GEOTECHNICAL SITE CHARACTERIZATION PORT OF ROCHESTER HARBOR IMPROVEMENT AND HARBOR FERRY TERMINAL ROCHESTER, NEW YORK



by

Haley & Aldrich of New York Rochester, New York

for

LaBella Associates, P.C. Rochester, New York

File No. 70819-000 September 2000 (Draft 5 September 2000)
__ September 2000
File No. 70819-000

LaBella Associates, P.C. 300 State Street Rochester, New York 14614

Attention:

Sergio Esteban, P.E.

Subject:

Port of Rochester Harbor Improvement and Harbor Ferry Terminal

Rochester, New York

Ladies and Gentlemen:

We are pleased to submit herewith our report entitled, *Geotechnical Site Characterization*, *Port of Rochester Harbor Improvement and Harbor Ferry Terminal*, *Rochester*, *New York*. The work was undertaken at your request, as outlined in our proposal dated 4 June 1999 and authorized under our Subconsultant Agreement, dated 16 December 1999.

This report presents a compilation of the results of historic and new subsurface explorations, field testing, laboratory testing, groundwater observations, and site geotechnical engineering interpretations pertinent to the planning and preliminary design of the proposed ferry terminal and related infrastructure.

If additional information regarding the data or conclusions presented in this report is required, please do not hesitate to contact us. It has been a pleasure working with you and the other project team members on this exciting project, and we look forward to our continued association during subsequent phases of the project.

Sincerely yours,

HALEY & ALDRICH OF NEW YORK

Maureen S. Valentine, P.E. Senior Engineer

Stanley E. Walker, P.E. Vice President

Enclosures

c: Bourne Consulting Engineers, Attn: Ronald Bourne, P.E.

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EXECUTIVE SUMMARY

This report presents a summary of research, exploration, and characterization of the subsurface conditions at the site of the proposed Port of Rochester Harbor Improvement and Harbor Ferry Terminal, City of Rochester Project ID # 99021, conducted by Haley & Aldrich of New York. It has been prepared in accordance with our Subconsultant Agreement with LaBella Associates, P.C. dated 16 December 1999.

The purpose of this study was to characterize the site's subsurface conditions in sufficient detail to support the planning and preliminary design of the proposed site improvements.

This report contains reproductions of historic (Sanborn) maps (1892 to 1967) depicting the various facilities that have occupied the site and records of several earlier subsurface explorations made on or near the site. It also contains detailed records of the 25 test borings, 27 test pits, and 3 groundwater observation wells installed as part of the current study of the site by Haley & Aldrich, LaBella Associates, and Bourne Consulting Engineers.

The project area has undergone significant geologic and man-made alteration. An approximately 85-foot-deep, steep-sided gorge in the bedrock formed by post-glacial erosion, encroaches beneath the former transit sheds (the North and South Warehouses) along the eastern edge of the site. From the gorge's edge the bedrock surface rises more gently from about Elev. 200 (City Datum) to Elev. 215 to 235 near the western edge and southern end of the site, ranging from about 60 to 20 feet below the present ground surface. The much of the site is underlain by man-placed fill consisting of uncontrolled deposits of soil and iron-manufacturing slag and demolition rubble ranging from as much as 20 feet to as little as 1 foot in thickness. The fill varies quite randomly from loose to dense. In most areas loose alluvial (river-deposited) fine sand and silt underlie the fills which extend to depths of a few to more than 100 feet. Groundwater levels appear to be about 2 to 5 feet above river level.

These conditions, while providing generally fair support for at-grade roadways and parking areas, provide variably fair to poor support for buildings and additional earthfills. The loose fills and alluvial deposits could yield detrimental differential settlements under thick regrading fills and moderately to heavily loaded structures.

Careful consideration should be given to the existing data presented in this report and the need for additional exploration, testing, and evaluation of the subsurface conditions in the planning and design of any proposed site and structural improvements.

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I. INTRODUCTION

1.01 Purpose

This geotechnical report has been prepared to assist planning and preliminary engineering efforts for the proposed Port of Rochester Harbor Improvements and Harbor Ferry Terminal, in Rochester, New York.

Haley & Aldrich of New York (H&A) was retained by LaBella Associates, P.C. and the City of Rochester to collect and assimilate existing and new geotechnical and geologic information pertinent to the project to provide a general characterization of subsurface conditions at the project location. This document represents a collection of data, some developed by H&A in the past and some by others, that establish the general regional conditions. Site-specific subsurface explorations and field and laboratory testing were performed as part of the site characterization study.

This report is preliminary in nature, given the state of development for the project. The scope of the investigations has been to collect, assemble and interpret site and subsurface information in order to develop an understanding of the regional subsurface conditions, sufficient to complete initial planning efforts and preliminary engineering design. Additional detailed design phase geotechnical investigations will likely be required to more fully evaluate the significance of the subsurface conditions to the design and long-term performance of the project elements.

1.02 Project Description

The proposed Port of Rochester Harbor Improvements site is located as shown on Figure 1 - Project Locus, and is bounded to the east by the Genesee River, to the north by Beach Avenue, to the west by Lake Avenue and to the south by the Stutson Street Bridge. Currently, the site is occupied by parking facilities and two existing warehouses, a boat ramp, an excursion ferry dock, several privately operated marinas and commercial establishments. A CSX railroad crosses the central portion of the project area with a branch to the south along the western bank of the river. Approximate locations of existing structures are shown on Figure 2 - Exploration Location Plan.

This project consists of the preliminary design of proposed transportation access, building facilities and waterside improvements associated with the Port of Rochester Harbor Improvement. The proposed improvements are intended to expand and enhance public access to the waterfront as well as provide the necessary infrastructure to support public recreation, transportation and economic development opportunities. According the contract documents, the project scope includes, but it not limited to the following:

➤ Access/Transportation

Reconstruction of existing street pavement and sidewalks;
Construction of new streets and sidewalks;
Improvement of existing and construction of new parking facilities;
Riverfront pedestrian promenade;
Streetscape and site landscape features;
Street and site lighting;
Signage and graphics;
Public and private utility improvements.



➤ Building Facilities

New building for a ferry terminal and border crossing operation;

Kiosks and marina support structures;

Rehabilitation of the north warehouse;

Signage and graphics;

Public and private utility services.

> Waterside Improvements

Transient marina and related facilities;

Ferry boat and excursion vessel berthing facilities;

River wall rehabilitation and/or reconstruction;

Navigation improvements;

Marina extension along River Street to Petten Street;

Public and private utility services and fueling facilities.

At the time of this writing, the proposed improvements are in the conceptual stage. Several alternate configurations are being considered for design.

1.03 Elevation datum

Elevations used herein are referenced to the City of Rochester Datum. Historical elevations are shown in the Appendices as referenced by the original project, but have been adjusted to the City of Rochester Datum within the tables and text.



II. FIELD AND LABORATORY INVESTIGATIONS

2.01 Background Information

Several earlier investigations in the general area of the project have been conducted by H&A and others, as listed below. The locations of the explorations associated with these earlier investigations are shown on Figure 2, Exploration Location Plan. A summary of the conditions encountered by these explorations is presented in Table II - Conditions Encountered in Earlier Subsurface Investigations:

- ➤ Stutson Street Water Main Genesee River Crossing: Rochester Drilling Company between 13 and 21 September 1989 performed explorations, under the observation of H&A of New York. The work was performed for Joseph C. Lu, P.E for the design of a force main crossing the Genesee River.
- > Stutson Street Bridge: Explorations were performed between 2 November 1994 and 11 December 1997, under the observation of NYSDOT personnel, for the design of a replacement for the Stutson Street Bridge.
- Army Corps of Engineers Dredge Probes: the Army Corps of Engineers performed Probe explorations between February 1959 and April 1961 for a Rochester Harbor Deepening project.
- Wave Surge Protection Project: the Army Corps of Engineers performed drive sample explorations in December 1960 for a Wave Surge Protection Project in the Rochester Harbor.
- ➤ Rehabilitation of East Pier: Explorations were performed by Empire Soils Investigation Inc. between April 1973 and August 1985 under the observation of Army Corps of Engineers personnel for a design analysis of the East Pier Repair in the Rochester Harbor.
- ➤ Lake Avenue Improvements: Explorations were performed by Vanderhorst between 16 and 17 March 1999 for Bergmann Associates, P.C. and the City of Rochester for the planning and preliminary engineering of the Lake Avenue Improvement Project.

Copies of the logs of the explorations made during these investigations are presented in Appendix C.

2.02 Recent Investigations

Three sets of objective-specific explorations were made as a part of this site characterization study. A summary of the conditions encountered in each of the explorations is presented in Table I – Conditions Encountered in Recent (2000) Subsurface Investigations.

In mid-January, 2000, four backhoe-dug test pits were made under the direction of Bourne Consulting Engineers, to explore the configuration and condition of the existing quay wall and its tieback anchorage system. These test pits were observed and logged by Haley & Aldrich. The locations of these test pits, designated BCE-TP # 1 through #4, are shown on Figure 2. Field logs of these explorations are presented in Appendix A-1.

In late-February, 2000, twenty-two backhoe-dug test pits were made under the direction of LaBella Associates, to explore the physical and chemical character of the near-surface subgrade materials and the groundwater levels at the site. LaBella Associates observed, logged, and sampled the test pits. A Haley & Aldrich representative observed and viewed samples from

several of these test pits. The locations of these test pits, designated LBA-TP #1 through #22, as surveyed by LaBella Associates, are shown on Figure 2. The logs of these test pits are presented in Appendix A-2.

Between 23 May and 13 June 2000, twenty-four test borings, HA-101 through HA-107, and HA-109 through HA-125, were drilled by Geologic Enterprises, Inc., of Cortland, New York, at locations selected by Haley & Aldrich to aid in characterizing the soil and bedrock conditions at the site. Tests boring locations and ground surface elevations, as shown on Figure 2, were determined by LaBella Associates.

The borings were drilled using hollow-stem augers to depths below ground surface ranging from 10 to 116 ft. Soil samples were recovered continuously within the fill and at 5-ft intervals thereafter by driving a 1%-in. I.D. split-spoon sampler with a 140-lb. hammer consistent with ASTM Method D1586. The "N" value was determined at each sample interval by counting the number of blows required to drive the split-spoon sampler a distance of 24 in. below the bottom of the hollow stem auger and into the soil under the impact of the hammer free-falling 30 inches. The "N" value is taken as the number of blows required to advance the sampler from 6 to 18 inches within the 24-inch sample range. A Haley & Aldrich geologist monitored the drilling and logged the recovered soil samples.

Bedrock was cored in five of the borings, HA-102, -107, -111, -121, and -122, using an NX-size (1-7/8 in. I.D.) corebarrel. Bedrock was cored to depths ranging from 2.0 to 10.0 ft.

Test Boring and Core Boring Reports prepared by Haley & Aldrich are presented in Appendix A-3. It should be noted that boring reports and related information depict subsurface conditions and water levels at the specific locations at the time of drilling. Soil conditions at other locations may differ from conditions encountered in the explorations. Groundwater conditions at any of the exploration locations may also change with time.

2.03 Groundwater Observation Wells

Groundwater observation wells were installed in completed boreholes HA-111 (MW-1, HA-114a (MW-3), and HA-117 (MW-2). The wells consisted of 2-inch-diameter, perforated PVC screen placed at or below groundwater level, and a solid PVC riser extending to approximately 2 ft. above ground surface. The annulus between the PVC pipe and the borehole was backfilled with filter sand, and bentonite seals were placed above the PVC screen.

Observation Well Installation Reports prepared by Haley & Aldrich for each of these wells are included Appendix A-4.

2.04 Laboratory Soil Testing

Ray M. Teeter, P.E. of Fairport, New York, performed laboratory tests on six soil samples from the test borings. The soil testing consisted of sieve analyses and hydrometer tests to quantify the grain-size distribution of the soils, and Atterberg limits and moisture content determinations to assess the plasticity of the fine-grained soils. The results of these tests have been incorporated into the soil descriptions shown on the Test Boring Reports, and are presented in Appendix B, Table B-1. Soil testing data from earlier investigations are presented in Table B-2

III. SITE AND SUBSURFACE CONDITIONS

3.01 Site conditions

The project site is located on the western side of the Genesee River, at its discharge to Lake Ontario. The project site has been part of extensive planning over the years, and includes the area bounded by Beach Avenue to the north, Lake Avenue to the west, and the Genesee River to the east. The south end of the project extends beyond the Stutson Street Bridge.

The area north of the CSX railroad is currently occupied by parking facilities for Charlotte Beach, a boat ramp and two existing warehouse structures along the river walk. The foundation from a third warehouse structure remains visible. A group of municipal buildings occupies the southwest corner, near Lake Avenue. This portion of the project slopes downward to the northeast from Lake Avenue toward the Genesee River. The ground surface elevations range from approximately El. 290 near the Lake Avenue crossing of the railroad, to El. 250 in the northeast corner, beyond the existing warehouse structures. Historically, this portion of the project area has housed an iron works which changed hands several times and became a steel company, associated rail lines, a rail loop turnaround, a ball park and yacht club, a steam boat wharf, later boat ramps, three warehouses, and various configurations of roads and parking facilities.

The project area south of the CSX railroad, between River Street and the river, is currently occupied by residential structures, boat docks, boat storage yards, and a small water treatment facility. This portion of the site is relatively level, with elevation ranging from El. 252 to 254 between River Street and the Genesee River. The ground surface slopes up relatively steeply at the railroad embankment, to an elevation of El. 260. West of River Road, the ground surface also slopes up relatively steeply to a crest at approximately El. 283 at the lighthouse. Historically, this portion of the project has housed a planing mill, which later became a veneer works and boat manufacturing facility, various boat-docking facilities and associated structures.

Historic (Sanborn) maps depicting on-site structures and facilities in 1892, 1912, 1924, 1950, And 1967 superimposed on the current site mapping are presented in Appendix D.

3.02 Subsurface soil and rock conditions

A. Geologic History

Rochester lies within the relatively low and flat-lying physiographic province known as the Erie-Ontario Lowland, which begins at Lake Ontario and extends southward to the Appalachian Plateau. The Genesee River runs north- south through the Erie-Ontario Lowland.

Bedrock underlying the northern portion of Rochester is part of the Queenston Formation, which is exposed in outcrops of the Genesee River gorge from Lake Ontario to the Driving Park Avenue Bridge at the Lower Falls. The Queenston Formation is an approximately 1000-foot thick sequence of alternating, nearly level shale and sandstone beds of Ordovician age, formed in deep seawater.

As a result of land movements associated with the building of the Appalachian Mountains to the south and east, the land surface of western New York was raised above the inland seas.

Subsequently, the exposed rocks were tilted southward and a southerly drainage system developed along the shallow dipping beds.

A long period (about 350 million years) of erosion ensued until glaciation occurred during the Pleistocene Epoch. It is estimated that over 2000 feet to rock was stripped from the region during this time.

Major streams, which formed during this erosional period, were the ancient Ontarian River and the Genesee River, which flowed into the Ontarian River at what is now Irondequoit Bay.

Approximately 3.0 to 1.5 million years ago, glacial scouring deepened the Ontarian River Valley, which, upon retreat of the glaciers, became present-day Lake Ontario. Glacial scouring also deepened the pre-glacial Genesee River Valley. As the ice retreated during the past 20,000 years, differential post-glacial uplift resulted in flooding of the pre-glacial Genesee River Valley, forming present day Irondequoit Bay. The Genesee River then established its present course by eroding a new deep channel in the exposed bedrock some 4 to 5 miles west of the pre-glacial Genesee Valley.

Fairchild (1918) concluded in his paper, "The Rochester Canyon and the Genesee River Base-Levels", that the present river valley was formed by post-glacial erosion, the depth of which was regulated by the varying water levels in what is now Lake Ontario. His studies indicated the "canyon" bottom at the lakeshore to be about Elev. 100, about 145 feet below the present lake level.

B. On-site Conditions

Site stratigraphy was evaluated on the basis of the findings of the test borings, test pits and readily available public information regarding the local geology and hydrology. The borings encountered three principal soil units at the site; fill, alluvial sediments and glacial till. Generalized descriptions of the soil units and encountered thicknesses are presented below.

<u>FILL</u> – Man-placed fill materials, ranging from silty sand and gravel to varying combinations of iron-manufacturing waste slag, demolition rubble (bricks, concrete, and railroad ties), remnant concrete slabs and foundations, and some organic matter, in thicknesses ranging from 1 to 20 feet, were encountered in essentially all of the on-site explorations. Standard Penetration Test values (blows to advance the sampler 1 foot) varied erratically from 4 to refusal on inpenetratable objects, reflecting the varying and uncontrolled nature of the fill deposits. The estimated bottom-of-fill surface, as inferred by Haley & Aldrich, is depicted on Figure 3 – Bottom-of-Fill Contour Map.

ALLUVIUM – Alluvium (stream-deposited soil) was encountered beneath the topsoil or fill in most all of the on-site borings, extending to depths of a few feet toward the western side of the site to as much as 114 feet below the ground surface in the deep borings (HA- 101 and HA-123) at the river's edge. The alluvial soils consist of silty medium to fine sand with varying amounts of gravel with occasional zones of plastic, slightly organic clayey silt with some fine sand. In some test pits remnants of former surface vegetation were observed directly beneath overlying fill material. The samples ranged from dry to wet, generally increasing in moisture content with depth. Results of grain-size analyses and Atterberg limit and moisture content determinations on samples of the alluvial deposits are presented in Appendix B. Standard Penetration Test values ranged from 0 to more than 50 blows per foot and averaged from 3 to more than 20 in



individual borings, indicating the generally loose to very loose condition of these river-deposited sediments.

<u>GLACIO-LACUSTRINE DEPOSITS</u> – Deposits of late-glacial lakebed sediments consisting of stratified fine sands with occasional clay and coarser sand layers were encountered in thicknesses of up to 10 feet overlying glacial till in several explorations in the higher ground toward Lake Avenue.

GLACIAL TILL - Glacial till was encountered directly below the fill or alluvial or lacustrine sediments and extended to the top of the bedrock in most of the borings. In a few borings, HA-101, -109, -110, and -123, the glacial till was missing and the alluvium extended directly to bedrock. The till materials encountered ranged from soft to hard sandy, silty clay with trace gravel or clayey silt with sand and fine gravel. However, in general the undisturbed till was found to be very compact. The samples ranged from dry to moist. The estimated top-of-till surface, as inferred by Haley & Aldrich, is depicted on Figure 4 – Top-of-Till Contour Map.

A mixture of rock fragments and soil, identified as weathered bedrock, was encountered in a few of the borings. Visual descriptions ranged from "very dense red brown silty fine to coarse SAND, trace clay" to "disintegrated red sandstone". Borings HA-102, -109, -110, -122, and – 123 penetrated weathered bedrock, encountering thicknesses of 1.0 to 5.0 ft.

Bedrock cored in the explorations consisted of relatively flat-lying sedimentary rocks of the Queenston Formation. This unit is are described individually below:

<u>SANDSTONE</u> – A relatively massive layer of sandstone of the Queenston formation was encountered beneath the alluvium and glacial till at depths ranging from 27 to 114 ft. below the ground surface. The core samples recovered from the test borings are described as moderately weathered to competent red, fine-grained sandstone with interbedded or mottled gray sandstone. RQD values ranged from 38 to 69 percent, indicating that the quality is pore to fair.

The bedrock surface was encountered at elevations ranging from El. 138 (auger refusal in HA-101) and El. 139 (HA-123) to El. 232 (in HA-110).

However, earlier borings (DN-B-51 and –B-52) made in the river south of the present Stutson Street Bridge's east abutment, did not encounter bedrock or refusal before reaching elevations at or below 118. These depths are consistent with Fairchild's (1918) findings and together with the present exploration findings support the inference that there is a deep curvilinear trough in the bedrock passing beneath and to the east of the project site on its course to the deeper water off shore.

The estimated top-of-bedrock surface, including a speculated configuration of this deep "canyon", as inferred by Haley & Aldrich, is depicted on Figure 5 – Top-of-Bedrock Contour Map.

3.03 Groundwater Conditions

The depth to water was recorded at completion of the explorations in borings HA 102, 107, 111, and 118 at depths ranging from 3.0 to 18 ft. below the existing ground surface. Water levels were also measured in each of the three piezometers at depths ranging from 3.60 to 10.74 ft.

below the existing ground surface. In general, the water table in late-May to early-June 2000 appears to have been between El. 248 and 251, sloping downward from west to east and being 2 to 5 feet above normal river level.

Corps of Engineers' river-level data reviewed and summarized by Bourne Consulting Engineering (5-10-00) indicates a maximum-recorded water level at El. 250.39. The Flood Insurance at Map for Rochester shows the project site as "Zone C" - subject to minimal flooding.

Water levels at the site should be expected to vary with precipitation, season, temperature and construction activity in the area. Therefore, groundwater levels during and following construction may differ from those observed in the test borings.



IV. GEOTECHNICAL ENGINEERING CONSIDERATIONS

The site's geologic and use history have produced subsurface conditions which warrant careful consideration in planning its redevelopment. These conditions include markedly varying bedrock surface elevations; deep, loose, and potentially compressible natural soil deposits; remnant foundations of earlier facilities; extensive areas of filled land containing iron-manufacturing slag and other wastes and demolition rubble; and relatively shallow groundwater levels. Detailed subsurface exploration and testing programs will be needed to establish appropriate design criteria and support construction planning for significant site improvements.

4.01 Design Considerations for Site Infrastructure Improvements

The uncontrolled fills and shallow groundwater that underlie most of the site present variable and potentially settlement-yielding support for streets and parking lots and a possibly corrosive environment for underground utilities. The chemical character and potential corrosivity (to concrete and metals) of the groundwater should be assessed in conjunction with the design of such facilities. The addition of more than 1 or 2 feet of fill to the present grade could cause noticeable, long-term settlements in areas of poorer subgrade conditions. To minimize the impact of post-construction differential settlements, site regrading, preceded by removal of existing topsoil and pavement and thorough proof-rolling of the exposed subgrade with a heavy, smooth-drum, vibratory compactor, should be completed prior to the construction of infrastructure improvements. Subgrade and surface drainage should be carefully developed to assure the long-term performance of trafficked areas. The presence of the loose fills and shallow groundwater should be carefully considered in the planning and execution of all utility trenching and installation.

4.02 Design Considerations for Foundations

The existing uncontrolled fills present widely varying support for foundations and could yield significant general or differential settlements under moderately to heavily loaded foundations. The buried slag and other waste and affected groundwater could pose threats to the long-term integrity of concrete or steel foundations. Removal and replacement or partial removal and insitu densifications of the existing fill materials and replacement with controlled fill may be appropriate for moderately loaded structures. Heavily loaded or settlement-intolerant structures would most likely require deep foundations (piles or caissons) seated on or in the glacial till or bedrock.

4.03 Design Considerations for Below-grade Walls

The shallow groundwater and loose fill and alluvial sediments will exert considerable horizontal loadings on temporary and permanent earth-retaining structures. Chemically aggressive groundwater could pose a threat to the long-term integrity of earth-retaining walls, particularly those constructed of steel. Care must be taken to assure sufficient lateral support both at the top and at or below the bottom of the excavation or below-grade floor.

4.04 Design Groundwater Levels

In view of the levels observed in the recently installed observation wells, the presence of the confining sheet-pile quay wall, and the potential (minimal) for site flooding, design groundwater levels should be taken as the finished ground surface throughout the site.

4.05 Seismic Design Considerations

The site is located within Seismic Zone A of the proposed (1999) Seismic Zoning Map for New York State Seismic Building Code. Zone A has a seismic zone factor, Z = 0.09, which numerically corresponds to effective peak acceleration in g on rock /stiff soil S1 conditions. In view of the indicated subsurface stratigraphy, all the soil profile beneath and eastward of the westerly line of the existing warehouses should be considered Type S₄, and that westward of the warehouses should be considered Type S₃. Seismic design loadings for new structures should be considered in accordance with the latest BOCA Building Code.



V. CONCLUDING COMMENTS

This report has been prepared for specific application to the preliminary planning of the Port of Rochester Harbor Improvements and Harbor Ferry Terminal development, in accordance with generally accepted geotechnical engineering practices. It presents a general characterization of the subsurface conditions as Haley & Aldrich has inferred them from the cited data and literature. The actual subsurface conditions between and beyond the points of exploration are expected to vary somewhat from those described and depicted in this report.

The characterizations and geotechnical engineering considerations presented in this report are based, in part, upon the data obtained from the referenced subsurface explorations. The historic construction and uses of the site, together with the geotechnical information presented herein, should be carefully considered in establishing the need for additional exploration, testing, and evaluation to support the design and construction of the anticipated structures and site improvements.



REFERENCES

1. Herman L. Fairchild (1918), The Rochester Canyon and the Genesee River Base-Levels, Proceedings of the Rochester Academy of Science, October, 1918.



TABLE I - CONDITIONS ENCOUNTERED IN RECENT (2000) SUBSURFACE INVESTIGATIONS

Haley & Aldrich of New York
Project: Port of Rochester
Project #: 70819-400
Client: LaBella Associates, P.C.
Subject: Recent Explorations

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	1187852	1407/98	261.92	25	0.00	261.92	14.00	247.92	14.00	247.92	19.00	242.92				- 19	+			1	+	
MANU 18820 18890 1899	1187087	1000041	253.00	02	2.00	251.08	19.00	234.68	19.(x)	234.68				-	,				1			
	_	1400100	202,44	27	0.40	252.04	8.00	244,44	8.00	244.44											'	
Highing House March Ma	1	1408063	253.7	26	0.00	253.70	10.00	243.70	10.00	243.70												•
	1100000	1400000	250.78	5	0.00	252.78	2.00	250.78	2.00	250.78	20.00	232.78				- 20					1	1
1000000 10000000 1000000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 100000000	8128811	1408530	250.52	51	0.00	250.52	2.00	248.52	2.00	248.52		•		,	•		-	-			1	1
	1187830	1408439	254.31	52	0.00	254.31	6.00	248.31	6.00	248.31												
	1187786	1407572	276	71	0.00	276.00	4.00	272.00	4.00	272.00	-	246.00			-	- 70	+	-	+	1	-	
	1187468	1407931	252.8	42	0.00	252.80		238.50	14.30	238.50		216.80	,	•	-	- 36	+	-	+	ł	37(0)	215.00 Red sandstone
	1196260	1407170	253.64	176	0.00	253.64	-	239.64	14.(x)	239.64	-	139.64					-	-	+	1	-	
Section Sect	1186070	1407772	26.702	5 0	0.00	267.92	-	below 257.9	-				-								-	1
25.00 25.0					0.00	500.50	0.00	241.23				-				8.1	-			v 245		
251 252		2. 10.	254.00	9.5	000	254.00	not encountered	halow 245														
244 9.5 0. 254 set excounteed blook 240 24 24 24 24 24 24 24	2		252	7	0	-	not encountered					-	.	+								- botto
254	31		254	9.5	0		not encountered	- 1	.	-	+		1			' -			-			- tie-ro
254 4 0 254 and encountered below 260 and encountered and encountered and encountered below 260 and enco	3b		254	10	0		not encountered			-	-	+						<u> </u>		ŀ		top of pile cap and water @ 9.5ft
251 6 0 251 ind excountered below 284 1 252 ind excountered below 284 independent indicated below 284 independent indicated below 284 independent indicated below 284	4		254	4	0	254	not encountered	below 250						-				1	+	 -	1	tile-rod⊥ of anchor @10f.,water @ 9.5ft
18.1 18.1																						11. A Hallopan and sales to do.
18/2 25/3 6 0 25/3 Independent 15/2			251	6	0	251	not encountered	helow246						-			_	-				
Bit	2		252	6	0	252	not encountered	below 246	.			-	-	-		 - .						- water infiltration @ 4.5 ft.
### 44 253	3		253	8	0	253	-	252	-			Alaw 245	1	+								perched? GW @ 3 ft.
	4		253	6.3	0	253	3.2	249.8	3.2		T	relow247	. .	+	-			-		 -		- running sand, GW @ 6 ft.
	3		255	10.5	О	255	-		ot encountered				-	754	-		+		7	1	-	standing water @ 5 f.t
## 1 222 6.5 0 223 Ind encountered below 245	6		253	4.5	0	253	not encountered		e			-	-	, !		-	-		+	243		some sandstone @ bottom. No water noted
#8 22 8.5 0 225 and encountered below 246 and encountered below 246 and encountered below 247 and encountered below 248 at 12.5 0 263 and encountered below 248 at 12.5 0 263 and encountered below 249 at 13 0 253 and encountered below 249 at 13 0 253 and encountered below 249 at 13 0 253 and encountered below 249 at 13 0 254 and encountered below 249 at 13 0 264 and encountered below 249 at 13 0 265 and encountered below 249 at 14 0 265 and encountered below 249 at 15 264 and encountered below 249 at 251 at 251 and encountered below 249 at 251 at 251 and encountered below 249 at 251 at 251 at 251 at 251 at 251 at 251 a			252	7	0	252	not encountered	below 245			•			'					-			- Die water noted
#11 280 128 128 128 0 224 not encountered below 248 111 0 269 133 0 258 252 not encountered below 259 not encountered belo	0		252	6.5	0	252	not encountered	below 246						-								O T
#11 2.88 12.5 0 288 5.5 22.5 Ind encountered #11 2.99 13 0 269 9.8 29.2 Ind encountered #12 2.99 13 0 2.99 9.5 0 2.92 Ind encountered below 257 Ind encountered below 257 Ind encountered below 258 Ind encountered below 258 Ind encountered below 259 Ind 259 Ind encountered below			260	12	0		not encountered	below 248					'			_						perciled ON @ 311
#12			258	12.5	0		5.5	-	of encountered		encountered				-				below	245.5	-	no standing water
#13	13		269	13	0	269	9.8	1	of encountered		encountered											no water noted
#15 259 9.5 0 259 not encountered below 250 #15 259 not encountered below 246 #16 259 259 259 not encountered below 246 #16 259	12		262	CT	0	262	not encountered	below 257								-			_		-	- bottomyd on concrete slab @ 5 fi
#15	14		209	9.5	0	259	not encountered	below 250													-	- botto
#16 259 12.2 0 259 not encountered below 247 not encountered #17 265 11 0 265 1 264 not encountered below 247 not encountered #18 not encountered below 247 not encountered below 248 not encountered below 249 not encountered below 248 not encountered below 248 not encountered below 249 not encountered be			200	20	0		not encountered	below 246														- standing water @ 7 ft
#17 2.65 11 0 2.67 1.21 2.21 0.0 dencountered #18 2.54 6.8 0 2.54 not encountered below 2.47 1.21 2.4 not encountered below 2.47 1.24 not encountered below 2.47 1.25 not encountered below 2.47 1.25 not encountered below 2.47 1.25 not encountered below 2.48 not encountered below 2.48 not encountered below 2.48 not encountered below 2.48 not encountered below 2.45 not encountered bel	16		204	9.2	0		not encountered	_			,										1	water @ bottom, 9 ft.
#18	17		209	12	0		7.5		ot encountered	,												- water not noted
#19	10		265	=	0	265	-		of encountered							-					-	water
#20 253 5 0 253 not encountered below 248 4.5 251.5 not encountered below 245 251.	8		254	6.8	0	254	not encountered	_								1			1			- water not noted
#20	19		253	5	- 0	253	not encountered	below 248	,										1	+		standing water @ bottom, o.
#21	20		256	10	0	256	4.5		ot encountered		-		-		T	-		1				- Stand
#22 253 6 0 253 not encountered below 247	21		251	6.3	0	251	not encountered	-					+		T	+					-	- water not noted
L. ALL ELEVATIONS HAVE BEEN CONVERTED TO CITY OF ROCHESTER DATUM.	22		253	6	0	253	not encountered	below 247							-		1				1	- water not noted
1																	1		ļ.			- standing water @ bottom, 6 ft.
-																					-	
	1. ALL ELEVAT	IONS HAVE B	EEN CONVERTED	TO CITY OF RO	CHESTER DAT	M							-				-	1	1	+		
						Ciri.						_		_							_	
						O.M.						+		-		1	+	+	1		+	

TABLE II - CONDITIONS ENCOUNTERED IN EARLIER SUBSURFACE INVESTIGATIONS

Haley & Aldrich of New York
Project: Port of Ruchester
Project #: 70819-000
Client: LaBella Associates, P.C.
Subject: Earlier Explorations

January-00 BEBa SEW

Army Corp June-60	Stutson Street Bridge NYSDOT December-97	Genesee River Crossing H&A #70037 December-89	INVESTIGATION TITLE Stutson Street Water Main H&A #7616 December-87
216.13+R 216.33+R 216.53+R 216.53+R 216.53+R 216.53+R 216.53+R 217.13+R 217.13+R 217.13+R 217.13+R 218.33R 218.33R 218.33R 218.33R 218.33R 219.13R 219.13R 219.13R 219.13R 219.83R 221.83R 221.83R 221.83R 221.83R 221.83R 221.83R 221.83R 221.83R 221.83R 221.83R	DN-B-3 DN-B-5 DN-B-5 DN-B-5 DN-B-5 DN-B-5 DN-B-5 DN-B-5 DN-B-5 DN-B-5 DN-B-6 DN-B-6 DN-B-6 DN-B-6 DN-B-7 PH-B-10 PH-B-10 PH-B-10 PH-B-10 PH-B-202 PH-B-203 PH-B-306 PH-B-306 PH-B-306 PH-B-309 PH-B-309 PH-B-309 PH-B-311 PH-B-31 P	B-1 B-2 B-3 B-4 B-5 B-6 B-7	EXPLORATION DENTIFICATION DENTIFICATION B101 B102 B103 B105 B105 B105 B106 B107 B107 B107 B107 B106 B107 B107
1185671.4 1185783.5 118594.2 1185863.5 1186028.9 1186363.6 1185236.8 1185236.8 1185678.2 1185677.1 1185036.9 1185952.4 1185952.4 1185952.4 1185952.4 1185957.6 118597.7 118597.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6 1185776.6	1185201.1 118523.4 1185156.4 118525.8 1185220.6 118510.9 118508.3 1184953.1 1185336.5 1185222.6 1185223.6 1185283.3 1185283.3 1185283.3 1185283.3 1185283.3 1185281.3 1185281.3 1185281.3 118490.4 118490.8 118490.8 118496.8 118496.8 1185032.6 1185032.6 1185032.6	1186769 1186776 1186755 1186736 1186741 1186746 1186728	NORTHING 1185436 1185497 118546 1185523 1185466 1185511
1407401.6 1407441.1 1407338.6 1407462.3 1407572.2 1407586.8 1407138.4 1407288.6 1407138.4 1407288.6 1407434.1 1407434.1 140753.3 1407453.3 1407453.3 1407383.8 1407383.8 1407383.8 1407383.8 1407383.8 1407383.8 1407383.8	1407176.2 1407136.1 1407094.9 1407394.9 1407355.8 1407394.3 1407396.2 1407394.1 1407392.5 1407394.1 1407392.7 140839.9 1407394.9 140839.9 140839.9 140839.9 140839.9 140839.9 140839.9 140738.5 140788.5 140788.5 140788.5 140788.5 140788.5 1407887.6 1407887.6 1407887.6 1407887.6 1407887.6	1407897.1 1408024.1 1408121.1 1408121.1 1408249.1 1408381.1 1407831.1 1408435.1	EASTING 1407522.1 1407241.1 1407318.1 1407344.1 140744.1 1407452.1 1407376.1
	216.77 216.22 216.22 225.60 219.10 220.91 221.30 222.88 226.88 256.89 256.89 254.69 253.18 251.07 289.76 251.197 289.76 251.108 251.108 251.177 251.77 251.77 251.77 251.77 251.77 251.77 251.60 251.60 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64 251.64	223.78 227.48 224.78 240.28 250.58 250.58 250.58	SURFACE ELEVATION (ff) 250.08 225.48 225.48 221.48 221.48 221.48
	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	10 0,00 0,00 0,00
	28979 28979 256.89 256.89 256.89 251.89 251.97 289.76 281.77 251.	250.58 251.58 250.58	FI TOP ELEV.(f0) 250.08 253.08
	4.00 2.000 6.00 10	4.00 7.50 10.00	FILL BOT BOT
	285.79 285.79 236.98 250.89 250.89 244.69 243.18 245.97 288.70 287.08 244.47 218.27 203.27 226.60 243.51 244.47 242.43 244.47 242.43 244.47 242.43	246.58 244.08 240.58	(ft) ELEY. (ft) 248.08 249.08
	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 7.50 10.00	DEPTH (ft) 2,100 4,100 0,000 0,000 0,000 0,000
	216.77 216.22 225.60 219.10 220.91 221.30 222.88 226.88	223.78 227.48 224.78 240.28 240.58 240.58	OP ELEV. 248.0 249.0 225.4 221.4 221.4 221.4 221.4 221.4
	9.20 17.50 26.30 96.90 100.60 100.60 100.60	>35 >35 >35 >27 >27 >35 >35 >35 >35 >35 >35 >35 >35 >35 >35	ALLUVIOM BO (ft) DEPTH (ft) 8 >30 8 17.50 8 17.80 8 19.80 8 19.80 8 >30 8 >30 8 >30 8 >30
PRODIE DORING - C PRODIE DORING - PRODIE DORING - C PRODIE DORING	207.57 198.72 199.30 122.20 120.60 122.28 126.28		BOTTOM 1 (10) ELEV. (10) 1 238.58 222.48 20 201.68
COMPLETE AT COMPLE	4.00 20.00 6.00 10.00 10.00 10.00 1.00 1.00 1.		DEPTH (ft)
	285.79 226.98 250.98 250.98 250.98 244.69 243.97 288.76 287.08 291.08 291.08 291.08 218.27 218.27 218.27 218.27 226.60 243.41 27.26.60 243.41		TOP
	34,00 25,00 25,00 25,00 25,00 25,00 37,00 37,00 37,00 44,00 37,00 25,00 40,00 25,00 105,00 105,00 105,00 107,00 99,60		LACUSTRINE BG
	255.79 225.79 221.98 231.89 233.18 225.99 233.18 226.97 252.00 224.08 224.08 224.08 211.77 196.77 196.77 196.77		DEPTH (f) ELEV. (f)
	100.69 100.69 34.00 37.00 44.00 37.00		DEPTH (ft) 17.50 3.00 19.80
	120.31 120.31 255.779 255.779 252.76 244.08 254.08		OP ELET 235 222 201
	103.50 103.50 44.00 47.00 50.00 46.00		++++++++ - - - - - - - - - - - - - - -
	245.79 245.79 245.08		DEPTH (ft) ELEV. (ft)
	9.20 17.50 26.30 102.70 102.70 102.50 102.50 94.80 48.40 27.50 25.00 20.00 40.00 25.00 25.00 25.00 25.00 25.00 20.00		D
215.73 216.13 216.33 216.53 216.53 216.53 216.53 216.53 217.13 217.13 218.83 218.83 218.83 219.13 219.13 219.13 219.13 220.53 221.83 22	207.57 198.72 199.30 116.40 117.41 118.80 119.28 156.87 241.39 228.98 229.89 228.98 228.05 228.05 228.07 211.77 196.77 1151.10		### TOP ELEV. (f0
NO REPUSAL			5 n - Qi
\$AL	12.3 ft - sandstone 10 ft - shale/siltstone 10 ft - shale/sindstone 9 ft - shale 10 ft - shale/sindstone 10 ft - shale/siltstone 10 ft - shale/siltstone 10 ft - shale/siltstone 10.2 ft - siltstone/sandstone/siltstone 10.2 ft - siltstone 10.3 ft - siltstone 10.5 ft - siltstone 9.9 ft - siltstone 10.5 ft - unidentified bedrock 10 ft - unidentified bedrock 4.5 ft - unidentified bedrock 4.5 ft - unidentified bedrock 5 ft - unidentified bedrock		ROCK DESCRIPTION 5 ft - QUEENSTON SHALE 5 ft - QUEENSTON SHALE 5 ft - QUEENSTON SHALE

D.H

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| Dipsilon | Dipsilon

Rehabilitation of East Pier Army Corp June-85

III

Dredge Borings Army Corp June-60

INVESTIGATION TITLE

EXPLORATION IDENTIFICATION

231.63R

Wave Surge Protection Project Army Corp April-95

D73-1 D79-2 D79-3 D79-4 D79-5 D85-2 D94-1 D94-3

16:13

Haley & Aldrich of New York

Project: Port of Rochester Project #: 70819-000 Client: LaBella Associates, P.C. Subject: Earlier Explorations

TABLE II - CONDITIONS ENCOUNTERED IN EARLIER SUBSURFACE INVESTIGATIONS

Date: Created By: Checked By

January-(X) BEBa SEW

	1189543.5				1189794.2		_		1190078 4 1				1180808.7			1189614.2						1188505.5		1188773.7 1	_	1189237.8					11896559 1			_		1189167 5			1189518.4				1189508.4 1.				1189852.8			1189791 1				1189424.1		1190920.2				1185773.1 1	NORTHING EAS
1409609.5	409664.2	1409719	409774.1	1409796.1	1409829	1409884	1409938.7	410013.6	1410015 7	4100358	4100136	1409958 7	409903.0	400003 9	1409/94.3	409/38.8	1409684.4	409629.5	1409574.3	1408888.9	408936.3	1409052.1	1409105.7	1409160.4	409214.8	1400437	409546.6	409601.7	409656.2	1409710.9	409766 4	409876.2	1409931.2	1409985.8	1410042	1409412	1409527.3	409581.8	409647 8	409746.6	1409801.7	409856.8	409641 1	1408965.3	408901.3	1408924.2	409867.3	408721.1	409713.1	409437.4	1408888.8	409129.6	1409061.3	410130.3		1.1	1409019.4	407241.6		1407422.9	EVALINO
234.73	235.43	234.33	235.03	235.63	236.53	234.83	232.73	232.83	233.73	235 03	235 13	236.43	230.45	236.43	235.43	236.93	235.93	236.03	238.43	242.63	241.83	240.83	240.23	239.73	243.03	240.43	238.73	237.23	236.63	236.23	23.7.23	236.23	236.93	236.93	234.53	237.13	236.93	234.53	237.03	235.83	235.73	235.43	236.33	237.73	240.03	238.43	234.83	238.33	232.33	239.83	250.93	252.33	241.03	236.63		CH:(77	238.23	234.53			ELEVATION (II)
																																												0.00			0.00			0.00	0.00	0.00	0.00	0.00							DEPTH (ft)
																																												237.73		,	234.83		.	239.83	250.93	252.33	241.03	236.63							ELEV. (ft)
																																												2.40		-	3.00		,	4.90	7.10	8.20	7.50	7.50	-						DEPTH (ft)
																																												235.33	,	-	231.83		. .	234.93	243.83	244.13	233.53	232.83							I(ft) ELEV.(ft)
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																																												7.90	7.80	>27	12 00	>25	>19	13.70	35.20	>40.5	>30	>25.5		¥	>14	>14		H	пертн
PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING -	PROBE BORING	PROBI; BORING	PROBLE BORING	PROBE BORING	PROBLE BORING -	PROBE BORING	DALAGE BONING	PROBLE BORING	PROBE BOKING	PROBE BORIN	PROBE BORING	PROBE BORING -	PROBE BORING	PROBE BORING	PROBE BORING -	PROBE BORING	PROBE BORIN	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORIN	PROBE BORIN	PROBE BORING	PROBE BORING	PROBEBORING -	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBLE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	PROBE BORING	229.83	232.23		222 83		.	226.13	215.73		217.13	71013						PROBE BORING	BOTTOM
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AT	TA:	TA	TA:	: AT	: AT	TA	: AT	TA	TA	17.	CAT	TAT	IV	AT	TAT	AT	EAT	TA E	TA	AT	AT	AT	AT	AT	AT	AT	AT	: AT	: AT	TA	IA:	TA	AT	AT	AT	: AT	: AT	3 AT	AT	EAT	AT	TA	YAT	1	232.23		777 83			226.13	215.73	-	217.13	- 1017						AT	100
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17 40	18.90	17.00	17.70	18.30	19 20	17.40	15.30	10.40	18.60	17.80	19.10	2.00	3.50	18.50	18.10	5.20	18.60	18.70	24.20	27.40	21.30	23.50	3.40	0.70	0.00	3.30	0.80	19.90	19.30	19.20	19.90	18.90	5.80	1960	17.90	19.8	19.60	17.0	12.5	18.50	11.00	18 10	16.00	33.20	35.7					43.30						-) DEPTH (II)	
217.33	-			-	21713	+	-	+	+	-	-	-	232.93	-				-	+	240.43	-	217.33		230.05	+	-		-	-	217.33	-	217.33	-	230.13	-	0 217.33	+	0 220.03	-		0 224.73	+	-		+					0 196.53				ļ. -		 -				231.63	-Q
NO KITICALL	ON			NO RESTURAL	1						33 NO REFUSAL	1			33 NO REFUSAL			33 NO REFUSAL		45	3 3	33 NO REFUSAL	3	3 5	23 NO REFUSAL				33 NO REFUSAL		33 NO REFUSAL		13 INO REPUSAL				.33 NO REFUSAL	1	1	.33 NO REFUSAL	.73 INO REFUSAL																		100	v. 00	1
USAL.	USAL	JSAL	JSAI.	ISAL.	USAL	USAL	USAL	USAL	USAL	USAL	USAL			USAL	USAL		USAL	USAL	ISAI	1		TVSD			USAL.			USAL	INSU	USAL	USAL	USAL	JACO.	I S AI	JASU	JASU	USAL	IVSII		USAL	JAL.	USAL	TVSDE	10.6 ft - weathered rock	reathered rock					1.2 ft - weathered rock											ROCK DESCRIPTION
																																																													IPTION

TABLE II - CONDITIONS ENCOUNTERED IN EARLIER SUBSURFACE INVESTIGATIONS

Project: Port of Rochester Project #: 70819-000 Client: LaBella Associates. P.C. Subject: Earlier Explorations

Haley & Aldrich of New York

Lake Avenue Improvement Project Vanderhorst March-99		INVESTIGATION
LA-B-1 LA-B-2 LA-B-3 LA-B-5 LA-B-6 LA-B-6 LA-B-7 LA-B-8 LA-A-1 LA-A-2 LA-A-2 LA-A-3 LA-A-3 LA-A-6 LA-A-6 LA-A-7 LA-A-6 LA-A-7 LA-A-6 LA-A-7 LA-A-7 LA-A-8	179-70 179-70 179-71 179-72 179-73 179-74 179-75 179-76 179-78 179-81 179-81 179-85 179-85 179-85 179-86 179-86 179-86 179-86 179-86 179-86 179-86 179-89 1	EXPLORATION IDENTIFICATION
11892/9.4 1186329.1 1186387.1 1188193.8 118976.2 118968.2 1187677.2 1187647.2 118749.9 118749.9 1187842.2 118859 1188036.7 1186035.7 1186853.1	1189376.4 1189292.7 1189292.7 1189209.3 1188849.4 1188815.7 118873.4 118873.4 1188563.8 1190002.9 1188413.4 1188396.4 1188396.4 1188520.8 1188604.9 1188466.8 1188620.8 1188433.4 1188333.5 1189319.4 1188233.5 1189291.4 1188291.4	1.164.5
1406564./ 1406924 1407686 1407962.7 1407675.7 1407758.7 1407738.3 1407158.7 1407328.6 1407328.6 14077504.5 1407769.1 1407786.1 1407786.3 1407786.3 1407786.3	1409554.4 1409494.5 1409209.2 1409187.6 1409133.2 1409103.1 1409024.7 1409024.7 1409026.6 1409026.7 1409026.7 140906.3 1409078.7 1409078.7 1409078.7 1409078.7 1409078.7 1409079.3 140898.7 140898.7 140898.1 140898.1 1408991.4 140891.2	
285 283 282 273 253 254 258 288 288 288 287 277 259 257 277 277 259 253 267 276 288	237.23 236.13 241.10 241.10 239.83 240.83 240.13 240.13 240.13 241.13 241.13 241.13 241.13 241.13 241.13 241.13 241.13 241.13 241.13 241.13 240.64 240.64 240.65 240.64 240.64 240.65 240.64 240.65 240.64 240.65 240.65 240.64 240.65	ELEVATION (ft)
0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.00 249.23	TOP DEPTH (ft) ELEV. (ft)
>8.1 3.50 5.00 5.00 >8.0 >8.0 >8.0 >8.0 1.10 1.10 1.10 1.00 2.10 2.30		DEPTH
280 2277. 280 2277 258 245. 246. 277 277. 280. 276 276 258 258 250. 264. 275 281 281	241.73	TOM ELEV.(ft)
3.50 220 5.00 277 5.00 278 5.00 268 245-245-245-245-245-245-245-245-245-245-		TOP DEPTH (ft) ELEV. (ft)
×8.1 ×8.2 ×3.0 ×3.0	31,00	ALLUVIUM BOTTOM (fi) DEPTH (fi) EL
		EV. (ft)
		TOP DEPTH (ft) ELEY. (ft)
		- ST
		BOTTOM DEPTH (ft) ELEV. (ft)
		T DEPTH (ft)
		OP
		GLACIAL TILL BOTTOM V. (ft) DEPTH (ft) ELEV. (ft)
	25,00 18,80 19,50 0,30 22,50 22,50 22,80 23,00 24,20 14,90 14,90 144,90 144,90 24,50 30,00 30,00 30,00 31,00 3	BEDROCK TO DEPTH (f0)
		BEDROCK / REFUSAL TOP EPTH (f0 ELEV. (f0)
,*	NO REFUSAL	ROCK DESCRIPTION

No. 10 and 1.

Core

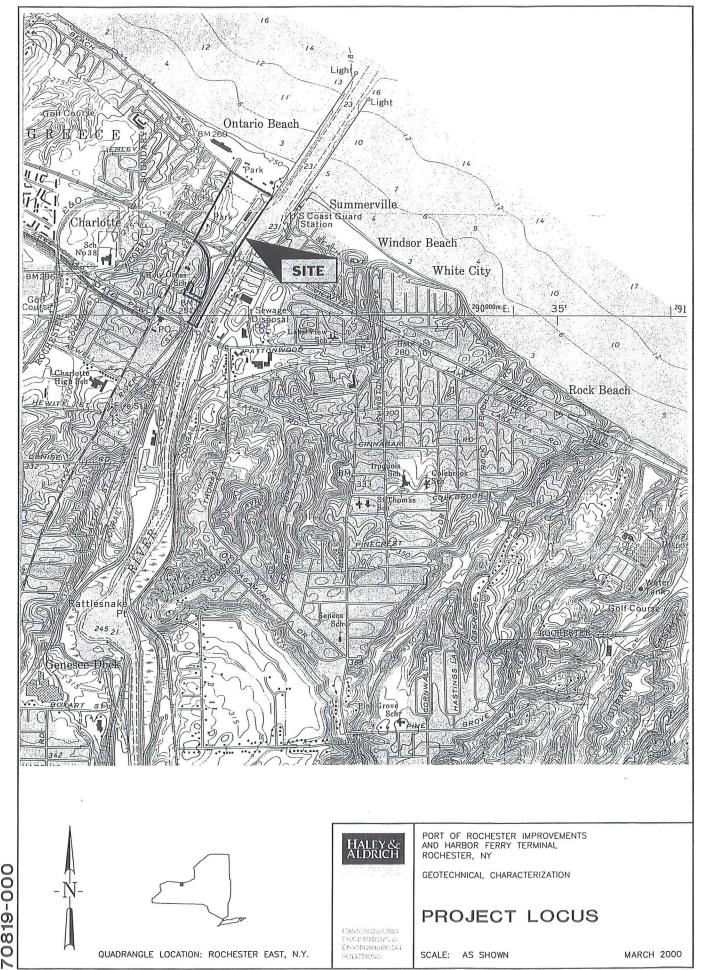
113

NOTES: 1. ALL ELEVATIONS HAVE BEEN CONVERTED TO CITY OF ROCHESTER DATUM.
2. PROBE REFUSAL IS NOT A GUARANTEE OF BEDROCK DEPTH.
3. NORTHINGS AND EASTINGS ARE BASED ON '83 GRID

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English.

r of her hand



See Electronic Copy for Plans



APPENDIX A

Records of Recent (2000) Subsurface Explorations

- A-1 Logs of Test Pits by Bourne Consulting Engineers
- A-2 Logs of Test Pits by LaBella Associates
- A-3 Logs of Test Borings by Haley & Aldrich
- A-4 Observation Well Installation Reports by Haley & Aldrich

		1	15.			Т	
	Consul	ting Geo	, ROCHESTE	CR, NEW YORK Engineers, cologists	TEST PIT REPORT	l l	TEST PIT NO.T.P#) (LE NO. 70819-COO
LOCATI CLIENT CONTRA	T: Portion: OI	of Rosella A. Hickory	chester - rel Care ssocrates	Charatte Beach, sp Termunal City of Roches instruction	New York ter)	EI	DOCATION: Adjacent to Book Journel EVATION: Not Surveyed EPLORATION DATE: 11 Jan 2000 LA REP.: R. Dedrick
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA CHANGE		DESCRIPTION OF MATERIALS		REMARKS
-		+	0,541		Asphalt		
-2			2.04		to course soudy G	and the street of the street o	O Cobbles composition unknown. Irridescent blue & suffer smell. Possible Foundary biproduct. O More clease
 	Obtaine	4 . · ·		Brown red	fine to course	SAND. Some	composition of cobbles
-4 -	Lubella. Associati			cobbles, So Moist	me coarse gravel.		located adjacent to river-wall
- 6 -							3 Tre-rods located adjacent to triangular concrete forms.
-			,				
-8 -							
-	-						
			9.54	Top of Pile	BOE - 9.5ft	tructure	onto.
-10 -			,				
-				* exploration	n ended due to n	influx of water	
-12 -							
-							
	WA'	TER LEVE	_ <u></u>	APP	ROXIMATE PIT DIMENSIONS AT SU	JRFACE	SUMMARY
DA	TE	TIME*	DEPTH FT	LENGTH 25 f	eet WIDT:	20 feet	DEPTH: 9.5 Ft
11. 1.	200	30mm	9.5A	25		*	JAR SAMPLES: -
		1.			BOULDERS		BAG SAMPLES: -
					AMETER: No. 50+ = Vol.	cu ft	WATER LEVEL: Not Present
•	Hrs aft	er compl	eted	Over 18" DI	AMETER: No. 10+ - Vol.	cu ft	TEST PIT NO. TP#1

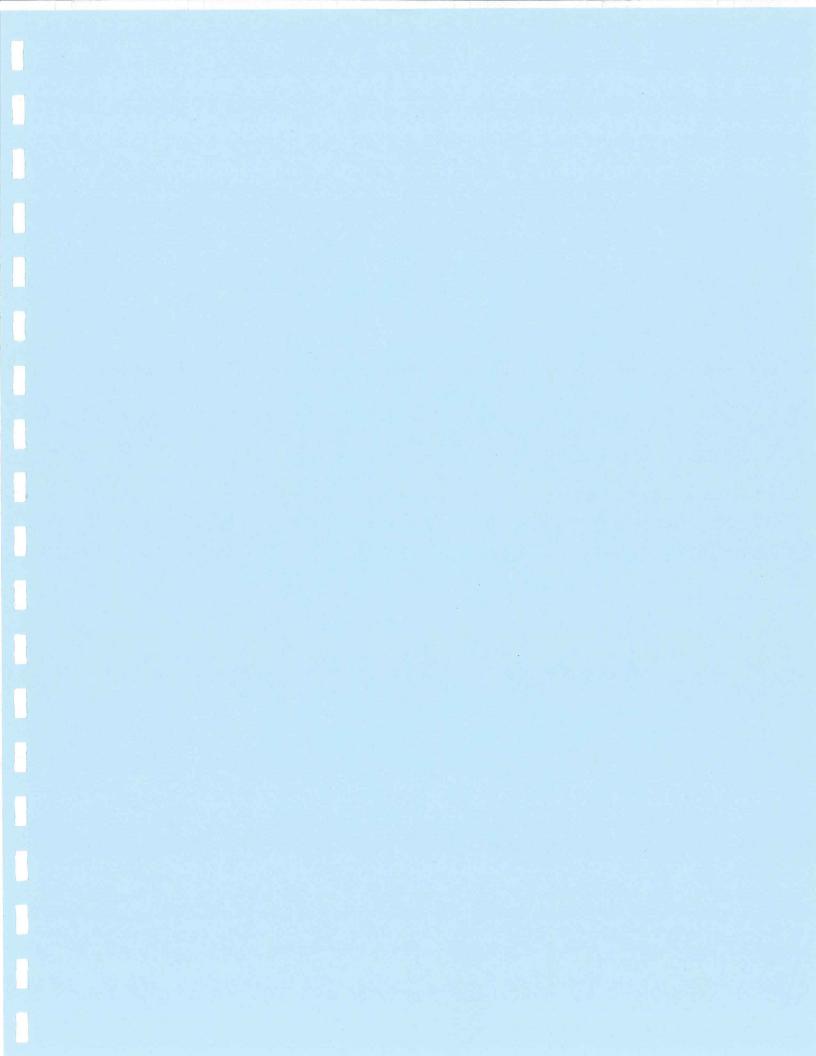
स्था जुल्ली

3

	Consult	ing Geot		R, NEW YORK Engineers, cologists		TEST PIT REPORT	FILE	TEST PIT NO. TP# 30
PROJECT LOCATIO CLIENT: CONTRAC	: NC	11		-6			ELEV	rion: South of Paddle boat House Action: Not Surveyed DRATION DATE: 12 Jan 200 REP.: R. Dedrick
	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA CHANGE		· DESCRIPTION	OF MATERIALS		REMARKS
- 2 -	Obtained by Labella Assextates		0.3 FH 1.0 FH	Light brown Some sill	p of pil	Stone to coarse SAM		O Encountered racks approximately 20 ft in Fron river wall
								SUMMARY
	raw .	ER LEVE	<u>.</u>	AP!	PROXIMATE PIT	DIMENSIONS AT SURFACE		
DA		TIME*	9.5f	LENGTH 20	feet	WIDTH 15	feet	DEPTH: 9,5 FT JAR SAMPLES: -
12Jar	100	30min	1000	,		BOULDERS		BAG SAMPLES: -
				8" to 18" D	IAMETER: No.	Ø = Vol.	cu ft	WATER LEVEL: 9.55
	Hre afte	er compl	eced	Over 18" D	IAMETER: No.	Ø = Vol.	cu ft	TEST PIT NO. TP# 3

TEST PIT NO TP#36 HEA OF NEW YORK, ROCHESTER, NEW YORK TEST PIT REPORT Consulting Geotechnical Engineers, FILE NO. Geologists and Hydrogeologists LOCATION: Southwest of Paddle hart PROJECT: LOCATION: ELEVATION: Not Surveyed EXPLORATION DATE: 13 Jan 2000 CLIENT: CONTRACTOR: HEA REP. : R. Dedrick EQUIPMENT USED: SAMPLE REMARKS DESCRIPTION OF MATERIALS SAMPLE DEPTH STRATA IN NUMBER RANGE CHANGE FEET Concrete Foundation O Strata Change Crushed Stone / Asphalt Mixture 0.75+ € 5.0 Ft 15 even with top ex Brown fine to coarse SAND. Some silt. Sheetpile en Trace coarse growel, Most. dundmen anchor Samples Taken 5,0 ft Dark brown grey sitty fine to coarse SAND. Some coarse gravel. Little combles. Concrete debris. Located Tie-roel/Bottom of excher BOE = 10.0 ft 10.05+ 10 12 -SUMMARY APPROXIMATE PIT DIMENSIONS AT SURFACE WATER LEVEL DEPTH: 10.0 FH DEPTH FT DATE TIME* WIDTH 15 feet LENGTH 20 feet JAR SAMPLES: -9.5 ft 12 Jan 00 30min BAG SAMPLES: -BOULDERS WATER LEVEL: 9.5 8" to 18" DIAMETER: No. 204 cu ft = Vol. TEST PIT NO. TP# 36 = Vol. Over 18" DIAMETER: No. * Hrs after completed

	Consul	ting Geo	, ROCHESTER technical En	ngineers,		TEST PIT REPO	RT	FILE 1	TEST PIT NO. TP#4
PROJEC LOCATI CLIENT CONTRA EQUIPA	T: ON:		, 3				e e	ELEVA'	ion: North of puddlebox house fion: Not Surveyed ration date: 13 Jan 99 EP.: R. Dedrick
CALE IN PEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA CHANGE		DESCRIPTION	OF MATERIALS			REMARKS
- 2			4.0	debris.	Top of	o Coarse e collibles	SAND. Brick		O Located north of paddleboat house at intersecti of 2-deadmen, anchors.
	WA	ATER LEVE	L L	AP	PROXIMATE PIT	DIMENSIONS AT	SURFACE		SUMMARY
Di	ATE	TIME*	DEPTH FT	LENGTH	feet	WI	DTH feet		DEPTH: Left before Completion JAR SAMPLES: -
						BOULDERS			BAG SAMPLES: -
				8" to 18" D	IAMETER: No.	= Vol.	cu ft		WATER LEVEL: -
		er compl	ered	_	IAMETER: No.	= Vol.	cu ft		TEST PIT NO. TP#4



300 STATE		P.C.			TEST PIT # / PROJECT # 99.50 DATE: 05
ROJECT: LOCATION CLIENT:	Part Dalking	lot e	P.D. TURN TABLE	ELEVATION:	
	ron: Hicko	ry Hills BACK-HOE		LABELLA REP:	DEA
SCALE		SAMPLE			
111	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS		REMARKS
PEET 1	NUMBER	RANGE	- Chartop Res/Black Cinoras Misc. Fil	27	Šv G
2		-	MED/COURSE BROWN SAND		. O
4			TITLUS - RAIROR TIES		0
5			WATER TUTILITION (ARCHER?/ACTUAL?)		0
7					
9	-27				
10					-
13					
1	WATER LEVE	1	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		
ATE	TIME*	DEPTH	WIDTH X LENGTH=		
Hrs. after	rcompletion				TEST PIT #1

2 3 MED GANEL TERCUED 7/ACTUAL GLA 5 5	3ELLA A	ASSOCIATES, STREET	P.C.			TEST PIT # Z PROJECT # 99150 DATE: 2 29 00
NITRACTOR: EQUIPMENT: BACK-HOE SAMPLE DESCRIPTION OF MATERIALS REMARKS	LOCATION				ELEVATION:	
EQUIPMENT: BACK-HOE SAMPLE SAMPLE DEPTH DESCRIPTION OF MATERIALS FEET NUMBER RANGE BIRKERD TES STIL/SMAL WITH QUANTE STRINDING GW - TREMA TO STRINDING GW - TREMA TO STRINDING GW - TREMA TO STRINDING GW - TREMA		TOR:			LABELLA REP:	OE)
CALE NIN SAMPLE DEPTH DESCRIPTION OF MATERIALS REMARKS PEET NUMBER RANSE BIRDERD 1 COPY NED/COURL SOUR 1 REDUED 7/ACTORL GLO 5 STANDER GLA - TREM 9 10 11 12 13	-		BACK-HOE			
PEET NUMBER RANGE BIRDERD TED STIN SOME WITH QUINTS 1 STANDAR GLU - TREM 6 STANDAR GLU - TREM 10 11 12 12 13			SAMPLE			
BINCKED TO STANSON WITH GAND STANSON MED/CARCE SOUR ONE GANEL TERRUPS 7/ATTORL GAS STANSON GAS - TERM O 10 11 12 13	· IN	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS		REMARKS
2		NUMBER	RANGE	Unally n		
3 4 5 5 7 8 10 11 12	1_1_			SIRY NED/COUSE SOUD	2002	O .
5 STANDING GLU - TERM 6	1					6
6 7 8 9 10 11 12	4			PERCUED?/ACTUAL GIO		C .
7 8 9 10 11 12				STANDING GW - TERM		
9 10 11 12 13						
10 11 12 13	8					
13	50					
13	11	-		· · · · · · · · · · · · · · · · · · ·		
		-			¥	* :
	13			ARRONIULATE TEST DIS DIVISIONIO AT OLISEA OF	+	
ATE TIME DEPTH WIDTH X LENGTH =	ATE .	TIME*				*
			-			
TEST PIT #1	des =8-	a completion				TEST PIT #1

BELLA ASSOCIATES, P.C.		TEST PIT # 3
300 STATE STREET		PROJECT # 99150 DATE: 2/52/00
ROJECT:		DAILADAG
LOCATION:		ELEVATION:
LIENT:		
ONTRACTOR:		LABELLA REP:
EQUIPMENT: BACK-HOE		
SAMPLE SAMPLE DEPTH	DESCRIPTION OF MATERIALS	REMARKS
FEET NUMBER RANGE		
1	DES 9#/Sound W/GrAVED	
	Braws/gray sout	0
2		NO COV
3		ð · ·
4		No oca
5	• • • • • • • • • • • • • • • • • • • •	σ
6	zone gravel Zurung S Aud / GN	
8		0
9		
10		
12		
13	-	
WATER LEVEL	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE	
ATE TIME DEPTH	WIDTH X LENGTH= .	
	-	
	-	
Hrs. after completion		TEST PIT #1

ABELLA A	SSOCIATES, STREET	P.C.				TEST PIT # 4- PROJECT # 99/50 DATE: 2/28/00
PROJECT: LOCATION CLIENT: CONTRACT					ELEVATION: ABELLA REP:	DED
EQUIPMEN	π:	BACK-HOE				
SCALE		SAMPLE				DEMARKS
IN	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS	l		REMARKS
FEET	NUMBER	RANGE	Blockfup			
1 2			white owe? MIST Still Some OIVE Stag /SURV oca		000,	0
3			Brown ned south // LANE OF 5 ing (double) I			0
5			- showing the C -		ocar 1	0
6					1	G
8						
9						f 4
11				: E	4	~
12						•
WATER LEVEL		FI.	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE			
DATE	TIME	DEPTH	WIDTH X LENGTH =			
						•
]	1				TEST PIT #1
e Hrs. afte	r completion					

3.

BELLA ASSOCIATES, P.C. 300 STATE STREET	TEST PIT # 5 PROJECT #97150 DATE 2 2 06	
OJECT: LOCATION: JENT: ONTRACTOR:		ELEVATION: LABELLA REP:
CALE SAMPLE IN SAMPLE DEPTH	DESCRIPTION OF MATERIALS	REMARKS
	GRASS 51H/SOUL SOME growel Brown SOUD	xv odor
2 3 4 5	Sith South Some chay	
7	oca)	C
10	Fire some graves. Some sources	
12		
WATER LEVEL MATE TIME* DEPTH	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE WIDTH X LENGTH =	
Hrs. after completion		TEST PIT #1-

Bee Atie
TE PERSONAL SERVICE
人人是不是
NA TONE
N. A.

			TEST PIT # 6
BELLA ASSOCIATE	S, P.C.		PROJECT # 99150
300 STATE STREET			DATE: 2/28/Cb
			DATE. CATACOTEC
ROJECT:			
LOCATION:			ELEVATION:
JENT:		·	
ONTRACTOR:		±	LABELLA REP:
EQUIPMENT:	BACK-HOE		
SCALE	SAMPLE		
IN SAMPLE	DEPTH	DESCRIPTION OF MATERIALS 3C CATTIN	REMARKS
FEET NUMBE			
- Land		GrAS5	
1		RED of H GRAVE	**
		W12C · 8:11	
		Blue "suffer locks"	
		MSC FILL	
1		11130 1113	
3			
		Tene 4' DUE. TO SLAG	
4		Banker To lad (suda)	
		misr, white "slag" (smple)	
5			
1			
6			
		'	
7			
			*
8		и в	
1 1			
9			
1 . 10			
1 .			1
11	1	* *	
12			
1 13			
WATER LEVEL		APPROXIMATE TEST PIT DIMENSIONS AT SURFACE	4
NATE TIME		WIDTH X LENGTH=	
		,	
* Hrs. after complet	lon		TEST PIT #1

BELLA A	ASSOCIATES, STREET	P.C.			TEST PIT # 7 PROJECT # 961.50 DATE: 2/29/4
ROJECT:				ELEVATION:	
LOCATION	l:			LEEUWIIOW.	
LIENT:				LABELLA REP	:
ONTRAC		DACK HOE			
EQUIPMEN	VI:	SAMPLE			
SCALE	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS		REMARKS
FEET	NUMBER	RANGE			
1 2	NUMBER		Blue slag	soldre dan	Ö
3_4			Misc Fill-Beich /Steg/cene - Shall LANGON Sample		` O
5		٠	- H ₂ C -		0
7			_ misc. Fill	\	. 6
8	-		,		e de la companya de l
10					
12					*
13	MATERIA		APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		•
1000	WATER LEV	DEPTH	MARONII V. I FAIOTIL—		,
MTE	TIME*	DEPTH	WIDIH X LENGTH=		
	er completion	1			TEST PIT #1

ELLA AS	SOCIATES,	PC		TEST PIT A	
300 STATE S				PROJECT	1991,50
300 SINIE C	JINCE!			DATE:	# 99150 2 28 00
DJECT:		****	4		•
LOCATION:				ELEVATION:	
ENT:					
NTRACTO	OR:		e _	LABELLA REP:	
EQUIPMENT		BACK-HOE			
CALE		SAMPLE			
. IN	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS	REMARKS	6
FEET	NUMBER	RANGE			
1			Sersi MISC. Fill - Stag (Brick) 	sella occe	O
3			chall Five ASH/SH?		ð
4			Slag. Mer. FICE		
5			SW C		0
6		,			<i>O</i>
8					
0				•	
10					,
12					
	WATER LEV	ÆL.	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		
TE .	TIME*	DEPTH	WIDTH X LENGTH =		
rirs. after	completion			TEST PI	Τ#1

BELLA ASSOCIATE 300 STATE STREET	PROJ	PIT # 9 ECT # 99150 TE: 2 28 050		
OJECT:			ELEVATION:	
LOCATION:		*		
- IENT:		a a	LABELLA REP:	
NTRACTOR: EQUIPMENT:	BACK-HOE			
DCALE	SAMPLE	,		
IN SAMPLE		DESCRIPTION OF MATERIALS	REM	ARKS
FEET NUMBER	1			
2		SOMES SOMES SIARS - FILL /MISC. + Blue 5/483	Sulfue	O
5		A5H (SANGED)	Sulfue	С
7 8 9 10		- STANDAY WATER (NO Sheen)		c c
11 12 13 WATER I		APPROXIMATE TEST PIT DIMENSIONS AT SURFACE WIDTH X LENGTH=		
Hrs. after completion	n		TE	ST PIT #1

BELLA AS	SSOCIATES, I	P.C.						TEST PROJI DAT	PIT# 10 ECT# 99156 TE: <i>A ball</i> ao
OJECT:								ELEVATION:	
LOCATION:								CCC WITTON.	
JENT:								LABELLA REP:	
MTRACT		BACK-HOE							
CALE	1:	SAMPLE							
IN	SAMPLE	DEPTH		D	ESCRIPTION	OF MATERIALS		REM	ARKS
FEET	NUMBER	RANGE	ANEMPT 1	2	3	4			
1	NOMBER	101102	soursill	GRASS GRASO / SHH SAG-1052/Blue	Grass Gnoved Cour.	GONES SILL ? ITIL		sulfin	O
3			Cope-51000	Longe Tong 3	-	Black custors fill			
5	·		CPX.	1////11		dunz unad		No	0
7	,				,	Glay F. SAW - Frem Brown saws			б
9	_								
10			*	90					d
12					¥	HAM SOND/TILLAYER			6
13						HM) SOND/TULLAYER			
The state of the s	WATER LEV	EL.		APPROXIM	ATE TEST P	IT DIMENSIONS AT SURFACE	EN		
NTE .	TIME*	DEPTH	WIDTH >	(LENGTH =	7				
					U		4		
. dos afte	er completion							J TES	ST PIT #1

UBELLA AS	SSOCIATES, STREET	P.C.	•	PROJE	PIT# CT# qq/s0 =: 2/26/00
ROJECT: LOCATION: LIENT:				ELEVATION:	
ONTRACT	OR:		-	LABELLA REP:	
EQUIPMEN	Τ:	BACK-HOE			
SCALE		SAMPLE		REMA	DVC
IN	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS	KEMA	MO
FEET	NUMBER	RANGE	C		
1			SIL/SAND BROWN (SOME BODITS/CONC. SOIDS)	OCEY 1	U
3					
4					o
6		4			D
7 8					ð
9					
10			Growy self (Dourse) /Clay		C
12					O
, 13			V		
	WATER LEV	EL.	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		,
MTE	TIME*	DEPTH	WIDTH X LENGTH =		
	-	-	-		
			-	7500	PIT #1
- Hrs. after	r completion			1 (E3)	111 111

SELLA A	SSOCIATES,	P.C.		TEST PIT # IZ
300 STATE				PROJECT # 9915
300 31716	OTTLET	ē	V V	DATE: 228 CVS
OJECT: LOCATION IENT: INTRAC	:	ų.		ELEVATION: LABELLA REP:
EQUIPMEN	π :	BACK-HOE		
CALE		SAMPLE	THE PROPERTY OF MATERIAL C	REMARKS
, IN	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS	,
3 3 4 5	NUMBER		Ganss Brick/Alek Flag. Misc. Stag Misc. Fill Stag Brick Brick Brick Brick Brick Brick	
9				
10				
12	-			
13	WATER LEV	<u> </u>	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE	
ATE	TIME*	DEPTH	WIDTH X LENGTH=	á
	7 (11)		,	
		<u> </u>	-	TEST PIT #1
[Hrs. aft	er completion		1.	(ESTPILE)

ABELLA ASSOCIATES, P.C.					TEST PIT# /3		
300 STATE	300 STATE STREET				PROJECT # 99/50		
					DATE: 2/29/00		
ROJECT:				ELEVATION:			
XLIENT:	٠.						
CONTRAC	TOR:			LABELLA REP:			
EQUIPME	NT:	BACK-HOE					
SCALE		SAMPLE			5544546		
1/1	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS		REMARKS		
FEET	NUMBER	RANGE	Genrel/sub-base				
. 4			u / \ damid	NC-	0		
1			silf/sand of grown	NG			
1 2			FIRM DEUSE WARD fine Soul	1			
3			Brick Coux.		6		
			Granu sour	İ			
4	1		(1000)				
5							
	1				0		
6							
1							
7	-			\			
1			Back Cindens				
8	-						
9				-	`		
	1 .		MITITITE CONX. Slob.	J .			
. 10							
			¥				
	-						
1							
12	-		,				
, 13							
15	WATER LEVI	EL	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE				
DATE	TIME*	DEPTH	WIDTH X LENGTH=				
		 					
		1			TEST PIT #1		
Hrs. afte	er completion			1	ILGI FILWI		

3ELLA A	SSOCIATES, I	P.C.		PRO.	PIT# 14 NECT# 99156 NE: 2/24/13
ROJECT: LOCATIONIENT: DNTRAC	TOR:			ELEVATION: LABELLA REP:	TE: ¿(IoCILI)
EQUIPMEN	m:	BACK-HOE			
SCALE IN	SAMPLE	SAMPLE DEPTH	DESCRIPTION OF MATERIALS	REM	IARKS
FEET 1	NUMBER	RANGE	Shovel - sub-base. Misc. Fu (Sugh gravel, Smis, Brid)	ring ogs	U
2				sulfue oder	v
3 4					o
5	di:	ø.			C
8	e e	ti	STADING WATER		
9					y. or
11			* '. · · · · ·		
12					ie.
13	WATER LEV	 B	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		9
MTE	TIME*	DEPTH	WIDTH X LENGTH=		
10 Uce =0	er completion			TE	ST PIT #1

VBELLA ASSOCIATES,	P.C.			TEST PIT # 15 PROJECT # 99150 DATE: 2/89/00
ROJECT: LOCATION: LJIENT: ONTRACTOR:				ELEVATION: LABELLA REP:
EQUIPMENT:	SAMPLE			
IN SAMPLE	DEPTH	DESCRIPTION OF MATERIALS		REMARKS
FEET NUMBER	RANGE	GENUTY SUB-BADE		
2		THE CAN Ship		
3		Sit/sour grand (gill) ITTE COLX. State Misc. Stag. (White - Sample) (IRUN - SAMPLE)		
4		(100) - 34/4-1		
_ 5				
6				
8			,	
9		420		
10				
12				
13				
WATER LE	DEPTH.	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE WIDTH X LENGTH =		
TIME TIME	111.			
, 'Hrs. after completion				TEST PIT #1

THE A ACCOUNTED BY	1	TEST PIT # 16
BELLA ASSOCIATES, P.C.		
300 STATE STREET		PROJECT #99/50 DATE: 9/29/00
OJECT: LOCATION: DENT: NITRACTOR:	ELEVATION:	
EQUIPMENT: BACK-HOE		,
CALE SAMPLE SAMPLE		REMARKS
IN SAMPLE DEPTH DESCRIPTION OF MATERIALS		, t.a
FEET NUMBER RANGE		
Gass 511/2000	Sulla	U
misc, strag		
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		,
5		
I do do (, , d		o
silty day (NATIVE)	NS 009/	
11		6
12	V	
13		-
WATER LEVEL APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		
WIDTH X LENGTH =		
' 		
Hrs. after completion		TEST PIT #1

BELLA ASSOCIAT			TEST PIT # / PROJECT # C DATE: 2/a	9150
OJECT: LOCATION: JENT: DITRACTOR:	DACK NO.		ELEVATION:	
CALE IN SAMP	1 1	DESCRIPTION OF MATERIALS	REMARKS	
FEET NUMB		LED BLOWD 2005/21/H CEURS	NO	0
3		Gray Blue day (51Hy)		0
6				O
9				o
11 12		V		
13		ADDROGUMATE TEST BIT DIMENSIONS AT SURFACE		
ATE TIM	R LEVEL ME* DEPTH	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE WIDTH X LENGTH =		·
Hrs. after comple	etion		TEST PIT	FI

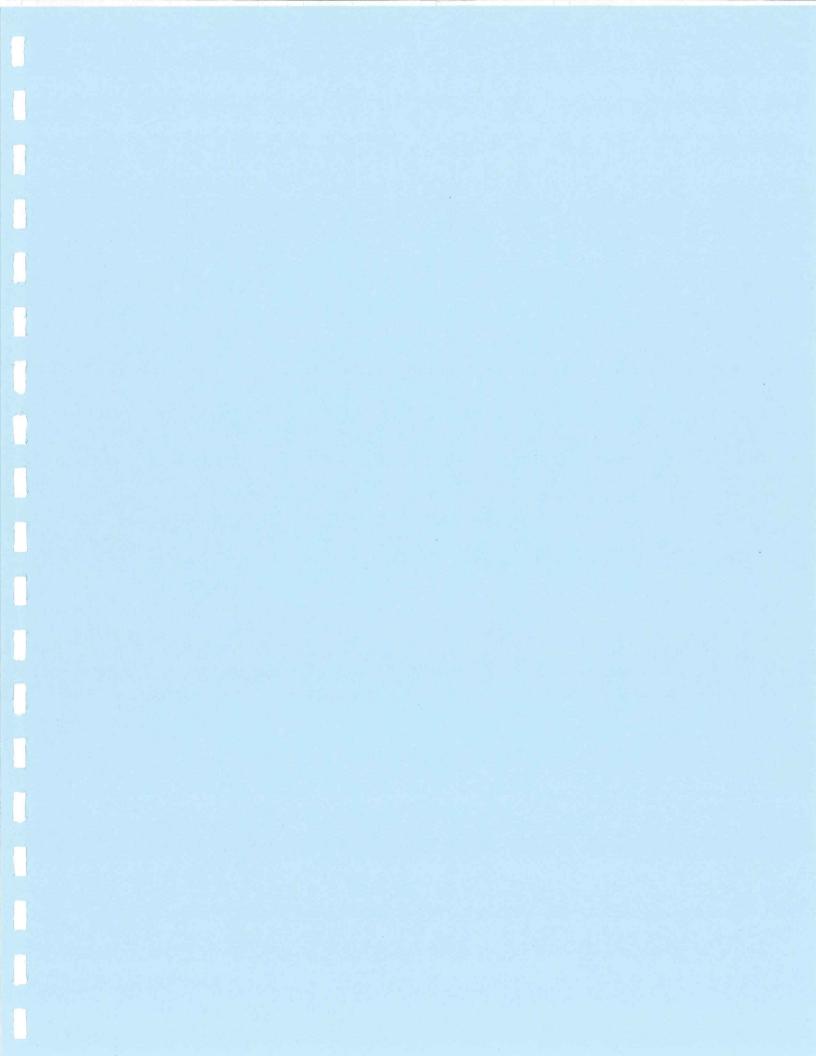
JELLA ASSOCIA	ATES, P.C.			TEST PIT # 18
300 STATE STREE			,	PROJECT # 9915
				DATE: 2/29/00
OJECT:				
LOCATION:			ELEVATION:	
JENT:			LADELA DED:	
INTRACTOR:		* *	LABELLA REP:	
EQUIPMENT:	BACK-HOE			
CALE	SAMPLE	DESCRIPTION OF MATERIALS		REMARKS
IN SAM	1	DESCRIPTION OF WATERIALS		
FEET NUMI	BER RANGE	Grand		
1		Grand 514/5DD - Grand		0
2		Mix. stag white, blue, geen	Sulfue	
3			1	σ
4				
5				
6		STAND. WATER -		. 0
7				
8		. ,		eř.
9				
10	*			
12				
13				
. 1	R LEVEL	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		
ATE TI	ME° DEPTH	WIDTH X LENGTH ≈		
		1		
		1		
"Hrs. after compl	letion	1		TEST PIT #1

	SSOCIATES,	P.C.		TEST PIT # 19 PROJECT # 99 158
300 STATE	STREET		,	DATE: Z/ZG/QU
COJECT: LOCATION JENT: CHITRAC	: TOR:			ELEVATION: LABELLA REP:
EQUIPMEN	π :	BACK-HOE		
SCALE	entel E	SAMPLE DEPTH	DESCRIPTION OF MATERIALS	REMARKS
IN FEET	SAMPLE NUMBER	RANGE	DESCRIPTION OF THE PROPERTY OF	
1	Nomber		Ganss silt sout	
3				
4			- Dewse stag - white/alue 	
5			STAND. WATER - SOME Shear	
7				
8				,
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11			e	
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L	WATER LE		APPROXIMATE TEST PIT DIMENSIONS AT SURFACE	
DATE	TIME	DEPTH	WIDTH X LENGTH = .	
A CONTRACTOR OF THE PARTY OF TH			-	TEST PIT #1
Hrs. aft	er completion			1 (COLLINE)

20144	CCOCIATES	n.c		TEST PIT # 2	S
	SSOCIATES, I	P.C.		PROJECT # 9	150
300 STATE	SIREEI		4	DATE: 2/2	
DJECT:				ELEVATION:	
LOCATION	:				
iENT:				LABELLA REP:	ĺ
	TOR:	DACK HOE			
EQUIPMEN	11:	SAMPLE			
CALE	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS	REMARKS	
IN		RANGE	DESCRIPTION OF THE MEASURE		
FEET	NUMBER	KANGE	SPASS		
			SUASI / Jeans / Teperail	No	0
. 1			RED CLUSE SOUR -WASTE Fil	Ocoq	
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3					6
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/ 4					
1			4		
5			Brown silt/FINE SAUD NO SLAG (Rocks)		
			SIAG (Routs)		C
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	WATER LEV	EL	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		
ATE	TIME*	DEPTH	WIDTH X LENGTH=		
7.2					
, Hrs. afte	er completion			TEST PIT #1	

DELLA A	SSOCIATES,	P.C.			TEST PIT # 21
		r.o.			PROJECT #99150
300 STATE	SIRECI				DATE: 2/29/00
OJECT:			,	ELEVATION:	
ENT:	~oo.			LABELLA REP:	
NTRAC		BACK-HOE			
EQUIPMEN	VI:	SAMPLE			
CALE	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS		REMARKS
FEET	NUMBER	RANGE			
1	, come		Black top 2" Gray MED/GUZ= SOUD	ody	<i>0</i>
2			sample - create ator	crease	C
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6			17711 5100	g . , t o	6
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	WATER LEV	EL.	APPROXIMATE TEST PIT DIMENSIONS AT SURFACE		
ATE	TIME*	DEPTH	WIDTH X LENGTH = .		*
L	-		-		
			-		TEST PIT #1
Hrs. aft	er completion				

BELLA ASSOCIATES, P.C. 300 STATE STREET	PRO	ST PIT # 22 DJECT # 99 <i>5</i> 2 DATE: 2/29/02
LOCATION: JENT: JOHECT: LOCATION: JOHECT: J	ELEVATION:	
FQUIPMENT: BACK-HOE CALE SAMPLE IN SAMPLE DEPTH DESCRIPTION OF MATERIALS	RE	MARKS
FEET NUMBER RANGE GORZ SH/SAND SILL 2 m13c. shag Tong - Dive / white 5 TITLE CONC/ Shag lajer - Hoe BAN	Sulfar	
WATER LEVEL APPROXIMATE TEST PIT DIMENSIONS AT SURFACE ATE TIME® DEPTH WIDTH X LENGTH =		
* Hrs. after completion	Т	EST PIT #1



TEST BORING REPORT

BORING NO.

									70010 000	
PROJECT		PORT OF RO						FILE NO.	70819-000	
LOCATIO	N .	ROCHESTER	R, NEW YOR	RK			PROJ	ECT MGR.	M. VALEN	
CLIENT		LABELLA A					FIELD	REP.	R. DEDRIG	CK
CONTRAC	9.9	GEOLOGIC I					DATE	STARTED	23-May-00	
DRILLER		L. TODD					DATE	FINISHED	23-May-00	
DKILLER										
Elevation	251.	B ft Dat			oring Location		ring Location Plan		T ₁	Drill Mud
Item		Casing	Sampler (3010 2001111	ig Make & M		5 - Truck Mount	lvv		Bentonite
Туре		HSA	SS		Truck	Tripod	Cat-Head	Hammer		Polymer
Inside Diam	ieter (in)	3-1/4	1-3/8		ATV	Geoprobe	Winch		afety	
Hammer W	eight (lb)		100	Children and Children	Track	Air Track	Roller Bit		oughnut	✓ None Driven Spun
Hammer Fa	all (in)			有人的编写	Skid		Cutting Hea	nd Casing		Driven spun
	Casing	Sampler	Sample	Sample Dep	Stratum		Vieual Cle	ssification and F	lemarks	
Depth (ft)	Blows per ft	Blows per 6 in	Number & Recovery	(ft)	Change (ft)		V ISUAI CIA			
	11	ın	Recovery		(11)					
- 0 -	***************************************	And industrial ways and the second A was to second the second	The same of the sa					CONCRETE		
						V J blook	prown gray silty fine	to coarse SAND	some rock frag	oments
		26 26	S1 -10"/12"	1.0	.0	dry				
		9	S2	2.0		Medium dense bla	ck brown silty fine to	o coarse SAND, se	ome rock fragn	nents,
		10				moist.				
		18	12"/24"		.0					
		4	S3	4.0			ck brown yellow, sili	ty fine to coarse S	AND, some ro	ck
5		8				fragments, wet.				
		5	7"/24"		.0			and the same of th		
		7	S4	6.0		Same.	d all die geweine de lee van die de george verwaar van de make de geveelde de de geveelde			
1	~~~	17						FILL		
		18	10"/24"		.0			American American aprilia residente de la composição de l		***************************************
		100/.2	S5	8.0		Very dense bla	ack brown silty fine t	o coarse SAND, s	ome rock frag	ments.
	graphical and the control of the control of			8.2			Ol	ostruction at 8.0 ft		
					make a standard or store of the standard or standard	See Boring HA-10	Na			
10										
1	y account wine, but the summarise of					(HA-101a offset 3	0' West of Original I	Location)		
1	V 40/20/20/20 4/1/20/20/20/20/20/20/20/20/20/20/20/20/20/									
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30 =		1	I I P			Sar	nple ID	1	Summai	гу
	_	Water Elapsed Tim	Level Data	f Bottom	f luc	O Open En	Rod	Overburden (Lin	near ft) 11:	
Date	Time	(hrs)	Casing (ft	and the same and the same	I water (I	T Thin Wal	1 Tube	Rock Cored (Lin		,
							on Sample	Number of Sam		The second secon
						S Split Spo	on Sample	BORING N	Ю.	HA-101

TEST BORING REPORT

BORING NO.

HA-101a

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											ige 2	of	5
PROJECT		PORT OF RO	CHESTER					H&A FILE N	O.	70819-00			
LOCATIO		ROCHESTER	NEW YORK	ζ.				PROJECT M	GR.	M. VALI	ENTINE		
CLIENT		LABELLA AS						FIELD REP.		R. DEDF	UCK		
CONTRAC		GEOLOGIC E		9			•	DATE START	ГED	7-Jun-00			
DRILLER		L. TODD	ATTEN ROL					DATE FINISI	HED	7-Jun-00			
DRILLER													=
Elevation	251.8				ng Locatio		ring Locatio	n Plan	-		Drill M	nd	-
Item		Casing			Make & M Fruck	Tripod	✓ Cat	-Head I	Hammer	Tyne:	-	Bentoni	ite
Туре		HSA	SS		ATV [Geoprobe		-	✓ Sa			Polymer	
Inside Diam Hammer W		3-1/4	1-3/8			Air Track	The same of the sa	ler Bit		oughnut		None	
Hammer vv Hammer Fa				STORY SHOW SHOW	Skid		Cut	ting Head	Casing		Driven		Spun
Hammer Pa	Casing	Sampler	Comple	CALL SAND SINGS	Stratum								
Depth (ft)		Blows per 6	Number &	Sample Depth (ft)	Change		Vi	sual Classificati	on and R	emarks			
	ft	in	Recovery	(1.9)	(ft)								
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						and the special of the special		Augered t	10 3.0 11.				
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5		5	S6	5.0		Loose gray brown	fine to medi	um SAND, trace	silt, organ	nics, moist.			
		3						ALLU					
		3	14"/24"	7.0		the state and the state of the state and the state of the		ALLU	VIUM				
			14 /24	7.0									
								Augered to	o 10.0 ft.				
			Application in the control of the co		Anne promise transmit in American	The state of the s							
				.,									
10		4	S7	10.0		Same, except wet.	.,			V			
		4											
		3	16"/24"	12.0				hydrography and the second					Annual
			10 724	12.0									
		***************************************					**********						
	Company of the St. Commission					The Art of					and the second state of the second and the second a		
15		1-1	S8	15.0		Medium dense gra	y brown fin	e to coarse SANI), some co	oarse gravel	, wet.		
1		9											
		7 7	23"/24"	17.0	***	and the same of th							
			20 721										
			***						~				
		**************************************	~~~~										

20		<u> </u>	S9	20.0	***	Same.							
1		10	****										
		11 14	20"/24"	22.0									
	or hands of the found of solid profession and design												
1	was retried business across Passel of Secretary												
		A STATE OF THE STA					7						
25 —		12	\$10	25.0	****	Same, except loos	e.						
		3 4											
		3	20"/24"	27.0									
	-							***************************************					
20							**************************************						
30						0	nla III			Summ	arv	-	
		Water Elapsed Time	Level Data Bottom of	Bottom of		O Open Eng	iple ID Rod	Overbu	rden (Line		15		
Date	Time	(hrs)	Casing (ft)	Boring (ft)	Water (ft)	T Thin Wal	Tube	Rock C	ored (Line	ear ft)	00		
							ed Sample on Sample	Commence of the Commence of th	r of Samp		8S	101-	
	-	-				G Geoprobe	oampie	ВО	RING NO	υ,	HA-	101a	

TEST BORING REPORT

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Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		9	SII	30.0		Loose gray brown silty fine to coarse SAND, trace gravel, wet.
		4 4	personal pay plays denied by I many a relational personal			ALLUVIUM
		3	22"/24"	32.0		
			(Control 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 191			
35				0.5.0	*************	Same, except very loose.
		2	S12	35.0	-	Daille, except very toose.
	a seminari de destrucción está está del minima.	2 2	23"/24"	37.0		
			23 724	37.0		
	Edglish de Constitution de La de Constitutio				Address, sensores and address than the first	
— 40 —		1	S13	40.0		Very loose gray brown fine sandy SILT, little clay, organics, wet.
		1 2				
	- the start and address of the three designs from the	3	22"/24"	42.0		
		Wayaraniwiarin's area are		****		
— 45 —		1	S14	45.0		Same, except no organics.
	and speed from the spherical and subtraction	2				
		2	18"/24"	47.0		
				*		
50						
<u> </u>		1 2	S15	50.0		Same.
	·	2				
		2	20"/24"	52.0)	
	The same and the same of the s					
	- And the state of					
55	+	-	S16	55.0		Same.
		2 3				
			20"/24"	. 57.0	Ď	
		A transport and a second size and the state of the second second sec	A second of second seco			
			-			
60			S17	60.0		Loose gray brown SILT, little clay, trace sand, wet.
		3				
		4	20"/24"	62.	0	
65						
05		1 2	S18	65.0	-	Same.
		2	A			
			4 23"/24"	67.		
						(Augered to bedrock)
	-					
		1	1	1		FILE NO. 70819-000 BORING NO. HA-101a

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						Page 4 01 5
Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
				, and the same of particular and the same and the same of the same	***************************************	
		AVET FOR THE STATE OF THE STATE				
						(Augered to bedrock - No samples recovered)

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Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification a	and Remarks				
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		and the local control of the last transfer to	A COMPANIAN AND A STATE OF THE STATE OF				en de la companya de La companya de la co	A CONTRACTOR OF THE PARTY OF THE	A		and the same
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					and to serve work in which	(Encounter Change in drilling condtions	والمعاديد والمعادي والمستحدث والمستحدث والمستحدث والمستحدد	tento e tour tour tour			
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### TEST BORING REPORT

BORING NO. **HA-102** 

ALDI	CICII		Д					L P				De	ige	1 of 2
		none ==	O							HP. A DIT E	NO.	70819-00	-	~ UI #
PROJECT		PORT OF RO							_	H&A FILE		M. VALI		7
LOCATIO	ON	ROCHESTER							_	PROJECT N				3
CLIENT		LABELLA AS								FIELD REP		R. DEDR	_	
CONTRA	CTOR	GEOLOGIC E	NTERPRI	SES					_	DATE STAI		30-May-0		
DRILLER	t	L. TODD							_	DATE FINIS	SHED	30-May-0	)0	
Elevation	253.	5 ft Date	um Cit	v	Bori	ng Locatio	n See Bo	ring l	Locatio	n Plan				
Item	2001	Casing				Make & M		5 - T	ruck M	ount			Drill N	
Туре		HSA	SS	NX	V T	ruck [	Tripod	1	Cat	-Head	Hamm	ier Type		Bentonite
Inside Dian	neter (in)	3-1/4	1-3/8	2		ATV [	Geoprobe		Wi	nch	V	Safety		Polymer
Hammer W	eight (lb)		140		[ ]	Frack [	Air Track		_	ller Bit		Doughnut	V	None
Hammer Fa	all (in)		30			Skid [			Cut	tting Head	Casing	<u> </u>	Driver	Spun
	Casing	Sampler	Sample	Sample De	pth	Stratum			1/:	sual Classifica	tion and	l Damarks		
Depth (ft)	Blows per ft	Blows per 6 in	Number & Recovery	(ft)		Change (ft)			Y 1	Suai Ciassilica	tion and	1 Kemarks		
	- 11		Recovery		+			-						
— 0 —		28	S1	0.0			Medium dense bro	wn a	nd blac	k silty fine to co	oarse SA	ND, little rock	fragme	nts,
		19					dry.			F	ILL			
		14	16"/24"		2.0									
		9 8	S2	2.0			Medium dense bro	wn s	ilty fine	to coarse SAN	D, trace	coarse gravel,	агу.	
		8 6												
	***************************************	5	14"/24"		4.0	,	Same, rock obstru	ction	in bott	om of spoon				
		5	S3	4.0			Jame, rock obstru		00110	om or apoon.				
<b>—</b> 5 —		3												
		3	2"/24" S4	6.0	6.0	6.0	Loose gray brown	fine	to coars	se SAND, wet.				
		2				.,				ATTY	JVIUM			
		3	15"/24"		8.0	****							*******	
		4	S5	8.0	0.0		Medium dense gr	y bro	wn fin	e to coarse SAN	D, som	e gravel, wet.		
		18												
		17	17"/24"		10.0									
10 —		22	S6	10.0			Very dense brown	fine	to coar	se SAND, mois	t	-		
		48	******				A place described to the order of the Technology of the Control of							
		45	2"/24"	And the same of th	12.0									
						rate year land or since the since of the service.								
							a digan anggan ang In anggan an	**********						
						***								
15			TATALON SANTANASAN AND SANTAN			- 15.0 —	e y gallyng har neu naustradin ny magang angli dammi ta makka dahngi dipi yamin a				VID			
15		1007.4	S7 8''711''	15.0	15.9	- 13.0	Very dense gray l	rown	silty fi	ne to coarse SA	AL TIL	ne gravel, mois	ST.	
		1007.4	0 /11		15.5									
						****								
1														
20				***			Very dense brow	-nz	Gnat	goorge CANID	coma c	ravel Red conc	stone in	
		1007.4	S8 4"/5"	20.0	H		bottom of spoon,	mois	t.	COMISC SAIND,	some gi	avol. Red salic		
				20.	1									
									and agreement day of the "disable that"					
										·····				
25 —			KA	360			Very dense gray	TOW.	silty f	ine to coarse \$ 2	ND so	me gravel moi	st.	
		19	S9	25.0			very dense gray	, OWI	. only I	to coarse of	., ., .,	6.4.11,		
1		1007.3	12"/18"		26.3									
1														
1														
							a ya maka a maga anamana mana a qorab ahaya kar maninga golar harinda a							
	********													
30 —														
		Water	Level Data				1	nple				Summ		
Date	Time	Elapsed Time	Bottom	of Bottom		Water (ft)	O Open En T Thin Wa						0.5	
		(hrs) 2	Casing (	ft) Boring	(1t)	17.5	U Undistur	ed S	ample		per of Sa		4S	
30-May		-					S Split Spo	on Sa	mple		ORING		H	A-102



### TEST BORING REPORT

BORING NO.
HA-102

Page 2 of 2

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Кесочегу	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		10 100/.3	S10 7"/10"	30.0		Very dense gray brown silty fine to coarse SAND, little rock fragments, wet.
		1007.3	7 /10	30.0		GLACIAL TILL
			AT (Table )	/		
					,	
_ 35						
_ 55		19 60	SII	35.0		Very dense silty fine to coarse SAND, some gravel, trace clay, wet.
	A CONTRACTOR OF CONTRACTOR OF CONTRACTOR	1007.3	16"/16"	36,3		
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	w					
_ 40		15	S12	40.0		Same.
		100/.4	10"/11"	40.9		Oalie,
				·		
	and a second second second second second		***************************************			

45		20	\$13	45.0	45.0	Very dense red brown silty fine to coarse SAND, trace clay, moist. WEATHERED ROCK
		100/.1	6"/8"	45.6		WEATHERED ROCK
	and the second of the second o					

50		1007.5	\$14	50.0	50.5	Same, with little clay.
				50.5		Began rock coring at 50.5 ft.
						Competent, red sandstone with interbedded gray sandstone. QUEENSTONE FORMATION
						QUEENSTONE FORMATION
55		***************************************				
						Highly fractured 58.8 ft. to 60.5 ft.
60						IMBILIT MUNICIPAL POLICE AND
						Bottom of Exploration at 60,5 ft.
65						
	1					
 70						
	***************************************					FILE NO. 70819-000 BORING NO. HA-102

HALEY & ALDRICH

CORE BORING REPORT

BORING NO.

HA-102 1 of Page 70819-000 H&A FILE NO. PROJECT PORT OF ROCHESTER M. VALENTINE ROCHESTER, NEW YORK PROJECT MGR. LOCATION FIELD REP. R. DEDRICK CLIENT LABELLA ASSOCIATES DATE STARTED 30-May-00 GEOLOGIC ENTERPRISE CONTRACTOR 30-May-00 L. TODD DATE FINISHED DRILLER ft Datum Elevation **Boring Location** Rig Make & Model Drill Mud Item Casing Sampler Core Barrel Hammer Type Bentonite 4 Truck Tripod Cat-Head SS NX Type HAS ✓ Safety Polymer Geoprobe Winch ATV Inside Diameter (in) 3-1/4 1-3/8 2 1 Doughnut None Track Air Track Roller Bit 140 Hammer Weight (lb) Driven Skid Cutting Head Spun Casing Hammer Fall (in) 30 Recovery Drilling Stratum Weathering Visual Classification and Remarks Depth (ft) RQD Rate Core No. Change (ft) (min/ft) Depth (ft) (in) (%) Competent red sandstone with interbedded gray sandstone. 3.4/5.0 68 QUEENSTONE FORMATION Avg. 3-4 minutes per foot Highly fractured 8.0 ft. to 10.0 ft. 3.45/5.0 69 60.5 10 25 - 30 Water Level Data Sample ID Open End Rod Summary) <u>50.5</u> 10 Bottom of Boring Overburden (Linear ft) Elapsed Time Water (ft) Time T Thin Wall Tube Undisturbed Sample Rock Cored (linear ft) (hrs) Casing (ft) (ft) Samples Split Spoon Sample HA-102 BORING NO.

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TEST BORING REPORT

BORING NO.

HA-103

ALDI	CICIT		1	R91	DUK	III	UM			L		TI	<i>F</i> 1 •	102	,
												Page	1	of	3
PROJECT		PORT OF RO	CHESTER						H&A	FILE NO.	70819	9-000			
LOCATIO		ROCHESTER		K					PROJ	ECT MGR.	M. V.	ALENTI	NE		
CLIENT		LABELLA AS								D REP.		OSTRAN			
		-		rc.					_	E STARTED			•		
CONTRAC		GEOLOGIC I	ENTERPRISE	2.5					_	E FINISHEI					
DRILLER		L. TODD							_ DATE	THUSHEL	31-141	ay-00			
Elevation	253.8	36 ft Dat	um City	1	Boring Location	on		-	cation Plan						
Item		Casing	Sampler C		Rig Make & M				k Mount			Dril	l Mud		_
Туре		HSA	SS	NX [✓ Truck		ipod		Cat-Head	-	mer Type			ntonite	
Inside Diam	eter (in)	3-1/4	1-3/8		ATV		eoprobe		Winch					lymer	
Hammer W	eight (lb)		140		Track	∐ Ai	r Track		Roller Bit		Doughnut	_ [v		The same of the same of	
Hammer Fa	THE RESERVE OF THE PERSON NAMED IN		30		Skid	Н-			Cutting He	ad Casi	ng	Driv	en		pun
Depth (ft)	Casing Blows per	Sampler	Sample Number &	Sample Dep	th Stratum Change	1			Visual Cl	lassification a	nd Remarks				
Deptii (it)	ft	Blows per 6 in	Recovery	(ft)	(ft)	1									
_ 0 _															-
_ 0 _		8	S1	0.0		Mediu	m dense gra	velly co	parse to fine s	and, little silt,	dry.	natural na Albertal and American design	to to the second second.		-
	****	11								FILL					
		15	15"/24"		2.0										
		13	S2	2.0	and the same of th	Mediu	m dense dar	k browi	n coarse to tin	e SAND, som	e gravel, little	siit, ary.			
		11								FILL					
		7	10"/24"		1.0	Same.									
		8	S3	4.0			to wet begin	ning at	5.5 ft.		والمستورين والمتواجب والمروض والمراجب والمراجب		and the second	- 2 - 20 - 20 - 20 - 20 - 20 - 20 - 20	-
<u> </u>	·*************************************	4								FILL			e-5-2*-7*-0 *****		
		3 6	S4	6.0	5.0	Same,	wet.				A		46. 1. 40. 87 . 11. 17. 17.	t ar promise man di mor. I	
		5								FILL	e general parties in personal properties of the				
		8 50/.0	4"/18"		7.5	Noted	refusal and	suspecte	ed cobble at 7	.5 ft.	.,			era managan ar amaganya	
	A-0-4	5	S5	8.0	7.5	Same,	except black	ζ.					and the second second		
		7 9								FILL		en acceptable to the second			
		4	6"/24"	10	0.0		or aligned to the transfer place by the larger of the				a year of a sample of the top begin in process.		*	****	type (mg. 10mg).
<u> </u>		7	S6	10.0		Mediu	ım dense bla	ck coar	se to fine sand	dy GRAVEL,	little silt, wet.	CONTRACTOR PROOF YOU		(September 1) and 1 and 20 and	
		9 10								FILL	and the State of t				
		15			2.0			-,		A					
		26	S7	12.0		Same,	except very	dense,	gray-black.	FILL	and the second second second	***************************************			**********
		29		A					odor in samp				*******		
		9	12"/24"	1.	4.0	See N	ote on Page	2 of 3.	An	ger Refusal at	14 O ft				
			construction and annually engineering art file as					B		18.0 ft. west o		ation.			
— 15 —															
	and the management to the de-							en # 80 % (em 1800) (e						r =	
	in A reservation of the control of the chicken														
									and the real of the last the second of the s			(market 1 m		engangan di senjan sebesah	v
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20		Application of protection of the state of th													
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							* Face of Section 100			and an endiness and an end					
				-			processor yet of history by the construction of	***	······································						

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25		makemani parateoni y objetavi suomision	The transfer of the property of the second o						mag in a gradual plane to the state of the s	y dry der gene generalen de glasseriert, som er er er er er					\$0\$0.000000
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30 —									ement of anti-contract contract of the state of	T					
		Water Elapsed Time	Level Data	Rattom		0	Open End	Rod		Overburden		nmary 14			
Date	Time	(hrs)	Bottom of Casing (ft)	Bottom of Boring (ft		T	Thin Wall			Rock Cored		14			
		1		(1		U	Undisturbe			Number of S	amples	7S			
		-				S	Split Spoo	n Samp	ole	BORING	G NO.	H	[A-10)3	

TEST BORING REPORT

BORING NO.

										Pag	e 1	of 3
PROJECT		PORT OF RO	CHESTER					H&A FILE N	O.	70819-000		
LOCATIO	N	ROCHESTER	R, NEW YO	RK				PROJECT M	GR.	M. VALEN	NTINE	
CLIENT		LABELLA A	SSOCIATE	S				FIELD REP.		D. NOSTR	ANT	
CONTRAC		GEOLOGIC I						DATE STAR	TED	31-May-00)	
DRILLER		L. TODD						DATE FINIS	HED	31-May-00)	
			tum Cit	, I	Boring Location	OR Cap Dr	ing Location	Plan				
Elevation Item	253.8	Casing		Commence of the Commence of th	Rig Make & N	The state of the s	55 Truck Mou			T	Drill M	ıd
Туре		HSA	SS		✓ Truck	Tripod			Hammer '		-	Bentonite
Inside Diam	eter (in)	3-1/4	1-3/8		☐ ATV	Geoprobe	☐ Wir	nch	✓ Sa	ifety		Polymer
Hammer W			140	Nethall 1998.	Track	Air Track		ller Bit	-	oughnut	-	None
Hammer Fa			30		Skid		Cut	tting Head	Casing		Driven	Spun
D (1. /2)	Casing	Sampler	Sample	Sample Dep	Stratum		1/3	isual Classificati	ion and D.	emarks		
Depth (ft)	Blows per ft	Blows per 6 in	Number & Recovery	(ft)	Change (ft)		Y	isuai Ciassificati	on and K	ciliat No		
_ 0 _					,				and the state of the state of	agraph on agreement of an industry to the second		and the section of th
		8	S1	0.0	and the second s	Medium dense gra	velly coarse t	to fine sand, little	silt, dry.			and the second second second to the second
	an array of an about a section	11						FII	LL			
	A	15	15"/24" S2	2.0	2.0 —	Medium dense dar	k brown coar	se to fine SAND	some gra	vel, little silt.	Iry.	
		18	32	2.0		The state of the s						Andrews transfer to the property of the property of
		117	10"/24"		4.0			FII	LL	and the second s		
		9	S3	4.0	1.0	Same.						
_ 5 _		8 4				Moist to wet begin	ning at 5.5 ft					have the transfer to the trans
		6			6.0							
		3 5	S4	6.0		Same, wet.		turnin "etta jura arakak fina turka tuko tukori, kurtur				a and other property species, which is
		8				Noted refusal and	suspected col	bble at 7.5 ft.				
		50/.0	4"/18" S5	8.0	7.5	Same, except black			A	a contract the strain of the s		
		7										
		9 4	6"/24"		0.0			anning of the proof to go to a factoring regard, and a white		Control of the Contro		
10		7	S6	10.0		Medium dense bla	ck coarse to f	fine sandy GRAV	EL, little	silt, wet.	······································	
	t an stay the self on the part faith to the state	9						*				
	W No. 200 - 100 -	15			2.0		-,					
		62 26	S7	12.0		Same, except very	dense, gray-l	DIACK.	************	oranicam communication designs		
	14 m 15 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	29			70	Driller noted sulph		in sample.				
		9	12"/24"		4.0	See Note on Page		Auger Refus	sal at 14.0	ft.		
15		\$1.50 - 1.00 \$1.00 \text{\$1.00 \text			**************************************		Boring	moved 18.0 ft. v	vest of orig	ginal location.		
		makes a final grant and of second of a giventy		Market Contract to the first Contract		and any one beauty and a second of the secon						
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	The second contract of the second or second											
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		(mg), and constitution residentially high selection and an				The state of the s	1141					
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	A 20- 10- 1						**** * ********************************	anne ann ann ann ann ann ann ann ann ann				
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							and a first contract of the state of					
30						***************************************						
		Water	Level Data			Sam	ple ID	T		Summar	Y	
D-4	m!	Elapsed Time	Bottom of			O Open End	Rod		rden (Line	ar ft) 14		
Date	Time	(hrs)	Casing (ft		t) water (II	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ored (Line r of Sampl			
	-					U Undisturbe			RING NO		HA-	103
		<del>                                     </del>		_	-	G Geoprobe		ВО	KING NO	<i>)</i> .	HA-	103

### TEST BORING REPORT

BORING NO. HA-103a

														Pa	ige	2	of :	3
PROJECT	,	PORT OF RO	CHESTER			-		_		H&A FII	EN	0.	708	19-00				
		ROCHESTER		K						PROJEC			-		ENTIN	E		
LOCATIO								_		FIELD R				DEDR				
CLIENT		CEOLOGICA			-				_	DATE ST		LED	-	May-		-		
CONTRA		GEOLOGIC I	ENTERPRIS	E3					_	DATE FI			-	un-00	-17			
DRILLER		L. TODD							_		1101		1-3	00				=
Elevation	253.8			The second secon	ing Locatio					tion Plan Mount				-	Drill	Mud		
Item		Casing			Make & M Truck	lodel Tri	The same of the sa	-	100 TO 10	Cat-Head	I	Iamm	er Type				onite	-
Туре		HSA 3.1/4	SS 1.3/9		ATV	_	oprobe		_	Winch	Ĥ		Safety		1	Poly		1
Inside Diam Hammer W		3-1/4	1-3/8		Track		Track	٦		Roller Bit			Doughn	ut		None		
Hammer Fa				Auto Salata Builds Strandons	Skid	$\Box$ _				Cutting Head		Casing			Drive	n [	Spi	ın
	Casing	Sampler	Sample	Sample Depth	Stratum					W-101 1	c		Darris	les				
Depth (ft)		Blows per 6 in	Number & Recovery	(ft)	Change (ft)					Visual Classi	ncati	on and	Kemar	KS				
-	ft	ın	Recovery		(11)						***						.,	_
0		A				(Offset	18 west of	orig	ginal I	ocation)								
	water and the second se	U										-						
		***************************************	Coo Co1															
		G	See Samples for 0-14 ft.															
		E	in Boring HA-103															-
		R	11A-103															
5		11		5.0		Medin	n dense bro	wn	black	fine to coarse	SANI	D, little	silt, dry	y.				
		14																
		7 4		7.0			and the second s			THE RESERVE AND ASSESSMENT OF THE PROPERTY OF THE PERSON O	FIL	,L						
				,														
		A U																
		G																
		E R																
<u> </u>		9		10.0		Dense	black brown	ı fin	ne to c	coarse SAND,	little s	ilt, sla	g fragme	ents, w	et.			
		19 22																
		20		12.0					~ ~~~~									
		***************************************																
		7	S8	14.0		Same,	except med	ium	dens	e.								
15		11																
		12	[4"/24"	16.0														
		3	No	10.0														
		6 7	Recovery	18.0						***************************************								
		8	S9	18.0		Mediu	m dense bla	ck ł	brown	silty fine to co	oarse	SAND	, wet.					
		10 8								A	LLU	VIUM						
20			6"/24"	20.0		ļ												
and the second									~~~~									
								,										
										maker publish der sider og gerneriet per til der sommer pupas had som								
						,				ien e								
		3	S10	24.0		Loose	gray brown	nne	e sanc	SILT, wet.								
25		; 3		A7 A														
		4	2"/24"	26.0		·		*******										
1																		
1						<u> </u>												
1																		
1		2	SII	29.0		Loose	gray fine sa	ind !	SILT,	, some clay, or	ganics	s, mois	t.					
30		3 3	12"/18"	30.5														
		Water	Level Data				San	ple	ID		t-	rden /		Summ 7				
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)		Water (ft	O	Open End Thin Wall	Tu	be	Re			inear ft) inear ft)	, -				
		(III'S)	Casing (It)	Doring (it)		U	Undisturb	ed S	Sampl	le N	umbei	r of Sar	nples	1	9S			
					1	S	Split Spoo	on S	ample		DO	DING	NO		Y-W	-103	40	

### TEST BORING REPORT

BORING NO.
HA-103a

Page 3 of 3

						l'	age 3	of	
Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks			
Ì		***							
			S12	34.0		Loose gray fine sand SILT, some clay, organics, moist.			
35		3	312	34.0		ALLUVIUM			
00		3 4	12"/24"	36,0		ALLOVION			
		2	S13	39.0		Loose gray silty fine to coarse SAND, trace ogranics, moist.			
40		2 4	***********						
		4	23"/24"	40.0					
	}.n. <del></del>								
		2	S14	44.0		Loose gray brown fine to medium sandy SILT, little clay, organics, n	noist.		
45		4 4							
		5	22"/24"	46.0					
						1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
		***************************************							
		2	S15	49.0	PA-9000000000000000000000000000000000000	Same.			
50		3					4		
		3	22"/24"	51.0					
		2 2	S16	54.0		Same.			
55		3 5	23"/24"	56.0					
			23 /24	50.0					
		<u> </u>							
			017	50.0		Same.			
60-		2 2	\$17	59.0					
UV www		3	22"/24"	61.0					
							0	:	
		-							
		4	\$18	64.0		Medium dense gray brown fine to medium sandy SILT, little clay, or	rganics, mois	t.	
65		4 7							
			22"/24"	66.0			****		
		***************************************					****		
		7	S19	69.0		Bottom of Exploration at 71.0 ft.			
70-		10			-/-	FILE NO. 70819-000 BORING NO.	H	4-103s	3
1		1	17"/24"	71.0		PIDE NO.			

## HALEY &

### TEST BORING REPORT

BORING NO.
HA-104

ALDR	ach_		JL J	מ זומח		III O II			Description 2
								W D M 2	Page 1 of 2
PROJECT		PORT OF RO							0819-000
LOCATIO		ROCHESTER		K					. VALENTINE DEDRICK
CLIENT		LABELLA AS					FIELD		3-Jun-00
CONTRA		GEOLOGIC E	ENTERPRISE	ES			-	-	3-Jun-00
DRILLER	l .	L. TODD						FINISHED 13	-Juli-UU
Elevation	254.2				ing Location		ring Location Plan		In was a
Item					Make & N		IE 55 - Truck Mount	Hammer Typ	Drill Mud  Bentonite
Туре		HSA	SS			☐ Tripod ☐ Geoprobe	✓ Cat-Head Winch	Safety	
Inside Diam		3-1/4	1-3/8			Air Track	Roller Bit	Dough	
Hammer W Hammer Fa		-			Skid		Cutting Hea		Driven Spun
Hammer Fa	Casing	Sampler	Sample	Sample Depth	Stratum				
Depth (ft)	Blows per ft	Blows per 6 in	Number & Recovery	(ft)	Change (ft)			ssification and Rema	
_ 0 _							Mudline 19	.0 ft below top of seav	wall.
			~,				F1		
			***************************************			Sunk augers 4.0 ft	below mudline.		
						. And the second			
						and history was "than the first of size the year of beings were made and the resistance			
								Eng CANID	
		WOR WOR	SI	4.0		very loose gray bi	own silty coarse to f	IIIC SAND.	
5		WOR	(1012.10			a serven and the serv			
		1	11"/24"	6.0	***************************************			ALLUVIUM	gan de main personal de la presenta de la main de la ma La main de la main de
		WOR	S2	9.0		Same as above.	****		
10		WOR							
		WOR WOR	20"/24"	11.0		***************************************			
	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							annur de hysiolif del later de 18 km halle general de 18 februar la later de la later de 18 februar
		*******************************							
1									
		1 3	S3	14.0		Loose gray brown	sandy fine to mediur	n SILT, organics, wet	
15		3							
		5	24"/24"	16.0					
							COLUMN SERVICE CONTRACTOR SERVICE SERV		
		************************		-					
		3	\$4	19.0		Same as above.	9		
20		5							
		5 9	20"/24"	21.0					
1									
1	-								and the second of the second o
		2 2	S5	24.0		Same as above.			
25		4							
	with the forest contrast of the contrast of	6	24"/24"	26.0					
						-			
1									
30 -									
30 2		Water	Level Data				iple ID		Summary
Date	Time	Elapsed Time	Bottom of	Bottom of	Water (ft	O Open End	Rod	Overburden (Linear	
Date	Time	(hrs)	Casing (ft)	Boring (ft)	1	I IIIII Wai	l Tube ed Sample	Rock Cored (Linear I Number of Samples	6S
-	+		-			S Split Spo	on Sample	BORING NO.	HA-104
						G Geoprobe		and the second s	

## TEST BORING REPORT

BORING NO.
HA-104

Page 2 of 2

						rage 2 01 2
Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		2	S6 24"/24"	29.0		Loose gray fine to medium sandy SILT, organics, wet. ALLUVIUM Bottom of Exploration at 31.0 ft.
	grantage at the street street of the street	2	24"/24"	31.0		Bottom of Exploration at 31.0 ft.
		4 5	The country of the second of the country of the cou			DOUGHT OF EMPIRE
		)				gol ger common and private from the grant of the first of the grant of the first of the grant of
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		y on the spherical framework with a section of the section of the			A	
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		And writing programme and provide and declinations and			and a state of the	
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						FILERO, 70017-000 BORGIO III
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### TEST BORING REPORT

BORING NO.

HA-105

										Page 1 of
PROJECT	,	PORT OF RO	CHESTER					H&A FILE	NO.	70819-000
LOCATIO		ROCHESTER		RK				PROJECT N		M. VALENTINE
CLIENT	714	LABELLA A	·					FIELD REP.		R. DEDRICK
CONTRAC	CTOD	GEOLOGIC I						DATE STAF		13-Jun-00
DRILLER		L. TODD	ENTER RE	313				DATE FINIS		13-Jun-00
DRILLER		-							, iiibb	
Elevation	253.9	-	-		Boring Locat		ring Loca			Drill Mud
Item		Casing			Rig Make & Truck	Tripod CN	1E 55 Tru	Cat-Head	Hammer 7	
Туре		HSA	SS		ATV	Geoprobe		Winch	Saf	71
Inside Diam Hammer W		3-1/4	1-3/8	Enden Car	Track	Air Track	-	Roller Bit		ughnut  None
Hammer Fa			30	10 11 10 10 10 10 10 10 10 10 10 10 10 1	Skid	ñ		Cutting Head	Casing	Driven Sp
	Casing	Sampler	Sample	Sample Dep	Stratum			and the same and the same		
Depth (ft)	Blows per		Number &	(ft)	Change			Visual Classifica	tion and Re	emarks
	ft	in	Recovery		(ft)			5.0 ft to Mudline	rom Ton of	Seawall
_ 0 _						-Sunk augers 3.0 t			ioni rop or	Dearrain
		A STORE OF STREET AND THE PROPERTY STREET STREET AND A ST				<del> </del>				
	gander (marken, mer gripter) e han het seen			-,						
		WOR	S1	3.0		Very loose gray br	own sands	y SILT, wet		
		WOR							· · · · · · · · · · · · · · · · · · ·	
		WOR WOR	14"724"		5.0		.,	ALLU	VIUM	
_ 5 _	*****	WOR	14 /24							
		WOR	S2	6.0		Very loose gray br	own silty	coarse to fine SA	ND. wet.	
		WOR	32	0.0		Tery locate gray or				
		WOR WOR	14"/24"		3.0					
		WOR	S3	8.0	5.0	Same as above.				
		WOR						***		
40		WOR WOR	16"/24"	10	0.0	-			****	
10			**************************************							
	14 April 2011 11 April 2011									
	***************************************							*******		
								ġ		
15		TYXK- TYXK-	~~~~~~~~~~				214.	CAND		
		WOR WOR	S4	15.0		Loose gray brown	siity coars	se to fine SAND, v	vet.	
		5								
			15"/24"	1	7.0					
								*		*
20		2	S5	20.0		Loose gray brown	sandy SIL	T, organics.		
		2								
		7	24"/24"	2,	2.0					
			21721							
			***************************************	***						
25		WOH	S6	25.0		Same as above.				
		2 5								
		7	20"/24"	2	7.0					
		***********								
1										
30										
30		SV7				Cam	ple ID			Summary
	Γ	Water   Elapsed Time	Level Data Bottom of	f   Bottom o		O Open End	Rod		ırden (Linea	ar ft) 32
Date	Time	(hrs)	Casing (ft	Section 17 April 2004		T Thin Wall	Tube	Rock C	Cored (Linea	ar ft)
						U Undisturbe S Split Spoo			or of Sample	
						- C		BC	RING NO.	. MAN

### TEST BORING REPORT

BORING NO.
HA-105

Page 2 of 2

Pattern   Patt							Page 2 of 2
ALLUVIDM  Bottom of Expirement vi 2.0 ft.  33 a Significant state of the state of t	Depth (ft)	Blows per	Blows per 6 in	Number & Recovery	1	Stratum Change (ft)	
1			1	S7	30.0		Loose gray brown sandy SILT, organics.
C   3.0			3	of the control of the control ones, in part, in State, State	***************************************		ALLUVIUM
- 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40				Company of the Compan	32.0		Bottom of Evaloration at 22.0 ft
- 65 - 65 - 65 - 65 - 65 - 65 - 65 - 65							Bottom of Exploration at 32.0 ft.
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## TEST BORING REPORT

BORING NO.
HA-106

Page 1 of 2

					-					0 1 222 27 -	VO.		no ige	01 2
PROJECT		PORT OF RO								&A FILE		70819-00 M. VALI		
LOCATIO		ROCHESTER								ROJECT N		-		-
CLIENT		LABELLA AS	SSOCIATE	S						ELD REP		R. DEDF		
CONTRAC	CTOR	GEOLOGIC E	ENTERPRIS	SES						ATE STAF		1-Jun-00		
DRILLER		L. TODD							D/	ATE FINIS	SHED	1-Jun-00		
Elevation	250.7	9 ft Dat	um City			ng Locatio		The real Property lies	ng Location P				I	
Item		Casing	Sampler	Core Barrel		Make & M		1E 55	- Truck Mour				Drill M	
Туре		HSA	SS	NX	√ T		Tripod		Cat-He		Hamme		-	Bentonite Polymer
Inside Diam	eter (in)	3-1/4	1-3/8	2			Geoprobe	-	Winch Roller			Safety Doughnut		None
Hammer Wo			4.1.		_	rack	Air Track	- 1		g Head	Casing	Jouginiat	Driven	Spun
Hammer Fa	II (in) Casing	 Sampler	30 Sample	Tariff (1864)		kid Stratum			Cutting	g Head	Casing			
Depth (ft)		Blows per 6	Number &	Sample De	nthl	Change			Visua	al Classifica	tion and	Remarks		1
	ft	in	Recovery	(ft)		(ft)			****					
_ 0 _		Augered	***				****							
		3	SI	0.5			Medium dense	brown	n silty fine to	coarse SAN	D, some i	ock fragmen	ts, dry.	
ľ		4 7	11"/18"		2.0						ILL			
		8	S2	2.0	2.0		Medium dense	red b	rown silty fin	e to coarse S	AND, tra	ce rock fragn	nents, mo	oist.
	********	5				ng dang di panganah ya Panga Panganah								
		7	12"/24"		4.0		Medium dense	Line	bearing fine t	o coorna CA	ND litte s	ilt wet		
		12	S3	4.0			Medium dense	black	DIOWII IIIIC I	ALLU	JVIUM	mit, wet.		
5	The state of the s	17		****	70		Annual Aborton Control of Control							
		15	16"/24" S4	6.0	6.0		Same, except	very de	ense.					
		37				.,,							garantar service (sea and	
		31 36	12"/24"		8.0									
		44	S5	8.0			Same.							
		28						A. A. C. Saper St. May 2						
10		12	6"/24"		10.0		Loose gray br	own fi	ne to coarse S	SAND little	silt wet			
		5 3	S6	10.0			Loose gray or	5WIL 11	ne to coarse c	Trivib, mile				
		5	00/270		12.0		***************************************						The second secon	
		3	8"/24" S7	12.0	12.0		Same, except	trace r	ock fragment	s.				
		3 6					**********							
		5	12"/24"		14.0						75 TEST	71.		
		12	S8	14.0			Medium dens	e gray	brown fine to	coarse SAP	ND, little s	siit, wet.		
15	***************************************	14												
		14	11"/24"		16.0					-				
									0					· · · · · · · · · · · · · · · · · · ·
1								Andrew Springer						
						a delenina seriante, les produces del	******************	-					****	
i		4	S9	19.0		-	Loose gray fi	ne sano	d SILT, little	clay, moist.				
20		3					and the second region of the second s		*******					
		4 2	3"/24"		21.0					~~~				
1	and the second second second second												and the second section is a second section in	
1	***************************************								*****					
		2 2	\$10	24.0			Same, except	very I	oose.					
25		2			~~~									
			15"724"		26.0									
		1	SII	29.0			Loose gray b	rown f	ine to mediur	n sand SILT	, little cla	y, organics, n	noist.	
30		2 3	17"/24"		31.0									
			Level Data					Samp			1 7	Sumn		
Date	Time	Elapsed Tim		200	3930F09127	Water (ft		End I Wall		Rock	ourden (L Cored (L		41	
	-	(hrs)	Casing (	ft) Boring	(10)		U Undi	sturbe	d Sample	Num	ber of San	nples	13S	
							S Split	Spoon	Sample	В	ORING	NO.	H	4-106

## TEST BORING REPORT

BORING NO.
HA-106
Page 2 of 2

							Page	Z	01 4
Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remark	cs		
							a		
							*****		
									********
ľ	and recognitional resolutions and the tra								
	····	2	S12	34.0		Loose gray brown fine to medium sand SILT, little clay, organic	es, moist,		
35		3				ALLUVIUM			
		3 4	20"/24"	36.0	**********	ALLUVIUM			
	And the second of the second o								
	***				THE STREET PRINCIPLE STREET, S			~~~	
1									
		1	S13	39.0		Same.			
40		2							
		3 4	22"/24"	41.0					
	a a grade sprande por anno antique a proportion de l'anche.				******	Bottom of Exploration at 41.0 ft.			
			Proceeding the complete the com				100 Tarrier		
			***************************************						
e' ¹⁰	a ngrangrap a nathara ng tana timat t		*******				****		
			*****			A section of the processing of			
45									
					************				
			a - antica tau af i an aar no turbur by i of an area						
50		Anna Anna Anna Anna Anna Anna Anna Anna						record services acres acres a	
			********************						-
		is a majoration and management are full parties are mortued and							
		************							
	and amount a market of the								
55				-					
		*****************							
<u> </u>									
								-	
1					1				
<u> </u>	-								
1									
1					J				
<del></del>		-				FILE NO. 70819-000 BORING	NO.	HA	-106

## TEST BORING REPORT

HA-107

												Pa	ge 1 of 2
PROJECT		PORT OF RO	CHESTER						Н	&A FILE N	NO.	70819-00	0
LOCATIO		ROCHESTER		RK	_				— PR	OJECT N	IGR.	M. VALE	NTINE
CLIENT		LABELLA AS								ELD REP.		R. DEDR	ICK
CONTRAC		GEOLOGIC E			_					TE STAR		26-May-0	0
		L. TODD	ENTERTRIS	E3						TE FINIS		26-May-0	
DRILLER								_				20 1111)	
Elevation	266.0					ng Locatio		-	Location P				Drill Mud
Item		Casing				Make & M		_	ruck Moun		TT	er Type	Bentonite
Туре		HSA	SS			ruck Truck	Tripod	Ŀ	Cat-He Winch	******		Safety	Polymer
Inside Diam		3-1/4	1-3/8			ATV	Geoprobe Air Track	늗	Roller			Doughnut	✓ None
Hammer We			140	To the territorial state of		Frack Skid	☐ All Hack		Cutting		Casing		Driven Spun
Hammer Fa	ll (in) Casing	 Sampler	30 Sample	1		Stratum	<u> </u>		Cutting	Tiedd	Choing		
Depth (ft)	Blows per		Number &	Sample Dep	oth	Change			Visua	l Classificat	tion and	Remarks	
/	ft	in	Recovery	(ft)		(ft)							
_ 0 _					_		A state of the sta	***		ΔÇDI	IALT	angularity had a guide fir during the first out for the same annual and same Add the	
		5	SI	0.5	$\dashv$	. 0.5	Medium dense blad	k bi	own fine to			e gravel, dry.	
	a manager was to a construct our security.	II								FI	LL		
-		13	7"/18" S2	2.0	2.0		Medium dense bro	vn f	ine to coars	e SAND, da	mp.		
		18	J2				*************						
		14	16"/24"		4.0								
1		3	S3	4.0			Dense brown black	fine	to coarse S	SAND, little	silt, brid	ck, damp.	
_ 5 _	The second section is a second broad-	22 22						*******				· · · · · · · · · · · · · · · · · · ·	and the second
		30	17"/24"		6.0								
		14	S4	6.0			Same, except medi	um	dense.				P. STILL SEAL AND AND NOTE TO SEAL ASSESSMENT OF THE SEAL ASSESSMENT
1	-	11	The state of the s								************		
		12	20"/24"		8.0		Medium dense bro		C	to 200700 C A	ND mo	lat	
		6	S5	8.0			Medium dense bro	wn c	range tine	to coarse 37	IND, IIIO	1151.	
		6											
10	Services Services (A. of Services Co. Co. Co.	//	18"/24"	10	0.0			-	***				
					_			*****				and the second second second second second	
	-					.,,,,,,,,							
			67	112.0		13.0 —	Loose brown gray	fine	T II2 bace	trace to littl	e clay to	race organics r	noist.
		2	S6	13.0		+	Loose blown gray	IIIC	Sand DILT,	trace to fitti	o oray, a	idoo organios, i	
		3	2102010		- 0					ALLI	VIUM		
15		3	21"/24"	1	5.0					ALLC	VIOW		
1													
			Charles Control to The Control to State of Control			***				***			
	***************************************												
		2	S7	18.0	$\dashv$		Same.						
		3				*****							
		4	24"724"		0.0								
20			24 /24		0.0								
		l-7	S8	23.0	-	- 23.0 -	Very dense gray b	owi	silty SAN	D, some gra	vel. Poc	kets of brown f	ine to coarse
		35					SAND, wet.			GL ACT	AL TILI		· · · · · · · · · · · · · · · · · · ·
		37 21	22"/24"		5.0					GLACI	AL IILI		
25			22 /21										
												and the state of t	
		***************************************											
1		22	S9	28.0			Same.		~				
		24 26											
30		26	20"/24"	3	0.0								
30							Sam	nle	ID			Summa	rv
		Water   Elapsed Time	Level Data Bottom of	Bottom	of		O Open End	Rod	1.0	Overb	urden (L	inear ft) 49	.0
Date	Time	(hrs)	Casing (ft)			Water (ft)	T Thin Wall	Tub	e	Rock (	Cored (L	inear ft) 5.0	
26-May		0.5				18	U Undisturb S Split Spoo			b-	er of Sar		
							a opin opoc	08	anpie	BC	DRING	NO.	HA-107

## TEST BORING REPORT

BORING NO.
HA-107

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
	Andrew Arts & Angelian & Representation of the control of the	2000 Marie Con 1970 M				
		15 39	S10	33.0	Parameter State of St	Very dense gray brown fine silty sand, little gravel, wet.
	AND A STREET OF THE STREET	41 40	19"/24"	35.0		GLACIAL TILL
35	water to a many to the second					
	. mr. n					
		VALUE WAS ARREST	***************************************		ANNANANANANANANANANANANANANANANANANANANA	
	provided of the state of the st	16 26	\$11	38.0		Sane.
40		39 43	17"/24"	40.0		
40						
						Company and the constant of th
		25 65 100/.4	S12	43.0		Very dense gray brown fine sandy SILT, trace clay, little gravel, wet.
45	a chart of common and the same of the	100/.4	16"/17"	44.4		
43						
		***************************************		A 40 mar 100 m		Same, except pocket of red brown fine to coarse SAND, some rock fragments, wet.
		100/.5	S13 11"/12"	48.0	49.0 —	Began Rock Coring at 49.0 ft.
50		A.L		A 20		Degan Rock Coming at 47,0 ft.
						Competent red sandstone with interbedded gray sandstone.
	princessor accretion and the first factors					Competent fed sandstone with interocuted gray sandstone.
	A-A-MIN (1971)				54.0	Bottom of Exploration at 54.0 ft.
55						
	a defining their the state of the state of the state of	****************				
	~~~~~					
60						
	- A					
	and the disserted the place of the place			***		
65_						

		And the state of t				
70-						FILE NO. 70819-000 BORING NO. HA-107
						FILE NO. 70017-000 BORING NO. IN-107

CORE BORING REPORT

BORING NO.

														Pa	ge 1 of 1
PROJECT	Г	PORT OF	ROCE	HESTE	R						Н&А	FILE	NO.	70819-00	0
LOCATIO		ROCHEST									PROJ	ECT N	IGR.	M. VALE	ENTINE
CLIENT		LABELLA									- FIEL	D REP.		R. DEDR	ICK
CONTRA	CTOR	GEOLOGI	IC EN	TERPE	RISE						DATE	ESTAR	TED	26-May-0	00
DRILLER		L. TODD									DATI	E FINIS	HED	26-May-0	00
		Δ.	Datun			T		7					-		
Elevation Item		Casing		ampler	Cor			ng Location Make & Mod	del						Drill Mud
Туре		HAS	3.	SS	-	CONTRACTOR OF THE PARTY OF THE	√J	Truck	Tripod	7	Cat-Head		Hamme	r Type	Bentonite
Inside Diar	neter (in)	3-1/4	+	1-3/8	-			ATV [Geoprobe		Winch			Safety	Polymer
Hammer V				140				Track [Air Track		Roller Bit			Doughnut	✓ None
Hammer F	'all (in)			30		and and the second of the seco		Skid [<u> </u>		Cutting He	ad	Casing		Driven Spun
D (50)	Drilling			Recove		***		Stratum			Visual Cl		ion and l	Damaula	
Depth (ft)	Rate	Core No.		RQD		Weather	ng	Change (ft)			visuai Ci	assilicat	ion and	Kemarks	
	(min/ft)	Depth (ft) 49.5	(in	1)	(%)										
			*****						0-2 ft. Highly fract	ured.	//				
	Avg. 4 ft.	way has the sales and the	****		No secure y April Commer			************	***************************************						
	AND THE RESERVE AND AND ADDRESS OF THE PARTY A		1.9/5	5.0	38			****	Competent red sand	dstone	with interbed	lded gra	y sandsto	ne.	
	per										QUEEN	NSTONE	FORMA	TION	**************************************
	minute									***					
		54.5			**********								********	****	
5		***********	244			4-4-4-4-4-4-4-4-4-4		Andrew Strate St				****			
			·····					**********	***************************************		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Sanchi, Structural de la seriente			
		***			****						****				
		. WASTA TANKA MARKA AMBARAN	*******	*******	************				again sa makana makana makana makana makana makana ma						
			\$2000 pe - 1 - 1	***********											~~~
			List and Nation Street, at \$170			al complex our Mandal del Company A. In		and the second s	and and an experience with the above the second of the						
10	AND AND COME OF STREET, ST.						*****		e paragraphy in terminal and committee the state of the s						***
		***	Carlotte Carlotte Carlotte					Communication of the state of t						And the second second second second	
	*****************		*********											******	
		*****	. 4.4		***			an an ann ann an an an Ann an an Ann an	(A) () (A) (A) (A) (A) (A) (A) (A) (A) (
		***************************************	***					****							
			******			Contractive Contra									~~~
			**********							******	A				
15	10/A/46/4/2000 A - 6/1/46/4/2000 PR						********						*****		
	****				**********		nt de la companie de		and the control of the state of	******		********	***********	***	****
			**********		****										
			*******		*********			****	a yak kuntan yandar dalah isan alimati yak yak da makan alimata kuntan da maka kuntan isan da maka isan isan b						
	****				****			*******	*****						
			*******			and the second s				· * * * * * * * * * * * * * * * * * * *					
20		****								~~~~		******			
			. W. V. Warrens		W/A + # (PA + A + A + A + A + A + A + A + A + A +			*****							
	**********	************	***********						***************************************						
	*****											******			
	AND THE PROPERTY OF THE PROPERTY OF														······································
25										*****					
					****			****************							
												**********		***	

						-									
30															
			Vater l	Level D						ple ID			1 /* ·	Summa	ry
Date	Time	Elapsed Ti (hrs)		Bottom Casing		ttom of Bo (ft)	ring	Water (ft)	O Open End I T Thin Wall	Kod Tube		Overbu Rock C	rden (Lin ored (line	ear ft) —	-
		(III's)		Casing	(11)	(11)			U Undisturbe	d Sam	ple	Sample	S		
									S Split Spoor	Samp	oie	ВО	RING N	0.	HA-107

HALEY &	
ALDRICH	

BORING NO.

ALDR	ICH		TI	ESTB	ORI	ING RI	EPORT	Γ	HA-109				
					THEORY .				Page 1 of 1				
PROJECT	No.	PORT OF RO	CHESTER				H&A	FILE NO. 7081	9-000				
LOCATIO		ROCHESTER		ζ					ALENTINE				
CLIENT		LABELLA AS					FIEL	D REP. R. D	EDRICK				
CONTRAC		GEOLOGIC E		S			DATI	E STARTED 12-J	un-00				
DRILLER		L. TODD					DAT	E FINISHED 12-J	un-00				
Elevation	251.7	8 ft Date	um City	Bori	ing Locatio	n See Boi	ing Location Plan						
tem	251.1			re Barrel Rig	Make & M	Iodel CME 5	5 - Truck Mount	- In-	Drill Mud				
Гуре		HSA	SS		Truck	Tripod	✓ Cat-Head	Hammer Type Safety	Bentonite Polymer				
nside Diame		3-1/4	1-3/8		ATV Track	Geoprobe Air Track	Winch Roller Bit	Safety Doughnu					
Iammer We				2000 10 Manage	Skid		Cutting He		Driven Spun				
Iammer Fal	Casing	Sampler	Cample	Sample Depth	Stratum								
Depth (ft)	Blows per	Blows per 6	Number &	(ft)	Change (ft)		Visual C	lassification and Remark	S				
	ft	in	Recovery										
- 0 -	*********	7	S1	0.0			wn black gray silty	coarse to fine SAND, son	ne gravel, ash,				
-	****	10 7				dry.		FILL					
		7	17"/24" S2	2.0	2.5	Same.							
		7	- 54	£, U		Medium dense bro	wn silty coarse to f	ine SAND, dry.					
	And the second of the second order	8 11	14"/24"	4.0	***								
	a a rapido e no fina principi no hay had desimble on	9	S3	4.0		Medium dense bro							
5		10	VALUE										
		10	17"/24"	6.0									
							and a read of the state of the	record to have the department of the property					
		2	S4	9.0		Very loose gray br	own fine sandy SII	oist.					
10		1 2			·		ery loose gray brown fine sandy SILT, little clay, organics, mo						
		2	15"/24"	11.0									
						The state of the s		and the second section of the second of the second section and the second section of the second section of the					
	4 10 10 10 10 10 10 10 10 10 10 10 10 10												
	, and any and agent of the Physics and complete								9				
			S5	14.0		Very loose, gray b	rown silty medium	to fine SAND, organics, r	noist.				
15		2					**************************************						
		2 2	16"/24"	16.0									
						and described an accordance among the second accordance of the second accordance of							
	· /												
			S6	19.0		Same.							
20		1 1	30	17.0		And the second second							
40		2	20"/24"	21.0									
			20 /21						and the first of t				
							The particular state of the sta						
				37.0		Cama							
		2	S7	24.0	25.0	Same.							
25		30 46	16"/24"	26.0		Very dense red sil	ty fine to coarse S.						
		46	10 /24	20.0			DISINTE	GRATED RED SANDSTO	ONE				
		100/.3	S8	27.5		Same, except som	e rock fragment.	n of Exploration at 27.9 ft					
			4"/4"	27.8		Auger Refusal.	Dollo						
30						0	iple ID	T S	ummary				
	I	Water Elapsed Time	Level Data Bottom of	Bottom of	Water /f	O Open End	Rod	Overburden (Linear ft)	27.8				
Date	Time	(hrs)	Casing (ft)	Boring (ft)	Water (ft)								
						S Split Spoo	on Sample	BORING NO.	HA-109				

TEST BORING REPORT

BORING NO.

ALDI	асп		1.			TITA	O II		OIC	IL.			ЛЛД			
													Page	1	of	1
PROJECT		PORT OF RC							_	FILE NO.		70819-				
LOCATIO	ON	ROCHESTER		K					_	ECT MG			LENTIN	E		
CLIENT		LABELLA A							_	D REP.		R. DED				
CONTRA		GEOLOGIC I	ENTERPRISI	ES					_	ESTARTE		12-Jun-				
DRILLER	Ł	L. TODD							_ DATE	E FINISHI	ED	12-Jun-	-00			
Elevation	252.7	78 ft Dat	tum City	Be	oring Locati	on	See Bo	ring L	ocation Plan							
Item		Casing	Sampler C		g Make & N		CME :	55 - Tr	uck Mount				Drill	Mud		
Туре		HSA	SS	NX Z	Truck	Tri		V	Cat-Head		mmer I				tonite	
Inside Diam	1eter (in)	3-1/4	1-3/8		ATV	_	eoprobe		Winch		✓ Saf			-	ymer	
Hammer W			140		Track	∐ Ai	r Track		Roller Bit			ughnut	_ ✓	Nor	and the same of th	Spun
Hammer Fa	all (in) Casing	 Sampler	30 Sample		Skid Stratum	<u> </u>			Cutting He	ad Ca	sing		Drive	.1	ა	pun
Depth (ft)			Number &	Sample Dept	Change				Visual Cl	assification	and Re	marks				
[(/	ft	in	Recovery	(ft)	(ft)											
0 _		-	0.1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			96. 6	CAND		royal de				
		30	S1	0.0		very	ichse gray b	own S	ilty fine to co	FILL	some gi	aver, dry				
	CALLED TO SECURE THE SECURE	27	130000													
		7	11"/24" S2	2.0	-	Mediu	ım dense bro	wn bla	ick silty fine t	o coarse SA	ND, trac	ce gravel,	, trace			
		7					cs, moist.									
		6	14"/24"	4.0	<u></u>				***************************************							
		4	S3	4.0		Loose	gray black	gravell	y SAND, slag	, wet.						
5		3					and the second s	A PARTY NAME OF THE PARTY NAME			****		************			
		3	3"/24"	6.0	6.0				0.110							
		2	S4	6.0		Very I	oose gray si	ity fine	SAND, orga	ALLUVIU	JM					
	, yangan seriasi ay 10 Ah bi na na damada	2														
		3	13"/24" S5	8.0)	Same.	except wet.		-							
	V-14 V 412 Table V-10															
		1 2	10"/24"	10.	0											
10	www.w		Victoria de la companione de la companio													
	, sector any ext on an end-decoration	and the second s	Contraction of the Section of the Se													
	January Southerness for School Spring						~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~									
			****	-												
	A SALES AND					-										
			S6	14.0		Very I	oose grav si	tv coa	rse to fine SA	ND, organic	cs, wet.					
15		1			~ · · · · · · · · · · · · · · · · · · ·											
		2	12"/24"	16.		ļ			-							
	*******						de accessor ha de reportant per consequent hands per									

					19.0											
		100/.2	S7	19.0		Very o	lense red sil	y SAN	ID and ROCK	FRAGMENTHERED B	NTS.	v.				
20			3"/3"	19.3		-	-			m of Boring						
		***************************************				Auger	Refusal						*****			

								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***********					
25																
25								9								
	*************************					ļ							****			

1			-													
30																
		Water	Level Data		1		Sam	ple ID				Sumn			_	
Date	Time	Elapsed Time	Bottom of	Bottom of	Water (ft)	0	Open End	Rod		Overburder			20			
		(hrs)	Casing (ft)	Boring (ft)		T	Thin Wall Undisturb		ple	Rock Core Number of		/	7S			
						S	Split Spoo				NG NO.			1-11	0	
						G	Geoprobe			1						

BORING NO. HA-111

														Pa	ge	1 о	f 3
PROJECT		PORT OF RO	CHESTER								H&A FILE	NO.	70	819-00	0		
LOCATIO		ROCHESTER									PROJECT	MGR.	M.	VALI	ENTINE	3	
CLIENT		LABELLA A									FIELD RE	Ρ.	R.	DEDR	ICK		
CONTRAC		GEOLOGIC I									DATE STA	RTED	23-	-May-(00		
DRILLER		L. TODD									DATE FIN	ISHED	23-	-May-(00		
F1	261.0	3 ft Dat	Cit	. 1	Boring 1	Locatio	m	See Bo	rino	Locati	ion Plan						
Elevation Item	251.8	Casing			Rig Mal					Truck N					Drill M	Iud	
Туре		HSA	SS	NX	✓ Truc		-	ipod	T	√ Ca	at-Head	Hamr	ner Type	e		Bento	nite
Inside Diam	eter (in)	3-1/4	1-3/8	2	ATV		G	eoprobe	[w	inch	1	Safety			Polyn	ner
Hammer W				11, 21, 22, 22	Trac	k	□ Ai	r Track		Ro	oller Bit		Dough	nut	V	None	
Hammer Fa	ıll (in)		30		Skid	-				Cı	utting Head	Casin	g		Driven		Spun
D (1 (6))	Casing	Sampler	Sample Number &	Sample De	nthi	atum				X	/isual Classific	ation an	d Remai	rks			
Depth (ft)	Blows per ft	Blows per 6	Recovery	(1t)		(ft)					isum Cinssine						
_ 0 _			11000.019		\neg							SV					
_ ' _			No sample			0.5			_		CRUSH	PHALT ED STO	NE				
		3	S1	1.0					silty	fine to	coarse SAND,			fine to o	oarse		
		3	5"/12" S2	2.0	2.0		SANI), dry. un dense gra	v br	own fir	ne to coarse SA	ND. little	e silt. we	t.			
		6	- 32									ILL					
	WATER CONTROL OF THE STATE OF T	7 6	8"/24"		4.0				*****						~~~		
-		9	S3	4.0	1.0		Medi	ım dense gra	y br	own gr	een (mottled) s	lty fine	to coarse	SAND	, some fi	ne	
5		4 19					grave	, wood, moi	st.	Water ii	n borehole at 3.	9 ft.					
		21	12"/24"		6.0												
		19	S4	6.0			Dense gray brown gravelly SAND, wet. Rock Obstruction in shoe.										
		27	************					ang kanganan ng pangangang ang kangang kangang ang kangang ang kangang ang kangang ang kangang ang kangang ang			V						
		32	16"/24" S5	8.0	8.0		Verv	dense grav b	row	n fine to	o coarse SAND	some fi	ne grave	l, wet.			
		24		- 0.0													
		26 25	20"/24"		0.0			** 100*********************************									
— 10 —		10	S6	10.0	1	0.0	Medi	ım dense gra	y bi	rown fir	ne to coarse SA	ND.		·			
		15									ALL	UVIUM	·				
		19	17"/24"		2.0												
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							*****							an open fra open production and the s		

15									c		rse SAND, som	a fina to	coarce	ravel r	noist		
		4 6	S7	15.0			Loose	gray brown	11116	to coa	ise SAIND, Soil	e me to	·	Tavel, I			
		3			7.0												
	*******	3	14"/24"		7.0	****											
		And the state of t				na) ad praesente alt y di tro											
														~			
20	·	1	S8	20.0			Very	loose gray b	row	n fine s	and SILT, wood	l, natura	laminat	ions in	soils, mo	ist.	
		1 2															
		2	18"/24"		22.0												

-																	
25											Lott to True	-1					
25 —			S9	25.0			Very	loose gray b	row	n fine s	and SILT, little	ciay, wo	od.	and the same and the same and the same			
		1				***											
			24"/24"		27.0												

								and an interest on, the second our last								~~~~	
															,,		
30																	
			Level Data	F P	-F 1			San Open End			0	hurden (Linear ft	Summ	ary 8.5		
Date	Time	Elapsed Time (hrs)	Bottom of Casing (f		I W 8	ater (ft)	O	Thin Wal	l Tu	be	Rock	Cored (Linear ft	5			
23-May	10	0.75	Casing (I	Joing ("	3.9	บ	Undisturb				ber of S	-	T	4S		
							S	Split Spoo	on S	ample	1	BORING	NO.		HA	-111	i

TEST BORING REPORT

BORING NO.
HA-111

Pepth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		2	S10	30.0		Very loose gray brown fine sand SILT, little clay, root structures, wood, moist.
	· · · · · · · · · · · · · · · · · · ·	2	270/270	22.0		
		3	24"/24"	32.0		
						ALLUVIUM
	A PART DISTRICT STATE OF THE PART OF THE P	***********				
_ 35						
		2	S11	35.0	****************	Same, except some clay.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 2	24"/24"	37.0	·····	
	ALAST TATTATION INSTITUTE AT A THAT					
- 40-		2	S12	40.0		Very loose gray-green fine sand SILT, root structures, red fine to coarse sand in
		2 2				shoe, moist.
		6	24"/24"	42.0	42.0 —	
	, again lighter ann an Aire ann an Aire ann an Aire ann ann ann ann ann ann ann ann ann an					GLACIAL TILL
45		70	S13	45.0		Dense red brown SILT, little clay, gray green fractured sandstone.
		33			- 46.0 -	
		12	16"/24"	47.0		
# 0					parameter and the second of th	
_ 50	A. 48 A. 18 A.	1007.2				No Recovery.
	transity street something of spatially spit do					
		- Alexander Alexandre				
		A*************************************				
_ 55		1007.2	014	55.0	- 55.0 -	Very dense red, brown fractured sandstone, red brown silt, wet.
		100/.2	S14 2"/3"	55.0		Yety delise red, blown machined samusions, red blown sin, we.
						WEATHERED BEDROCK

					***************************************	Auger Refusal at 58.5 ft.; began rock coring.
— 60 —						
	MARKET STANFORD STANFORD	i				
20						
— 65 —		*********************				
	***************************************		-			
_ 70 						
						FILE NO. 70819-000 BORING NO. HA-111



BORING NO.
HA-111

Page 3 of 3

			~	1		x.11ge = 0.1
Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
,						Competent red sandstone with interbedded gray sandstone.
		***************************************	****			
ŀ		10 A A 10 - 10 - 10 - 10 - 10 - 10 - 10				QUEENSTON FORMATION
						Bottom of Exploration at 63.5 ft.
	and an inch historical date that is not feel good.					And a pro- state of the contract of the contra
— 65 —						
_ 03		***********	~~~			Monitoring well installed in adjacent borehole. See Installation Report for LBA-MWI
		*************	************			IOF LDA-IVI W I
	Commande and their Impaired by Part Share (April					
		*****************	***************************************			

70	e que de contrador de describios que d'actifica de la contrada de la contrada de la contrada de la contrada de					

	(martin martin martin)					
	American de la companya de la compa	Andrea Andrea Communication and the Communication of the Communication o				
	The Property of the State of the Control of the Con					
— 75 —						
		V				
	And the same than the same and the same of the same					
						# 3 YEAR TO THE THE SHEET AND

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— 85 —						
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				and a section of the		
 90 						
					 	
		***************************************	4.000		-	
			AMERICAN STOCK VANDAGE OF THE STOCK OF THE			
— 95 —						A SECURITY OF PROPERTY AND ADMINISTRATION CONTINUES OF THE ADM
			-			
		-				
				-		
					-	
	1	1	I			
## <i>_</i>						FILE NO. 70819-000 BORING NO. HA-111

CORE BORING REPORT

BORING NO.
HA-111

											Pag	ge 1	of 1
PROJECT		PORT OF R	OCHEST	ER .					H&A FILE	NO.	70819-000		
LOCATIO		ROCHESTE							PROJECT	MGR.	M. VALE	NTINE	
CLIENT		LABELLA							FIELD RE	P.	R. DEDRI	CK	
CONTRA		GEOLOGIC							DATE STA		23-May-0		
DRILLER		L. TODD	Dividid						DATE FIN		23-May-0		
NKILLER													
Elevation			atum			ring Location	1					Drill Mud	
Item		Casing	Sampl	State of the last		g Make & Mo			Cot Head	Irra			entonite
Туре		HAS	SS			Truck	Tripod	뇓	Cat-Head	Hammer	afety		lymer
Inside Dian	3 /	3-1/4	1-3/8		2		Geoprobe		Winch Roller Bit		oughnut		one
Hammer W		-	140	412,50		Track Skid	Air Track		Cutting Head	Casing		Driven	Spun
Hammer F			30			Stratum			Cutting Flead	Casing		Birreit	орин
Depth (ft)	Drilling	C N	Reco		Weatherin				Visual Classific	ation and I	Remarks		
Depui (ii)	Rate (min/ft)	Core No. Depth (ft)	(in)	(%)	1100000	(ft)							
	(IIIIIIII)	58.5	(111)	(70)									
	5						Competent red sand	detone	with interhedded a	ray candeto	ne		
	5		***				Competent red sand	datone					
				********					QUEENSTO	NE FORMA	TION		*************
	3			*********					and the second s				*****
	4					******************							
	AND A THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED				************					***	***	****	
5	5	63.5				# M. M. M. M. M. M. M. M.							
										and a set the second set to the second	an ar specific according to the contract of th		
			***	A	A				***********				
										~~~	444		
				*****	a a talan ing kananan			Process and the company		. If the state of			
		************											
10	A MANAGE AND THE CONTROL OF THE CONT	*****************		******	· · · · · · · · · · · · · · · · · · ·	Walter Co. (1997)			and the state of t		and the second section of the second section of the second		
		-		and the second s							*****		
	THE RESIDENCE OF THE PARTY OF T								to a second seco		***	***************************************	
						****				4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	**********		
15							****						
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						AND							
						****	and the state of t						
				The substitute of the standard colour discovering	Na company to deligned to the second of the								
			w				*** *** *** *** *** *** *** *** *** **	***************************************					
20									double to the control of the control				
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3											Andready of the state of the st		
										Charles de California de Calif			
	**************************************								angan sang pangangan pangan panga Pangan pangan panga				
					-								
25										***************************************			
25										****			
				X									
				************			***					*******	****
						the second of the second of							
				**********									
30									and the second of the second o				
			late: I	Dota			Sam	ple ID	— т		Summa	ry	
	T	Elapsed Tir	ater Level	om of B	ottom of Bori	ng Water (f	O Open End	Rod	Over	burden (Lir	near ft)		
Date	Time	(hrs)		ng (ft)	(ft)	water (1	T Thin Wall U Undisturbe	Tube	ple Sam	Cored (lin	ear ft)		
_			-				S Split Spoo		· Other Parket	BORING N	0.	HA-1	11

## TEST BORING REPORT

BORING NO.

													Pa	ge	of	2
PROJECT		PORT OF RO	CHESTER						H&A F	TLE	VO.	708	319-00	0		
LOCATIO		ROCHESTER		2 K					PROJI			M.	VALE	ENTINE		
		LABELLA AS							- FIELD	REP.		R. 1	DEDR	ICK		
CLIENT		GEOLOGIC E							— DATE			9-J	un-00			
CONTRAC			NIEKIKIS	ES					- DATE				un-00			
DRILLER		L. TODD														
Elevation	260.8		-			g Location			uck Mount					Drill N	Iud	
Item						Iake & Mo		7			Hami	mer Type			Benton	ite
Туре		HSA	SS		√ Ti		☐ Tripod ☐ Geoprobe	-	Winch			Safety		1 1	Polyme	
Inside Diam		3-1/4	1-3/8	2			Air Track	干	Roller Bit		li	Doughi	aut		None	
Hammer W		-				kid [	]	=	Cutting Hea	ıd	Casin			Driven		Spun
Hammer Fa	Casing	Sampler	Sample	1		Stratum		-								
Depth (ft)	-	7000	Number &	Sample De	ptn	Change			Visual Cla	ssifica	tion ar	ıd Remai	cks			
	ft	in	Recovery	(11)	_	(ft)									-	
_ 0 _		3	S1	0.0	-				CF	RUSHE	DSTC	ONE				
		4		10.0		1.0			0.1315		LL					
		4	14"/24"		2.0		Loose brown silty	ine to	o coarse SAND	, ary.						
		3	S2	2.0			Loose brown silty	fine to	o coarse SAND	, trace	clay, tr	ace organ	iles, me	oist.		
		3 3								ALLU	IVIUN	1				
		3	18"/24"		4.0											
		3	S3	4.0			Same, except very	loose								
5		2													··········	
	ماسية الراجعة الماسية المستحد المستحد والمستحد	3	18"/24"		6.0					***						
																,
			****	· · · · · · · · · · · · · · · · · · ·												
	***															
			tion the majorities are desprised in the system.				Medium dense bro			aoma	olav no	okate me	niet			
		5	<u>S4</u>	9.0			Medium dense bro	wn II	ne sandy SIL1,	Some	ciay pe	ockets, inc				
10		6														
	- national services of a service of the services	6	17"/24"		11.0		and the same and the same same same same same same same sam			******						
l		*****														
l								. workerson a reco								
1	V-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1															
1			0.5	1110			Loose gray brown	fine s	sandy SILT sol	me clay	nocke	ets moist.		and the same of the same		
		2 2	S5	14.0			Loose gitty brown									
<u> </u>		3	2011/2/11		16.0									ar agus agus an gan agus an gan an an		
		3	20"/24"		10.0		Andrew Spring access to the Party Springer Control of the Springer Control of									
1														*******		
l	, vie man a man man a de de de					19.0		-								
		1-2	\$6	19.0	+	19.0	Loose gray brown	silty	coarse to fine S	SAND,	some	gravel, me	oist.			
20		4								GLAC	IAL TI	ILL				
		5 6	12"/24"		21.0		a distribution of the state of									
1																
1																
1		3	S7	24.0			Loose gray brown	silty	fine to coarse	SAND,	some	gravel, lit	tle clay	, wet.		
25		5 4														
			24"/24"		26.0											
1																
1																
1	***************************************	-														
30	-						a of half programmed to the or a finished and the second		M	7			Summ	arv		
			Level Data Bottom o	f   Bottom	of I		O Open End	nple I Rod		Over	burden	(Linear f	t) 4	11		
Date	Time	Elapsed Time (hrs)	Casing (fi			Water (ft)	T Thin Wal	1 Tub	e	Rock	Cored	(Linear f	ft) -			
		()	6 (1				U Undisturb S Split Spo			-		Samples	]	08	4-112	
					- 1		S Split Spo	on oa	inpro	I B	ORIN	G NO.		KL	7-117	Ĺ

### TEST BORING REPORT

BORING NO.
HA-112

epth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classificati	on and Remarks	
		5 16	S8	30.0	*********	Medium dense gray brown silty fine to coarse Sa	AND, some gravel, little clay,	
		19				wet.		
		21	23"/24"	32.0			The second secon	
	W ***	**************************************						
				************		The second secon		
- 35	~,	35	S9	35.0		Same, except very dense		
		46		55.0				
		46 62	24"/24"	37.0				*********
			21721	37.0				
		44 46	S10	39.0		Same.		
<b>→</b> 40 <b>—</b>		66						
		100/.3	24"/24"	41.0		Bottom of Explo	ration at 41.0 ft	
		•	THE RESERVE OF THE PROPERTY OF	and the state of t		Bottom of Explo	Idion at 71.0 It.	
	and the second section of the second section of the second							
			Suppose that This Pay And I of the territory an accommodition					
		The state of the s	to place the second second design of the second sec					
			-11,4111					
45								
				A ************************************				
	~~~~							
- 50	a tanàna tanàna dia dia mandri dia dia			ļ			-	
		. Bugi, segmente apravante spraga più dell'occiden l'appille	The same time is not because it is the of the property of the same	and the second s				
	**************		***************************************					
		11-74 - 2 - 11-12-12-12-12-12-12-12-12-12-12-12-12-1	······································	Participate of the sale and development of the sale of	,		***	
- 55								
	and the second s							
60-								

	and the second of the second of the second							
- 65							and the same of th	
	The second subsequently provided that we'll be self-						What is a little and the second and	
→ 70 								
						FILE NO. 70819-000	BORING NO. HA-112	2

BORING NO.

									Page 1 of 2
PROJECT	,	PORT OF RO	CHESTER				H&A	FILE NO.	70819-000
LOCATIO	N .	ROCHESTER	R, NEW YO	RK			PROJ	IECT MGR.	M. VALENTINE
CLIENT		LABELLA A					FIEL	D REP.	R. DEDRICK
CONTRA	CTOR	GEOLOGIC I	ENTERPRIS	SES			DATI	E STARTED	7-Jun-00
DRILLER		L. TODD					DATI	E FINISHED	8-Jun-00
Elevation	270.8				oring Location		ring Location Plan		Drill Mud
Item		Casing			tig Make & M		5 - Truck Mount	lu	
Туре		HSA	SS		Truck	☐ Tripod	✓ Cat-Head Winch	Hammer	afety Polymer
Inside Diam	- ' '	3-1/4	1-3/8	2	ATV	Geoprobe Air Track	Roller Bit		oughnut None
Hammer W					Track	☐ AIF ITACK	Cutting He		Driven Spun
Hammer Fa		Canadan	30 Sample	The government of the	Skid Stratum		Cutting Tie	au Casing	
Depth (ft)	Casing Blows per	Sampler Blows per 6	Number &	Sample Dep	th Change		Visual Cl	lassification and I	Remarks
Dep.ii (ii)	ft	in	Recovery	(11)	(ft)				
_ 0 _							C - CAND		the second section of the court of the second second of the court of the second section of the second secon
		1 2	S1	0.0		Loose brown silty	fine SAND, organic	os, ary.	
		3					************		
		3	16"/24"		.0	Vary loose brown	red silty fine to con	rse SAND little ro	ck fragments, slag, dry.
		3 2	S2	2.0		very roose brown	ica sitty inic to coal		
		2						FILL	
		3	14"/24" No	4.0	.0	No Recovery			handly halfand yearshippy and an administrative a may say of the Community of American Administrative American
		3 4	Recovery			- Constant			
5	***************************************	5							
	and the first own over the same of	7	2"/24" S3	6.0	.0	Loose brown red s	ilty fine to coarse S	AND, little rock fr	agments, slag, dry.
		5			*************				
	THE WORLD CONTRACT THE PARTY	4	15"/24"		0				ing many plants about the control of
		4	S4	8.0	.0	Same.			
		100/.4	4"/24"	8	.9			Obstruction at 8.3 f	
		name to the property common special and consequences of the property of the second	************					Distruction at 6.3 1	
 10									
						Note: Moved 4.0	ft. to south. Blind in 10.0 ft. south of	augered to 10.0 ft.	and hit auger refusal again.
					and the second s	lvioved aga	in 10.0 it. south of	second bornig. Sc	c Boring 177 115th.
	A SEC SECULOS CONTRACTOR AND						the first that the state of the	********	
	*****						regiment glock for excellent has been been broken and both resistance and	*****	
15									
		A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1							

	And a second resident and a second resident								

								W-W-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
20									

			·						
1									the second section of the s
25						***			
									any yng yn ym anna ann a thai glann ag y gaernangai y dan a'r gag yn ar yn yn yn ar dae a dae an gaernan an ga Mae'n ar gaernan gaernan a gaernan ar gaernan ar gaernan a'r gaernan a gaernan a gaernan a gaernan a gaernan a
1									and the second
1		***							
30 =		(1)	II S :			San	iple ID	1	Summary
		Water Elapsed Time	Level Data	of Bottom o	f lw	O Open End	Rod	Overburden (Lin	near ft) 27.0 ft.
Date	Time	(hrs)	Casing (f	DAYS CONTRACTOR CONTRACTOR		T Thin Wal	Tube	Rock Cored (Lin	
							ed Sample on Sample	Number of Sam	
	1		1			- Opin spor	oumpro	BORING N	о. НА-113

TEST BORING REPORT

BORING NO.

HA-113a

					19.00					P	age 2	of	f 2
PROJECT		PORT OF RO	CHESTER					H&A FILE N	Ю.	70819-0			
LOCATIO		ROCHESTER		RK				PROJECT M			ENTINE		
	114	LABELLA AS						FIELD REP.		R. DEDI			
CLIENT	CTOP	GEOLOGIC E						DATE STAR	TED	7-Jun-00			
CONTRAC			MIERPRI	DE9				DATE STAR		8-Jun-00			
DRILLER		L. TODD							IIDD	0-Juli-00			
Elevation	270.				oring Location		ring Locat				In all M	ıd	
Item		Casing			ig Make & N		5 - Truck		Hammer	Type	Drill Mu	id Bentoi	nite
Туре		HSA	SS			☐ Tripod		at-Head Vinch		fety		olym	
Inside Diam		3-1/4	1-3/8		ATV	Geoprobe Air Track		oller Bit		oughnut		Vone	
Hammer W	. , ,		100	(水) (株) (株) (水)	Track Skid	All Hack		utting Head	Casing	Г	Driven		Spun
Hammer Fa	all (in) Casing	 Sampler	30 Sample		Stratum				ь			_	- CONTRACTOR - CON
Depth (ft)	Blows per		Number &	Sample Dep	Change		,	Visual Classificat	ion and R	emarks			
	ft	in	Recovery	(11)	(ft)								
_ 0 _													
										~~			
								(Blind augere See Borin		ft.)			
								GCC DOTTI	P ****-113				
	, and through the Address to the of the State of												
			~~ ····				****						
5							and the year our literature makes and						

				MANAY OF THE PROPERTY OF THE PARTY OF THE PA									
								The state of the s					
			an formula depresal agrico e adrigar il primare di grandi				ar to construe the total of the color of the						
10		1	S5	10.0		Loose brown red s	lty fine to	coarse SAND, lit	tle rock fr	agments, sla	ag, moist.		
		2											
		3	3"/24"	12	0			FI	LL				
		3	3 124	12									
								and the second s	**********				
		***************************************			_								
						(Slag obstruction i	n spoon)						
15		7	S6	15.0		Cotag obstruction i	300011)						
		TI ,				-							
		11	1"/24"	17	.0		ages I and they are qualificationed with the						
1													
					20.0								
20		3	S7	20.0	20.0	Very dense gray b	rown silty	fine to coarse SAl	ND, some	gravel, poc	kets of clay	ey	
		14 36				silt, moist.		GLACL	AL TILL				
		50	22"/24"	22	.0								
1							*****						
		-											
25		30	S8	25.0		Same as above.							
		76 98											
		100/.3	22"/24"	27.0				Data Pr. I	oratic= =*	27 0 B			
1								Bottom of Expl	oracion at	27.0 II.			

10							ger tog tog the stylette i regardy resource						
30							ple ID	7		Sumn	nary		
		Water Elapsed Time	Level Data Bottom o	of Bottom o	T	O Open End			ırden (Lin	ear ft)	27.0 ft.		
Date	Time	(hrs)	Casing (f	The second second second		T Thin Wall	Tube	Rock C	Cored (Lin	ear ft)	8S		
						U Undisturb			er of Samp		HA-	112-	
		-			_	G Geoprobe	omithic	BC	DRING N	U.	HA-	1138	а

BORING NO.

ALDI			Д							Page 1 of 2
								II O A THE T	NO 7091	9-000
PROJECT		PORT OF RO						H&A FILE	-	
LOCATIO		ROCHESTER						PROJECT N		ALENTINE
CLIENT		LABELLA AS	SSOCIATE	S				FIELD REP	-	EDRICK
CONTRAC	CTOR	GEOLOGIC E	ENTERPRI	SES				DATE STAI	-	fay-00
DRILLER		L. TODD					-	DATE FINIS	SHED $25-M$	1ay-00
Elevation	261.9	2 ft Dat	um C	City	Boring Locati	on See	Boring Loca	tion Plan		
Item	201.5	Casing			Rig Make & N		55 - Truck			Drill Mud
Туре		HSA	SS		✓ Truck	Tripod	V	Cat-Head	Hammer Type	Bentonite
Inside Diam	ieter (in)	3-1/4	1-3/8		ATV	Geoprobe		Winch	✓ Safety	Polymer
Hammer W	eight (lb)		140		Track	Air Track		Roller Bit	☐ Doughnu	
Hammer Fa			30		Skid			Cutting Head	Casing	Driven Spun
	Casing	Sampler	Sample	Sample Der	Stratum			Viewal Clausifian	tion and Remark	
Depth (ft)		Blows per 6 in	Number & Recovery	(ft)	Change (ft)	1		Visual Classifica	mon and Remark	S
	ft	m	Recovery		(11)					
_ 0 _		1	S1	0.0		Medium dense l	rown sandy	SILT, brick, dry.		
		7 12						F	ILL	
		6	6"/24"		2.0	A1, 444 AV - A1 -				
		6	S2	2.0		Medium dense l	rown black	sandy SILT, brick	t, slag, dry.	
	- Name and the Control of the Contro		***************************************							
		5	8"/24"		1.0	Come				
		8	S3	4.0		Same.				
_ 5 _		7								
		35	10"/24" S4	6.0	5.0	Medium dense	rown black	silty SAND, brick	c, slag, dry.	
		22								
		16	12"/24"		8.0					
		50/.3	S5	8.0	5.0	Same, except so	me rock fra	gments.		
		17								
		1007.4	9"/24"	1	0.0					
- 10 - 	Company of the Control of the Contro	100/.3	S6	10.0		Concrete Obstru	ction	ation, see log HA-	1140	
	****			10.3		(offset 6 south	or initial loc	ation, see log rix-	1144)	
		.,								
									***************************************	*
			THE POPULATION AND ADDRESS OF							
		***	***********				*****			
1,5										
15		***************************************								
1	The second second second second second									-
1	and grown years of a replacement							alan kanan dagan aga san dan dari kan kan kan da kan da kan da da kan		
20										
20										
1										

1										
1		The state of the s					~~~~			
			ļ							
25								repaired interestant but the resident and part of the depth of the second		
		Secretary for all and the control of the control of the control								

30										
		Water	Level Data			S	ample ID			ımmary
Date	Time	Elapsed Time	Bottom		i water (i	O Open E	nd Rod		ourden (Linear ft) Cored (Linear ft)	25.0
Date	Time	(hrs)	Casing (ft) Boring ((t)	1 111111 11	'all Tube ırbed Sampl		cored (Linear it) oer of Samples	108
	+	-	-				oon Sample		ORING NO.	HA-114

BORING NO.

HA-114a

									Pa	ge 2 of 2
PROJECT		PORT OF RO	CHESTER				H&A	FILE NO.	70819-00	0
LOCATIO		ROCHESTER		RK				JECT MGR.	M. VALE	NTINE
		LABELLA AS						D REP.	R. DEDR	
CLIENT		GEOLOGIC E				******		E STARTED	25-May-0	
CONTRAC			MICKER) L'O				E FINISHED	25-May-0	
DRILLER		L. TODD								
Elevation	261.9				oring Location		ing Location Plan			Drill Mud
Item		Casing		0010 201111	ig Make & M	Tripod CME 55	- Truck Mount Cat-Head	Hamme	r Tyne	Bentonite
Туре		HSA	SS		7 Truck ATV	Geoprobe	Winch		Safety	Polymer
Inside Diam		3-1/4	1-3/8		Track	Air Track	Roller Bit		Doughnut	✓ None
Hammer We	0 1	-	30		Skid		Cutting He		П	Driven Spun
Hammer Fa	Casing	Sampler	Sample		Ctuatum					
Depth (ft)	Blows per		Number &	Sample Dep	Change		Visual C	lassification and	Remarks	
	ft	in	Recovery	(11)	(ft)					
_ 0 _										
	ranga kinaan ngorong nasir saken arip sakena ha							****		
	And the second of the second or second							nd Augered to 12.0		anne de la companya del companya de la companya del companya de la companya del la companya de l
							(See	e Boring Log HA-	114)	

1							***************************************			
_ 5 _	***********									
							and a fig. of the control of the con			
		Approximation of records, the Approximation of the								
10					CONTRACTOR OF THE PROPERTY OF		and an extension of the street		v	
	Charles and the country of Contact and									

		20	S7	12.0		Very dense gray bla	ack blue gravelly S	SAND, slag, wet.		
		97 90						FILL		
		29	15"/24"		14.0 —			***************************************		
	and the second s	3 5	S8	14.0	14.0	Medium dense gray	y brown clayey SII	L1, moist.		
15		8						ALLUVIUM		and the second
		12	16"724"	10	5.0					and the first processing of your of the foreign physical and about the processing the field with responsible of

				10.0	19.0 -	Medium dense bro	un eilty fine to co	arse SAND some	gravel, wet	
		7	S9	19.0		iviculum dense oro	manty fine to co	and or into, some	D- 11. 51, 1701.	and a second of the control of the c
20		20	and the second of the second o							
		21	18"/24"	2	1.0			GLACIAL TILL	, , , , , , , , , , , , , , , , , , , ,	
										4 14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
		87	S10	24.0		Very dense gray br	own fine to coarse	SAND, some gra	vel, wet.	
25		1007.4	10"/24"	24.0	4.9	. or, across gray or				
25							Bottor	n of Exploration a	t 25,0 ft.	
		M. (M.) M.				Monitoring well in LBA-MW3.	stalled in complet	ed borehole. See l	Installation Re	port for
				The State of the S		LDA-WW3.	gang ang paga daga angkandi ay kan talah kabi di kabi bara kanga pila kabi			
							a grant or any any any any and and any any any any any			
30							a gaparani menanda a Ara-gari Aggir ika menjagi kanar galawa da kanar da kenanda menenda sebagai da kenanda m Peranda kanar galawa da kenanda da kenanda kenanda kenanda da kenanda da kenanda da kenanda da kenanda da kena			
30		117	Law-I N :			Sam	ple ID	1	Summa	ary
	Τ	Water Elapsed Time	Level Data Bottom	of Bottom o	of week	O Open End	Rod	Overburden (Li	near ft) 2:	5
Date	Time	(hrs)	Casing (f			T Thin Wall	Tube	Rock Cored (Li Number of San	inear ft)	
						U Undisturbe S Split Spoo		BORING		HA-114a

TEST BORING REPORT

BORING NO.

									Pag	e 1 of 1
PROJECT		PORT OF RO	CHESTER				H&A	FILE NO.	70819-000	
LOCATIO		ROCHESTER		RK			PRO	JECT MGR.	M. VALEN	NTINE
CLIENT		LABELLA AS	-					D REP.	R. DEDRI	CK
		GEOLOGIC I					DAT	E STARTED	25-May-00)
CONTRAC DRILLER	,	L. TODD	2141121711712	DO .			-	E FINISHED	25-May-00	
DRILLER										
Elevation	253.6	-			ing Locatio		ring Location Plan 5 - Truck Mount			Drill Mud
Item		Casing			Make & M		Cat-Head	Hammer		☐ Bentonite
Туре		HSA	SS		Truck	Tripod Geoprobe	Winch		afety	Polymer
Inside Diam		3-1/4	1-3/8		ATV Track	Air Track	Roller Bit		oughnut	✓ None
Hammer W	_		10.00	Control of the State of State	Skid	All Hack	Cutting H			Driven Spun
Hammer Fa	all (in) Casing	 Sampler	30 Sample		Stratum					
Depth (ft)			Number &	Sample Depth	Change		Visual C	lassification and R	Remarks	
	ft	in	Recovery	(ft)	(ft)					
_ 0 _			****			****		CRUSHED STONE		
					, have a series of 1-2 and 1-2					
	CARLA MICHIGANIA PROPERTIES PROPE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			******		
		14	SI	2.0	****	Very dense black b	lue gray silty fine	to coarse SAND, br	rick, slag, dry.	
		54						FILL		
		34 42	16"/24"	4.0			****	TILL		
	W-9	28	S2	4.0		Same, except mois	t.			
5		48				And the state of t				
		20	14"/24"	6.0				OOV ED AOLVESIES	Cwat	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12	S3	6.0		Medium dense bro	wn-black sandy Ro	OCK FRAGMENTS	5, Wet.	
		13								
		8	7"/24"	8.0		Same.				
			S4	8.0	The state of the s	Same.				
	The second secon	7	717-71	100		and a first factor was to the first of the control of the depth of the control of				
10		10	4"/24" S5	10.0		Same.	April, Paril 1 da (10 d brownight beir handfall fried 1 dans 1 dans			
		5								
		6	4"/24"	12.0	· · · · · · · · · · · · · · · · · · ·					
		12	S6	12.0		Same.				
		8 12				and the same of the same and th				
		8	6"/24"	14.0						

<u> </u>										
1										
1										
				any ara-drawate and the second state of the se						
1			S7	19.0		Loose brown-gray	sandy SILT, organ	nics, wet.		
		2 2	31	17.0		20030 olowii gray				
20		3	10"/24"	21.0			And an area and an area and a second and a second area.	ALLUVIUM		
1			10 /24	21.0			ige it get verk den der der der verk den der			
1										***
		3	S8	24.0		Same.				
25		4			· · · · · · · · · · · · · · · · · · ·					
		3	10"/24"	26.0						
							Botto	m of Exploration at	26.0 ft.	
1										
	****									· · · · · · · · · · · · · · · · · · ·
30										
	1		Level Data			San	iple ID		Summa	
Date	Time	Elapsed Tim	e Bottom o		Water (ft	O Open End T Thin Wal	Rod Tube	Overburden (Lin Rock Cored (Lin		
	-	(hrs)	Casing (ft	Boring (ft)	+	U Undisturb	ed Sample	Number of Sam		
	_						on Sample	BORING N	io.	HA-115

BORING NO.

		•								Pa	ge 1	of 1
PROJECT		PORT OF ROO	CHESTER				H&A	FILE N	0. 7	0819-00	0	
LOCATIO		ROCHESTER,		RK			PRO	JECT MO	GR. N	M. VALE	NTINE	
CLIENT		LABELLA AS						D REP.	_	R. DEDR	ICK	
CONTRAC		GEOLOGIC E					DAT	E START	TED 2	2-Jun-00		
DRILLER		L. TODD	DICI ICI				DAT	E FINISI	IED 2	2-Jun-00		
				y. I		0 D						
Elevation	252.4				ring Locatio g Make & M		ing Location Plan - Truck Mount				Drill Mu	d
Item					Truck	Tripod Civil 3.	Cat-Head	I	Iammer Ty	/pe		entonite
Type	rates (I. N	HSA 3-1/4	SS 1-3/8		ATV	Geoprobe	Winch		✓ Safe			olymer
Inside Diam Hammer W		3-1/4	140		Track	Air Track	Roller Bit	t		ghnut		lone
Hammer W Hammer Fa				The state of	Skid		Cutting H	lead (Casing		Driven	Spun
	Casing	Sampler	Sample	Sample Denti	Stratum		¥27 1.0	Negiti	an and D.	aarka		
Depth (ft)		Blows per 6	Number &	(ft)	Change (ft)		Visual C	iassincati	on and Ren	IAI KS		
	ft	in	Recovery			0.4 ft. TOPSOIL						
— 0 —		4	SI	0.0		Medium dense blac	k blue silty fine to	coarse SA	ND, slag, d	гу.		
		16 19						FIL				
		24	11"/24"	2.0								
		22	S2	2.0	_	Same, except wet.	and the first property of the state of the s					
	*****************	12 21		any array a manage management array may management at								
		III	12"/24" S3	4.0)	Same.	and when the second				A. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	
_		42 25	33	7.0							and the second s	
_ 5 _	***	10 20	8"/24"	6.0			and a state of the state of the state and the state of th				Tankas diponyolida birdi majirajin birdi majirajin birdi majirajin birdi majirajin birdi majirajin birdi majir	
		14	8"/24" S4	6.0		Medium dense bro	wn fine to coarse	SAND, slag	ζ			
		12										
		4 2	10"/24"	8.0	0	And the second s					******	
		3	S5	8.0		Medium dense gra	y brown fine to co	arse SAND	, some grav	ei, wet.		
		5 8										
10		10	8"/24"	10.	0	Same.					and the second s	
10		18 7	S6	10.0		Gallie.						****
		4	007878		0		The same and the s	ALLU'	VIUM		The second street and second second second	
1		6	8"/24"	12.								
	Mary Cod Cod Cod										**************************************	
		/A-W-1/										
15		1	S7	15.0		Loose gray brown	fine sand SILT, or	rganics, mo	oist.			
		2										
		3	3"/24"	17.	0							
			3.27									
	-											
											Andrew Spiriture Spiriture	
20		2	S8	20.0		Very loose gray bi	own fine sand SII	LT, little cl	ay, organics	, moist.	The state of the s	
		1 3										
		3	16"/24"	22	0							
	and the state of the state of the state of						4-6-4-7-4-7-4-7-4-7-4-7-4-7-4-7-4-7-4-7-				e da de proposito d'écolo de la compensació de l	
1												
							AC 21-2-7-2-7-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2					
2.5						72						
25	***************************************	1	S9	25.0		Same.	and was to the particular the spiriture and the					
		2										
		3	18"/24"	27	.0		Botto	om of Explo	oration at 27	7.0 ft.		
1		***************************************										
1					- 744							
1			-									
30								~				
		Water	Level Data				iple ID		1 /*!	Summ		
Date	Time	Elapsed Time	Bottom	of Bottom of		O Open End T Thin Wal	Rod Tube		ırden (Linea Cored (Linea	urft)		
Date		(hrs)	Casing (ft) Boring (ft	-	U Undisturb	ed Sample		r of Sample		S	
	+	-	-		,	S Split Spoo	on Sample	ВС	RING NO.		HA-	-116

BORING NO.

													-/		age	1	of	1
PROJECT		PORT OF RO	CHESTER							H&A F	ILE	VO.	7	70819-0	000			
LOCATIO		ROCHESTER								PROJE	CT N	IGR.		M. VAL		E		
CLIENT		LABELLA A								FIELD	REP.		I	R. DED	RICK			
CONTRAC		GEOLOGIC I								DATE S			-	24-May				
DRILLER		L. TODD	JATERIA ICI							DATE			_	24-May				
					_				_									
Elevation	253.	7 ft Dat	-	City		ng Locatio	The second secon	100		tion Plan	-		-	-	Drill	Mud	-	
Item		Casing	Sampler	Core Barrel		Make & M					-	Цен	mar T-	me	Driil	-	ntoni	ite
Туре		HSA	SS	NX		ruck	Tripod Geoprobe	L		Cat-Head Winch		Hami	Safe		ᅱ片		lyme	
Inside Diam		3-1/4	1-3/8	2			Air Track	-		Roller Bit				ghnut	一片	No	-	á
Hammer W		-	140	7000		rack kid	All Hack		_	Cutting Head	ł	Casin		Г	Drive		-	Spun
Hammer Fa	ll (in) Casing	 Sampler	30 Sample	一个的方面		Stratum			`	cutting From		Chair	ь					_
Depth (ft)	-	Blows per 6	Number &	Sample De	nthl	Change				Visual Clas	sifica	tion ar	ıd Ren	narks				
,	ft	in	Recovery	(ft)		(ft)												
_ 0 _			0.1	0.0			Medium dense bro	wn (candy	SILT organ	sice d							
		2 4	SI				Mediani dense bro	*****	Januy	DID1, OIGH	1103, 41	3.						
		7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2.0													
		10	8"/24" S2	2.0	2.0		Medium dense bro	wn	blue s	ilty SAND,	found	y, deb	ris, dry	·.				
		9																
	The second second second second second	20	9"/24"		4.0						Fl	LL			*****			
		13	S3	4.0	4.0		Very dense blue-black gray sandy S1LT, brick, slag, moist.											
5		34				very delise of the brack gray standy or by the transfer of the standard gray standard												
		53 50/.4	14"/24"		6.0	Same, except wet.												
	and the street of the street o	62	S4	6.0		Same, except wet.												
		100/.4																
		****************	7"/10"		8.0		Medium dense black-blue silty ROCK FRAGMENTS, wet,											
	A CONTRACTOR OF THE PARTY OF TH	13	S5	8.0			Medium dense black-blue silty ROCK FRAGMENTS, wet.											
		13																
10		15	9"/24"		10.0	10.0	Medium dense con	dv 6	SILT	little clay o	rganic	s. moi	st.		-			
		13 20	S6	10.0			Medium dense sandy SILT, little clay, organics, moist.											
		7							*****									
	general transfer of the second of the second	2	12"/24" S7	12.0	12.0		Medium dense bla	ck-s	gray s	ilty fine to c	oarse	SAND	, some	fine grav	vel, mois	st.		
		5	37	12.0														
		19	12"/24"		14.0					-	ALLU	JVIUN	1					
	*********	19	12 /24"		17.0													
15																		
1																		
1																		

		2	S8	19.0	\dashv		Medium dense gra	y-b	rown	sandy SILT,	little	gravel.	wood,	organic	s, moist.			
20		5																
		6	14"/24"		21.0													
1																		
1																		
1																		
		3	S9	24.0	\dashv		Same.							-				
25 —		3																
		4	17"/24"		26.0													
										Bottom o	of Exp	oratio	n at 26	.0 ft.				
	**********					, 10 a.m.,												

							Monitoring well i	nsta	alled in	n completed	boreh	ole. Se	ee Insta	allation I	Report fo	or		
							LBA-MW2.											
30																		
		Water	Level Data				San							Sumr				
Date	Time	Elapsed Time	e Bottom	of Bottom		Water (ft)	O Open End						(Linear		26			
Date	Time	(hrs)	Casing (ft) Boring	(ft)	()	T Thin Wall						(Linear	,	9S		_	
	-	-	-				S Split Spoo	on S					G NO.		THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE	A-1	17	
	+		-		-		G Geoprobe			1								

TEST BORING REPORT

BORING NO.

HA-118
Page 1 of 2

		DOD= -	arran=-		-		77.0 1	EILE NO	70819-000
PROJECT		PORT OF RO						FILE NO.	
LOCATIO	N	ROCHESTER	, NEW YOR	.K			PROJ	ECT MGR.	M. VALENTINE
CLIENT		LABELLA AS	SSOCIATES				FIEL	D REP.	R. DEDRICK
CONTRAC	СТОР	GEOLOGIC I					DATE	STARTED	8-Jun-00
			רפוא, ואיר דגור	LU				FINISHED	8-Jun-00
DRILLER		L. TODD					DATE	FINISHED	0-3dH-00
Elevation	242.7	78 ft Dat	um Cit	у В	oring Location	on See Bo	ring Location Plan		
Item	212.	Casing		ore Barrel R	g Make & N		5 - Truck Mount		Drill Mud
		HSA	SS		Truck	Tripod	✓ Cat-Head	Hammer	Type Bentonite
Туре						Geoprobe	Winch	✓ Sa	
Inside Diam		3-1/4	1-3/8			Air Track	Roller Bit		oughnut V None
Hammer W	eight (lb)		140		Track	MI ITACK		The second secon	Driven Spun
Hammer Fa			30	2000年18月	Skid	<u> </u>	Cutting He	ad Casing	☐ Briveit ☐ Spuit
	Casing	Sampler	Sample	Sample Dept	Stratum		Visual Cl	assification and D	amanke
Depth (ft)			Number &	(ft)	Change		visuai Ci	assification and R	cmat na
	ft	in	Recovery		(ft)				
_ 0 _						ASPHALT			
		9	SI	0.5		Medium dense bla	k brown red silty fi	ne to coarse SAND), brick, some rock
		18			-	fragments, dry.			
		9	13"/18"	2.	0 2.0		77. 77	FILL	
		7	S2	2.0		Medium dense bro	wn silty fine to coar	ALLUVIUM	
		12			-			APPO A LOIM	
		<u>9</u>	12"/24"	4.	0				***
		4	S3	4.0		Loose gray brown	silty fine to medium	SAND, organics,	moist.
_ 5 _		4							
		3							
		3	12"/24"	6.					
1					and last activity of a report of the second second	****		readon describer de la contrava del contrava de la contrava de la contrava del contrava de la contrava del la contrava de la c	

1 1									
1									A Secretary and processed the processed and control of the last top described on the last top described the secretary and the secretary an
— 10 —		6	S4	10.0	A Partition of the Control of the Co	Medium dense gra	y fine to coarse SAI	ND, little silt, little	gravel, wet.
		14							
		12	1200570	10					
		4	16"/24"	12.	<u> </u>				and the second s
		***************************************	, and a superior and						
			******************			Andrew and war to the property of a second second			
									-
15		3	S5	15.0		Very loose brown	organic SILT, mois	t.	
		- <u>-</u> -1		15.0			3		
		1							
		4	16"/24"	17.	0				
									
			*						

20				AA 6	20.0	1	beauty - Mr. 7	a course CANID	me gravel moiet
		4	S6	20.0		Medium dense gra	y brown silty fine to	o coarse SAND, sor	me graver, moist.
1		16						GLACIAL TILL	
I		22	20"/24"	22.	0				
		-							
									the same of the sa
1				-					
							a de 1907 de servicio de companyo de contrata de principa de contrata de contrata de contrata de contrata de c		
25		28	S7	25.0		Very dense brown	silty fine to coarse	SAND, some grave	l, moist.
1		1007.4	10"710"	25	9				
			where the residence were the second section of the						And the second s
	.,						are and the design of the art that are the second design of the second d	The transfer of the state of th	
								and the state of t	
1									
	y and and any other transfer for the second relations								
30									
		Water	Level Data			San	ple ID	T	Summary
	T	Elapsed Time		Bottom of	111-1-10-1	O Open End	Rod	Overburden (Line	ear ft) 51
Date	Time	(hrs)	Casing (ft)	0.0000000000000000000000000000000000000	Water (II	T Thin Wall	Tube	Rock Cored (Line	
5/8/2000		0.5	81.7		9.1	U Undisturb		Number of Sampl	
	1					S Split Spoo	n Sample	BORING NO	D. HA-118



BORING NO.

HA-118
Page 2 of 2

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and	
		100/.4	S8 3"/5"	30.0		Very dense brown silty fine to coarse SAND, some grav	el, moist.
		1007.4	3 /3	30.4			
				- Market Strategic Strategic Contract C			
			A-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11-14-11				
35		18	- 00	35.0		Same, except gray brown.	
		77 100/.5	S9			Ballio, except gray oroni.	
	, and the second frame to the second	100/.5	12"/18"	36.5			
— 40 —		36	S10	40.0		Same.	
		66	~				
		87	12"/24"	42.0	***************************************		
		4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1					
45							
15		100/.5	S11 3"/6"	45.0 45.5		Same, except trace rock fragments.	
						NA NATIONAL CONTROL OF THE STATE OF THE STAT	and the state of t
	and the second s						
50		100/.4	S12	50.0	*****	Very dense red silty sandstone rock fragments.	en des anno en esta de describira ser adad a destalación pero entiquada a figura (a describir de sente destalación de sente de se
			S12 4"/5"	50.5		Bottom of Exploration a	651 O A
		Annual An				Bottom of Exploration a	
	a commence of the article of the control of the con						
				A			
<i>EE</i>		******************************					
<u> </u>		***************************************					
	and the same the same and the same and the same	And the second s					
			A				
<u> </u>			······································				
				4			
			**************************************				والمرابعة والمرا
— 65 —							
	a relative to the section for the section	-					
	-						

	Action to the second second second						
			-				
70						FILE NO. 70819-000 BO	ORING NO. HA-118

BORING NO. HA-119

												ige 1	of 2
PROJECT		PORT OF RO	CHESTER						H&A FILE	NO.	70819-00		
LOCATIO		ROCHESTER		. morrisolar					PROJECT	MGR.	M. VALI		
CLIENT	- 9	LABELLA AS							FIELD RE	P.	R. DEDR	ICK	
CONTRAC	CTOR	GEOLOGIC E							DATE STA	RTED	2-Jun-00		
DRILLER		L. TODD							DATE FIN	ISHED	2-Jun-00		
				Pity	lp.	ng Locati-	n Caa Da	ring L	ocation Plan				
Elevation	250.5			Core Barrel		ng Locatio Make & M		-	ick Mount			Drill Mu	d
Item		Casing HSA	Sampler SS	NX		Fruck	Tripod	7	Cat-Head	Hamn	ier Type	□ B	entonite
Type Inside Diam	eter (in)	3-1/4	1-3/8	2	_	ATV	Geoprobe		Winch	7	Safety]	olymer
Hammer W		3-1/4	140	A CONTRACTOR OF THE	_	Track	Air Track		Roller Bit		Doughnut	√ N	lone
Hammer Fa			30			Skid			Cutting Head	Casing	g 🗌	Driven	Spun
	Casing	Sampler	Sample	Sample D	epth	Stratum			Visual Classific	ntic-	d Damaula		
Depth (ft)	Blows per		Number &	(ft)		Change (ft)			visuai Classific	ation an	и кешагкз		
	ft	in	Recovery	-	-	(11)				-			
— º —									AS	PHALT			
		44	S1	1.0			Very dense brown	gravel	ly fine to coarse SA	ND, dry.			
		66	3"/12"		2.0	******	A			FILL			
		10	S2	2.0			Medium dense bro	wn silt	y fine to medium S	AND, litt	ile silt, wet.		
		10							ALI	UVIUM			
		7	14"/24"		4.0				6-1-0	NIS 1921	a oilt wat		
		1 7	S3	4.0			Medium dense bro	wn gra	y, fine to coarse SA	וווון, עוזוג	c siit, wet.		
<u> </u>		7											
		7	16"/24"	40	6.0		Medium dense ara	v brow	n fine to coarse SA	ND, som	e silt, little rock	fragments	,
		12	S4	6.0			wet.	, 010W	II THE TO COMESO DA	, 30111			
		20											
		25	10"/24" S5	8.0	8.0		Medium dense gra	y brow	n gravelly fine to c	oarse SA	ND, trace silt, v	vet.	
		14					3						
		25 50	20"/24"		10.0					***			
10			20"/24"		10.0								
										,			

1									OU T				
		14	S6	14.0			Loose gray brown	sandy	SIL1, Wet.				
15		3											
1		3	18"/24"		16.0			****	and the second section of the second				
		/40-40-40-40-40-40-40-40-40-40-40-40-40-4											

					*****			-116-6	ine to coarse SAND	trace	ovel wet		
		3 3	S7	19.0			Loose gray brown	silty f	ine to coarse SANL	, nace gr	avel, wet.		
20		3											
		3	20"/24"		21.0								
1													
1				A10			1	fine	o medium sandy SI	T trace	clay organice	moist.	
,		6 2	S8	24.0			Loose gray brown	me to	medium sandy SI	JI, HACE	olay, organics,		
25		3											
		2	15"724"		26.0		***************************************						
									J				
							Cama						
		1	S9	29.0			Same.						
30		3	14"724		31.0						Commen	arv	
			Level Data		n of		O Open Eng	iple II Rod		rburden (Summ Linear ft) 5	1	
Date	Time	Elapsed Time (hrs)	Bottom Casing (Water (ft	T Thin Wal	Tube	Roc	k Cored (Linear ft)	-	
		()	3	,	, /		U Undisturb			nber of S		3S HA-	110
							S Split Spo	TIBO III	IDIG I	BORING	O.A.	LIA	TIM

TEST BORING REPORT

BORING NO.
HA-119

	Casing		Sample		Stratum	,
Depth (ft)	Blows per	Sampler Blows per 6 in	Number & Recovery	Sample Depth (ft)	Change (ft)	Visual Classification and Remarks
				31.0		
}				31.0		
4		***************************************		**************************************		
		1	S10	34.0		Loose gray brown fine sand SILT, trace clay, organics, moist.
_ 35		2				
_ 00		3 3	17"/24"	36.0		

		1	S11	39.0		Same.
40		2 3			·	
		3	22"/24"	41.0		

				// Market		
			Age day conference which has be included the description of the conference of the co			
		1 2	S12	44.0		Loose, gray fine sand SILT, trace clay, organics.
— 45 —		3				
		3	24"/24"	46.0		
					· · · · · · · · · · · · · · · · · · ·	
		1 2	S13	49.0		Same.
 50		2				
		4	18"/24"	51.0	0	Bottom of Exploration at 51.0 ft.
		And the state of t				
55						

60						
00						
	and the second s					
65						

1						
1						
70						FILE NO. 70819-000 BORING NO. HA-119

TEST BORING REPORT

BORING NO.

												P	age	1 of	r 2
PROJECT		PORT OF RO	CHESTER		_				H&A I	TLE	Ю.	70819-0	00		
LOCATIO		ROCHESTER							PROJI			M. VAL	ENTIN	Е	
CLIENT		LABELLA AS							— FIELD	REP.		R. DED	RICK		
CONTRAC		GEOLOGIC E							DATE	STAR	TED	8-Jun-00)		
DRILLER		L. TODD							DATE	FINIS	HED	9-Jun-00)		
				Nitr.	lp .	ua I ac-4'	n Cas Da-	inc	Location Plan	-			-		
Elevation Item	254.3			Core Barrel		ng Locatio Make & M			Truck Mount				Drill l	Mud	
		Casing HSA	Sampler SS	NX		Fruck	Tripod		✓ Cat-Head		Hamm	er Type		Bento	nite
Type Inside Diam	ieter (in)	3-1/4	1-3/8	2		ATV	Geoprobe	[Winch		V	Safety		Polym	ier
Hammer W			140			Track	Air Track	[Roller Bit			Doughnut	V	None	
Hammer Fa		_	30	"知道的是		Skid			Cutting Hea	ıd	Casing		Drive	1	Spun
	Casing	Sampler	Sample		epth	Stratum			Visual Cla	ecificat	ion and	l Remarks			
Depth (ft)	Blows per ft	Blows per 6 in	Number & Recovery	(ft)		Change (ft)			visuai Cla	Jointal	.on and				
	It		Recovery		+	1									
_ 0 _	******			0.5			ASPHALT Medium dense gray	/ to	black fine to coa	rse SA	VD. son	ne rock fragm	ents, drv.		
		6	S1	0.3			modium dense gray		Clark Into to con	FI	LL				
		20	10"/18"	2.0	2.0		Medium dense blac		o red brown silter	fine to	coarea (SAND some	ock frag	ments.	
		5	S2	2.0			dry.	K U	o rea brown stilly	mie to	COMISC	, in D, aome i	JUN Hag		
		7													
		6	12"/24" S3	4.0	4.0		Same, except loose				_,				
5		3		1.0											
_ 3 _		3	12"/24"		6.0	6.0	744 M 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10								
		1	S4	6.0	5.0		Very loose brown s	ilty	fine to medium	SAND,	trace ro	ock fragments	moist.		
		1 1	makes the second section (second							ALLU	VIUM	Applied the first reason of the first specific control of the property of			
		i i	7"/24"		8.0										
			S5	8.0			Same, except wet.							J.,	
		1													
10		2	3"/24" S6	10.0	10.0		Very loose gray br	owi	n silty fine to coa	rse SAl	VD, littl	e gravel, wet.			
		1	30	10.0											
	Control of the State of the Control	3	18"/24"		12.0										
	~	5	S7	12.0	12.0		Same, except some	gr	avel.						
		5													
		12	16"/24"		14.0				71. 6		CANID	little graval :	vot		
		6 6	S8	14.0			Medium dense gra	y b	rown silty fine to	coarse	SAND,	mue graver, v			
15		5													
1		8	14"/24"		16.0										
	-														

	-														
20				***			Same, except very	Ic-	\(\frac{1}{2}\)					~~~	
		1 2	S9	20.0			Same, except very	100	J30.						
		2			22.0										
		3	14"/24"		22.0										
25		3	S10	25.0			Very loose gray b	row	n fine to medium	sandy	SILT, ti	race clay, orga	nics, mo	ist.	
		1													
1		2	14"/24"		27.0										

							************				***				
30							I San	upl.	. 110	T		Sumi	narv		
		Water Elapsed Time	Level Data		n of	- C	O Open End					Linear ft)	52		
Date	Time	(hrs)	Casing (Section 10 to the section of the sec		Water (ft	T Thin Wall	Tu	ibe		Cored (15S		
							U Undisturb S Split Spoo			-	ORING			A-120)
							G Geonrobe			B	UNING	110.	I.I.	A A A A C	•

TEST BORING REPORT

BORING NO.
HA-120

								A SHIP OF THE REAL PROPERTY.	
Depth Depth Plant Plan	1			Stratum	C 1 P	Sample		Casing	
	1	on and Remarks	Visual Classificat	Change	Sample Depth	NI 0.	Sampler	Blowe per	Donth (ft)
1	1			(ca)	(ft)	Number &	Blows per 6 in	Blows per	Depth (1t)
1				(11)		Recovery		ft	
1					30.0	SII			
2 1	cs, moist.	T, trace clay, organics, moi	Very loose gray brown fine to medium sandy S						
35			The second secon						
ALLUVIUM Size Size	The state of the s					1651610			
1 S12 35.0 Same. 1 2 2 24"74" 37.0 Same. 1 3 3 24"724" 42.0 Same. 3 3 24"724" 42.0 Same. 45 1 S14 45.0 Same. 2 4 4 7 4 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7			And the state of t		32.0	18"/24"	21		
1 S12 35.0 Same. 1 2 2 24"74" 37.0 Same. 1 3 3 24"724" 42.0 Same. 3 3 24"724" 42.0 Same. 45 1 S14 45.0 Same. 2 4 4 7 4 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7		711 18.7	ATTT						
40		TUM	ALLU						
40									
40			\$ (market days) to 47 ft - 6 ft - 74, 1 to 4000 ft - 6 ft - 74, 1 to 4000 ft - 6 ft - 74, 1 to 4000 ft - 74,			744-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14 - 14-14	*****		
40			with a Charact to Character the Character and Associated the State of the Character of Advantages and a contraction of the Associated the Character of the Char						
40									
40 1 S13 40.0 Same. 45 1 S14 45.0 Same. 45 2 24*/24* 47.0 47 3 22*/24* 47.0			Coma		260	010		******	35
2 2 24"24" 37.0			Same.		33.0	512	1		
40		****					1		
40							2		
40					37.0	24"/24"	2		
1 3 3 24"/24" 42.0							*****		
1 3 3 24"/24" 42.0			Control of the Contro			2000/00/2019/00/00			
1 3 3 424°724° 42.0 3 24°724° 42.0 1			property with the first a security of the property of the contract of the cont	-					
1 3 3 424°724° 42.0 3 24°724° 42.0 1									
1 3 3 424°724° 42.0 3 24°724° 42.0 1									
1 3 3 424°724° 42.0 3 24°724° 42.0 1					A CONTRACTOR OF THE CONTRACTOR	Angeles and the latter than the same of the latter than the			
1 3 3 24"/24" 42.0									. 40
3 3 24"/24" 42.0			Same.		40.0	S13	1		40-
3 24"/24" 42.0 3 24"/24" 42.0 45							3		
3 24"24" 42.0 45 1 S14 45.0 Same. 2 4 4 3 22"224" 47.0 50 H S15 50.0 Same. 2 2 24"24" 52.0 Bottom of Exploration at 52.0 ft.				1			3		
45			***************************************	1	42.0	24"/24"		1	
2 4 4 7.0 47.0 47.0 47.0 47.0 47.0 47.0 4			and the state of t		12.0	27 /27			
2 4 4 7.0 47.0 47.0 47.0 47.0 47.0 47.0 4								1	
2 4 4 7.0 47.0 47.0 47.0 47.0 47.0 47.0 4									
2 4 4 7.0 47.0 47.0 47.0 47.0 47.0 47.0 4	and the same of the State and the same of	**************************************		-	The second second second				
2 4 4 7.0 47.0 47.0 47.0 47.0 47.0 47.0 4									1
2 4 4 7.0 47.0 47.0 47.0 47.0 47.0 47.0 4									l
2 4 4 7.0 47.0 47.0 47.0 47.0 47.0 47.0 4				-				i	
2 4 47.0			Same.		45.0	\$14			<u> </u>
4 3 22"/24" 47.0		and the state of t	A SECRETARY OF SECRETARY AND APPROXIMATE AND A		43.0	314		l	
3 22"/24" 47.0 H S15 50.0 Same. 2 2 24"/24" 52.0 Bottom of Exploration at 52.0 ft.			The state of the s						l
- 50 H S15 50.0 Same. 2 2 24*/24** 52.0 Bottom of Exploration at 52.0 ft. - 55 - 60 - 60 - 60 - 60 - 60 - 60 - 60									1
- 50 H S15 50.0 Same. 2 2 24*/24** 52.0 Bottom of Exploration at 52.0 ft. - 55 - 60 - 60 - 60 - 60 - 60 - 60 - 60)	47.0	22"/24"	3		l
2 24 ⁴ /24 ⁴ 52.0 Bottom of Exploration at 52.0 ft.									l
2 244/24** 52.0 Bottom of Exploration at 52.0 ft.			to a residence of the second contract of the	-		Tradition to the state of the s	SHANNER AND AND ASSESSED OF THE STORE OF THE		1
2 244/24** 52.0 Bottom of Exploration at 52.0 ft.			The second secon					and where the other transfer	1
2 244/24** 52.0 Bottom of Exploration at 52.0 ft.								1	ı
2 244/24** 52.0 Bottom of Exploration at 52.0 ft.			A STATE OF THE PROPERTY OF THE						1
2 244/24** 52.0 Bottom of Exploration at 52.0 ft.								1	1
2 24 ⁴ /24 ⁴ 52.0 Bottom of Exploration at 52.0 ft.									50
2 2 24"/24" 52.0 Bottom of Exploration at 52.0 ft.			Same.		50.0	S15	H		30-
2 2 24 ⁴ /24 ⁴ 52.0 Bottom of Exploration at 52.0 ft.							2		1
2 24"/24" 52.0 Bottom of Exploration at 52.0 ft.			and the complete of the comple				2		1
)	52.0	24"/24"		1	1
		ration at 52.0 ft.	Bottom of Expl		32.0	27 /27			1
								1	
									1
								1	
					-	-			— 55 —
				***					1
									I
		AND THE RESIDENCE AND ADDRESS OF THE PROPERTY							i
									1
					1			1	1
					1				1
								1	
			The state of the s						60-
								1	
- 65									1
65									1
			The state of the s						1
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65							, , , , , , , , , , , , , , , , , , , ,	1	1
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65						****			1
65			age of the control of the property of the control o						1
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	and the state of t								65
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	Property and a construction of a series and a series of the series and the series of t		A RESIDENCE OF THE PROPERTY OF				and the same of th		1
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								1	
70 FILE NO. 70819-000 BORING NO.	HA-120	ROBING NO	PILE NO. 70010 000		-				— 70 —
FILE NO. 70819-000 BORING NO.	AMB AND	BORING NO.	KILE NO. 70819-000						

TEST BORING REPORT

BORING NO.

			Щ			TI 1 CD TI		_	Po	ge 1 of 2
							** O 1	FILE NO.	70819-00	60 - 01
PROJECT		PORT OF RO							M. VALE	
LOCATIO		ROCHESTER						JECT MGR.		
CLIENT		LABELLA AS						LD REP.	R. DEDR	
CONTRA	CTOR	GEOLOGIC E	ENTERPRIS	SES				E STARTED	30-May-0	
DRILLER	₹	L. TODD					DAT	E FINISHED	30-May-0	00
Elevation	276 +	-/- ft Date	um Ci	ity B	oring Location	on See B	oring Location Plan			
Item	270	Casing			ig Make & M		55 - Truck Mount			Drill Mud
Туре		HSA	SS		Truck	Tripod	✓ Cat-Head	Hamm	er Type	☐ Bentonite
Inside Dian	neter (in)	3-1/4	1-3/8	2	ATV	Geoprobe	Winch		Safety	Polymer
Hammer W	eight (lb)	-	140	4.与约翰特尔	Track	Air Track	Roller Bit		Doughnut	✓ None
Hammer Fa			1.4		Skid		Cutting H	lead Casing		Driven Spun
	Casing	Sampler	Sample	Sample Dept	h Stratum		Vienal C	Classification and	l Remarks	
Depth (ft)	Blows per ft	Blows per 6	Number & Recovery	(ft)	Change (ft)		y isuai C	Jassincation and	i Kemai ka	
	- "		Recovery	_	()					
├ º -		3	S1	0.0		Medium dense gr	ay brown fine sand	SILT, little clay,	dry.	
		8 8	******			***************************************		FILL		
1		14	16"/24"	2.	0	D	and OH TO 1921	مامیر کے۔		
		18 20	S2	2.0		Dense gray red fi	ne sand SILT, little	ciay, ury.		
		22								
		24	16"/24" S3	4.0	0 4.0	Dense brown silty	y fine to medium SA	AND, little clay, n	noist.	
		20		1.7						
_ 5		24 20	18"/24"	6	0			ALLUVIUM		
		14	S4	6.0		Dense brown silty	y fine SAND, some	clay, moist.		
		21 24								
		20	23"/24"	8	.0					and the first transport of the first transpor
		19	S5	8.0		Dense brown silt	y fine to medium SA	AND, little clay, r	noist.	
1		24 26								
10		28	20"/24"	10	.0	\/ f: 1	own silty fine to co	nega SAND, nock	ete of clay moi	et
		14 8	S6	10.0		Medium dense of	own sitty time to co.	arse SAND, pock	icis of city, mo	
	AND THE PROPERTY OF THE PERSON	12	***************************************							
		17	19"/24"	12	.0		AND A TO SELECT OF THE PARTY OF			
		And the second s	**************************************							
1										
1										
15		7	\$7	15.0		Medium dense bi	rown silty fine to co	arse SAND, little	clay, moist.	
		7		13.0						
	and the second second second second second	9	1202230	17						
		10	16"/24"	17	.~					

20		4	S8	20.0		Same.				
		5								The second section is the second section of the second section of the second section is the second section of the section of th
1		5 6	18"/24"	22						
1	Company of the Assessment Company of the Company of									
1										

25 —		3	S9	25.0		Loose gray brow	n sandy SILT, som	e clay, moist.		
		3 4								
		4	20"/24"	2′	7.0					
1						and the state of t				
1										
	Company of the State of the State of									
20			ļ							
30						90	mple ID		Summ	ary
		Water Elapsed Time	Level Data Bottom o	of Bottom o	f w	O Open En	d Rod	Overburden (Linear ft) 6	1
Date	Time	(hrs)	Casing (f	The second second second	I water (ii	T Thin Wa	ill Tube bed Sample	Rock Cored (I Number of Sa		0 6S
					-		oon Sample	BORING		HA-121
	1	1				T a Commit		DOME		

TEST BORING REPORT

BORING NO.
HA-121

				1	Cumbra	Tage 2 of -
epth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		6	\$10	30.0		Medium dense brown gray silty fine to coarse SAND, little gravel, wet.
		8	~~~~~	20.0	************	GLACIAL TILL
	n.e. n.e	10	20"/24"	32.0		GLACIAL IILL
- 1			*******			
25						
- 35		16	S11	35.0		Same.
		18 20	14"/24"	37.0		
		20	14 /24	37.0		
		and the state of the	Agricultural formation and constitutional an			
- 40-				10.0		Very dense brown gray silty fine to coarse SAND, some gravel, wet.
		64	S12	40.0		Very dense brown gray sitty time to coalse 37(42), some gravet, wet.
		37	17"/24"	42.0		
	And 1					
8						
		************	and the second s	a Court day after the property day and the property day		
 45		14	S13	45.0		Same, except little gravel.
		44				
		100/.4	17"/18"	46.5		
			****	() () () () () () () () () ()		
 50 		6	S14	50.0		Same.
		100/.2	6"/8"	50.7		
		Condition which the Arthurston of the Condition	www.restantiker mende soorte termente			
<u> </u>		30	S15 3"/9"	55.0		Same.
		1007.3	3 /9	33.6		

						1
60					60.1	
		100/.4	S16 2"/5"	60.0	60.4	Same. Began Rock Coring at 61.0 ft.
	-					Moderately fractured red SANDSTONE with interbedded gray sandstone, clay
						pockets.
	# Manage And Total And Tot					
— 65 —						BEDROCK

						Bottom of Exploration at 71.0 ft.

CORE BORING REPORT

BORING NO.
HA-121

														P	age 1	l of 1		
PROJECT	,	PORT OF I	ROCH	IESTER							H&A FILE NO. 70819-000							
LOCATIO		ROCHEST									PROJE	ECT M	GR.	M. VAL	ENTINE			
CLIENT	-	LABELLA									FIELD	REP.		R. DEDI	RICK			
CONTRA		GEOLOGI									DATE		TED	31-May-	00			
DRILLER		L. TODD	O DIVI	101	.52						DATE			31-May-				
DKILLER	٠.									-								
Elevation			Datum					g Location Iake & Mod	Ial	MARKET SERVICE	-				Drill M	Iud		
tem		Casing	Sa	ampler		Barrel	-	Truck	Tripod	V	Cat-Head	T	Hamme	r Type		Bentonite		
Гуре		HAS	+	SS	1	NX 2	_	ATV [Geoprobe		Winch	F	_	Safety		Polymer		
nside Dian		3-1/4	-	1-3/8	1000000	2		Track [Air Track	H	Roller Bit			Doughnut		None		
Hammer W Hammer Fa			-	30			_	Skid [ī		Cutting Hea	d	Casing		Driven	Spun		
nammer F	Drilling		1	Recover		COLD CALL SALES		Stratum										
Depth (ft)	Rate	Core No.	·	RQD	,	Weathe	ring	Change			Visual Cla	ssificati	ion and	Remarks				
	(min/ft)	Depth (ft)	(in))	(%)			(ft)										
		61.0											********					
ŀ	·		Andronomican	-					The state of the s		****							
1	6 to 7		********						Moderately fractu	re red S	ANDSTONE	with int	erbedde	d gray sandst	one, clay			
	minutes		4.8/2	2.1	*****			and the state of t	pockets.									
1									QUEENSTONE FORMATION									
	per foot		************						* # ** ** ** ** ** ** ** ** ** ** ** **		producer programme for the second control of			******	****			
5		66.0																
_ 3 _				entropy and		work skinds and skinds of the		and the second second second	. Od draw Street Marsham Andrews and street and 250 and 400 ft Annie 100 ft Annie 1		······································	THE RESERVE AND ADDRESS OF THE PERSON.		***********	to the second second			
	*************				DE NOS DE STOLET LA PROPRIA STOLET ST	o di Adipositivo desi diferenti spesio di mano		AND THE RESERVE OF TH			and a supplementary of the constraint of the con					an dia mandri di san di sandri mandri mandri di di di di sandri di sandri di sandri di sandri di sandri di san San di sandri di sandri di sandri mandri di sandri di di di sandri di sandri di sandri di sandri di sandri di s		
	5 to 5			2.0	****										************			
	minutes	on analysis and a series event.	4.5/3	3.9	*****			paper discrete de grande provinció de la constitució de la constit	g gar apart of the second control of the sec						*****			
	WAS THE PERSON NAMED IN PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF T													and the second s				
	per foot			-4-2-2-2				grade that the processes of the processes are the second of the second o										
10		71.0						# . (1) - (1	A 440 MAY 14 A 440	Colonia Miles Aprello Miles	Dottom	of Evolo	ration at	71.0.0				
			·		******	and the same and t		and production for the second contract the second	the second secon		Bottom o	or Explo	oration at	1 /1.0 11.	***********			
			the second control of the									de la comitación de la						
	***							an annih kali sali sali populari kali maka				-	er den samte sy diven den propries and a			THE R. S. P. S.		
					and the second second		married that control of the	And the second section of the second	Annual of the state of the stat									
		***		*********		****		And the last section where the section is a section of the section							***			

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20				AND THE RESERVE				parameter and her tipes in home to be the		******								
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		**********	ļ						The state of the s		*****	***************************************						
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			***********					A VALUE OF THE REAL PROPERTY OF THE										
					*****								~~~~					
<u> </u>															the same of the sa			
			Water	Level D	ata				Sar	nple ID				Sumn				
Date	Time	Elapsed T	ime	Bottom	of B	ottom of	Boring	Water (ft)	O Open End	Rod		Overbu	irden (L. Cored (li		61 10			
Date	Time	(hrs)	_	Casing	(ft)	(ft)			U Undistur	oed San	nple	Sample			16S			
									S Split Spo	on Sam	ple		RING I	NO.	H	A-121		

TEST BORING REPORT

BORING NO.

						_									1	Page		1 0	of 2	
DDOIECT		PORT OF RO	CHESTED								H&A I	FILE	Ю.	7	70819-0					
PROJECT		ROCHESTER		P.K							PROJI			-	M. VAI		TINE	3		
LOCATIO	M								_	_	FIELD				D. NOS		_			
CLIENT	omor	LABELLA AS								_	DATE		TEL	-	31-May					
CONTRA		GEOLOGIC E	ENTERPRIS	SES							DATE			_	31-May					
DRILLER	l .	L. TODD								_	DATE	THAIS	TIEL		, i -ivia)	,-00				_
Elevation	252.	8 ft Dat	um Ci			ing Location		-	-		ation Plan		- 10			T _e	111.5			
Item		Casing	Sampler (Make & M		CME-5	-	-						D	rill M	_	anit.	
Туре		HSA	SS	NX		Truck [Tripo			_	Cat-Head		-	mer Ty	-	_		Bento		
Inside Dian	neter (in)	3-1/4	1-3/8	1-7/8		ATV [Geop		닏		Winch		~	•	ty ghnut			Polyr		
Hammer W		-	140			Track [Air T	rack		_	Roller Bit Cutting Hea	d	Casi		gmut		riven		Spu	n
Hammer Fa			30	1.00	_	Skid [-		7]	Cutting Hea	id	Casi	ing			Tiven		_ opt	_
Depth (ft)	Casing Blows per	Sampler Blows per 6	Sample Number &	Sample De	pth	Change					Visual Cla	ssificat	ion a	nd Ren	narks					
Depin (ii)	ft	in	Recovery	(ft)		(ft)														
_ 0 _						- 0.3	V 1'	1	I. L		, coarse to fi	TOP		oinder	c little	arave	_			_
		7 8	<u>S1</u>	0.0	-		Medium	uense dar	K DIC	JWN,	, coarse to fi			, cinder	3, 111110	Brave				
1		10										FI	LL							
1		6	14"/24" S2	2.0	2.0		Same.				remarkações de la calenda de la celebra d									
1	1	6	34	2.0													*			
1	***************************************	5	TOUR OF		10															
		3	10"/24" S3	4.0	4.0		No Recovery.													
_ 5 _		3																		
		2	0"/24"		6.0															
		2	S4	6.0			Loose da	rk brown	coar	se to	o fine sand, s	some gr	avel,	trace si	lt, wet.					
		3 2																		-
		2	2"/24"		8.0															
1		2	S5	8.0			Same.													
		2 3	·																	
10		21	18"/24"		0.0		0													
10		2	S6	10.0			Same.				and the state of t		*****							
	. Andread Control of Antibiotics in	6																		
1		26	14"/24" S7	12.0	2.0															
1		24	31	12.0																
		10	20"/24"		4.0	13.2	Dense b	ue-gray g	rave	ı, lit	tle coarse to	fine sai	id, we	et.						
1		3	S8	14.0	4.0	142 -														_
15		2				****	Very loc	se brown	ORC	JAN	VICS, trace s	and, tra	ce silt	t, wet.						
		3	16"/24"		6.0	15.5	Very loc	se gray-b	rown	Tin	e clayey SIL	T, som	sanc	, little	organics	s, mo	ist.			
		****										ALLU	VIII	м						
												,,,,,,,	, 101							
1																				
		-																		
																				-
20			S9	20.0	_		Same, e	cept little	e fine	e sar	nd.	····								
		2																		
		1 2	24"/24"		22.0			ar na 4 ar managa yang santa sa	-											
			24 /24																	

25		2	S10	25.0			Same.													
		2																		
1		2	20"/24"		27.0		,	and the second second second												
1			23.21																	
1								and the same of the same of the same of			*****									
			<u> </u>																	
1																				
<u> </u>	-									72					0.					
		Water	Level Data	r D	o.r		0	San Open End	nple			Overh	urden	(Linea		mary 37	у			
Date	Time	Elapsed Time (hrs)	Bottom o Casing (ft	and the same of the same of		Water (ft)	Т	Thin Wall Tube Rock Cored (Linear ft) 5												
		(1113)	Casing (I	, , , ,				Undisturb		Sample Number of Samples 12S										
							S	Split Spor	OII DI	amp	10	I Re	DIN	G NO.			HA	1-12	L	



BORING NO.
HA-122

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		2 3	S11	30.0		Loose gray-brown clayey SILT, little fine sand, little organics, moist.
		3		and the state of t		
	a and agree and a short office of the first of	3	24"/24"	32.0		ALLUVIUM
					A. P	
75						
— 35 —		1	S12	35.0	36.0	
	a description and the second of the second o	6 8	Contract (Contract of Contract	ļ		Medium dense brown-red coarse to fine sandy SILT, some gravel, little clay, damp to moist. GLACIAL TILL
	o magining and pray some Tables view	30	15"/24"	37.0	37.0	to moist. GLACIAL TILL Observed auger refusal at 37.0 ft. Begin coring at 37.0 ft. See Core Boring Report.
		*******************************	10000000000000000000000000000000000000		2004 W.S. SANSK P. S. S. SANSK P. S. SANSK	Observed auger retusal at 57.0 ft. Begin coring at 57.0 ft. dec colo Boring report
	***************************************	***************************************	- Market agent is an all a contract and a contract			
40			***			
— 40 —		************************				
						Bottom of Exploration at 42.0 ft.
						DORION OF EXPROPRIOR AT 42.0 ft.
	AND SHARE STREET, STOLEN SPANISH	****				
— 45 —				A APP		
	-			-	C to commence or with our commence or	
			Management of the Control of the Con	* * * * * * * * * * * * * * * * * * * *		

			Chy the form the state of provide the provide the state of the state o			
— 50 —						
				-		

	Andread Va. Andread Co. Andread Co. Andread Co.					
		to a second seco				
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— 60 —						
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	·			ara (ara	-	

— 65 —						

— 70 —					 	FILE NO. 70819-000 BORING NO. HA-122
	L					FILE NO. 70017-000 DOMING NO.

CORE BORING REPORT

BORING NO.
HA-122

													Pa	age	1 of	. 1
PROJECT	1	PORT OF F	ROCHEST	ER						H&A F	ILE NO).	70819-00	00		
LOCATIO		ROCHEST								PROJE	CT MC	GR.	M. VAL	ENTINE	3	
CLIENT		LABELLA								FIELD	REP.		R. DEDF	UCK		
CONTRA		GEOLOGIC								DATES		ED	30-May-	00		
DRILLER		L. TODD								DATE			30-May-			
			D .		T-	- due Y										
Elevation			Datum	ou C	The Real Property lies and the Personal Property lies and the	oring Location	on Aodel							Drill M	1ud	
Item		Casing HAS	Sampl	er Coi		✓ Truck		ripod		Cat-Head	Н	ammer	Туре	П	Bentor	nite
Type Inside Dian	leter (in)	3-1/4	1-3/8			ATV		Geoprobe		Winch			afety	1 🗇	Polym	er
Hammer W		J-1/4 	140			Track		ir Track		Roller Bit			oughnut	V	None	
Hammer Fa			30	\$100 UCL \$100 P		Skid				Cutting Head	d C	asing] Driven		Spun
	Drilling		Reco	very		Stratur				***						
Depth (ft)	Rate	Core No.	RC		Weatherin	Change (ft)	e			Visual Clas	ssilicatio	n and R	temarks			
	(min/ft)	Depth (ft)	(in)	(%)		(11)	_									
ľ						i'	7 0 Regi	n Coring at 3	7.0 ft				anne produktion metrodog artiste produktion		******	
ŀ		37.0		400000000000000000000000000000000000000		-	Mod	erately soft. n	noderate	ely weathered i	red-brow	n-green	mottled fine	grained		
		***						thin to thin be y partings.	edded S	ANDSTONE V	with clos	e to very	y close weat	hered		
			48	80			SHALE	y partings.								
ľ	**********	RI	35	58	MOD					QUEEN	STON FO	ORMAT	TION			
40	~			CAN CANNA A DOCUMENT AND			*****					N 40 2 10000 F 17 1800 F				
										****			***************************************			
ľ		42.0		*** *********			2.0			**************************************						
1		42.0							****	Bottom	of Borin	ng at 42.	0 ft.			
	A valor property and the second secon							***	******			****	*****	~~~~~~~		
			*****	******	en or a server have been server as well as the server as											
<u> </u>			~~~~~~~~~~	***********		~~~			P-47-36-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-							
			***************											*****		
				where the second decimal and		***					, page agricultural specifical data per Architect	2 Acres - M. Pry Ny ark and All Sec. 100				
	*****	***********								**************************************		********				
	****		* ***	Control of the second personal way we	A 4 A 7 (1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1				**********					.,		

				******				and the state of t	****	high of powering his distribution of charge and products who	and the same of th			***************************************		
50	hay warmen had been to deep to the second of	· (alternative specific and the specific s	****				r, gjalanna proje de incomplèmes, per mestre de seu de la			21 N. C 7 A. Alexander Area (A. C.)					
	rayan da Sarana da S							angely and of the district the text of the section						-		
	- 100									AND	*****	***				V
			***************************************	******************												
				****							*******	******				
		************		******						property and the same same property and the same and the						
55				***												
				**********		****			No. Company of the Control of			****				

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				An Advention of the second						anger (), by a freezens it and a stop-come of a children for a firm in a conf. I		·	-	****	p. 10.0000 at 10.000, 00.000	
60		*********		**********				***		*****						
	e decimina de la secona de la secona															
			and the market and all the second	********						era nemana, and kerne also keep of an entre have been a second						
			***						***							
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			*******									•				
LE.																
<u> </u>										nde ondere op en familier se on one of the end of the e	***					
		1	Vater Leve	l Data					nple ID		0		Summ	ary		
Date	Time	Elapsed Ti	me Bott	om of	Bottom of Bor	water ((ft) C				Overbure Rock Co		ear ft) 3	1		
		(hrs)	Casi	ng (ft)	(ft)		u	Undisturb	bed Sam	ple	Samples		7	2S		
								Split Spor		pie	BOR	RING N	0.	H	A-122	
	1	1	1			1							Company of the last of the las			

BORING NO.

		8											Page	1 (of 4	
PROJECT		PORT OF RO	CHESTER						H&A	FILE	NO.	70819-0)00			
LOCATIO		ROCHESTER							PROJ	ECT N	IGR.	M. VAI	LENTIN	Е		
		LABELLA AS							FIELI			R. DED	RICK			
CLIENT									- DATE			-				
CONTRAC		GEOLOGIC I	ENTERPRIS	ES					_							
DRILLER	`	L. TODD							DATE	FINE	SHED	o-Jun-C	U			
Elevation	253.6	54 ft Dat	um Ci	ty	Borin	ng Locatio	n See Bor	ing Lo	ocation Plan							
Item	255.0	Casing	*****			Make & M			ick Mount				Drill 1			
Туре		HSA	SS	0010 2011101	√ Tı		Tripod	V	Cat-Head			mer Type			tonite	
Inside Diam	eter (in)	3-1/4	1-3/8	2	ПА		Geoprobe		Winch		V	Safety		Poly	mer	
Hammer W		3-1/4			T		Air Track		Roller Bit		$1\overline{\Box}$	Doughnut	V	None	and an about the	
Hammer Va		-	30			kid	ī l		Cutting Hea	ad	Casin	g [Drive	n [Spun	
Hammer Fa	Casing	Sampler	Sample		1	Stratum					-					
Depth (ft)	Blows per		Number &	Sample De	nthl	Change	Visual Classification and Remarks									
	ft	in	Recovery	(ft)		(ft)										
_ 0 _				0.0	工		(0.3 ft. TOPSOIL) Medium dense brov	vn or	v sandy CII T	little	CORree	rravel dry				
		8	<u>S1</u>	0.0			medium dense pro	gra	., Junuy OILI		ILL	u.y.				
		8						*****								
		8	8"/24"		2.0		Medium dense bro	Vn == 1	silty fine to	Coarea	AND	trace fine grav	el. dry			
		7	S2	2.0			wicdiam dense bro	160	uny mic to (Jun at 1	,	mo gidi				
1		8	The Ready Committee of the Section of Committee of the Co								******					
		8	13"/24"		4.0		Came average									
		3 4	S3	4.0			Same, except mois									
_ 5 _		3														
1		3	16"/24"		6.0		Loose brown red si	ltv 6	e to coarna d	AND .	ace fi-	e gravel wet				
1		2 2	S4	6.0			Loose brown red si	icy fin	o to coarse 5/	, II	1111	- DILITOI, WCL.				
		2														
		2	20"/24"	and the second second second second	8.0		Medium dans II	k her	wn eilts finn	0.000	SANI), wood wet				
		1 4	S5	8.0			Medium dense black brown silty fine to coarse SAND, wood, wet.									
1		4 8	************					**************************************		************						
10	oragono and the control of the contr	9	16"/24"		0.0		No Pass									
_ 10 _		3	S6	10.0			No Recovery.									
1		3 2			_											
1	****	2	0"/24"		12.0		N- B-					· · · · · · · · · · · · · · · · · · ·	*********	-		
		5 5	S7	12.0			No Recovery.									
1		3 5		***												
	Various	3	0"/24"		14.0		Loose gray brown	eilter /*	ne to coa (TAND	some	rganice melat	-			
1		3 4	S8	14.0			Loose gray brown	Jiity II	to coarse t	,	201116 ()	Danies, moisi				
15		 									75.55					
1		3	19"/24"		16.0					ALL	UVIUN	1				
1					-			*****								

1											-					
1																
1		2	S9	19.0	\dashv		Loose gray brown	clayey	/ SILT, little s	and, m	oist.					
20 -		2							***********							
		2 2	10"/24'	ı,	21.0	***************************************										
1			10 /24									**********				
1																
1																
1																
1							Cor-	- CI								
1		1 2	\$10	24.0			Same, except little	ciay.	A				hapty hands the state of the state of the			
25		2							***							
1	and the same of th	2	14"/24"		26.0											
							-									
			-													
			SII	29.0	-		Same.									
		2														
		Water	15"/24"		31.0		Sam.	ple II)	1		Sum	mary			
	_	Water Elapsed Time	Level Data Bottom of	f Bottom	of T	***	O Open End					(Linear ft)	114			
Date	Time	(hrs)	Casing (ft	the second that the		Water (ft)	T Thin Wall	Tube		Rock	Cored	(Linear ft)	2			
		1					U Undisturb			1			24S			
							S Split Spoo	n Sam	ipie	B	ORING	G NO.)HI	A-12	13	

TEST BORING REPORT

BORING NO.
HA-123

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
				31.0		
				**************************************	/*************************************	
				100 to 10		
		2 2	S11	34.0		Very loose gray brown fine to medium sand SILT, trace clay, organics, moist.
35		2	300/040	36.0		
		4	20"/24"	36.0		
						ALLUVIUM

		T	S12	39.0		Same.
<u> </u>		2 2		A COMPANY OF THE PARTY OF THE P		
		3	14"/24"	41.0		

			\$13	44.0		Very loose gray silty fine to medium SAND, moist.
45		2	513	44.0		Tely 1000 gray any fine to meeting entropy from
		2	19"/24"	46.0		
		***	•			
		1 2	S14	49.0		Loose gray fine sand SILT, trace clay, organics, moist.
<u> </u>		3 4	20"/24"	51.0		
			20 /21	31.0		
	angle frank angles from the sufficient of the					

	-	<u> </u>	S15	54.0		Same.
55		1 3				
		3	20"/24"	56.0		
		I	S16	59.0		Same.
60		2 5				
		4	20"/24"	61.0		
				~ ~~~		
			015	74.0		Loose gray fine sand SILT, trace clay organics, moist.
<u> </u>		3 1	S17	64.0		Loose gray line said 3121, trace day organics, most.
0		4	24"/24"	66.0		

		WOH 5	S18	69.0		Same, except medium dense.
	1					

TEST BORING REPORT

BORING NO.
HA-123

Page 3 of 4

					04 4	A tigo
Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
			···	*****	V-2012/1-100-00-00-00-00-00-00-00-00-00-00-00-0	
					a producers, case water as the prime case and fine i	
			V. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.			
		4	S19	74.0		Medium dense gray fine sandy SILT, trace clay, organics moist.
75		5				
/3		8 9	25072.70	76.0		ALLUVIUM
	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	9	22"/24"	/6.0	and the second second second second second	
		2	S20	79.0		Same.
80		5				
		7 9	23"/24"	81.0		
			23 724	81.0		
			A-14-1 14-14-14-14-14-14-14-14-14-14-14-14-14-1			
						The property of the state of the property of the state of
				e ya manamana wa di da ari pambigis di tagan ayan		
		5	S21	84.0		Same.
85		5				
		8 9	2011/231	86.0		A SECONDARIO CONTROL OF THE RESIDENCE OF
		9	20"/24"	80.0		
	1					
	Carlotta Sellinsking Styles and Antonio	5	S22	89.0		Medium dense gray brown silty medium to fine SAND, trace clay, moist.
00		5				
		8		017		
			21"/24"	91.0)	
				A		
	Carrentage as Alexander Species and					
		MATERIAL AND A 14 MATERIAL AND				
		WOR	S23	94.0		Very loose gray brown silty medium to fine SAND, trace clay, moist.
0.5		WOR WOR				
— 95 —		WOR				
1	A-4	5	22"/24"	96.0	1	
l						
l						
1						
		5	S24	99.0		Same, except medium dense.
100		7				
<u> </u>		8	337787	101		
			22"/24"	101.0)	

					ļ	
		WOR	S25	104.0		Same, except very loose.
105		WOR WOR				
<u> </u>		WOR	8703810			
		WOR	24"724"	106.	<u> </u>	
1						
1					1	
	The state of the same of the s					
1		3	S26	109.0		Medium dense gray brown silty fine to medium SAND, trace clay, pockets of
1		-3-5	320	107.0	-	rock fragments, moist.
110 -		3	2 23"/24"	III.		FILE NO. 70819-000 BORING NO. HA-123

TEST BORING REPORT

BORING NO.

HA-123
Page 4 of 4

	Carles	Sampler	Carrell		Ctrotum	1 age 4 01 4
n	Casing	Sampler	Sample Number &	Sample Depth (ft)	Stratum	Visual Classification and Remarks
Depth (ft)	Blows per	Blows per 6	Number &	(ft)	Change	Visual Classification and Remarks
	ft	in	Recovery	()	(ft)	

						person and the state of the sta
						ALLUVIOM
	************			COLUMN TO THE REAL PROPERTY.		A SECTION OF THE CONTRACT OF T
	per trains again tradescar made career to	CONTRACTOR				
				And the second s	114.0	- Ad 20 Min. Opening service de contraction contractions (section) and a fine-order desired de
		1007.2	S27 2"/3"	114.0		Very dense sandy ROCK FRAGMENTS. WEATHERED BEDROCK
	1		2"/3"	114.2		WEATHERED BEDROCK
<u>115</u>						Began rock coring 114.0 ft.

						Bottom of Exploration at 116.0 ft.
			Mindeline and Article States of Stat			
	produced from the company of the first to					

100			****************	Comment of the Commen		
<u> </u>			and the state of t	A CONTRACTOR OF THE PARTY OF TH		

		***************************************	***************************************			
	Carpa Long Trap (sept set (se) care species served					
		, quarries shared American State of the American State of the	***************************************			
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		Control of the Contro	** *** *** *** *** *** *** *** *** ***	******	Andreas and the second of the second of	
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150 -						FILE NO. 70819-000 BORING NO. HA-123
1						FILE NO. 70819-000 BORING NO. HA-123

CORE BORING REPORT

BORING NO.

HA-123

1 of 1 H&A FILE NO. 70819-000 PORT OF ROCHESTER PROJECT M. VALENTINE PROJECT MGR. ROCHESTER, NEW YORK LOCATION R. DEDRICK FIELD REP. CLIENT LABELLA ASSOCIATES 5-Jun-00 DATE STARTED GEOLOGIC ENTERPRISE CONTRACTOR DATE FINISHED 6-Jun-00 L. TODD DRILLER ft Datum City Boring Location See Boring Location Plan 253.6 Elevation Drill Mud Rig Make & Model CNE 55 - Truck Mount Sampler Core Barrel Item Casing Bentonite Tripod 4 Cat-Head Hammer Type ✓ Truck SS NX HAS Type Polymer Winch ✓ Safety ATV Geoprobe 1-3/8 3-1/4 Inside Diameter (in) 4 None Air Track Roller Bit Doughnut Track 140 Hammer Weight (lb) Driven Spun Cutting Head Casing Skid 30 Hammer Fall (in) Stratum Recovery Drilling Visual Classification and Remarks Depth (ft) RQD Weathering Change Rate Core No. (ft) (min/ft) Depth (ft) (in) (%) 114.0 Begin coring at 114.0 ft. Moderately soft, moderately weathered red-brown-gray mottled fine-grained SANDSTONE 114.0 R1 MOD QUEENSTON FORMATION 115 116.0 116.0 Bottom of Boring at 116.0 ft. 120 125 130 - 135 - 140 Sample ID Open End Rod Thin Wall Tube Summary Overburden (Linear ft) 114 Water Level Data Time | Bottom of Bottom of Boring Elapsed Time Water (ft) Rock Cored (linear ft) Time Date TUSG Casing (ft) (ft) (hrs) 27S Undisturbed Sample Samples Split Spoon Sample HA-123 BORING NO.

TEST BORING REPORT

BORING NO.

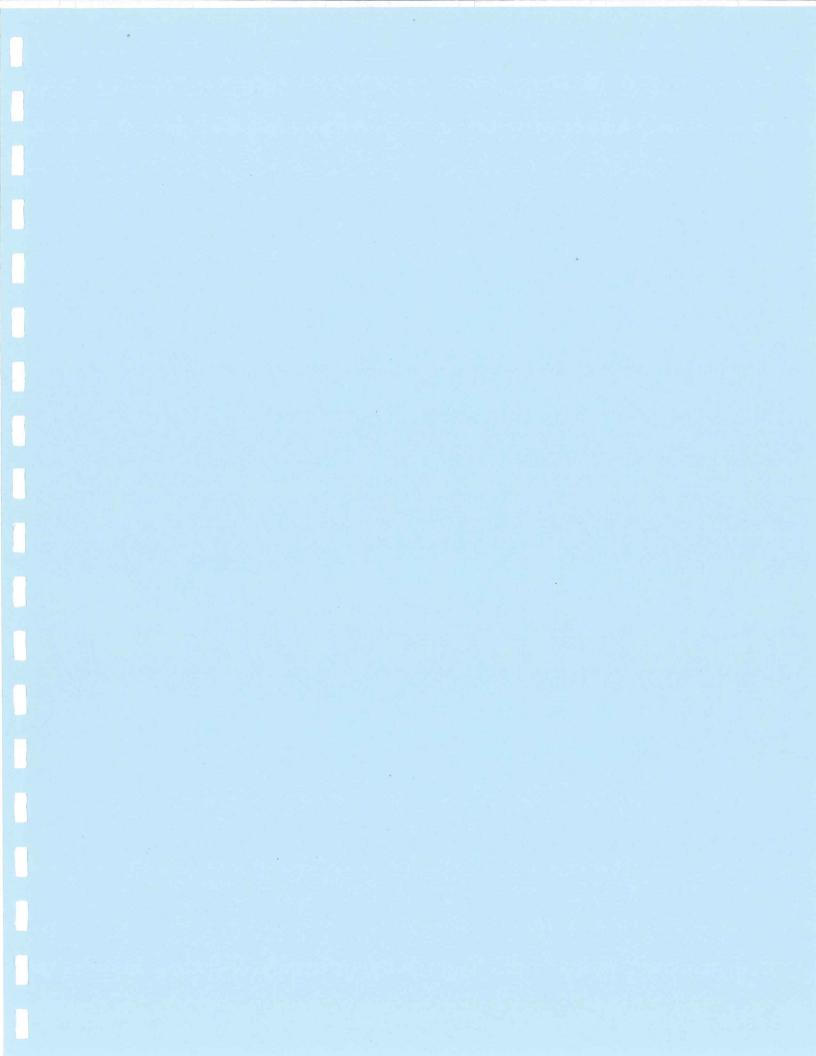
			_						Page	e 1 of 1
nn c :		DODE OF PC	OTTEGEE				11 0.	A FILE NO.	70819-000	
PROJECT		PORT OF RO		DV.				JECT MGR.	M. VALEN	TINE
LOCATIO	ON	ROCHESTER	-					LD REP.	R. DEDRIC	
CLIENT		LABELLA AS						LD REP. TE STARTED	12-Jun-00	
CONTRA		GEOLOGIC E	ENTERPRIS	SES					12-Jun-00 12-Jun-00	
DRILLER	2	L. TODD					DA'	TE FINISHED	12-Jun-00	
Elevation	267.9	92 ft Date	um C		oring Locati		ring Location Plan	n	1.	- M M - 1
Item		Casing	Sampler		g Make & N		5 Truck Mount	ı İv		Drill Mud Bentonite
Туре		HSA	SS		Truck	Tripod	✓ Cat-Head Winch		r Type Safety	Polymer
Inside Dian		3-1/4	1-3/8] ATV	Geoprobe	Roller Bi		Doughnut	None None
Hammer W		-] Track] Skid	☐ Air Track	Cutting I			Oriven Spun
Hammer Fa	all (in) Casing	 Sampler	30 Sample		Stratum	Γ				
Depth (ft)		200	Number &	Sample Dept	Change		Visual	Classification and	Remarks	
	ft	in	Recovery	(11)	(ft)					
0								ASPHALT		
						Madin J. I	wn block sile. f	CRUSHED STON e to medium SAND	E little gravel as	h brick
		6 4	S1 12"/12"	1.0	0	dry			, muo graver, as	,,
		3	S2	2.0		Loose brown silty	fine to coarse SA	ND, moist.		
		7 2						FILL		
		4	18"/24"	4.	0					
		7 7	S3	4.0		(Black rock obstru	ction in spoon.)	· · · · · · · · · · · · · · · · · · ·		
5		4								
		4	1"/24"	6.	0	Loose brown silty	SAND organics	wet.		
		3	S4	6.0		23030 Diomi sitty				
l		3	17"/24"	8.	0			and the second contract and the second secon		· · · · · · · · · · · · · · · · · · ·
		2	S5	8.0		Same.				
		5	, ray, and a project and any regulated several dis-							
		4 3	24"/24"	10.	0		- Van man man dreature na materiale na a	79	10.00	
<u> </u>			engen green programme transporter transpor				Botto	m of Exploration a	1 10.0 ft.	ACC 2004 of 48 hours
						-				
							4			**************************************
				And the second second second second						
15	4						AND 77 (c) 1			
		A								
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							many na managana i kalifatan yaabhaan ya ka shadan man			
30										de 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			Level Data				nple ID	Overburden /I	Summar inear ft) 10	у
Date	Time	Elapsed Time					1 Tube	Overburden (L Rock Cored (L	inear ft)	
	+	(hrs)	Casing (f	bornig (it		U Undistur	oed Sample	Number of San	nples 5S	
	-		i			S Split Spo	on Sample	PODING	NO	HA-124

BORING NO.

HALE ALDR	IY & IICH			res'	ГВ	BOR	ING R	EP	ORT		F	IA-125
											Page	1 of 1
PROJECT		PORT OF RO	CHESTER						H&A FILE	NO. 70819	-000	
LOCATIO		ROCHESTER							PROJECT N	M. VA	LENT	INE
CLIENT		LABELLA AS							FIELD REP	R. DE	DRICE	ζ
CONTRAC		GEOLOGIC E							DATE STAI	RTED 12-Jur	1-00	
DRILLER		L. TODD	SI TE ET ET ET	020					DATE FINIS	SHED 12-Jur	n-00	
				0:-	T.,		Can Da	alaa La	cation Plan			
Elevation	255.2			City	-	ing Location Make & M			ck Mount		Di	rill Mud
Item		Casing	Sampler	Core Barr	0.	Truck	Tripod	<u> </u>	Cat-Head	Hammer Type	1	Bentonite
Туре	-1 (!-)	HSA 3-1/4	SS 1-3/8	2		ATV	Geoprobe	ΙĦ	Winch	✓ Safety	ー i	Polymer
Inside Diam Hammer We		3-1/4	140	District Control			Air Track		Roller Bit	Doughnut	l i	✓ None
Hammer Fa			30	21 1 1 2 2 1 5 2		Skid	<u> </u>		Cutting Head	Casing	☐ Di	riven Spun
Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number of Recovery	& Sample		Stratum Change (ft)			Visual Classifica	tion and Remarks		
_ 0 _									ACE	IIII T		
			The second second second second							HALT ED STONE		the control of the co
	AND POST OF PERSONS ASSESSED.	12	S1	1	.0		Medium dense bro	wn blac	ck gravelly SAND, sl	ag, dry		
1		3 7	4"/12" S2	2.0	2.0		Loose brown gray	silty fin	ne to medium SAND,	damp		
		4		2.0						ILL	ander, land by the thereto	
		2	15"/24"		4.0		A to a great germanical agreement of \$10000 Kinds St.y.		and the special section of the second section of the second secon	**, ******	grangist particular (1994) at	of a code (in come state in contrast the other safe are the formation of a second
	Constitution of the Consti	3	S3	4.0	4.0		Same.		e, tega mandino) alle assessable solvide e est de la constitució de la final meno.	and the second s		
_ 5 _		2 4				A defendance of conference of				and the second of the second o		
		2	14"/24"		6.0				agentation of the control of the con	a proposition of the proposition of the second seco		
		3 3	S4	6.0		and the second s	Loose gray silty fir	ne SAN	ID, some clay, little g	ravel, damp		
		3			******							
		7	18"/24"	0.0	8.0	8	Very dense brown	grav si	Ity fine SAND, some	gravel damp		
		8 28	S5	8.0		graph and the same of the same of	very delise brown	gray si	ATTA TOTAL STATE AND ADDRESS OF THE SECOND AND ADDRESS OF THE			and the second s
	THE PERSON NAMED IN	29 28	15"/24"		10.0		and the second of the second o		GLAC	IAL TILL		
— 10 —		20	15"/24"	-	10.0				Bottom of Exp	loration at 10.0 ft.		A A STATE OF THE PARTY OF THE P
												and the second state of the second section of the second

											g (1 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to	The state of the s
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		the second control of the control of the second							ALTERNATION AND AND AND AND AND AND AND AND AND AN	10 a. 40 a. 50 a. 60 a.		
	.,		**********									V / No C - F - F - F - F - F - F - F - F - F
20		Control or any servery survey of the residence					***********************					
30 —		111	Land				Con	nple ID		Sur	nmary	
	T	Elapsed Time	Level Data Bottom		om of	W-1- (2)	O Open End	Rod	Overb	ourden (Linear ft)	10	
Date	Time	(hrs)	Casing (ng (ft)	Water (ft	T Thin Wall			Cored (Linear ft) per of Samples	 5S	
			-			-	S Split Spoo		olo		30	HA-125
	 	+	1				G Geoprobe		E	ORING NO.		11M°143



HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Well No.
LBA-MW1
Boring No.
HA-111*

		STA	ALLATION REP	PORT		HA-111*
PROJECT	PORT OF ROCHEST	ER		H&A FIL	E NO. 70819-0	000
LOCATION	ROCHESTER, NEW			PROJECT	M. VAI	ENTINE
CLIENT	LABELLA ASSOCIA			FIELD RI	EP. R. DED	RICK
CONTRACTOR	GEOLOGIC ENTERI			DATE IN	STALLED 5/24/20	00
DRILLER	L. TODD			WATER	LEVEL	
Ground El.	251.83 ft	Location	N: 1188376.32		☐ Guard Pipe	
El. Datum	City		E: 1408 396.58		✓ Roadway B	ox
SOIL/ROCK	BOREHOLE		Type of protective cove	er/lock	Roadwa	ay Box
	300		Type of protective cove			
CONDITIONS	BACKFILL	-	Height/Depth of top of	guard nine/ra	adway hoy	ft
		ſ	above/below ground su		advay box	
2						
		1	Height/Depth of top of	ricar nina		0.3 ft
			above/below ground su			
			True of must set ive again	200	No	ne
			Type of protective casin	ng.		ft
						in
			Inside Diameter			
			Depth of bottom of gua	and mina/waads	way hay	ft
			Depth of bottom of gua	ara pipe/roadv	way box	
			Tru	pe of Seals	Top of Seal (ft)	Thickness (ft)
	,				0.0	1.0
				Concrete		2.5
			Ben	ntonite Seal	1.0	
		L1				
Gray brown silty			Type of riser pipe:			2.0 !
coarse to fine SAND.	Sand/Grout		Inside diameter of r			in
Some gravel, wood,			Type of backfill aro	ound riser	Quartz	z Sand
wet.						1.111
	,		Diameter of borehole			4-1/4in
FILL		+				
		11	Depth to top of well sci	reen		ft
						2
1			Type of screen		SCHEDUI	The second second
			Screen gauge or siz	e of openings		in
		L2	Diameter of screen			in
			Type of backfill aroun	d screen	Quartz	z Sand
	4					
			Depth of bottom of wel	ll screen		13.0 ft
		1				
		L3	Bottom of Silt trap			ft
			Depth of bottom of bor	rehole		ft
(Bott	om of Exploration)		·			
	depth from ground surface in feet)			(Not to Scale)	12	Δ.
- 5:	3 ft +	T	$\frac{10}{\text{th of screen (L2)}} + \frac{0}{\text{Length of sil}}$	It trap (L3)	= 13 Pay leng	th ft
Kise Kise	er Pay Length (L1)	Leng Boring HA	th of screen (L2) Length of sh -111. Hole was blind augered to 14.0 ft. p			
COMMENTS: V	von mstaneu 4 n. west of	Doning HA	-111. Holo was office augorou to 14.0 ft. p		,	

HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Well No. LBA-MW2 Boring No.

ALDRICH	T	NST	LLAT	ION F	REPORT		Boring No. HA-117
PROJECT	PORT OF ROCHES				H&A FILI	E NO. 70819-	
	ROCHESTER, NEW				PROJECT		LENTINE
	LABELLA ASSOCI				FIELD RE	R. DEI	DRICK
	GEOLOGIC ENTER				DATE INS	STALLED 5/24/20	000
harden and the second	L. TODD				WATER I	EVEL	
Ground El.	253.7 ft	Location	N: 1188222.	94	T	☐ Guard Pip	e
El. Datum	City		E: 1408074.34			✓ Roadway l	Box
SOIL/ROCK	BOREHOLE			Type of protecti	ve cover/lock	Roady	way Box
CONDITIONS	BACKFILL						
				Height/Depth of above/below gro	top of guard pipe/ro ound surface	adway box	ft
				Height/Depth of above/below gro	top of riser pipe ound surface		ft
				Type of protect	ve casing:	N	lone
				Length			ft
				Inside Diam	eter		in
	*						
				Depth of botton	ı of guard pipe/roadv	vay box	ft
	Quartz Sand						
	(17 ft. bgs.)				Type of Seals	Top of Seal (ft)	Thickness (ft)
	Bentonite				Concrete	0.0	0.0
	(17 ft. to 26 ft.)				Bentonite Seal	0.0	4.0
		L1					
70. 1.1				Type of riser pi	ne:	F	PVC
Black brown silty					eter of riser pipe		2.0 in
SAND, slag, brick,					kfill around riser	Quar	rtz Sand
gravel.				Type of bac			
FILL				Diameter of bo	rehole	5.	4-1/4in
	10.0			Depth to top of	well screen		5.0 ft
C 'It SAND				Type of screen		SCHEDU	JLE 40 PVC
Gray silty SAND, little gravel.					e or size of openings		0.010 ir
nitte graver.		L2		Diameter of			2.0 ir
ALLUVIUM			-		l around screen	Qua	rtz Sand
				Depth of botton	n of well screen		15.0 ff
		L3		Bottom of Silt	trap		f6
		1	<u> </u>	Depth of bottom			26.0 ft
(Botto	om of Extporation)	_ ' '					
(Numbers refer to d	lepth from ground surface in feet)		10	ft +	(Not to Scale) 0 ft	= 15	ft
Rice	5 ft r Pay Length (L1)	+Leng	th of screen (L2)		gth of silt trap (L3)	Pay ler	
	ottom of borehole seal t						

HALEY & ALDRICH

OBSERVATION WELL INSTALLATION REPORT

Well No.
LBA-MW3
Boring No.
HA-114a

	II	NST	ALLATION REP	ORT			HA-114a	
PROJECT	PORT OF ROCHEST			H&A FIL	E NO.	70819-000		
-	ROCHESTER, NEW			PROJEC	10	M. VALE	NTINE	
-	LABELLA ASSOCIA			FIELD R		R. DEDRI	CK	
-	GEOLOGIC ENTER			DATE IN	STALLED	5/25/2000		
_	L. TODD			WATER	LEVEL			
Ground El.	261.92 ft	Location	N: 1187851.82			ard Pipe		
El. Datum	City		E: 1407798.33		✓ Ro	adway Box		
SOIL/ROCK	BOREHOLE		Type of protective cove	r/lock		Roadway	Box	_
CONDITIONS	BACKFILL							
COMPITIONS	D. T. G. T. T. S.		Height/Depth of top of above/below ground su		oadway box	-		_ft
			Height/Depth of top of above/below ground su				0.3	_ft
			Type of protective casin	ng:		None		_
			Length			_		_ ft
			Inside Diameter		•	-		_ in
,			Depth of bottom of gua	ırd pipe/road	way box	_		_ ft
			Tyr	pe of Seals	Top of S	eal (ft)	Thickness (ft)	
				Concrete	0.0		1.0	
				ntonite Seal	1.0		12.0	_
		LI			-			_
					-			_
Gray brown silty			Type of riser pipe:			PVC		_
SAND, slag, brick	Bentonite/		Inside diameter of r	riser pipe		_	2.0	_ in
	Quartz Sand		Type of backfill aro	ound riser		Bentonite	Chips	_
FILL								
1	14.0		← Diameter of borehole			-	4-1/4	_ in
		1	Depth to top of well scr	reen		-	15.0	_ ft
Gray brown clayey			← Type of screen		s	SCHEDULE	40 PVC	
SILT			Screen gauge or siz	e of openings	-		0.010	in
ALLUVIUM		L2	Diameter of screen			-	2.0	— in
	10.0		Type of backfill aroun			Quartz S	and	
-	19.0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-			_
Brown silty SAND,								
some gravel.			Depth of bottom of wel	ll screen		-	25.0	_ ft
GLACIAL TILL		↓						
		L3	Bottom of Silt trap					ft
		1	Depth of bottom of bot	rehole			25.0	_ ft
	om of Exploration)							
(Numbers refer to de	epth from ground surface in feet)		0 : 0	(Not to Scale)	_	24.7	ft	
	14.7 ft -		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-=	Pay length		
COMMENTS:	r Pay Length (L1)	rent	an or sorton (22)	- ()		, ,		
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APPENDIX B

Results of Laboratory Soil Testing

Haley & Aldrich of New York

TABLE B-1 - TEST DATA - RECENT SUBSURFACE INVESTIGATIONS

Date: Created By: Checked By: 23-Jun-00 MSV SEW

Project: Port of Rochester
Project #: 70819-000
Client: LaBella Associates, P.C.
Subject: Data Table of Recent Explorations

							PROJECT IDENTIFICATION	
HA-123	HA-123	HA-122	HA-122	HA-101	HA-101		EXPLORATION	
	253.6		252.8		251.8	(FT)	SURFACE ELEVATION	
						NORTHING EASTING (FT)	LOCATION	
24 to 26	19 to21	30 to32	25 to27	60 to62	10 to12	(FT)	DEPTH	
	43.1		87.3			(%)	NATURAL WATER CONTENT	
	45		105			WL	Ai	
	38		74			WP	ATTERBERG LIMITS (%)	L
	7		31			IP	\$ (%)	ABORATO
						(PCF)	TOTAL UNIT WEIGHT	LABORATORY TESTS
						TV SV Remolded	SHEAR STRENGTH (TSF)	
	- N - N - N - N - N - N - N - N - N - N					PP/2	H (TSF)	
86% <#200		80% <#200		98% < #200	4% <#200		OTHERS	

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Haley & Aldrich of New York

Project: Port of Rochester
Project #: 70819-000
Client: LaBella Associates, P.C.
Subject: Data Table of Existing Explorations

Date: 31-Jan-00
Created By: BEBa
Checked By: SEW

TABLE B-2 - TEST DATA - EARLIER SUBSURFACE INVESTIGATIONS

IDENTIFICATION IDENTIFICATION		Stutson Street B101	Water Main	H&A #7616	December-8/	The paper of the p			B105						2-02	8107																							
ON	(FT)	249							221.4							220.4				The first description of the first description																			
	NORTHING (FT)	1185395							1185455							1185470																							
	EASTING (FT)	759165							759057							759019																							
	(FT)	16.7	16.8	16.9			17.2	17.4	11.2	11.3		11.5			11.8	6	6.2	6.3	6.6	6.8	73	7.3		7.5		1	5	10.2		10.4	10.7		=		11.2		11.5	117	11./
CONTENT	(%)	49.2	41.4	34.1		34.2	34.7	35.8	44.1	51.6		45.1		41.7	42.5	39.5	35.7	43.5	37.7	30	3 8 5	40.7		41.9		40	32.9	41		38.4	39.7		39.7	38 4	29.4		28.1	346	34.6
	WL					34.4								39.4												37.6								33.0					
	WP	Total Control of the				27.3								29.6												28.8								96					
	IP					7.1								9.8												8.8								A 0	;				
WEIGHT	(PCF)	103	105						92.6							97.3				97.8							96.9												
	TV		0	0.14				0.2		0.09		0.06								0.1		0.07		0.08			0.07	0.00	0.00	0.08	0.0%	0.00	0.07		0.08		0.09	3	0.07
	SV	7		0.21	0.04					0.08	0.01	0.09	0.01				0.07			0.21	0.04	0.07	0.1	0.09	0.02			20.0	0.01	0.09	0.01	0	0.08	0.01	0.08	0.01	0.1	0.02	
	PP/2		016	0.2				0.23		0.02		0.01				-	0.08			0.06		0.02	0	0.03			0.04	20.0	0.00	0.03		0.01	0.01		0.02		0.01		0.01
OTHERS	CHEN					LOI = 3.5%	UU = 0.26 TSF	0.00						LOI = 5.6%	UU = 0.13 TSF		0.01		UU = 0.07 TSF							LOI = 4.1%		101 - 400	LOI = 4.6%										

Section 2

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Haley & Aldrich of New York

Project: Port of Rochester
Project #: 70819-000
Client: LaBella Associates, P.C.
Subject: Data Table of Existing Explorations

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TABLE B-2 - TEST DATA - EARLIER SUBSURFACE INVESTIGATIONS

Date: Created By: Checked By:

31-Jan-00 BEBa SEW

												1								-1		,						1						December-89	H&A #70037	Crossing	Genesee River		IDENTIFICATION	PROJECT	
B-4			-														B-3						B-2			, , , , , , , , , , , , , , , , , , ,											B-1		IDENTIFICATION	EXPLORATION	
239.2						And all the Parties of the Parties o											223.7						226,4														222.7	(FT)		ELEVATION	ac vadits
1186695																	1186714						1186735														1186728	NORTHING (FT)		LOCATION	
759892																	759764						759667														759540	EASTING (FT)		TION	
	11.7			11.5			11.2			9.01		10.7		10.5		10.2	10	11.3					11.1	6.2		6			5.7		5.2	2		2		4.7	4.5	(FT)		DEPTH	
	29.8	34.5		35.2	34.8		43.5	49.5		32.1		40		50.2		39.9	43.9	39.6	37.4	38.3	39.3		35.7	38.6		41.6	34.4		35.5	34.1	34.1	39		21.1		37.3	39.7	(%)	CONTENT	WATER	NA PIE
					45.3														34.8											30								WL		АТТ	
					26.9														24.2											24.7								WP		ATTERBERG LIMITS (%)	T
					18.4														10.7											5.3								ΙP		\$ (%)	LABORATORY TESTS
																	105.2						103.7														105.3	(PCF)	WEIGHT	TOTAL	AY TESTS
	0.08			0.12			0.18			0.11		0.17		0.2		0.2							0.15	0.18		0.18			0.17		0.13			0.08		0.17		TV		IDEX	
0.06	0.34		0.05	0.22		0.06	0.21		0.06	0.24	0.04	0.19	0.06	0.2	0.06	0.29						0.03	0.16		0.07	0.22		0.06	0.3	0.03	0.26		0.04	0.14	0.03	0		SV R		IDEX STRENGTH (TSF)	
	0.18			0.28			0.18			0.26		0.28		0.17		0.38							0.13	0.5		0.16			0.53		0.28			0.06	0.10	0.13		- PP/2		I (TSF)	
		GRAIN SIZE						LOI = 4.3%					-	G =2.67				G=2.67		GRAIN SIZE	LOI = 3.0 %					G = 2.66	GRAIN SIZE					LOI = 2.4%							OTHERS		

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Haley & Aldrich of New York

Project: Port of Rochester Project #: 70819-000 Client: LaBella Associates, P.C.

TABLE B-2 - TEST DATA - EARLIER SUBSURFACE INVESTIGATIONS

	Subject: Data Table of Existing Explorations	CHEIR DabCha DasOchatos, F.C.	Client: In Balla Associates DC	Project #: 70819-000	Project: Port of Kochester
LABORATORY TESTS					TABLE 5-2 - TEST DATA - BARLIER SUBSURFACE INVESTIGATIONS
		Checked By:	Created By:		Date:
		SEW	внва		31-Jan-00

GRAIN SIZE	G			23	1 0		31.3-32.8					Army Corp
ORAIN SIZE			7	22	40		163-178					East Pier
D A INI OTTE							12.0-12.7	760567.11	1188337.56	238.43	D79-6	Rehabilitation of
LOI = 7.6%											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
GRAIN SIZE	G					69.9	10.0-12.0	760364	1187239	238.33	D94-3	
GRAIN SIZE	G						5.0-7.0					,
			10	27	37		0.0-2.0	/61356	79/8811	232.33	D94-2	pm-95
			9	25	34	And the second s	20.0-22.0				70.0	Army Corp
GRAIN SIZE	G						6.0-8.0					Protection Project
GRAIN SIZE							0.0-2.0	761500	1189750	224.33	D94-1	Wave Surge
								/59323.52	1185053.7	230.78	FH-B-ō	
								759088.96	1184991.6	250.79	FH-B-/	
								759210.41	1185243.1	250.49	FH-B-6	
The state of the s								759281.94	1184977.85	251.37	FH-B-312	
								759340.53	1184925.8	251.44	FH-B-311	
					1			759225.38	1184910.43	251.51	FH-B-310	
								759230.91	1184917.01	251.60	FH-B-309	
								759294.24	1184858	251.77	FH-B-308	
								759381.4	1184906.29	251.77	FH-B-307	
								750408 87	1184816 53	253.07	FH-B-306	
								758591.8	1185224.7	291.08	FH-B-203	
								758630.65	1185316.02	288.08	FH-B-202	
								758604.89	1185247.36	289.76	FH-B-201	
								760109.9	1185098.5	251.97	FH-B-14	
								759952.78	1185162.5	253.18	FH-B-13	,
								759762.03	1185137.1	254.69	FH-B-12	
								759545 62	1184939.6	256,89	FH-B-11	
		+					+	759587.83	1185181.6	256.98	FH-B-10	
								758569 1	1185295.5	289.79	FH-B-1	
								750736 08	1184917 1	251.67	DN-B-9	
		AVAILABLE	D.O.T. LAB DATA NOT AVAILABLE	D.O.T. LAB				750000	1185010 8	222.88	DN B 55	
								758969.1	1185141.6	221.30	DN-B-53	
								758984.2	1185179.6	220.91	DN-B-52	
								758998.7	1185214.8	219.10	DN-B-51	
								758737.87	1185115.4	225.60	DN-B-5	
								758779.05	1185182.4	216.22	DN-B-4	3
	ċ							758819.15	1185260.09	216.77	DN-B-3	December-97
								756550.001	1186450	272.44	DN-B-103	NYSDOT
								756550.001	1186450	273.13	DN-B-102	Bridge
								756550.001	1186450	275.00	DA-B-101	Stutson Street
3	TV SV PP/2	(PCF)	ΙΡ	WP	WL	(%)	(FT)	EASTING (FT)	NORTHING (FT)	(FT)		
OTHERS	IDEX STRENGTH (TSF)	WEIGHT	3 (%)	ATTERBERG LIMITS (%)	A	WATER	DEPTH	TION	LOCATION	ELEVATION	EXPLORATION IDENTIFICATION	PROJECT IDENTIFICATION
		T TOTAL	_		_	I V OILLE V I						

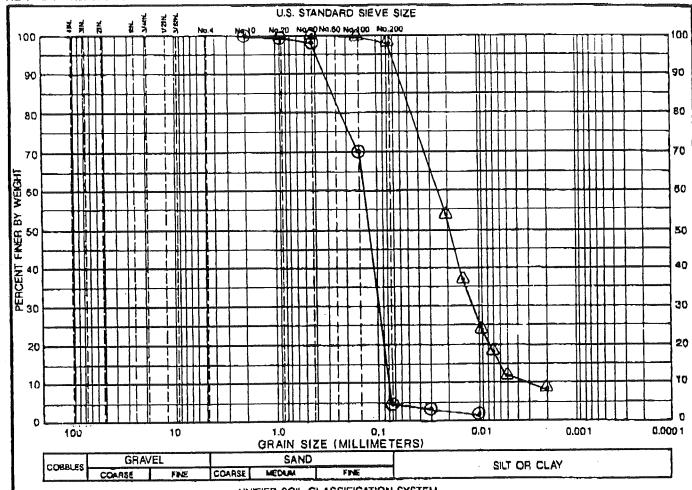
NOTES: 1. SPT and probe blow counts are recorded on the subsurface exploration logs included in Appendix ???



APPENDIX C

Records of Earlier Subsurface Explorations

- C-1 Stutson Street Water Main
- C-2 Genesee River Crossing
- C-3 Stutson Street Bridge
- C-4 Dredge Probes Army Corp of Engineers
- C-5 Wave Surge Protection Project
- C-6 Rehabilitation of East Pier
- C-7 Lake Avenue Improvements



UNIFIED	SOIL	Cl.	ASSIFICATION	SYSTEM

SYMBOL	EXPL, NO.	SAMPLE NO.	DEPTH (feet)	SAMPLE SOURCE	PROPOSED USE	SAMPLE DESCRIPTION
0	HAIDI	7	10-12			Gray brown fine to mediur SAND, tr SIH and organie
4	HAIOI	/7	10-62		·	Gray brown SILT, little clay, trace fine sand.
				1		

SYMBOL	EXPL. NO.	SAMPLE NO.	Сu	C o	NATURAL WATER CONTENT(%)	ATTERI W L	BERG LIN	ITS (%)	LOI (% by wgt.)	
							and the second second			



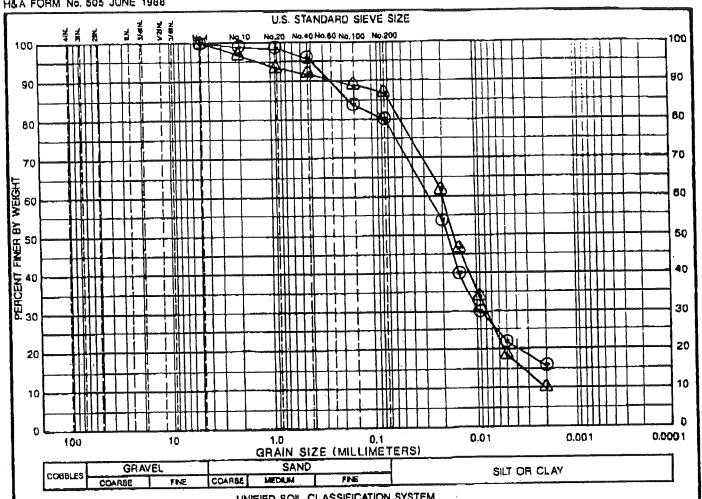
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GRAIN SIZE DISTRIBUTION

FILE NO.

DATE:



UNIFIED	SOIL	CLASSIF	CATION	SYSTEM

SYMBOL	EXPL. NO.	SAMPLE NÓ.	DEPTH ((eat)	SAMPLE SOURCE	PROPOSED USE	SAMPLE DESCRIPTION		
0	HA122	11	30-32			Gray brown clayer SILT little fine sand, little organ		
Δ	HA 123	10	24-26			Graybrown, SILT, little clayey sand.		

SYMBOL	EXPL. NO.	SAMPLE NO.	Cu	Сс	NATURAL WATER CONTENT(%)	ATTERBERG W L W F	LIMITS (%)	LOI (% by wgt.)	



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APPENDIX D

Historic (Sanborn) Maps

- D-1 Site Map with 1892 Sanborn Overlay
- D-2 Site Map with 1912 Sanborn Overlay
- D-3 Site Map with 1924 Sanborn Overlay
- D-4 Site Map with 1950 Sanborn Overlay
- D-5 Site Map with 1967 Sanborn Overlay

