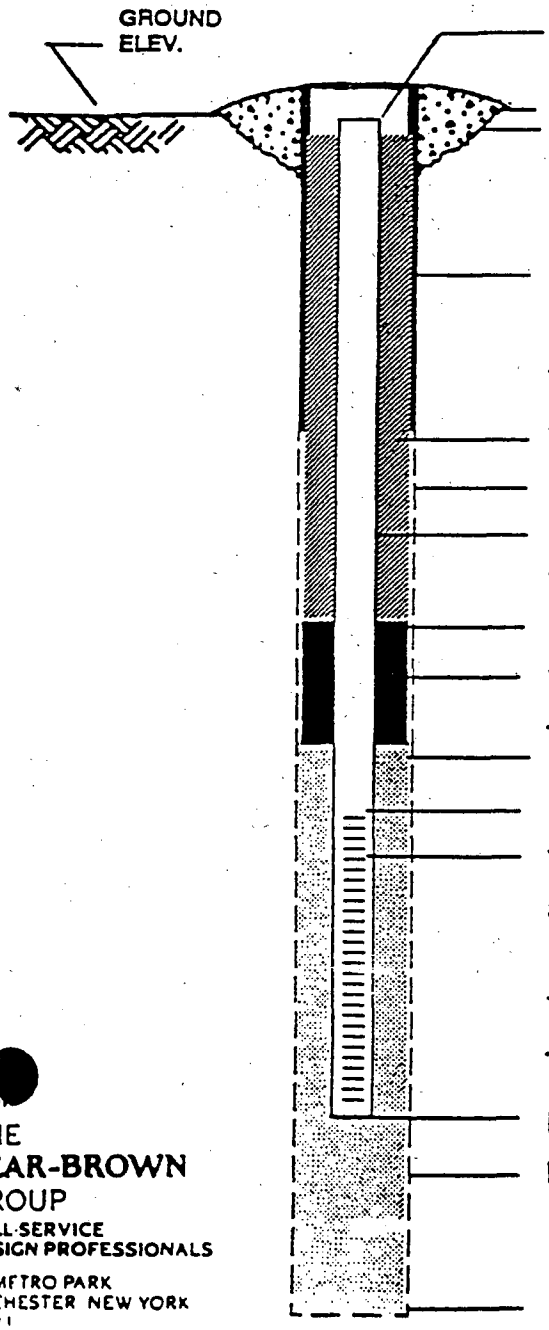
N=No. of Blows to Drive _____ Spoon _____ with _____ lb. wt. _____ Fa. Blow

C=No. of Blows to Drive _____ Casing _____ with _____ lb. wt. _____ Fa. Blow

MONITORING WELL COMPLETION RECORD

Well Number: MW-3
Project: 180-182 Exchange St.
Project Number: 15155.07
Driller: Nature's Way

Drilling Method:
Geologist: Gerardi
Installation Date(s): 3-28-00



Elevation/Top of Riser Pipe:

Type of Surface Seal: Concrete

I.D. of Surface Casing: Steel manhole

Type of Surface Casing: flush mount

Type of Backfill: Clean Fill

Borehole Diameter:

I.D. of Riser Pipe:

Type of Riser Pipe:

Depth of Seal: 4.5

Type of Seal: Bentonite

Depth of Sand Pack: 7.5

Depth Top of Screen: 4.5

Type of Screen:

Slot Size x Length:

I.D. of Screen: 10 slot 10'

Type of Sand Pack:

Depth Bottom of Screen: 18.5

Depth Bottom of Sand Pack:

Depth of Hole: 18.5

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Test Boring No. MW-4
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Project 180-182 Exchange
Client c/o Rochester
Elevation _____ Start 11:30 Completed 14:40 Driller Natures Way
Water Level – During Drilling _____ Inspector Gerardi
Water Level – At Completion _____
Seasonal and climatic changes may alter observed water levels.

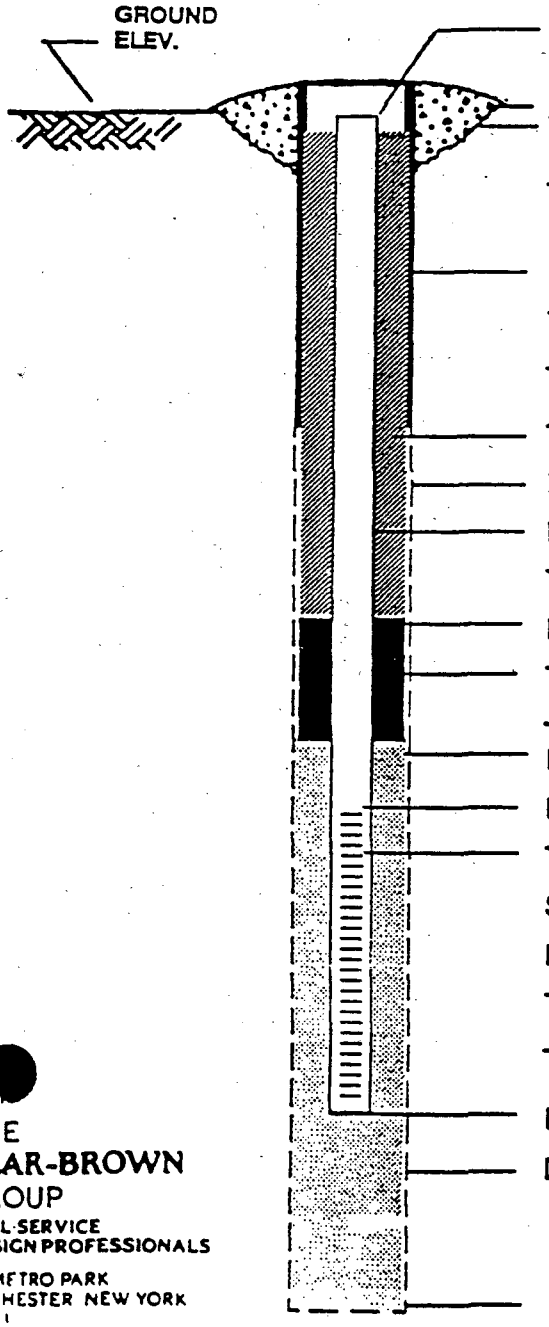
0	C	Blows on Sampler 0"/6"	6"/12"	12"/18"	18"/24"	Sample N	Rec.	No	Depth	Soil and Rock Information Remarks
		5								
			11	9						Blacktop, Brick fragments, Coal Pieces, ash, Brown Sandy loam [Fill]
					7	1	24/6			
		8								
			13							
				9						
					11	2	24/10			Same as previous More ash
		14								
			11							
				5						
					4	3	24/6			Same as previous except More Brown Sandy loam (Moist) [FILL]
		6								
			7							
				3						
					3	4	24/8			
		11								
			4							
				4						
					4	5	24/14			9.5' Lt grey Silty Sand (Moist)
		6								
			2							
				2						Same as previous
					3	6	24/14			
		2								
			1							
				50/3			14/6			13.2 Refusal
						7				
										63" Recovery
						E				100% Recovery
										74.6% RQD
						9				

N=No. of Blows to Drive _____ Spoon _____ with _____ lb. wt. _____ Ea. Blow
C=No. of Blows to Drive _____ Casing _____ with _____ lb. wt. _____ Ea. Blow

MONITORING WELL COMPLETION RECORD

Well Number: MW-4
Project: 180-182 Exchange
Project Number: 15155.01
Driller: Nature's Way

Drilling Method:
Geologist: Gerardy
Installation Date(s): 3-29-90



Elevation/Top of Riser Pipe:
Type of Surface Seal: Concrete
I.D. of Surface Casing: steel manhole 24" diameter
Type of Surface Casing:
Flush Mount
Type of Backfill: Clean Fill
Borehole Diameter:
I.D. of Riser Pipe:
Type of Riser Pipe:
Depth of Seal:
Type of Seal: Bentonite
Depth of Sand Pack: 6.5
Depth Top of Screen: 7.5
Type of Screen:
Slot Size x Length: 10 slot 10'
I.D. of Screen:
Type of Sand Pack:
Depth Bottom of Screen: 17.5
Depth Bottom of Sand Pack:
Depth of Hole: 17.5

THE SEAR-BROWN GROUP
FULL-SERVICE DESIGN PROFESSIONALS
85 METRO PARK
ROCHESTER NEW YORK 14623
716-475-1440
FAX: 716-272-1814

THE
SEAR-BROWN
OUP

Project: Exchange Street
Project No.: 15155.07
Date: May 19, 2000

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No:	A	Inspected By:	Dave Gnage	Weather/Temp:	Rain/≠40°
Location/Station:		N:	E:	Elev.:	
Equipment Used:	JD 410D	Contractor:	Bedrock	Operator:	R. Aponte
Start Time:	13:30	Stop Time:	16:30	Agency Rep:	

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
60 Fill % ____ MSW %
40 C&D% ____ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	MAX	SUST	BKGD	NOTES/SAMPLES
0 - 2"	Asphalt		0.3	0.3	
2" - 1.5'	Brown sand, some silt and gravel				
1.5 - 2.0'	Black sand and gravel				
@ 2.0'	Wood and 6" X 3' long iron pieces				
2.0 - 2.5'	Yellow/brown clay/silt, some sand				
2.5 - 3.5'	Black gravel, some sand, shale pieces, cobble, brick				
3.5 - 4.5'	Pink/gray ash, brick				
4.5'	End of Hole				

THE
SEAR-BROWN
OUP

Project: Exchange Street
Project No.: 15155.07
Date: May 19, 2000

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No:	A1	Inspected By:	Dave Gnage	Weather/Temp:	Rain/±40°
Location/Station:		N:	E:	Elev.:	
Equipment Used:	JD 410D	Contractor:	Bedrock	Operator:	R. Aponte
Start Time:	13:30	Stop Time:	16:30	Agency Rep:	

Comments:

☐ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☐ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
80 Fill % _____ MSW %
20 C&D% _____ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	MAX	SUST	BKGD	NOTES/SAMPLES
0 - 3"	Asphalt		0.4	0.3	
3" - 6'	Brown sand, some silt and gravel				
@ 6'	Concrete pad				Pad 11' x 6' x 6' minimum
					No spouts or fill ports visible

THE
EAR-BROWN
OUP

Project: Exchange Street
Project No.: 15155.07
Date: May 19, 2000

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No:	B	Inspected By:	Dave Gnage	Weather/Temp:	40° Overcast
Location/Station:		N:	E:	Elev.:	
Equipment Used:	JD 410D	Contractor:	Bedrock	Operator:	R. Aponte
Start Time:	10:20	Stop Time:	11:55	Agency Rep:	

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

40 Fill % _____ MSW %
60 C&D% _____ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	MAX	SUST	BKGD	NOTES/SAMPLES
0 - 4"	Asphalt		0.3	0.3	
4" - 5"	Red/brown silty sand, trace gravel				
5" - 1'	Red/black gravel, pieces of slag				
1' - 7'	Grey, sand, some silt, some gravel, brick, concrete and rubble			@ 5'	2' long x 2" iron pipe; oxidation on some of the rocks
@ 7'	1' long x 1 ½ " dia. iron pipe				
7'	End of Hole			-	6" piece of slag in pile

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GROUP

Project: Exchange Street
Project No.: 15155.07
Date: May 19, 2000

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No:	C	Inspected By:	Dave Gnage	Weather/Temp:	45°
Location/Station:		N:	E:	Elev.:	
Equipment Used:	JD 410D	Contractor:	Bedrock	Operator:	R. Aponte
Start Time:	06:66	Stop Time:	07:50	Agency Rep:	N/A

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

40 Fill % _____ MSW %
60 C&D% _____ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	MAX	SUST	BKGD	NOTES/SAMPLES
4"	Asphalt	0.4	0.4	0.5	
4" - 2.0'	Brown sand and gravel, trace silt, brick and concrete				Fill
2.0' - 6.0'	Light brown sand and gravel with brick and concrete				Fill
@ 5'	Wire observed and clay/terra-catta pipe				
6.0'	End of Hole				slag observed in pile, no staining, no odors, observed one piece of rebar in concrete

THE
EAR-BROWN
ROUP

Project: Exchange Street
Project No.: 15155.07
Date: May 19, 2000

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No:	D	Inspected By:	Dave Gnage	Weather/Temp:	Rain, 40°
Location/Station:		N:	E:	Elev.:	
Equipment Used:	JD 410D	Contractor:	Bedrock	Operator:	R. Aponte
Start Time:	07:55	Stop Time:	08:50	Agency Rep:	N/A

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

100% Fill _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	MAX	SUST	BKGD	NOTES/SAMPLES
4"	Asphalt		0.4	0.4	
4" - 1.0'	Crusher run gravel				
1.0' - 8.0'	Light brown/red sand, some silt, little to trace gravel				Seeps at base of crusher
8.0'	End of Hole				All "clean" fill observed in test pit

THE
EAR-BROWN
ROUP

Project: Exchange Street
Project No.: 15155.07
Date: May 19, 2000

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No:	E	Inspected By:	Dave Gnage	Weather/Temp:	Rain, 40°
Location/Station:		N:	E:	Elev.:	
Equipment Used:	JD 410D	Contractor:	Bedrock	Operator:	R. Aponte
Start Time:	08:55	Stop Time:	10:15	Agency Rep:	N/A

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

50% Fill _____ MSW %
50% C&D% _____ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	MAX	SUST	BKGD	NOTES/SAMPLES
0.4"	Asphalt	0.3		0.3	
4" - 10"	Crusher run				Fill
10" - 3'	Light brown sand, some silt, little to trace gravel				Fill
3' - 3.4"	Red/brown sand and gravel, possible slag				Only on east wall
3' - 8'	Gray silt, some sand, trace gravel, damp				Some concrete and brick, large slabs of concrete
8'	End of Hole				no odors, possible staining on east wall, dry

THE
EAR-BROWN
ROUP

Project: Exchange Street
Project No.: 15155.07
Date: May 19, 2000

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No:	F	Inspected By:	Dave Gnage	Weather/Temp:	Rain, 40°
Location/Station:		N:	E:	Elev.:	
Equipment Used:	JD 410D	Contractor:	Bedrock	Operator:	R. Aponte
Start Time:	12:20	Stop Time:		Agency Rep:	N/A

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

70% Fill ___ MSW %
30% C&D% ___ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	MAX	SUST	BKGD	NOTES/SAMPLES
0 - 4"	Asphalt		0.3	0.3	
4" - 8"	Brown sand, some silt, little gravel				
8" - 1.0'	Concrete pad				Moved 4' south, hit pad again, moved west
1.0' - 2.0'	Gray sand, some silt, yellow/black staining, pieces of wood				
@ 2.0'	Metal (Fe^{+3}) bands approximately 3" wide, running North-easterly only				Numerous iron bands, appear to be old railing
2.0' - 3.0'	Black sand and gravel, trace silt				
3.0' - 6.0'	Brown sand, some silt, little gravel, cobbles, brick, iron pieces				
6.0'	End of Hole				

SUBSURFACE EXPLORATION LOGS

From the

Subsurface Remediation Report

April 2001

SEAR·BROWN

Soil Boring Log

Test Boring No.: MW-5

Page 1 of 1

Project: Exchange St.
Project #: 1515507
Location: Rochester, NY
Client: City of Rochester

Drilling Contractor: Nothnagle
Driller: Stephen Loranty
Elevation: NA
Weather: Sunny, clear and breezy, mid 70s

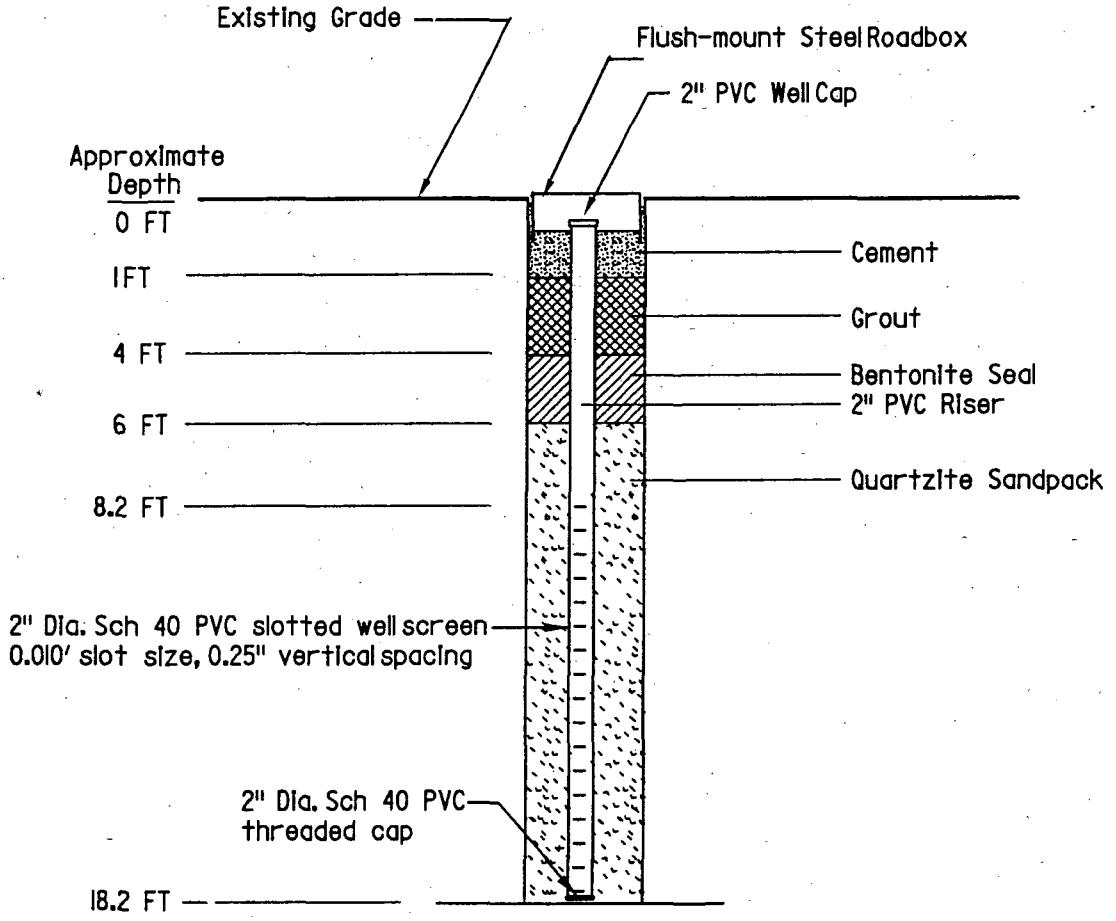
Start Date: 9-18-00
Completion Date: 9-18-00
Drilling Method: 4.25 H.S.A.
Supervisor: A. Krause

		Blows on Sampler				SAMPLE				Soil and Rock Information
0	C	0-6"	6-12"	12-18"	18-24"	PID Peak (ppm)	PID Sust. (ppm)	Rec. (inches)	Depth (feet)	Remarks
		14				5.2	0.6	10	0-2	Dry, FILL - black and brown, GRAVEL, little COBBLES
			16							
				19						
					15					
		11						NR	2-4	No Recovery - Brick in shoe
			6							
				8						
					5					
		3				0	0	8	4-6	Dry, brown, fine SAND, some black fine SAND and fine GRAVEL
			2							
				1						
					5					
		3				7.1	6.4	5	6-8	Dry, FILL - brown and black, fine SAND, some fine GRAVEL, little medium GRAVEL
			6							
				7						
					5					
		3				80.3	5.2	8	8-10	Moist, gray and black, fine SAND, trace CLAY *Faint petro odor*
			2							
				2						
10					3					
		1				118	22.6	15	10-12	Moist, gray, SILT and CLAY, some fine SAND *Faint petro odor*
			1							
				1						
					1					
		1				319	11.7	12	12-14	Wet, brown and gray, fine SAND and SILT, little CLAY
			1							
				1						
					100/4"					
										Rock interface at 13'10". Cored to 18'2".

C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

Monitoring Well Installation
180-182 Exchange Street
Sear-Brown
15155.07

MW-5



Note: Drawing Not To Scale

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SEAR·BROWN

Soil Boring Log

Test Boring No.: MW-6
Page 1 of 1

Project: Exchange St.
Project #: 1515507
Location: Rochester, NY
Client: City of Rochester

Drilling Contractor: Nothnagle
Driller: Stephen Loranty
Elevation: NA
Weather: Sunny, clear and breezy, upper 80s

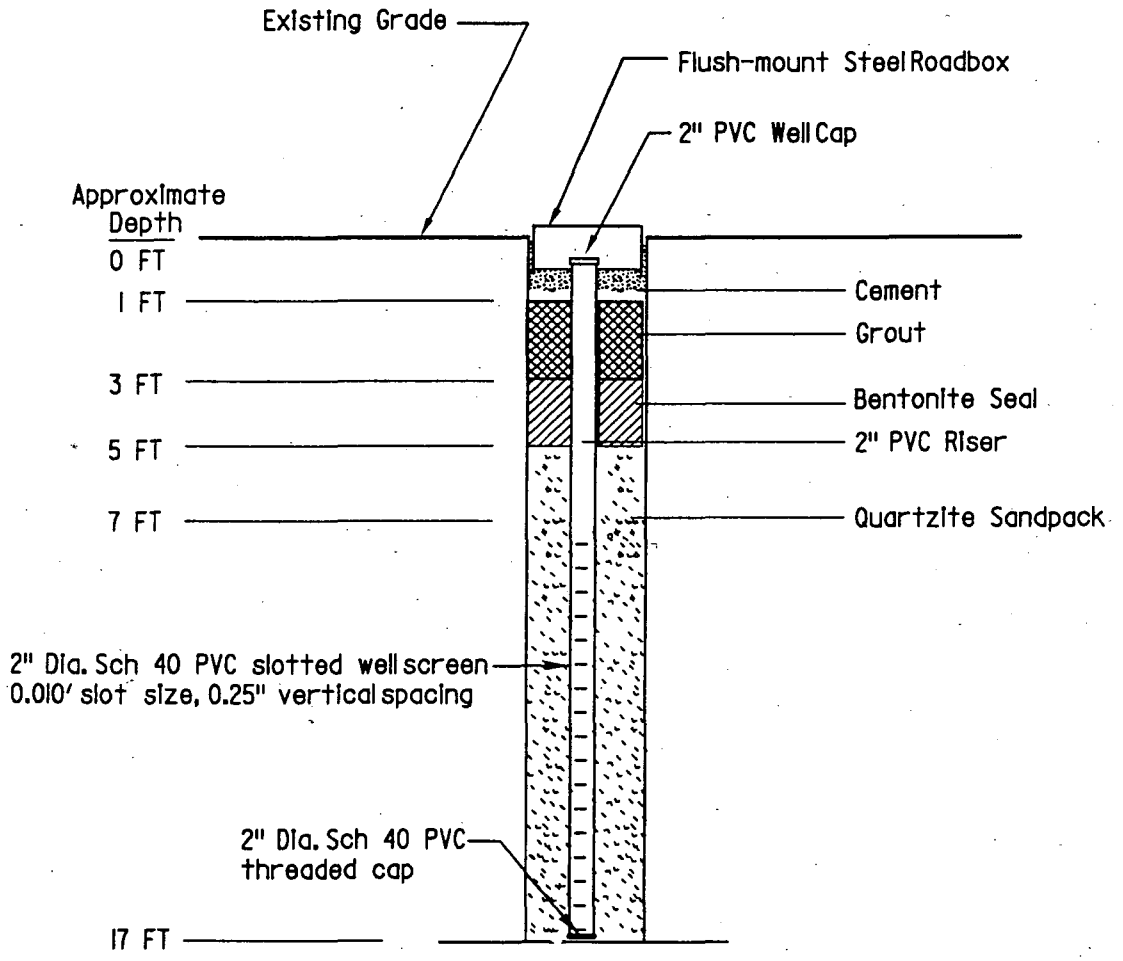
Start Date: 9-19-00
Completion Date: 9-19-00
Drilling Method: 4.25 H.S.A.
Supervisor: A. Krause

		Blows on Sampler				SAMPLE				Soil and Rock Information
0	C	0-6"	6-12"	12-18"	18-24"	PID Peak (ppm)	PID Sust. (ppm)	Rec. (inches)	Depth (feet)	Remarks
		7				12.4	0.5	12	0-2	0 - 2.5" Dry, TOPSOIL 2.5" - 12" Dry, gray, GRAVELS
			20							
				13						
					13					
		8				0	0	10	2-4	Dry, brown, medium SAND, some fine and medium GRAVEL, little coarse GRAVEL
			11							
				12						
					16					
		8				0	0	8	4-6	Dry, brown, medium SAND, some coarse GRAVEL, little medium GRAVEL
			11							
				10						
					9					
		5				0	0	8	6-8	Moist, brown, medium SAND, some fine and medium GRAVEL, little coarse GRAVEL
			8							
				13						
					11					
		6				1.6	0.4	6	8-10	Wet, brown, medium SAND, some fine and medium GRAVEL, little coarse GRAVEL
			13							
				5						
10					6					
		4				0	0	6	10-12	Wet, brown, medium SAND, some fine and medium GRAVEL, little coarse GRAVEL
			6							
				4						
					4					
		100/4"						1	12-14	Wet, brown, medium SAND, some fine and medium GRAVEL, little coarse GRAVEL
										Cored from 12'4" to 17'.

C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

Monitoring Well Installation
180-182 Exchange Street
Sear-Brown
15155.07

MW-6



Note: Drawing Not To Scale

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SEAR·BROWN

Soil Boring Log

Test Boring No.: MW-7
Page 1 of 1

Project: Exchange St.
Project #: 1515507
Location: Rochester, NY
Client: City of Rochester

Drilling Contractor: Nothnagle
Driller: Stephen Loranty
Elevation: NA
Weather: Sunny, clear and breezy, upper 70s/80s

Start Date: 9-18-00
Completion Date: 9-19-00
Drilling Method: 4.25 H.S.A.
Supervisor: A. Krause

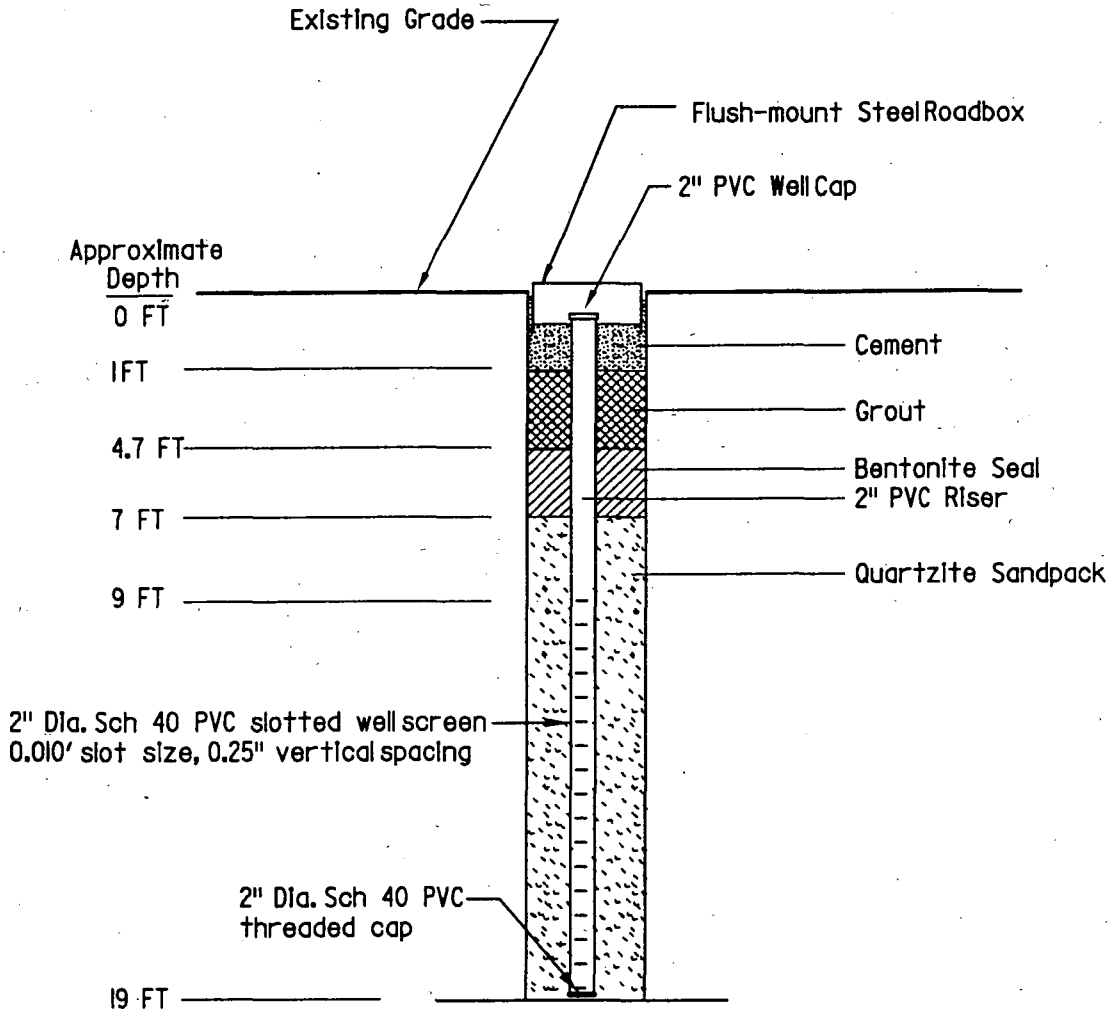
		Blows on Sampler				SAMPLE				Soil and Rock Information
0	C	0-6"	6-12"	12-18"	18-24"	PID Peak (ppm)	PID Sust. (ppm)	Rec. (inches)	Depth (feet)	Remarks
		13				15.2	10.1	12	0-2	Dry, FILL - concrete and brick COBBLES
			22							
				22						
					21					
		2				11.6	8.6	6	2-4	Dry, brown and black, fine and medium SAND, some fine GRAVEL, little coarse GRAVEL, trace COBBLES
			3							
				3						
					5					
		4				33.3	18.9	4	4-6	Dry, brown and black, fine SAND, some fine GRAVEL, little medium GRAVEL and COBBLES
			5							
				5						
					5					
		4				13.7	13.5	3	6-8	Dry, gray and black, fine and medium SAND, little fine GRAVEL
			3							
				2						
					2					
		4				0	0	6	8-10	Moist, brown, fine SAND and SILT, little fine GRAVEL
			4							
				7						
10					4					
		2				3340	730	10	10-12	0 - 6" Moist to wet, brown, fine SAND, little fine GRAVEL
			3							
				3						6" - 10" Wet, gray, fine SAND and SILT *Petro Odor*
					4					
		1				270	34.1	18	12-14	Wet, gray, fine SAND, some SILT, little CLAY
			1							
				1						
					1					
										Rock interface at 14'. Cored to 19'.

Note: MW-7 originally located 16' south of present location; Relocated due to fill and shot rock present throughout boring to a depth of 13' below grade, at which the boring was terminated and moved to present location.

C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

Monitoring Well Installation
180-182 Exchange Street
Sear-Brown
15155.07

MW-7



Note: Drawing Not To Scale

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SEAR·BROWN

ARCHITECTURE
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CONSTRUCTION

Project: 180-182 Exchange Street
Project No.: 1515507
Date: 07/19/00 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: Test Pit 1 Inspected By: A. S. K. Weather/Temp: _____

Location/Station: _____ N: _____ E: _____ Elev.: _____

Equipment Used: PC200LC Contractor: MARCOR Operator: Peter Spagnola

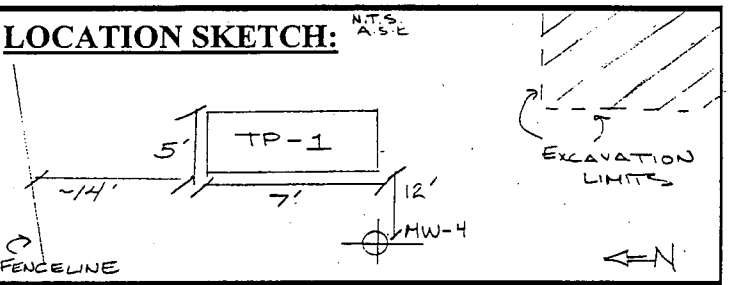
Start Time: 3:20 PM Stop Time: 3:40 PM Agency Rep: _____

Comments: Located E of MW-4 & N of 18-inch discharge pipe to determine presence/ relative extent of petro contamination N of pipe

☑ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☑ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

_____ Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH: N.T.S. A.S.L.



DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max (ppm)	Sust (ppm)	Bkgd (ppm)	NOTES/SAMPLES
0-4'	Asphalt; Fill materials, incl. bricks	ND	ND	ND	
4'-7'	Dry, brown, fine and medium SAND and GRAVEL	4.0	3.0	ND	
7'-8'	Dry, gray, fine SAND, some SILT and coarse GRAVEL	107	50	ND	Petro Odor
	End of TP @ 8'				
	ND = NOT DETECTED				

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CONSTRUCTION

Project: 180-182 Exchange Street
Project No.: 1515507
Date: 07/21/00 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: Test Pit 2 Inspected By: A. S. K. Weather/Temp: _____

Location/Station: _____ N: _____ E: _____ Elev.: _____

Equipment Used: PC200LC Contractor: MARCOR Operator: Peter Spagnola

Start Time: 2:00 PM Stop Time: 2:25 PM Agency Rep: _____

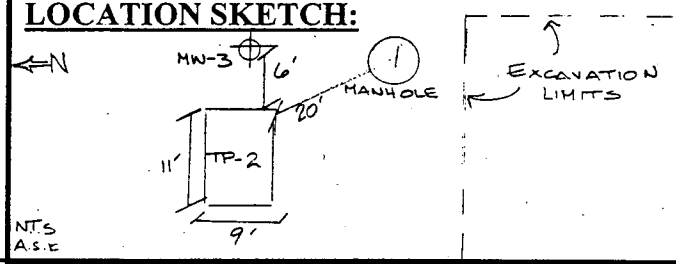
Comments: Located W of MW-3 & N of 18-inch discharge pipe to determine presence/ relative extent of petro contamination N of pipe and presence/absence of suspect UST

- [x] No Rock Encountered.
- [ ] Rock Encountered At ___ Ft.
- [x] No Ground Water Encountered.
- [ ] Ground Water Encountered At ___ Ft.

_____ Fill % _____ MSW %

_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:



DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max (ppm)	Sust (ppm)	Bkgd (ppm)	NOTES/SAMPLES
0-4'	Asphalt; Fill materials, incl. bricks	ND	ND	ND	
4'-6.5'	Dry, brown, fine and medium SAND and GRAVEL	ND	ND	ND	
6.5'-9.5'	Dry, gray, fine SAND, some SILT and coarse GRAVEL	7.0	5.0	ND	Sidewall sample (NTESTPIT-SW) taken and submitted for STARS 8021 analysis
9.5'-11'	Dry to moist, gray, SILT and CLAY, little fine SAND	10.0	4.5	ND	Bottom sample (NTESTPIT-BOTT) taken and submitted for STARS 8021 analysis
	End of TP @ 11'				
	ND = Not Detected				

SUBSURFACE EXPLORATION LOGS

From

Progress Report #2

July 2002

SEAR·BROWN

ARCHITECTURE
ENGINEERING
PLANNING
CONSTRUCTION

Project: 180-182 Exchange Blvd
Project No.: 15155.07
Date: 11/17/01 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP-G Inspected By: B. Gerardi Weather/Temp: Sunny 40 °F

Location/Station: See Attached Map Elev.:

Equipment Used: Backhoe Contractor: SLC Operator: S. Stockmaster

Start Time: 8:00 Stop Time: 8:35 Agency Rep: None

Comments: Evaluation of Anomaly #1

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
100% Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:

See Figure 1

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-4"	Top Soil				
4"-1'	Brown, bank run gravel				3 wire conduits encountered
1'-2'	Brown, gravel with pieces of brick	0.0	0.0	0.0	
2'-6'	Brown, medium to coarse sand and gravel	0.0	0.0	0.0	No odor
	Test Pit Terminated @ 6'				
					No caving of Test Pit

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CONSTRUCTION

Project: 180-182 Exchange Blvd
Project No.: 15155.07
Date: 11/17/01 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP-H Inspected By: B. Gerardi Weather/Temp: Sunny 40 °F

Location/Station: See Attached Map Elev.:

Equipment Used: Backhoe Contractor: SLC Operator: S. Stockmaster

Start Time: 9:20 Stop Time: 10:00 Agency Rep: None

Comments: Evaluation of Anomaly #3

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
100% Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:

See Figure 1

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-2'	Brown, medium to coarse gravel, some sand and brick with metal pieces				
2'-4'	Ash cinders with brick pieces	0.0	0.0	0.0	Concrete footer encountered
4'-6'	Brown, coarse gravel with coarse to medium brown sand	0.0	0.0	0.0	No odor
	Test Pit Terminated @ 6'				
					No caving of Test Pit

SEAR·BROWN

ARCHITECTURE
ENGINEERING
PLANNING
CONSTRUCTION

Project: 180-182 Exchange Blvd
Project No.: 15155.07
Date: 11/17/01 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP-I Inspected By: B. Gerardi Weather/Temp: Sunny 40 °F

Location/Station: See Attached Map Elev.:

Equipment Used: Backhoe Contractor: SLC Operator: S. Stockmaster

Start Time: 10:05 Stop Time: 10:20 Agency Rep: None

Comments: Evaluation of Anomaly #2

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

100% Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:

See Figure 1

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-5'	Brown, medium to coarse gravel, some sand and brick with metal pieces	0.0	0.0	0.0	Wire conduit encountered No odor
	Test Pit Terminated @ 5'				
					No caving of Test Pit

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Project: 180-182 Exchange Blvd
Project No.: 15155.07
Date: 11/17/01 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP-J Inspected By: B. Gerardi Weather/Temp: Sunny 40 °F

Location/Station: See Attached Map Elev.:

Equipment Used: Backhoe Contractor: SLC Operator: S. Stockmaster

Start Time: 10:30 Stop Time: 10:45 Agency Rep: None

Comments: Evaluation of Anomaly West of MW-7

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
100% Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:

See Figure 1

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-4'	Brown, medium to coarse gravel, some sand and brick with metal pieces	0.0	0.0	0.0	Wire and metal pieces encountered No odor
	Test Pit Terminated @ 4'				
					No caving of Test Pit

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Project: 180-182 Exchange Blvd
Project No.: 15155.07
Date: 11/17/01 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP-K Inspected By: B. Gerardi Weather/Temp: Sunny 40 °F

Location/Station: See Attached Map Elev.:

Equipment Used: Backhoe Contractor: SLC Operator: S. Stockmaster

Start Time: 10:45 Stop Time: 11:00 Agency Rep: None

Comments: Evaluation of Anomaly West of MW-7

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
100% Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:

See Figure 1

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-2'	Brown, medium to coarse gravel, some sand and brick with metal pieces	0.0	0.0	0.0	Concrete with rebar encountered No odor
	Test Pit Terminated @ 2'				
					No caving of Test Pit

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Project: 180-182 Exchange Blvd
Project No.: 15155.07
Date: 11/17/01 Page 1 of 1

TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP-L Inspected By: B. Gerardi Weather/Temp: Sunny 40 °F

Location/Station: See Attached Map Elev.:

Equipment Used: Backhoe Contractor: SLC Operator: S. Stockmaster

Start Time: 11:05 Stop Time: 12:30 Agency Rep: None

Comments: Evaluation of Anomaly #6

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
100% Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:

See Figure 1

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-4"	Top Soil				
4"-1'	Brown, bank run gravel				
1'-2'	Brown, gravel with pieces of brick	0.0	0.0	0.0	4" CI pipe encountered @18" No odor
	Test Pit Terminated @ 2'				
					No caving of Test Pit

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Test Boring No. GP-201

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 10' South of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.3	3.5	1	0-4	Brown f-m SAND, some c. Gravel, little to some Silt, moist
										@1.7' brick w/some asphalt pieces
										4.0
5						0.8	2.8	2	4-8	s.a.a. increased Gravel, wet 5.0
										Lt. Brown/Gray f. SAND, some c. Gravel, dry 6.0
										Brown, f-c SAND, some Silt, little to some c. Gravel, moist to wet 8.0
						0.3	2.5	3	8-12	s.a.a. wet
10										10.3
										rock 10.5
										Brown, f-c SAND, some Silt, little to some c. Gravel, moist to wet 12.0
						1.4	1.0	4	12-14	Brown, f-c GRAVEL, some Silt, wet, black staining
										v.s. odor @ tip 14.0
15										14' E.O.B.

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-202

Page 1 of 1

Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 10' west of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.2	3.4	1	0-4	Brown, f-c SAND, some c. Gravel dry; pieces of wood & coal @ 2.0' & 2.9'
										4.0
5						0.1	2.5	2	4-8	s. a. a. some Silt, moist; pieces of brick
						0.4	0.3	3	8-12	
10										
										12.0
						1.2	0.9	4	12-14.3	s. a. a. wet black/gray, v.s. odor @ tip
										14.3
15										14.3' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-203

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 10'N of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						31.1	2.3'	1	0-4	Brown, f-c SAND, some f-c Gravel, Little Silt, dry to moist 1.4
										brick 1.7
										Dk. Brown to Black, f. SAND, some Silt, little f. Gravel, moist 4.0
5						0.2	2.8	2	4-8	Lt. Brown to Green, f. SAND, little Silt, trace f. Gravel, moist 5.3
										s.a.a. w/ brick & wood pieces 6.0
										Brown, f. SAND, some Silt, little clay, moist 8.0
						0.2	3.3	3	8-12	Brown, f. SAND, some f. Gravel, little Silt & Clay, dry 10.0
10										Brown C. Gravel, some Silt, wet 10.3
										Gray SILT, some SAND, little Clay, s. black staining, v.s. odor, moist to wet 12.0
						0.2	0.5	4	12-14	s.a.a wet 14.0
15										14' E.O.B.

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-204

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 10' East of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.4	2.0	1	0-4	Brown f-m SAND, some f. Gravel, little Silt, dry -trace brick
						—	0.0			
5								2	4-8	
										8.0
						3.4	3.0	3	8-12	Brown, f. SAND, some Silt, trace Clay, moist, rust spotting
10										
										12.0
						2.2	1.0	4	12-14.5	S. a. a. wet
15										14.5
										14.5 E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-205

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 5' NE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.4	1.3	1	0-4	Brown f-m SAND & GRAVEL little silt, dry to moist, pieces of brick
										4.0
5						0.2	2.0	2	4-8	s.a.a. increase brick, some coal & asphalt pieces 5.0
										Brown to Red/Brown f-m SAND, little f. Gravel & silt, moist
										8.0
						1200	2.3	3	8-12	s.a.a. wet
10										10.0
										Gray, f. SAND, some to little silt, trace Gravel, strong odor
						111	2.0	4	12-14	
										14.0
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-206

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 5' SE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.7	2.9	1	0-4	Brown, f-m SAND, some Silt and f. Gravel, trace Clay, dry few pieces of brick
										4.0
5						0.5	2.4	2	4-8	S.a.a. w/ piece of iron, coal & ash
										6.0 Red Brown SILT, some f. SAND, trace Gravel, moist to wet
										8.5
						1.1	2.2	3	8-12	Brown, c Gravel, some Silt, little Sand, wet 9.2
10										Brown f-m SAND, trace Silt, moist 9.6
										DK Brown to Gray, f-m SAND, some Silt, trace Clay, moist 12.0
						0.7	1.5	4	12-14	Brown, f-m SAND, little f. Gravel, trace Silt, wet
										14.0
15										14' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-207

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 5' SW of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.4	3.5	1	0-4	Brown, f-m SAND, some f-c Gravel, trace Silt, dry pieces of brick & coal
5						0.8	1.5	2	4-8	
						1.4	2.2	3	8-12	8.5 Brown SILT, some f. SAND, trace Clay, moist
10						1.0	2.0	4	12-14	13.7 Soil Gray/Black 14.0
15										14.0' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-208

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 5' NW of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.6	3.7	1	0-4	Brown, f-m SAND, some f-c Gravel, trace Silt, dry pieces of brick
										3.0
										Red Brown to Brown, f SAND, some SILT, little f. Gravel; moist
										4.0
5						0.6	2.5	2	4-8	Lt. Brown, f. SAND, some c Gravel dry
										5.0
										brick
										5.5
										Red Brown, f. SAND, little c Gravel, dry
										5.9
										Brown, f. SAND, some Silt, moist
										8.0
						1.6	2.7	3	8-12	S.a.a. pieces of brick
										9.6
10										Brown/Gray SILT, some f. SAND little clay, moist, black spotting
						3.9	0.3	4	12-14	
										14.0
5										14' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-209

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 2.5' NE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.6	3.2	1	0-4	Brown f-m SAND, some c. Gravel, trace silt, pieces of brick 1.3
										brick 1.7
										coal & ash 2.1
										Brown SILT, some f. Sand, bits of shell + coal, moist
5						1.0	1.6	2	4-8	8.0
						0.6	1.5	3	8-12	s.a.a. no shells or coal 9.0
10										Brown, f-m SAND, some Silt, little f. Gravel moist to wet 12.0
						432	2.0	4	12-14	Gray SILT, some f. Sand, wet, strong odor 14.0
15										14' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-210

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 10' NE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						3.0	2.7	1	0-4	Brown to Gray f-c SAND & GRAVEL few pieces of brick & coal, dry 2.0
										Brown, f-m SAND, little f. Gravel, some silt, moist, pieces of coal & white powder 4.0
5						0.7	3.1	2	4-8	S. a. a. NO powder, moist
						0.3	1.5	3	8-12	9.0
10										S. a. a. Gray w/ rust spotting 12.0
						1225	2.0	4	12-14	Gray/Black SILT, some f. Sand, sheen, strong odor 14.0
15										14.0' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-211

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 15' NE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						1.5	3.0	1	0-4	Brown f-m SAND, some f. gravel, trace silt, dry
										4.2
5						0.7	1.6	2	4-8	Brown, f-m SAND, some silt, little f-c Gravel, moist pieces of brick
						3.7	1.0	3	8-12	
10										12.0
						372	0.5	4	12-14	Grey/Black, silty SAND, wet, odor
										14.0
15										14' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-212

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 20' NE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						1.1	3.0	1	0-4	Brown, f-c SAND & GRAVEL, trace silt, dry
										4.0
5						0.5	2.5	2	4-8	S.a.a. little to some silt, mostly pieces of brick & wood, powdery
										8.0
						0.3	2.7	3	8-12	S.a.a. no powder
10										
						203	2.0	4	12-14	Brown f-m SAND & GRAVEL, some silt, moist 12.2
										coal 12.5
										brick 13.8
										shale pieces, slight sheen 14.0
15										14' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-213

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 15' NNE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.8	3.0	1	0-4	Brown to Lt. Brown f-c SAND & GRAVEL, trace Silt d-y
5						0.5	2.2	2	4-8	5.0
										Brown, f-m SAND, some Silt, little f-c Gravel, moist
						0.7	1.8	3	8-12	
10										
						897	1.2	4	12-14	13.0
										Gray, f. SAND, some Silt, S. odor moist 14.0
15										14.0' E.O.B.

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-214

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 15' ENE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.4	3.0	1	0-4	Top soil 0.5 Gray, f-c GRAVEL, trace silt, dry 2.0
										Brown, f-m SAND, some f. gravel, little to trace silt, dry 4.0
5						0.6	1.7	2	4-8	Brown f-m SAND, some silt, little gravel, moist -pieces of brick & powder 8.0
						0.4	2.0	3	8-12	S. a. a, moist to wet -pieces of coal 12.0
10						0.8	0.8	4	12-14	Grey/Black SILT, some Sand, little to trace Clay, wood (roots) organic odor (slight) 14.0
15										14' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-215

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Project: 180-182 Exchange St
Project #: 15155.07
Client: City of Rochester
Location: 20' NNE of MW-7

Drilling Contractor: Marcor
Driller: J. Agar
Elevation:
Weather: +/-20 snow

Start Date: 2/27/02
Completion Date: 2/27/02
Drilling Method: Geoprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.6	3.0	1	0-4	top soil 0.3
										Gray, f-c Gravel, trace Silt, dry 1.6
										Brown f-m SAND, little f. Gravel and Silt, dry
										4.0
5						0.8	2.6	2	4-8	s.a.a. pieces of brick
										@ 6.4' stone
										8.0
						0.2	2.7	3	8-12	s.a.a. Grayish Brown, pieces of wood, plastic & charcoal
10										
						12.6	1.8	4	12-14	
										13.5
										Grayish Brown, f-m SAND, little Gravil & Silt, wet, w.s. odor, spot of product 14.0
15										14.0' E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

Appendix C

APPENDIX C

SEWER USE PERMIT INFORMATION

PETROLEUM IMPACTED WATER
RULES AND REGULATIONS

1) An Initial Sewer Use Permit or Initial Industrial User Permit is required for discharges to the Monroe County Sewer System or Wastewater Treatment Plant respectively. The permit fee is $40.00 (payable to the Director of Finance, County of Monroe).

2) The following conditions shall apply to this permit:

   a) Required analytical testing of wastewater (Exhibit "C") shall be submitted to this office for review prior to discharge.

   b) The Monroe County limit for the summation of all purgeable halocarbons, aromatics, and polynuclear aromatic hydrocarbons (with a detection level greater than 10 ug/l) is 2.13 mg/l.

   c) Required testing includes, but is not limited to:
      (1) Gasoline impacted water - method 602 or equivalent 40 CFR 136 method; and

      Methyl Tertiary Butyl Ether (MTBE) - monitoring only. Limit not applicable at this time.

      (2) Diesel or Fuel Oil impacted water - method 610 or equivalent 40 CFR 136 method.

   d) The applicant must identify a suitable sanitary sewer discharge point. Monroe County will confirm the discharge point in the City of Rochester and the Towns of Gates, Chili and Ogden. Should the applicant be working in a location NOT described above, it will be the applicant's responsibility to contact the applicable Town and/or Village for similar service. The Towns/Villages of Webster, Scottsville, Churchville, Honeoye Falls, and Spencerport are NOT part of the Monroe County Sewer System.

   e) A maximum of 10 gpm discharge rate is permitted. Approval must be received from the appropriate agency (noted above) to exceed this rate.

   f) Monroe County will conduct a field inspection of the site and issue a permit pending the completion and/or submission of all required information.

APPLICATION PROCEDURE

1) The applicant must submit a letter requesting permission to discharge and a completed permit application. The letter must contain the information listed in item #2 below.

2) The following information is required before considering a request for discharge:
   a) Contractor or environmental representative name
   b) Contact person name, phone #, pager #, fax #
   c) Site name, address
   d) Description of site work
   e) Former/current contents of underground storage tanks and/or material spilled
   f) Quantity of wastewater to be discharged
   g) Method of treatment (if applicable)
   h) Method to control solids discharge (if applicable)
   i) Expected date of discharge
   j) Project duration

3) Pure Waters, under Section 57 of the Worker's Compensation Law and Section 220 - Subdivision 8 of the Disability Benefits Law, is required to have on file proof that your company has worker's compensation and disability benefits for your employees. A form from your insurance carrier stating such coverage will thus be required before your permit can be processed.

4) A check, for the initial permit fee of $40.00, should be made payable to the Director of Finance, County of Monroe. The request to discharge letter, the application, the insurance form and the check should be mailed to:

   County of Monroe - Division of Pure Waters
   Industrial Waste Section
   444 E. Henrietta Road
   Rochester, New York 14620

   As an alternative - the request to discharge letter, the completed application and the insurance form may be faxed to (716) 324-1213. The check may be given to the inspector at time of field inspection.

5) Monroe County will schedule an inspection of the site upon receipt of the above listed material.

6) Please call the Industrial Waste Control Section at 760-7600, Option #4, for additional information.

□

SEWER USE PERMIT

County of Monroe Pure Waters District No. _____ Permit No:_____

Expires: _____

Fee: $40.00

Firm Name_____

Address_____

_____

Type of Business or Service_____

I. The above-named applicant is permitted to discharge wastes into the Pure Waters Sewer system or Tributary thereto as applied for by an application dated_____ and verified by the applicant except the Director of Pure Waters requires the following terms and conditions to govern the permitted discharge:

A._____

B._____

C._____

II. The applicant further agrees to:

1. Accept and abide by all provisions of the Sewer Use Law of Monroe County and of all pertinent rules or regulations now in force or shall be adopted in the future.

2. Notify the Director of Pure Waters in writing of any revision to the plant sewer system or any change in industrial wastes discharge to the public sewers listed in Exhibit "B". The latter encompasses either (1) an increase or decrease in average daily volume or strength of wastes listed in Exhibit "B" or (2) new wastes that were not listed in Exhibit "B".

3. Furnish the Director of Pure Waters upon request any additional information related to the installation or use of sewer or drain for which this permit is sought.

4. Operate and maintain any waste pretreatment facilities, as may be required as a condition of the acceptance into the public sewer of the industrial wastes involved, in an efficient manner at all times, and at no expense to the County.

5. Cooperate with the Director of Pure Waters or his representatives in their inspecting, sampling, and study of wastes, or the facilities provided for pretreatment.

6. Notify the Director of Pure Waters immediately of any accident, negligence, breakdown of pretreating equipment, or other occurrence that occasions discharge to the public sewers of any wastes or process waters not covered by this permit.

Applicant's Signature _____ Date _____

Applicant's Title _____

Emergency Contact _____ Phone _____

Permit Approved by _____ Date _____
Director of Pure Waters

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