REPORT SUMMARIZING THE RESULTS OF A PHASE II REAL ESTATE INVESTIGATION AT 26 THROUGH 100 EVANS STREET CITY OF BATAVIA COUNTY OF GENESEE STATE OF NEW YORK

SUBMITTED TO

COUNTY OF GENESEE
MAIN AND COURT STREETS
BATAVIA, NEW YORK 14020

SUBMITTED BY

EARTH INVESTIGATIONS LTD.
R-6576 EAST QUAKER STREET
ORCHARD PARK, NEW YORK 14127

DATE COMPLETED

JUNE 14, 1990

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I. INTRODUCTION

Based upon the results reported in Earth Investigations Ltd.'s (EIL) Phase I report completed on February 20, 1990, the County of Genesee (hereinafter referred to as the County) requested that EIL submit a proposal for the completion of a Phase II real estate investigation at 26 through 100 Evans Street, Batavia, New York. EIL submitted the aforementioned proposal on March 6, 1990 and it was accepted by the County Legislature on March 15, 1990.

Subsequent to receiving the County's authorization to proceed on March 26, 1990, EIL (and its laboratory subcontractor) completed all of the field, laboratory and office work necessary to complete the Phase II study. The purpose of this report, therefore, is to summarize EIL's findings and recommendations relative to the County's options with respect to the parcels investigated as an integral part of this study.

II. CERTIFICATION AND DISCLAIMER

EIL hereby certifies that it used, during its completion of this project, methods of investigation that are generally accepted by environmental engineers, scientists, and attorneys for the completion of Phase II real estate investigations. EIL has reported herein, to the best of its ability, the information provided by one past employee and federal agency personnel. EIL is in no way able to guarantee the accuracy or completeness of this information based upon the scope of work completed for this investigation. In addition, EIL presents its findings and makes its recommendations based upon the test results presented herein. These findings and recommendations have been generated based upon site conditions as they were found at the time of field investigation. Because field conditions can change at any time based upon the actions or inactions of nature, companies or individuals, EIL does not provide any findings or recommendations applying to or pertaining to the site after the final date of field sampling (May 3, 1990).

EIL has prepared this report for the exclusive use of the County. It is not intended to be utilized or relied upon by any other party.

III. SUMMARY OF WORK COMPLETED

As outlined in its proposal dated March 6, 1990, EIL completed the following items as an integral part of this investigation:

A. Background Locations

EIL reviewed several and selected one (1) background location where creek sediment, soil, and groundwater samples were collected upstream of the Evans Street site on Tonawanda Creek for analytical testing and comparative purposes (i.e. background versus site contaminant concentrations). The sample locations are designated by small circles numbered SD-BG-01, S-BG-01, and GW-BG-01, respectively, on Figure III-1. Soil and sediment logs are provided herewith in Attachment 1. EIL's field notes are provided in Attachment 2.

B. Test Pits

In conjunction with County personnel, EIL excavated eighteen (18) test pits on-site and observed, identified and described the soil, fill and waste types present in each location. The descriptive logs are provided in Attachment 1. EIL's field notes are provided in Attachment 2.

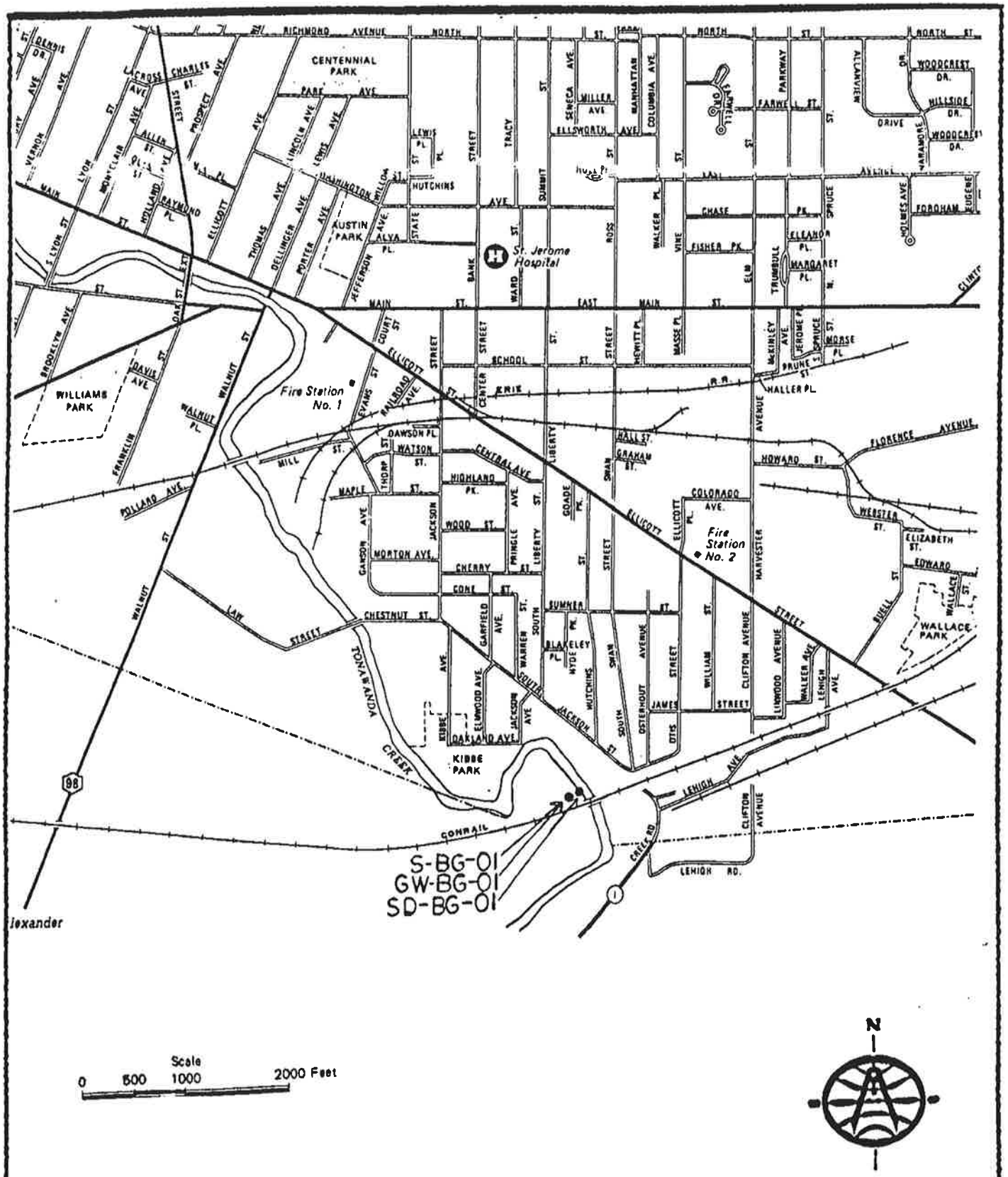
Three (3) solid samples were collected from the test pit locations for analytical testing purposes, as shown on Figure III-2. These included one (1) waste sample designated by a small circle numbered S-02, and two (2) fill samples designated by small circles numbered S-03 and S-17. One (1) seep and two (2) groundwater samples, designated by small circles numbered GW-Seep, GW-03 and GW-07, respectively, were also collected.

All test pit locations were selected by EIL and surveyed in and placed on a site map by County personnel for sample location identification purposes.

C. Creek Sediments

EIL collected, observed, identified and described the creek sediments present along the bank of Tonawanda Creek in three (3) on-site locations. These are identified on Figure III-2 as sample location SD-01. Aliquots from each location were composited into a single sample for analytical testing purposes. Sediment logs are provided in Attachment 1. EIL's field notes are provided in Attachment 2.

All creek sediment sampling locations were selected and their approximate locations depicted on a site map by EIL personnel for sample location identification purposes.

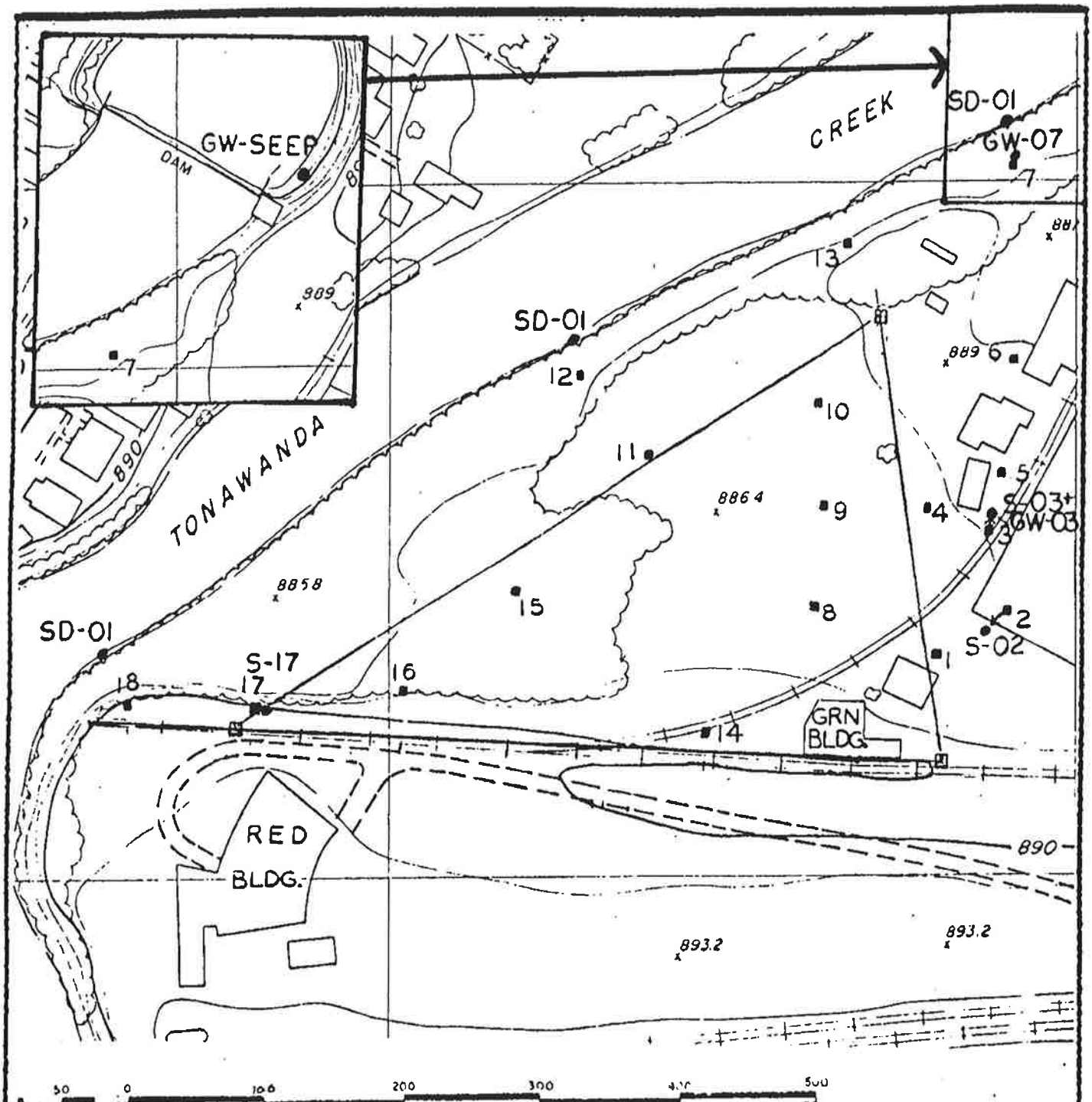


EARTH INVESTIGATIONS LTD.

BACKGROUND SAMPLING LOCATIONS

COUNTY OF GENESEE

FIGURE III-1



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SAMPLING LOCATIONS

COUNTY OF GENESEE

FIGURE III-2

D. Sample Preparation and Handling

All creek sediment, fill, waste and groundwater samples were prepared and handled by a soil scientist and an environmental scientist in accordance with chain-of-custody procedures and the currently-acceptable protocols and procedures outlined in the federal and state regulations. The completed chain-of-custody form is included in Attachment 3.

E. Excavation Monitoring

An OVM meter was utilized at each sampling location to facilitate the detection of organic vapors. The results of this monitoring are provided in Attachment 2.

F. Analytical Laboratory Testing

The samples collected during the completion of this study were tested for the each of the parameters outlined in EIL's proposal dated March 6, 1990. The laboratory analytical and QA/QC results are provided in Attachment 4.

IV. FINDINGS

EIL's findings will be discussed topically below. In short, the findings reported will include soil and fill descriptions and field observations, laboratory analytical test results, and project related discussions and correspondence.

A. Soil and Fill Descriptions and Field Observations

Logs and field notes prepared for this study are included for reference purposes in Attachments 1 and 2, respectively. EIL's findings with respect to soils and fill present on the site are described in general terms below.

1. Test Pits

Eighteen (18) test pits were excavated by the County with backhoes to permit EIL to characterize the fill present on the site. Each pit was dug until original soils were reached and identified.

The test pits ranged from 3.5 to 8.0 feet in depth. Fill was encountered at every test pit location, with a range in thickness of 0.8 to 7.0 feet. The average depth of fill site-wide was 2.89 feet. Groundwater was encountered at twelve (12) of the eighteen (18) locations between 3.2 and 7.8 feet

below the ground surface. The average depth to groundwater in these locations was 5.02 feet. Groundwater was not encountered in six (6) of the test pit locations. The depth to groundwater in these locations was something greater than 4.2 to 7.0 feet below the ground surface. It is important to mention that (i) fill may be shallower or deeper in areas not examined, and (ii) the aforementioned groundwater levels are likely average levels for the year and may actually be higher or lower during seasonal wet and dry periods, respectively.

The fill material was comprised of incinerated garbage (consisting of cinders, ash, broken glass and bottles, brick and brick fragments, metal fragments, asphalt, coal fragments, cloth, concrete, and one observed railroad rail) and sand, gravel, and a mixture of sand with little to some silt or silt with little clay. The original soil was sorted and deposited by water as reflected in the bedding and stratification of the described sediments. Typical of sand and silty sand sediments, the original soils on this site are subject to liquification with an increase in soil moisture content. This was observed during EIL's field observations in test pits numbered 1, 3, 8, 9, 10, 15 and 16. Stratified sand and gravel layers also present on-site may be subject to transport or movement into open trenches or excavations caused by water movement through these layers.

A significant area of surficial fill is present in a large area of the center parcel just along the northern boundary of the southern-most parcel. This fill material and the underlying original soil are assumed to have loose to very loose consistency (low density), which means that they will have very poor load-bearing capacity and will have to be replaced with select fill in any areas where construction is anticipated.

Pipes were encountered at test pit locations 2, 3 and 12. The pipe at location 2 contained a greenish, light tan, and dark brown silt-like sediment which was sampled to permit analysis. The pipe at location 3 contained only water which rushed out of the pipe when it was broken by the backhoe. The groundwater in this location had a visible sheen on its surface and a hydrogen sulfide-like odor was noticed during excavation. A slight hydrogen sulfide odor was noted in test pit

location 11, but no sheen was observed on the water surface. Location 3 was the only location where a reading of greater than 0 (zero) was measured by the OVM meter. The reading was 0.2 parts per million (ppm). As such, fill and groundwater samples were obtained for analysis at this location. The pipe at location 12 remained unbroken throughout excavation and no sample was collected at this location.

In addition to test pit location 3, a sheen was observed on the groundwater surface at test pit locations 7 and 12 and on the seep present north of the dam. As such, groundwater samples were collected at locations 3 and 7 for analysis.

In addition to the sludge-like sediment sample collected at location 2 and the fill sample collected at location 3, a fill sample was collected at test pit location 17. This sample location was selected because of the volume of black cinders and ash present in that area of the site.

2. Creek Sediments (On-Site)

The creek sediment samples collected on-site were obtained by a soil scientist using hand augers. Under a water depth ranging between 0.7 to 0.8 feet, three (3) sediment samples were collected to depths ranging between 1.2 to 1.3 feet below the water surface. As such, 0.5 feet of sediment sample was collected at each location. An aliquot of sample from locations 19, 20, and 21 were composited for analytical testing purposes.

The sediments were very soft dark gray silt. Decayed leaves were encountered at location 21. No fill or contamination was observed at any of the three (3) locations.

3. Background

Background soil and groundwater samples were collected at location 22 for analytical testing purposes. The soils at this location were the same type as most of those on the site and the strata ranged from extremely moist layers of silt and sandy silt, to wet layers of silty sand and finally sand. Groundwater was encountered at 2.5 feet below the ground surface and no fill or contamination was observed at this location.

The creek sediment samples were collected in the background area as well. Under a water depth of 0.8 feet, the sediment sample was collected to a depth of 1.3 feet below the water surface. As such, 0.5 feet of sediment sample was collected at this location (numbered 23) for analytical testing purposes.

The sediments were very soft dark gray silt. Decayed leaves were encountered at this location.

B. Laboratory Analytical Test Results

The results of the analytical testing completed for this project are provided in Attachment 4 and summarized in the following tables.

TABLE IV-1
SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER SAMPLES

PARAMETERS (in ppm)	Groundwater ON-SITE GW-03	ON-SITE GW-07	ON-SITE GW-Seep	Back-Ground GW-BG-01	Ground-water Standards (703.5)	Trip Blank
Aluminum	3.19	70.8	10.7	117	NL	---
Arsenic	BQL	0.07	BQL	BQL	0.025	---
Barium	1.11	0.17	1.90	0.02	1.00	---
Cadmium	0.006	0.012	BQL	0.004	0.01	---
Chromium	BQL	0.16	0.04	0.09	NL	---
Copper	0.11	1.75	0.05	0.28	1.00	---
Magnesium	6.96	166	42.9	302	35.0	---
Lead	0.18	5.1	0.41	0.38	0.025	---
Nickel	BQL	0.24	BQL	0.41	NL	---
Tin	0.13	BQL	BQL	BQL	NL	---
Zinc	0.67	6.95	0.54	1.19	5.00	---
Total Cyanide	0.003	0.006	0.005	BQL	0.20	---
Phenols	BQL	0.04	0.01	BQL	0.001	---
PCB's	BQL	BQL	BQL	BQL	0.0001	---
Methylene Chloride	BQL	BQL	BQL	BQL	0.05	BQL
Carbon Tetra-chloride	BQL	BQL	BQL	BQL	0.005	BQL
Benzene	BQL	BQL	BQL	BQL	ND	BQL
Toluene	BQL	BQL	BQL	BQL	0.05	BQL
Xylene	BQL	BQL	BQL	BQL	0.05	BQL
Trichloro-ethylene	BQL	BQL	BQL	BQL	0.01	BQL

Notes: BQL = Below Quantifiable Limits
--- = Not Tested For
NL = No Limit
ND = Non-detectable

TABLE IV-2
SUMMARY OF ANALYTICAL RESULTS
SOLID SAMPLES

PARAMETERS (in ppm)	Soils				Sediments	
	On-Site			Background	On-Site	Background
	S-02	S-03	S-17	S-BG-01	SD-01	SD-BG-01
Aluminum	658	12,200	7,850	20,600	10,000	8,950
Arsenic	BQL	5.6	10.2	BQL	4.1	4.0
Barium	67.9	44.1	97.5	163	75.5	BQL
Cadmium	BQL	BQL	BQL	BQL	BQL	BQL
Chromium	8,320	15.8	16.6	18.8	6.0	7.8
Copper	55,600	234	121	13.0	20.2	14.4
Magnesium	380	9,040	13,400	10,200	16,800	15,400
Lead	1,340	BQL	BQL	BQL	BQL	BQL
Nickel	13.6	29.1	20.7	28.0	17.1	21.3
Tin	349	28.3	46.7	12.3	BQL	95.7
Zinc	16,300	777	393	105	99.0	88.2
Total Cyanide	BQL	0.04	0.30	BQL	BQL	BQL
Phenols	1.0	0.14	0.95	BQL	BQL	0.97
PCB's	BQL	BQL	BQL	BQL	BQL	BQL
Methylene Chloride	BQL	BQL	BQL	BQL	BQL	BQL
Carbon Tetra-chloride	BQL	BQL	BQL	BQL	BQL	BQL
Benzene	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	BQL	BQL	BQL	BQL	BQL	BQL
Xylene	BQL	BQL	BQL	BQL	BQL	BQL
Trichloro-ethylene	BQL	BQL	BQL	BQL	BQL	BQL

1. Groundwater Samples

Table IV-1 provided above presents the results of analytical laboratory testing completed on the three (3) groundwater samples collected on-site, namely GW-Seep, GW-03, and GW-07, plus the sample trip blank provided in accordance with standard protocols and procedures. The New York State Department of Environmental Conservation's groundwater quality standards (6NYCRR 703.5) and the results of testing the background sample are provided as well for comparative purposes.

As shown in the aforementioned table, (i) all three (3) samples collected on-site and the background sample exceeded the groundwater standards for lead content, (ii) GW-03 and GW-Seep exceeded the limit for barium, (iii) GW-07, GW-Seep, and the background sample exceeded the limit for magnesium, and (iv) GW-07, the location that is assumed to be on the downgradient side of the site, exceeded the limits for arsenic, cadmium, copper, zinc, and phenols. It is common for groundwater to contain these parameters in industrial areas. The elevated concentrations of barium, copper, lead, and zinc, however, suggest that metals are leaching into the groundwater at or somewhere upgradient of the sample locations.

2. Table IV-2 provided above presents the result of analytical laboratory testing completed on the on-site and background solid samples and creek sediments. Based upon its experience with the testing of creek and river sediments, EIL does not believe that the creek sediment samples collected on-site demonstrate any real degree of contamination. The solid samples collected in test pit locations 2, 3 and 17, however, contain noteworthy amounts of heavy metals. All three (3) locations contained copper and zinc at levels significantly higher than background and outside of the range that EIL has measured using background samples from other sites located in western New York. In addition, test pit location 2 contained chromium, copper, lead, tin and zinc in very high concentrations. High enough, in fact, that location 2 could be deemed a "hot spot". No testing has been completed to date to determine the leachability of these samples and the likelihood that they would or could have been the source of heavy metals present in the groundwater.

Because of the importance of the laboratory data, EIL requested that the laboratory double check its lab notes and calculations to confirm the accuracy of its report. The laboratory confirmed its data and believes the report to be completely accurate.

C. Project Related Discussions and Correspondence

1. United States Environmental Protection Agency

On May 10, 1990, EIL received a telephone call from Mr. Matty Stanislaus, an attorney with the United States Environmental Protection Agency's (USEPA) Office of Regional Counsel. In EIL's telephone conversation with Mr. Stanislaus and in the USEPA's follow up letter of May 15, 1990 (provided in Attachment 5), the Office of Regional Counsel advised EIL that they had no files related to the parcels under investigation or the past and current property owners, leasees, et cetera.

2. Past Employee

On April 30, 1990 EIL personnel spoke with Mr. Adam Pcionek, a former Doehler-Jarvis employee who worked for the company for a total of 46 years. This includes several years in which he served in a management capacity. In general, Mr. Pcionek felt that there is likely little to be concerned about with this site. He was aware of a very small spill of transformer oil by an outside contractor on the east side of the Evans Street building several years ago. He was unsure but felt that the spilled oil may have contained PCB's. Mr. Pcionek was invited at this time to join EIL on-site during the completion of the field work for Phase II in the event that any structures or contamination were discovered or he was able to recall any other items that may be of concern to the County.

On May 3, 1990, Mr. Pcionek joined EIL on-site during the excavation of the test pits. The location where he believed that the transformer oil had been spilled has since been excavated to allow for the installation of a new storm sewer. Because select fill is often used around sewer lines and some portion of the excavated material had to have been hauled off-site, Mr. Pcionek stated that it is unlikely that any residue from the alleged spill continues to exist on-site. This area is currently paved over with asphalt. When the waste-containing pipe was exposed, Mr. Pcionek was asked what the

pipe was used for. He suggested that it may be a yard drain which ran along the side of the building and discharged to the creek. Mr. Pcionek later stated that similar drains were present along each side of the building and were probably never removed. Mr. Pcionek was also aware of two (2) above-ground solvent storage tanks which were located on the west side of the building. These tanks were removed from the site when their use was discontinued.

V. OPTIONS AND RECOMMENDATIONS

The purpose of a Phase II real estate investigation is to determine, on a qualitative basis, whether or not a site is contaminated. Based upon the findings presented above, EIL would downgrade this site from one which "might be contaminated", as stated in its Phase I report referenced above, to one that is "known to be contaminated".

The County has at least three (3) options with respect to this site. These include:

A. Purchase the Site Without Any Further Testing

Because EIL believes, at least on a "qualitative" basis, that this site is contaminated, purchase of this property without further "quantitative" testing (as described below) would not be advisable. In EIL's opinion, the County would (i) not have completed sufficient investigation and testing to establish an adequate innocent purchaser defense in accordance with the guidelines provided by the USEPA under CERCLA (the Comprehensive Environmental Response, Compensation, and Liability Act), and (ii) potentially expose itself to significant site investigation and remediation costs if the contamination is later found to be site-wide and/or a significant enough threat to human health and the environment for the regulatory agencies to require corrective action.

B. Consider Purchasing the Site After Quantitative Testing

By definition, qualitative investigation and testing completed during Phase II studies determine the presence and general characteristics or components of the contamination present on a site. Once it has been determined that contamination is present, it is advisable to measure the contamination, via quantitative investigation and testing, to determine the actual volume of soil, fill, and groundwater that has been impacted by the contamination, or may yet be impacted due to

migration, complete a risk assessment, and determine the extent and cost of remediation that may be required by the applicable regulatory agencies.

If the County wishes to consider this site further, EIL recommends the completion of quantitative investigation and testing. A scope and budgetary estimate for this work have not been completed to date, but EIL is confident that any estimate prepared may include (i) the installation of multiple groundwater monitoring wells, (ii) the excavation, identification, observation, and description of any piping systems that can be located, (iii) the collection and testing of multiple soil, waste, fill, and groundwater samples, (iv) the preparation of reports and a risk assessment, if necessary, and (v) discussions and/or negotiations with the regulatory agencies. The cost of this work will likely be in the tens of thousands of dollars and a proposal can be generated upon request.

The contamination discovered on-site to date, as described previously, may well exist only in the locations where the samples were collected. In that case, corrective action would likely cost very little and the impact on the County's overall budget may be insignificant. On the other hand, it is conceivable that (i) the site is contributing to the contamination discovered in the groundwater, (ii) the large area of black cinder and ash fill may require removal and off-site disposal, and (iii) the concentrated waste found in the pipe located in test pit number 2 may be present in several pipes in and around the building foundation, in the pipes leading to the creek, and in soil, fill and groundwater surrounding the pipes in any locations where leaking may have occurred. In this case, corrective action could be very costly for the County in terms of time and hard dollars. Site remediations typically require several years to implement and cost hundreds of thousands of dollars or more to complete.

C. Consider Another Site

If the County determines that the options outlined above are environmentally or economically unacceptable, EIL recommends that the County consider a different site.

ATTACHMENT 1

EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

1091 Jamison Road • Elma, NY 14059 • (716) 655-1717

TEST PIT
HOLE NO 1-90

SURF ELV _____

PROJECT 2J89a/ J892 Environmental assessment
Old Doeler-Jarvis parcel, Batavia, NY

LOCATION See survey

CLIENT COUNTY OF GENESEE

DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER (0/6, 6/12, 12/18, 18/24, N)	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Extremely moist mostly dark gray to black incinerated garbage consisting of cinders, ash, broken glass and unbroken bottles, broken and unbroken bricks, and few metal fragments, < 10% sand and gravel fill, compact in place, loose when disturbed	Mostly incinerated garbage to 3.5 feet over water sorted and deposited sand with little gravel and silt to bottom of test pit.
3.5			Wet distinctly mottled brown gravelly (SILTY-SAND) with 15 to 30% mostly subrounded gravel, fine to coarse size sand, little silt, compact in place, soil material readily liquifies when disturbed, thinly bedded, (SM)	
5.0			Test pit excavated to 5.0 feet.	Water level at 3.9 feet below ground surface at completion with no apparent seepage at the fill/soil boundary.
5				No sheen to water surface, OVM reading 0 ppm.
10				
15				
20				

N = NUMBER OF BLOWS TO DRIVE - " SPOON - " WITH - lb WT FALLING - " PER BLOW

eal LOGGED BY Donald W. Owens/Soil Scientist

SHEET 1 OF 1

EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

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TEST PIT
HOLE NO 2-90 SURF ELV _____

PROJECT Environmental Assessment LOCATION See survey

2J89a/J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Moist mixed black and dark gray very gravelly (SAND) fill with 40 to 60% gravel, fine to coarse size sand, compact, (GW)	Sand and gravel fill to 1.0 feet (3.9 feet in pipe excavation) over mixed sand with some gravel and cinders and ash to 3.0 feet over water sorted and deposited silt to bottom of test pit.
			Extremely moist black mixed gravelly (SILTY-SAND) fill and 20 to 40% cinders and ash, compact in place, loose when disturbed 3.0	
5			Extremely moist faintly mottled brown (SILT), compact, no apparent soil structure, few fine size roots, (ML)	5.0
			Test pit excavated to 5.0 feet.	Water level at 4.8 feet below ground surface at completion.
10				No sheen and OVM reading of 0 ppm.
				(A) Same as 2.5 feet of fill.
15				Clay pipe wall thickness, 2", inside diameter is 12 inches. Pipe oriented east-west. Width of pipe excavation is 1.9 feet. Approximately 1/2 of pipe containing greenish, light tan and dark brown silt size sediments.
20				

N = NUMBER OF BLOWS TO DRIVE - " SPOON - " WITH - lb WT FALLING - " PER BLOW

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EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

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TEST PIT
HOLE NO 3-90 SURF ELV _____

PROJECT Environmental Assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Moist mixed and in layers brown and dark gray gravelly and very gravelly (SAND) fill with 20 to 60% crushed angular gravel, fine to coarse size sand, noticed few glass fragments, occasional bricks, 10 to 20% cinders and ash, dense in place	Mixed and layered mostly sand and gravel fill to 2.8 feet over water sorted and deposited silt with some very fine size sand to bottom of test pit.
			2.8	
5			Extremely moist to wet faintly mottled brownish gray (SANDY-SILT), some very fine size sand, loose, soil material tends to liquify when disturbed, no apparent soil structure, (ML) tending towards (SM)	
			4.0	
			Test pit excavated to 4.0 feet.	Noticed 1.0 foot ID clay pipe oriented north-south with top of pipe 3.5 feet below surface. Noticed petroleum odor when pit was excavated but soon volatized.
10				Water level at 3.3 feet below ground surface at completion with sheen on surface.
15				OVM reading 0.2 ppm when pit was excavated.
20				

N = NUMBER OF BLOWS TO DRIVE ___ " SPOON ___ " WITH ___ lb WT FALLING ___ " PER BLOW

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EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

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TEST PIT
HOLE NO 4-90

SURF ELV _____

PROJECT Environmental Assessment

LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE

DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER (0/6, 6/12, 12/18, 18/24, N)	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist in layers gravelly (SILTY-SAND) fill with 20 to 40% gravel, little silt, and 10 to 35% cinders ash, with broken glass and brick fragments, dense	1.9	Sandy fill with some gravel, little silt and nonsoil fill to 1.9 feet over apparent original topsoil to 2.4 feet over water sorted and deposited silt to bottom of test pit.
5			Extremely moist distinctly mottled dark gray (SILT), compact, no apparent soil structure, common fine size roots, (ML)	2.4	
			Extremely moist faintly mottled brown (SILT), compact, no apparent soil structure, few fine size roots, (ML)	4.5	
			Test pit excavated to 4.5 feet.		Noticed wet brown gravelly (SILTY-SAND) layer 4.3 to 4.5 foot depth on east wall only.
10					Water level at 4.4 feet below ground surface at completion.
					No sheen on water surface, OVM reading 0 ppm.
15					
20					

N = NUMBER OF BLOWS TO DRIVE _____" SPOON _____" WITH _____ lb WT FALLING _____" PER BLOW

eal LOGGED BY Donald W. Owens/Soil Scientist

SHEET 1 OF 1

EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

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TEST PIT HOLE NO 5-90 SURF ELV

PROJECT Environmental Assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist dark gray gravelly (SILTY-SAND) fill with 15 to 40% gravel, fine to coarse size sand, little silt, dense in place, (SM,GM)	1.3	Sand with some gravel, little silt fill to 1.3 feet over asphalt to 2.2 feet over water sorted and deposited sand with little silt, trace gravel to bottom of test pit.
			Dark gray asphalt, hard	2.2	
5			Extremely moist faintly mottled brown (SILTY-SAND) with 3 to 5% fine size gravel, fine to coarse size sand, little silt, compact, no apparent soil structure, few fine size roots	4.2	
			Test pit excavated to 4.2 feet.		No water at completion.
					OVM reading, 0 ppm.
10					
15					
20					

N = NUMBER OF BLOWS TO DRIVE - " SPOON - " WITH - lb WT FALLING - " PER BLOW

eal LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

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TEST PIT
HOLE NO 6-90 SURF ELV

PROJECT Environmental assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist dark gray gravelly (SILTY-SAND) fill with 20 to 40% gravel, fine to coarse size sand, little silt, few broken brick fragments, one RR rail, dense, (SM,GM)	3.5	Sand fill with some gravel, little silt to 3.5 feet over apparent original topsoil to 4.3 feet over water sorted and deposited silt to bottom of test pit.
			Extremely moist dark gray SILT, compact, common fine size roots, (ML)	4.3	
5			Extremely moist distinctly mottled brown SILT, compact, no apparent soil structure, common fine size roots, (ML)	5.5	
			Test pit excavated to 5.5 feet.		No water at completion.
					OVM reading, 0 ppm.
10					
15					
20					

N = NUMBER OF BLOWS TO DRIVE – " SPOON – " WITH – lb WT FALLING – " PER BLOW

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TEST PIT
HOLE NO 7-90

SURF ELV _____

PROJECT Environmental assessment

LOCATION See survey

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY
J892

CLIENT COUNTY OF GENESEE

DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER (0/6 / 6/12 / 12/18 / 18/24 / N)	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Moist to 3.0 feet, extremely moist below, in 0.2 to 1.0 foot thick layers dark gray gravelly (SILTY-SAND) fill with 15 to 40% gravel, light tan (SAND), fine size sand, dark gray to light gray incinerated ash and cinders with metal and glass fragments, coal fragments, cloth, and unbroken brick fragments, concrete, and dark gray (SILT) fill, very loose to compact, common fine to medium size roots to 6.0 feet, few fine size roots below	Soil and nonsoil fill in layers to 6.5 feet over water sorted and deposited silt to bottom of test pit.
5			6.5	
			Wet distinctly mottled dark gray SILT, loose weak blocky soil structure, few fine size roots, (ML)	
			7.5	
10			Test pit excavated to 7.5 feet.	Water level at 7.2 feet below ground surface at completion.
				Slight sheen to surface of water.
				OVM reading 0 ppm.
15				
20				

N = NUMBER OF BLOWS TO DRIVE ___" SPOON ___" WITH ___lb WT FALLING ___" PER BLOW

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SHEET 1 OF 1

EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

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TEST PIT
HOLE NO 8-90

PROJECT Environmental Assessment
2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY
CLIENT COUNTY OF GENESEE

SURF ELV _____
LOCATION See survey
DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER (0 / 6 / 12 / 18 / N; 6 / 12 / 18 / 24)	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist dark gray gravelly SAND fill with 20 to 40% gravel and occasional cobble, fine to coarse size sand, very loose, common fine size roots, (SP)	0.8	Sand with some gravel fill to 0.8 feet over mostly cinders and ash to 3.0 feet over water sorted and deposited silt with some sand, trace to little gravel to 5.5 feet over water sorted and deposited sand to bottom of test pit.
5			Extremely moist mixed gray, light gray, rusty brown and dark gray incinerated, garbage consisting of ash and cinders, with glass and metal fragments, very loose	3.0	
			Extremely moist faintly mottled brown (SANDY-SILT) with 5 to 15% fine size gravel, some fine to coarse size sand, loose, soil material tends to liquify when disturbed, no apparent soil structure, (SM)	5.5	
10			Wet brown (SAND), medium to coarse size sand, loose, sand readily flows in moving water, stratified, (SW) tending towards (SP)	6.5	
			Test pit excavated to 6.5 feet.		Water level at 5.5 feet below ground surface at completion. No sheen to water surface. OVM reading 0 ppm.
15					
20					

N = NUMBER OF BLOWS TO DRIVE - SPOON - WITH - lb WT FALLING - PER BLOW

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SHEET 1 OF 1

EARTH DIMENSIONS, INC.

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TEST PIT
HOLE NO 9-90 SURF ELV _____

PROJECT Environmental assessment LOCATION See survey

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY
J892
CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Moist dark gray gravelly (SILTY-SAND) fill with 20 to 40% gravel and 30 to 40% incinerated garbage, dense	Mixed soil and nonsoil fill to 1.0 foot over apparent original top-soil to 1.5 feet over water sorted and deposited silt to 4.0 feet over water sorted and deposited very fine size sand with some silt to 6.0 feet over water sorted and depos-ited sand to bottom of test pit.
			1.0	
			Extremely moist distinctly mottled dark gray (SILT), compact, few fine size roots, (ML)	
			1.5	
5			Extremely moist faintly mottled brown (SILT), compact, no apparent soil structure, few fine size roots, (ML)	
			- - - - grades downward to - - - -	
			4.0	
			Extremely moist faintly mottled brown (SILTY-SAND), very fine size sand with some silt, compact, soil material readily liquifies when dis-turbed, no apparent soil structure, (SM)	
10			- - - - grades downward to - - - -	
			6.0	
			Wet brown (SAND) with 3 to 5% fine size gravel, very fine to medium size sand, little coarse size sand, (SW)	
			7.0	
			Test pit excavated to 7.0 feet.	Water level at 6.0 feet below ground surface at completion.
15				No sheen to water surface, OVM reading 0 ppm.
20				

N = NUMBER OF BLOWS TO DRIVE ____ " SPOON ____ " WITH ____ lb WT FALLING ____ " PER BLOW

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TEST PIT HOLE NO 10-90 SURF ELV

PROJECT Environmental assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist dark gray mostly incinerated garbage consisting of cinders, ash, glass, metal and broken brick fragments, mixed with 20 to 40% gravelly (SILTY-SAND) fill, loose	2.5	Mixed soil and nonsoil fill to 2.5 feet over apparent original topsoil to 3.5 feet over water sorted and deposited silt to 5.0 feet over water sorted and deposited very fine size sand with some silt to bottom of test pit.
			Extremely moist dark gray (SILT), compact, few fine size roots, (ML)	3.5	
5			Extremely moist distinctly mottled brown (SILT), compact, soil tends to liquify when disturbed, weak prismatic soil structure, few fine size roots, (ML)		
			- - - - grades downward to - - - -	5.0	
			Extremely moist distinctly mottled brown (SILTY-SAND), very fine size sand with some silt, compact, soil material readily liquifies when disturbed, no apparent soil structure, (SM)	5.5	
10			Test pit excavated to 5.5 feet.		No water at completion.
					OVM reading 0 ppm.
15					
20					

N = NUMBER OF BLOWS TO DRIVE ___ " SPOON ___ " WITH ___ lb WT FALLING ___ " PER BLOW

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TEST PIT HOLE NO 11-90 SURF ELV _____

PROJECT Environmental assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Extremely moist black gravelly (SILTY-SAND) fill with 15 to 40% gravel, fine to coarse size sand, little silt, very loose, many fine to coarse size roots,(SM,GM)	0.8	Sandy fill with some gravel, little silt to 0.8 feet over sand fill with some gravel to 2.2 feet over mostly incinerated garbage to 2.7 feet over silty alluvial sediment to bottom of test pit.
			Extremely moist becoming wet below 2.5 feet highly mottled light brown gravelly (SAND) fill with 20 to 40% gravel, fine to coarse size sand, (SW)	2.2	
5			Extremely moist to wet black mostly incinerated garbage consisting of ash, cinders, glass, metal and broken brick fragments, loose,	2.7	
			Extremely moist black (CLAYEY-SILT), little clay, very soft, massive soil structure, few fine to medium size deteriorated roots, (ML) tending towards (ML-CL)		
10			- - - - grades downward to - - - - -	3.0	
			Extremely moist gray (CLAYEY-SILT), little clay, soft, massive soil structure, few fine size deteriorated rooots, (ML) tending towards (ML-CL)		
			- - - - grades downward to - - - - -	4.5	
			Wet distinctly mottled brownish gray (SILT), very loose, weak thinly bedded, (ML)	5.5	
15			Test pit excavated to 5.5 feet.		Water level at 5.0 feet below ground surface at completion.
					No sheen to water surface, OVM reading 0 ppm. Slight Hydrogen Sulfide odor.
20					

N = NUMBER OF BLOWS TO DRIVE ___" SPOON ___" WITH ___ lb WT FALLING ___" PER BLOW

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Soil Investigations and Monitoring Well Installations

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TEST PIT
HOLE NO 12-90 SURF ELV _____

PROJECT Environmental assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Extramely moist black gravelly (SILTY-SAND) fill with 15 to 40% gravel, fine to coarse size sand, little silt, very loose, numerous fine to coarse size roots, (SM, GM)	Sandy fill with some gravel, little silt to 0.8 feet over coarse silty alluvial sediment to bottom of test pit.
			0.8	
5			Extremely moist becoming wet below 3.0 feet distinctly mottled brown (SANDY-SILT), little fine size sand, compact, massive soil structure, few fine size roots, (ML)	
			3.5	
			Text pit excavated to 3.5 feet.	Water level at 3.2 feet below ground surface at completion.
				Slight sheen to water surface, OVM reading 0 ppm.
10				Hit 1.0 foot ID clay pipe oriented east-west at 2.9 feet below ground surface.
15				
20				

N = NUMBER OF BLOWS TO DRIVE ____ " SPOON ____ " WITH ____ lb WT FALLING ____ " PER BLOW

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TEST PIT
HOLE NO 13-90 SURF ELV _____

PROJECT Environmental assessment LOCATION See survey

2J89a/J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist dark gray gravelly (SAND) fill with 15 to 40% gravel, fine to coarse size sand, very loose, numerous fine to coarse size roots, loose, (SW,GW)	0.3	Sand with some gravel fill to 3.2 feet over apparent sandy fill with some silt and apparent cinders and ash to 7.0 feet over apparent alluvial sediment to bottom of test pit.
			Moist light brown gravelly (SAND) with 15 to 40% gravel, fine to coarse size sand, loose, common fine and medium size roots, (SW,GW)	3.2	
5			Extremely moist black mixed (SILTY-SAND) fill, very fine size sand with some silt, apparent silt and sand size ash and cinders, loose, few fine to coarse size roots, (apparent SM)	7.0	
			Extremely moist to wet olive brown (CLAYEY-SILT), soft, massive soil structure, common fine to medium size roots, (ML-CL)	7.5	
10			Wet distinctly mottled brownish gray (CLAYEY-SILT), soft, massive soil structure, few fine size roots, (ML-CL)	8.0	
			Test pit excavated to 8.0 feet.		Water level at 7.8 feet below ground surface at completion.
15					No sheen to water surface, OVM reading 0 ppm.
20					

N = NUMBER OF BLOWS TO DRIVE ____ " SPOON ____ " WITH ____ lb WT FALLING ____ " PER BLOW

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TEST PIT HOLE NO 14-90 SURF ELV

PROJECT Environmental assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Moist black cinders and ash, very loose, common fine to coarse size roots	Cinders and ash to 2.0 feet over apparent water sorted and deposited coarse silt with little to some very fine size sand to 5.5 feet over water sorted and deposited sand with little gravel to bottom of test pit.
			2.0 Extremely moist brown (SANDY-SILT) with little to some very fine size sand, loose, massive soil structure, few fine to medium size roots, (ML)	
			- - - - grades downward to - - - - -	
			5.5 Wet brown gravelly (SAND) with 15 to 35% mostly fine size subrounded gravel, fine to coarse size sand, loose, stratified, (SW)	
			6.0 Test pit excavated to 6.0 feet.	Water level at 5.1 feet below ground surface at completion.
				No sheen on water surface, OVM reading 0 ppm.

N = NUMBER OF BLOWS TO DRIVE ____" SPOON ____" WITH ____lb WT FALLING ____" PER BLOW

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TEST PIT
HOLE NO 15-90 SURF ELV

PROJECT Environmental assessment LOCATION See survey

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY
J892
CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Extremely moist black (SANDY-SILT) fill with little fine size sand with 30 to 40% glass and brick fragments, loose, common fine to coarse size roots, (ML)	1.9	Coarse silty soil fill with some glass and brick fragments, little sand to 1.9 feet over coarse silty alluvial sediment to 3.0 feet over water sorted and deposited very fine size sand with some silt to bottom of test pit.
5			Extremely moist distinctly mottled brown (SANDY-SILT) with little very fine size sand, compact, soil material tends to liquify when distributed, massive soil structure, (ML)	3.0	
			- - - - grades downward to - - - - -		
			Extremely moist becoming wet below 4.0 feet distinctly mottled brown (SILTY-SAND), very fine size sand, some silt, compact, soil material readily liqufies when disturbed, massive soil structure, (SM)	4.5	
10			Test pit excavated to 4.5 feet.		Water level at 4.0 feet below ground surface at completion. No sheen on water surface, OVM reading 0 ppm.
15					
20					

N = NUMBER OF BLOWS TO DRIVE ___ " SPOON ___ " WITH ___ lb WT FALLING ___ " PER BLOW

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TEST PIT HOLE NO 16-90 SURF ELV _____

PROJECT Environmental assessment LOCATION See survey

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY

J892 CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist black cinders and ash with glass, metal fragments and bricks, compact, numerous fine to coarse size roots	2.2	Mostly cinders and ash to 2.2 feet over apparent water sorted and deposited coarse silt with some very fine size sand to 4.0 feet over water sorted and deposited very fine size sand with some silt to bottom of test pit.
5			Moist brown (SANDY-SILT) tending towards (SILTY-SAND), compact, massive soil structure, common fine to coarse size roots, (ML) tending towards (SM) - - - - grades downward to - - - -	4.0	
			Extremely moist black (SILTY-SAND), very fine size sand with some silt, compact, soil material tends to liquify when disturbed, (SM)	5.0	
			Test pit excavated to 5.0 feet.		No water at completion.
10					OVM reading 0 ppm.
15					
20					

N = NUMBER OF BLOWS TO DRIVE _____" SPOON _____" WITH _____ lb WT FALLING _____" PER BLOW

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TEST PIT HOLE NO 17-90 SURF ELV

PROJECT Environmental assessment LOCATION See survey

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY
J892

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Moist mostly black cinders and ash with glass, metal and broken brick fragments, very loose, numerous fine to coarse size roots	Mostly cinder and ash to 3.0 feet over water sorted and deposited very fine size sand with some silt to bottom of test pit.
			3.0 Moist faintly mottled brown (SILTY-SAND), very fine size sand with some silt, loose, massive soil structure, few fine to medium size roots, (SM)	
5			7.0 Test pit excavated to 7.0 feet.	No water at completion. OVM reading 0 ppm.
10				
15				
20				

N = NUMBER OF BLOWS TO DRIVE ___ " SPOON ___ " WITH ___ lb WT FALLING ___ " PER BLOW

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TEST PIT HOLE NO 18-90 SURF ELV _____

PROJECT Environmental assessment LOCATION See survey

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/2/90 COMPLETED 5/2/90

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Moist dark brown (SANDY-SILT) fill with 5 to 15% gravel and occasional broken bricks, little fine size sand, very loose, numerous fine to coarse size sand	1.5	Coarse silty soil fill with little sand and gravel to 1.5 feet over silty soil fill to 4.5 feet over water sorted deposited very fine size sand with some silt to bottom of test pit.
5			Moist distinctly mottled brown mixed dark brown (CLAYEY-SILT) soil fill, stiff, massive soil structure, common fine to coarse size roots, (ML-CL)	4.5	
			Moist faintly mottled brown (SILTY-SAND), very fine size sand with some silt, compact, massive soil structure, (SM) tending towards (ML)	5.5	
10			Test pit excavated to 5.5 feet.		No water at completion. OVM reading 0 ppm.
15					
20					

N = NUMBER OF BLOWS TO DRIVE _____" SPOON _____" WITH _____ lb WT FALLING _____" PER BLOW

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HAND AUGER
HOLE NO 19-90 SURF ELV

PROJECT Environmental assessment LOCATION 30 feet downstream of TP 7-90, one foot

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY west of Tonawanda Creek bank
J892

CLIENT COUNTY OF GENESEE DATE STARTED 5/3/90 COMPLETED 5/3/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Water 0.8	Sampled alluvial silt.
			Wet dark gray (SILT), very soft, (ML) 1.3	
			Boring completed at 1.3 feet.	
5				
10				
15				
20				

N = NUMBER OF BLOWS TO DRIVE ___ " SPOON ___ " WITH ___ lb WT FALLING ___ " PER BLOW

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HAND AUGER
HOLE NO 20-90 SURF ELV

PROJECT Environmental assessment LOCATION Towards Tonawanda Creek from TP 12-90,

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY 0.9 feet from bank
J892

CLIENT COUNTY OF GENESEE DATE STARTED 5/3/90 COMPLETED 5/3/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Water	0.7 Sampled alluvial silt.
			Wet dark gray (SILT), very soft, (ML)	1.2
			Boring completed at 1.2 feet.	
5				
10				
15				
20				

N = NUMBER OF BLOWS TO DRIVE - " SPOON - " WITH - lb WT FALLING - " PER BLOW

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HAND AUGER HOLE NO 21-90 SURF ELV

PROJECT Environmental assessment LOCATION WNW of TP 18-90, 0.5 feet west of bank

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/3/90 COMPLETED 5/3/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Water	0.8 Sampled alluvial silt.
			Wet dark gray (SILT) with decayed leaves, very soft, (ML)	1.3
			Boring completed at 1.3 feet.	
5				
10				
15				
20				

N = NUMBER OF BLOWS TO DRIVE - " SPOON - " WITH - lb WT FALLING - " PER BLOW

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Soil Investigations and Monitoring Well Installations

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HAND AUGER
HOLE NO 22-90 SURF ELV

PROJECT Environmental assessment LOCATION Approximately 150 feet north of RR,

2J89a/ Old Doeler-Jarvis parcel, Batavia, NY 150 feet west of river

J892
CLIENT COUNTY OF GENESEE DATE STARTED 5/3/90 COMPLETED 5/3/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
			Extremely moist dark gray (SILT) topsoil, very loose, granular soil structure, numerous fine to coarse size roots, (ML)	1.0	Silty alluvial to 2.5 feet over coarse silt alluvial with some very fine size sand to 3.5 feet over water sorted and deposited very fine and fine size sand with little silt to 4.5 feet over water sorted and deposited sand to end of boring.
			Extremely moist brown (SILT), loose, no apparent soil structure, common fine to coarse size roots, (ML)		
			- - - - grades downward to - - - - -	2.5	
5			Extremely moist distinctly mottled brown (SANDY-SILT) with some very fine size sand, compact, weak thinly bedded, few fine size roots, (ML)		
			- - - - grades downward to - - - - -	3.5	
			Wet faintly mottled brown (SILTY-SAND), very fine and fine size sand, little silt, loose, soil material readily liquifies when disturbed, thinly bedded, (SM)		
			- - - - grades downward to - - - - -	4.5	
10			Wet brown (SAND), very fine to medium size sand, loose, soil material readily flows in moving water, thinly bedded, (SP) tending towards (SW)	5.5	
			Boring completed at 5.5 feet.		Water level at 2.5 feet below ground surface at completion.
15					
20					

N = NUMBER OF BLOWS TO DRIVE ____ " SPOON ____ " WITH ____ lb WT FALLING ____ " PER BLOW

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HAND AUGER

HOLE NO 23-90 SURF ELV

PROJECT Environmental assessment LOCATION Approximately 150 feet downstream from Conrail RR bridge, 0.5 feet east of west bank

2J89a/ J892 Old Doeler-Jarvis parcel, Batavia, NY

CLIENT COUNTY OF GENESEE DATE STARTED 5/3/90 COMPLETED 5/3/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER 0/6 6/12 12/18 18/24 N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			Water	0.8 Sampled alluvial silt.
			Wet dark gray (SILT) with decayed leaves, soft, (ML)	1.3
			Boring completed at 1.3 feet.	
5				
10				
15				
20				

N = NUMBER OF BLOWS TO DRIVE ____" SPOON ____" WITH ____lb WT FALLING ____" PER BLOW

LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

ATTACHMENT 2

FIELD NOTES

This attachment is a brief summary of the logbook kept by Earth Investigations Ltd. personnel in which all field observations and measurements were recorded on a daily basis. The following pages summarize field log entries applicable to this project.

Earth Investigations Ltd.
Phase II Real Estate Investigation
Field Note Summary

Wednesday, May 2, 1990

- Weather clear, approx. 40-50 deg. F.

- Arrive 07:04 hours at site. Locations are already staked in and labelled as to the location.

- At 07:35 hours a search for the pipe discharge on the north side of the dam was made. A seep was found at the area where the pipe should be, perhaps the pipe has collapsed. The seep looks potentially contaminated with a film on the water surface. Seep will not be sampled at this time until verification is made.

- At 07:50 hours the backhoe arrives.

1. Soil Sampling Location #1 (1-90)

   - 07:51 hours
   - OVM = 0 ppm
   - There is groundwater below the fill, no sheen on water, no odor.

2. Soil Sampling Location #2 (2-90)

   - 08:15 hours
   - Location is moved approx. 5 feet toward Location #1 in order to get off of concrete slab.
   - OVM = 0 ppm
   - Hit old drain pipe, pipe and some surrounding soil is greenish in color, no groundwater.
   - Soil sample is taken, soil pH = 7.5

3. Soil Sampling Location #3 (3-90)

   - 08:33 hours
   - Location is moved approx. 6 feet toward Location #5 to get away from concrete.
   - Hit part of old drain pipe.
   - Strong petroleum odor at first, then odor fades.
   - OVM = 0.2 ppm
   - Soil sample is taken, soil pH = 7.3
   - Groundwater sample is taken - sample is very cloudy, brown in color, slight petroleum odor, film on surface of the water. Sample temp. 8 deg. C, specific conductivity = 3480 umhos, pH = 6.63.

4. Soil Sampling Location #5 (5-90)

- 09:30 hours
- Took backhoe much effort, much asphalt and concrete
- OVM = 0 ppm
- No groundwater

5. Soil Sampling Location #4 (4-90)

- 09:47 hours
- OVM = 0 ppm
- Some groundwater after a while

6. Soil Sampling Location #6 (6-90)

- 10:10 hours
- OVM = 0 ppm
- No groundwater
- A piece of light rail removed from hole

7. Soil Sampling Location #7 (7-90)

- 10:25 hours
- Hole contains a lot of old cinders
- OVM = 0 ppm
- Groundwater sample is taken - sample is cloudy, dark brown in color, no odor, slight sheen on the surface, sample temp. 13 deg. C., specific conductivity = 1380 umhos, pH = 6.67.

8. Soil Sampling Location #8 (8-90)

- 11:00 hours
- OVM = 0 ppm
- Groundwater pouring into hole
- Soil sample taken

9. Soil Sampling Location #9 (9-90)

- 11:17 hours
- Groundwater pouring into pit
- OVM = 0 ppm

10. Soil Sampling Location #10 (10-90)

- 11:40 hours
- OVM - 0 ppm
- Soil sample taken

11. Soil Sampling Location #13 (13-90)

- 12:50 hours
- Hole moved about 20 feet away from creek because of large rocks
- OVM = 0 ppm
- Soil sample taken

12. Soil Sampling Location #11 (11-90)

- 13:20 hours
- OVM = 0 ppm
- Mild odor to soil
- Soil sample taken

13. Soil Sampling Location #12 (12-90)

- 13:50 hours
- Hit old drainage pipe
- Groundwater with a slight sheen to it
- OVM = 0 ppm

14. Soil Sampling Location #15 (15-90)

- 14:00 hours
- OVM = 0 ppm
- Very little groundwater

15. Soil Sampling Location #14 (14-90)

- 14:20 hours
- OVM = 0 ppm
- No groundwater
- Soil sample taken

16. Soil Sampling Location #16 (16-90)

- 14:35 hours
- OVM = 0 ppm
- No groundwater

17. Soil Sampling Location #17 (17-90)

- 14:58 hours
- OVM = 0 ppm
- No groundwater
- Soil sample taken, soil pH = 7.6

18. Soil Sampling Location #18 (18-90)

- 15:25 hours
- OVM = 0 ppm

Finished at site at 16:12 hours

Thursday, May 3, 1990

- Weather clear, approx. 40-50 deg. F

- Arrive 07:30 at site

19. Groundwater Sampling at Seep

- Located just north of dam at edge of creek bank
- OVM = 0 ppm
- Groundwater sample taken, sample is cloudy, brownish in color, slight sheen on surface, mild petroleum odor, sample temp. 6 deg. C, specific conductivity 1020 umhos, pH = 6.81

20. Creek Sediment Sampling (19-90, 20-90, 21-90)

Part 1 of 3 - Located on creek behind Soil Location #7

- 08:00 hours
- OVM = 0 ppm
- Dark muck encountered

Part 2 of 3 - Located on creek behind Soil Location #12

- 08:10 hours
- Dark muck encountered
- OVM - 0 ppm

Part 3 of 3 - Located on creek behind Soil Location #18

- 08:15 hours
- OVM = 0 ppm

Composited sediment pH = 7.7

21. Background Soil Sampling Location (22-90)

- 09:00 hours
- OVM = 0 ppm
- After crossing railroad bridge over creek into background area, auger hole located about 150 feet from tracks and about 200 feet in from the creek.
- Soil sample taken, soil pH = 7.0
- Groundwater sample taken, sample cloudy, brownish in color, no odor, sample temp. 7 deg. C., specific conductivity = 460 umhos, pH = 6.55

22. Background Sediment Sampling Location (23-90)

- 09:27 hours
- OVM = 0 ppm
- Location approx. 150 feet from railroad bridge, straight out to creek from background soil location
- Soil pH = 7.4

ATTACHMENT 3

ALPHA ANALYTICAL
CHAIN-OF-CUSTODY

1355

Project & Name Earth Investigations Ltd # 89-023 Project No. 89-023

Sampler's Signature George Strebel

Sample Number S-(02,03,17,BG01), SD-(01,BG-01) GW-(03,07,Seep, BG-01) Seq. Number S+SD=1of1, GW=6of6

Date 5/2,3/90 Time VARIOUS am pm

Sample Location Open field, real estate investigation

Sample Type Soil, sediment, groundwater Preservative cold, NaOH, HNO3, H3PO4

Container Type 1 liter wide mouth, 1 liter narrow mouth, 500 ml, VOA vials No. of Containers 31

Remarks Observations Soil + Sediment in 1 liter wide mouth, Groundwater in 1 liter narrow mouth, 1 liter narrow mouth, 500 ml metals, 500 ml phenols, 2 VOAs.

1.
Relinquished By George Strebel Date 5/3/90 Time am pm

Received By [signature] Date 5/3/90 Time 5:40 am pm

2.
Relinquished Date / / Time am pm

Received By Date / / Time am pm

3.
Relinquished Date / / Time am pm

Received By Date / / Time am pm

4.
Relinquished By Date / / Time am pm

Received By Date / / Time am pm

Method of Shipment AUTO Shipped By ALP

Sample Custodian M. ALLENDER (please print) Date 5/3/90 Time 7:45 am pm

ATTACHMENT 4

ALPHA ANALYTICAL LABORATORIES INC

826 Pine Avenue
Niagara Falls, New York 14301
(716) 284-8011

ELAP # 10961

SAMPLE INFORMATION

Job Number	Client	Date
1355.01-10	ODNY, Inc. R-6576 East Quaker Street Orchard Park, NY 14127	May 25, 1990

Sample Site	Chain of Custody	Sample Disposition
Earth Investigations, Limited	Yes	Hold 30 Days

FIELD INFORMATION

Sample ID#	Date Sampled	Container	Volume	Preservative
S-02	5/2/90	Glass Jar (1)	950 ml	Ice-4 C
S-03	5/2/90	Glass Jar (1)	950 ml	Ice-4 C
S-17	5/2/90	Glass Jar (1)	950 ml	Ice-4 C
S-BG-01	5/3/90	Glass Jar (1)	950 ml	Ice-4 C
SD-01	5/3/90	Glass Jar (1)	950 ml	Ice-4 C
SD-BG-01	5/3/90	Glass Jar (1)	950 ml	Ice-4 C
GW-03	5/2/90	Glass Bottle (1)	1 liter	Ice-4 C
		Glass Bottle (1)	1 liter	NaOH
		Glass Bottle (1)	500 ml	H_2PO_4
		Glass Bottle (1)	500 ml	HNO_3
		VOC Vials (2)	40 ml	Ice-4 C
GW-07	5/2/90	Glass Bottle (1)	1 liter	Ice-4 C
		Glass Bottle (1)	1 liter	NaOH
		Glass Bottle (1)	500 ml	H_2PO_4
		Glass Bottle (1)	500 ml	HNO_3
		VOC Vials (2)	40 ml	Ice-4 C
GW-Seep	5/2/90	Glass Bottle (1)	1 liter	Ice-4 C
		Glass Bottle (1)	1 liter	NaOH
		Glass Bottle (1)	500 ml	H_2PO_4
		Glass Bottle (1)	500 ml	HNO_3
		VOC Vials (2)	40 ml	Ice-4 C
GW-BG-01	5/2/90	Glass Bottle (1)	1 liter	Ice-4 C
		Glass Bottle (1)	1 liter	NaOH
		Glass Bottle (1)	500 ml	H_2PO_4
		Glass Bottle (1)	500 ml	HNO_3
		VOC Vials (2)	40 ml	Ice-4 C

Sample shuttle also contained one (1) 40 ml VOC field blank.

Sample Information continued on next page

ANALYTICAL REQUEST

Sample ID#	Sample Matrix	Method Requested	Extraction Date	Analysis Date
S-02	SS	SW-846 6010	5/22/90	5/22/90
		SW-846 7060	5/23/90	5/23/90
		SW-846 8080	5/15/90	5/15/90
		SW-846 8240	5/14/90	5/14/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
S-03	SS	SW-846 6010	5/22/90	5/22/90
		SW-846 7060	5/23/90	5/23/90
		SW-846 8080	5/15/90	5/15/90
		SW-846 8240	5/14/90	5/14/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
S-17	SS	SW-846 6010	5/22/90	5/22/90
		SW-846 7060	5/23/90	5/23/90
		SW-846 8080	5/15/90	5/15/90
		SW-846 8240	5/14/90	5/14/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
S-BG-01	SS	SW-846 6010	5/22/90	5/22/90
		SW-846 7060	5/23/90	5/23/90
		SW-846 8080	5/15/90	5/15/90
		SW-846 8240	5/14/90	5/14/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
SD-01	SD	SW-846 6010	5/22/90	5/22/90
		SW-846 7060	5/23/90	5/23/90
		SW-846 8080	5/15/90	5/15/90
		SW-846 8240	5/14/90	5/14/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
SD-BG-01	SD	SW-846 6010	5/22/90	5/22/90
		SW-846 7060	5/23/90	5/23/90
		SW-846 8080	5/15/90	5/15/90
		SW-846 8240	5/14/90	5/14/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
GW-03	WG	40 CFR Part 136 200.7	5/22/90	5/22/90
		40 CFR Part 136 206.2	5/23/90	5/23/90
		40 CFR Part 136 213.2	5/25/90	5/25/90
		40 CFR Part 136 239.2	5/24/90	5/24/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
		40 CFR Part 136 608	5/15/90	5/15/90
		40 CFR Part 136 624	5/14/90	5/14/90

Sample Information continued on next page

ANALYTICAL REQUEST-cont.

Sample ID#	Sample Matrix	Method Requested	Extraction Date	Analysis Date
GW-07	WG	40 CFR Part 136 200.7	5/22/90	5/22/90
		40 CFR Part 136 206.2	5/23/90	5/23/90
		40 CFR Part 136 213.2	5/25/90	5/25/90
		40 CFR Part 136 239.2	5/24/90	5/24/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
		40 CFR Part 136 608	5/15/90	5/15/90
		40 CFR Part 136 624	5/14/90	5/14/90
GW-Seep	WG	40 CFR Part 136 200.7	5/22/90	5/22/90
		40 CFR Part 136 206.2	5/23/90	5/23/90
		40 CFR Part 136 213.2	5/25/90	5/25/90
		40 CFR Part 136 239.2	5/24/90	5/24/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
		40 CFR Part 136 608	5/15/90	5/15/90
		40 CFR Part 136 624	5/14/90	5/14/90
GW-BG-01	WG	40 CFR Part 136 200.7	5/22/90	5/22/90
		40 CFR Part 136 206.2	5/23/90	5/23/90
		40 CFR Part 136 213.2	5/25/90	5/25/90
		40 CFR Part 136 239.2	5/24/90	5/24/90
		SM 412.B&D	5/18/90	5/18/90
		SM 510.A&C	5/23/90	5/23/90
		40 CFR Part 136 608	5/15/90	5/15/90
		40 CFR Part 136 624	5/14/90	5/14/90

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.01

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-02			
	Aluminum	10	658
	Arsenic	2	<DL
	Barium	4	67.9
	Cadmium	4	<DL
	Chromium	4	8,320
	Copper	4	55,600
	Magnesium	10	380
	Lead	10	1,340
	Nickel	10	13.6
	Tin	10	349
	Zinc	4	16,300

Method of Analysis
SW-846 6010, 7060

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.01

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-02			
	PCB-1016	.24	ND
	PCB-1221	.24	ND
	PCB-1232	.24	ND
	PCB-1242	.24	ND
	PCB-1248	.24	ND
	PCB-1254	.24	<DL
	PCB-1260	.24	ND

Method of Analysis
SW-846 8080

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.01

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-02			
	Methylene chloride	.18	ND
	Carbon tetrachloride	.22	ND
	Benzene	.18	ND
	Toluene	.15	ND
	Xylene	.21	ND
	Trichloroethylene	.21	ND
Surrogate Recoveries			
	1,2-Dichloroethane d4		91.6
	Toluene d8		97.7
	4-Bromofluorobenzene		91.6

Method of Analysis
SW-846 8240

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.01

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-02			
	Total Cyanide	.04	<DL
	Phenols	.02	1.00

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.02

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-03			
	Aluminum	10	12,200
	Arsenic	2	5.6
	Barium	4	44.1
	Cadmium	4	ND
	Chromium	4	15.8
	Copper	4	234
	Magnesium	10	9,040
	Lead	10	ND
	Nickel	10	29.1
	Tin	10	28.3
	Zinc	4	777

Method of Analysis
SW-846 6010, 7060

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.02

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-03			
	PCB-1016	.24	ND
	PCB-1221	.24	ND
	PCB-1232	.24	ND
	PCB-1242	.24	ND
	PCB-1248	.24	ND
	PCB-1254	.24	ND
	PCB-1260	.24	ND

Method of Analysis
SW-846 8080

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.02

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-03			
	Methylene chloride	.18	ND
	Carbon tetrachloride	.22	ND
	Benzene	.18	ND
	Toluene	.15	ND
	Xylene	.21	ND
	Trichloroethylene	.21	ND
Surrogate Recoveries			
	1,2-Dichloroethane d4		97.1
	Toluene d8		95.3
	4-Bromofluorobenzene		94.4

Method of Analysis
SW-846 8240

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.02

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-03			
	Total Cyanide	.04	0.04
	Phenols	.02	0.14

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.03

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-17			
	Aluminum	10	7,850
	Arsenic	2	10.2
	Barium	4	97.5
	Cadmium	4	ND
	Chromium	4	16.6
	Copper	4	121
	Magnesium	10	13,400
	Lead	10	ND
	Nickel	10	20.7
	Tin	10	46.7
	Zinc	4	393

Method of Analysis
SW-846 6010, 7060

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.03

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-17			
	PCB-1016	.24	ND
	PCB-1221	.24	ND
	PCB-1232	.24	ND
	PCB-1242	.24	ND
	PCB-1248	.24	ND
	PCB-1254	.24	ND
	PCB-1260	.24	ND

Method of Analysis
SW-846 8080

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.03

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-17			
	Methylene chloride	.18	ND
	Carbon tetrachloride	.22	ND
	Benzene	.18	ND
	Toluene	.15	ND
	Xylene	.21	ND
	Trichloroethylene	.21	ND
Surrogate Recoveries			
	1,2-Dichloroethane d4		85.1
	Toluene d8		94.9
	4-Bromofluorobenzene		90.4

Method of Analysis
SW-846 8240

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.03

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-17			
	Total Cyanide	.04	0.30
	Phenols	.02	0.95

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.04

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-BG-01	Aluminum	10	20,600
	Arsenic	2	<DL
	Barium	4	163
	Cadmium	4	ND
	Chromium	4	18.8
	Copper	4	13.0
	Magnesium	10	10,200
	Lead	10	ND
	Nickel	10	28.0
	Tin	10	12.3
	Zinc	4	105

Method of Analysis
SW-846 6010, 7060

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.04

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-BG-01	PCB-1016	.24	ND
	PCB-1221	.24	ND
	PCB-1232	.24	ND
	PCB-1242	.24	ND
	PCB-1248	.24	ND
	PCB-1254	.24	ND
	PCB-1260	.24	ND

Method of Analysis
SW-846 8080

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.04

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-BG-01			
	Methylene chloride	.18	ND
	Carbon tetrachloride	.22	ND
	Benzene	.18	ND
	Toluene	.15	ND
	Xylene	.21	ND
	Trichloroethylene	.21	ND

Surrogate Recoveries

1,2-Dichloroethane d4	103
Toluene d8	98.0
4-Bromofluorobenzene	91.3

Method of Analysis
SW-846 8240

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.04

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
S-BG-01	Total Cyanide	.04	<DL
	Phenols	.02	ND

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.05

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-01			
	Aluminum	10	10,000
	Arsenic	2	4.1
	Barium	4	75.5
	Cadmium	4	ND
	Chromium	4	6.0
	Copper	4	20.2
	Magnesium	10	16,800
	Lead	10	ND
	Nickel	10	17.1
	Tin	10	ND
	Zinc	4	99.0

Method of Analysis
SW-846 6010, 7060

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.05

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-01			
	PCB-1016	.24	ND
	PCB-1221	.24	ND
	PCB-1232	.24	ND
	PCB-1242	.24	ND
	PCB-1248	.24	ND
	PCB-1254	.24	ND
	PCB-1260	.24	ND

Method of Analysis
SW-846 8080

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca

Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.05

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-01			
	Methylene chloride	.18	ND
	Carbon tetrachloride	.22	ND
	Benzene	.18	ND
	Toluene	.15	ND
	Xylene	.21	ND
	Trichloroethylene	.21	ND

Surrogate Recoveries

1,2-Dichloroethane d4	98.6
Toluene d8	101
4-Bromofluorobenzene	93.8

Method of Analysis
SW-846 8240

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.05

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-01	Total Cyanide	.04	<DL
	Phenols	.02	ND

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.06

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-BG-01			
	Aluminum	10	8,950
	Arsenic	2	4.0
	Barium	4	<DL
	Cadmium	4	ND
	Chromium	4	7.8
	Copper	4	14.4
	Magnesium	10	15,400
	Lead	10	ND
	Nickel	10	21.3
	Tin	10	95.7
	Zinc	4	88.2

Method of Analysis
SW-846 6010, 7060

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.06

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-BG-01			
	PCB-1016	.24	ND
	PCB-1221	.24	ND
	PCB-1232	.24	ND
	PCB-1242	.24	ND
	PCB-1248	.24	ND
	PCB-1254	.24	ND
	PCB-1260	.24	ND

Method of Analysis
SW-846 8080

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.06

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-BG-01			
	Methylene chloride	.18	ND
	Carbon tetrachloride	.22	ND
	Benzene	.18	ND
	Toluene	.15	ND
	Xylene	.21	ND
	Trichloroethylene	.21	ND

Surrogate Recoveries

1,2-Dichloroethane d4	95.5
Toluene d8	101
4-Bromofluorobenzene	95.5

Method of Analysis
SW-846 8240

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.06

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
SD-BG-01	Total Cyanide	.04	<DL
	Phenols	.02	0.97

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.07

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-03	Aluminum	.05	3.19
	Arsenic	.01	ND
	Barium	.02	1.11
	Cadmium	.002	.006
	Chromium	.02	<DL
	Copper	.02	0.11
	Magnesium	.05	6.96
	Lead	.02	0.18
	Nickel	.05	<DL
	Tin	.05	0.13
	Zinc	.02	0.67

Method of Analysis
EPA 200.7, 206.2, 213.2, 239.2

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.07

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-03	PCB-1016	2.4	ND
	PCB-1221	2.4	ND
	PCB-1232	2.4	ND
	PCB-1242	2.4	ND
	PCB-1248	2.4	ND
	PCB-1254	2.4	ND
	PCB-1260	2.4	<DL

Method of Analysis
EPA 608

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.07

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-03	Methylene chloride	1.8	ND
	Carbon tetrachloride	2.2	ND
	Benzene	1.8	ND
	Toluene	1.5	ND
	Xylene	2.1	ND
	Trichloroethylene	2.1	ND
Surrogate Recoveries			
	1,2-Dichloroethane d4		113
	Toluene d8		102
	4-Bromofluorobenzene		105

Method of Analysis
EPA 624

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.07

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-03	Total Cyanide	.002	.003
	Phenols	.01	ND

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.08

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-07	Aluminum	.05	70.8
	Arsenic	.01	0.07
	Barium	.02	0.17
	Cadmium	.002	.012
	Chromium	.02	0.16
	Copper	.02	1.75
	Magnesium	.50	166
	Lead	.20	5.1
	Nickel	.05	0.24
	Tin	.05	ND
	Zinc	.02	6.95

Method of Analysis
EPA 200.7, 206.2, 213.2, 239.2

ND=Not Detected DL=Detection Limit

Released By: Mario R Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.08

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-07			
	PCB-1016	2.4	ND
	PCB-1221	2.4	<DL
	PCB-1232	2.4	ND
	PCB-1242	2.4	ND
	PCB-1248	2.4	ND
	PCB-1254	2.4	ND
	PCB-1260	2.4	<DL

Method of Analysis
EPA 608

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.08

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-07	Methylene chloride	1.8	ND
	Carbon tetrachloride	2.2	ND
	Benzene	1.8	ND
	Toluene	1.5	ND
	Xylene	2.1	ND
	Trichloroethylene	2.1	ND
Surrogate Recoveries			
	1,2-Dichloroethane d4		95.6
	Toluene d8		89.0
	4-Bromofluorobenzene		87.7

Method of Analysis
EPA 624

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.08

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-07	Total Cyanide	.002	.006
	Phenols	.01	0.04

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.09

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-Seep	Aluminum	.05	10.7
	Arsenic	.01	ND
	Barium	.02	1.90
	Cadmium	.002	ND
	Chromium	.02	0.04
	Copper	.02	0.05
	Magnesium	.50	42.9
	Lead	.02	0.41
	Nickel	.05	ND
	Tin	.05	ND
	Zinc	.02	0.54

Method of Analysis
EPA 200.7, 206.2, 213.2, 239.2

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.09

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-Seep			
	PCB-1016	2.4	ND
	PCB-1221	2.4	ND
	PCB-1232	2.4	ND
	PCB-1242	2.4	ND
	PCB-1248	2.4	ND
	PCB-1254	2.4	ND
	PCB-1260	2.4	<DL

Method of Analysis
EPA 608

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.09

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-Seep	Methylene chloride	1.8	ND
	Carbon tetrachloride	2.2	ND
	Benzene	1.8	ND
	Toluene	1.5	ND
	Xylene	2.1	ND
	Trichloroethylene	2.1	ND

Surrogate Recoveries

1,2-Dichloroethane d4	96.8
Toluene d8	91.8
4-Bromofluorobenzene	111

Method of Analysis
EPA 624

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.09

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-Seep	Total Cyanide	.002	.005
	Phenols	.01	.01

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL METALS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.10

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-BG-01	Aluminum	.05	117
	Arsenic	.01	ND
	Barium	.02	0.02
	Cadmium	.002	.004
	Chromium	.02	0.09
	Copper	.02	0.28
	Magnesium	5.0	302
	Lead	.02	0.38
	Nickel	.05	0.41
	Tin	.05	ND
	Zinc	.02	1.19

Method of Analysis
EPA 200.7, 206.2, 213.2, 239.2

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-PCBs

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.10

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-BG-01	PCB-1016	2.4	ND
	PCB-1221	2.4	ND
	PCB-1232	2.4	ND
	PCB-1242	2.4	ND
	PCB-1248	2.4	ND
	PCB-1254	2.4	ND
	PCB-1260	2.4	ND

Method of Analysis
EPA 608

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.10

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
GW-BG-01			
	Methylene chloride	1.8	ND
	Carbon tetrachloride	2.2	ND
	Benzene	1.8	ND
	Toluene	1.5	ND
	Xylene	2.1	ND
	Trichloroethylene	2.1	ND
Surrogate Recoveries			
	1,2-Dichloroethane d4		94.3
	Toluene d8		92.6
	4-Bromofluorobenzene		96.5

Method of Analysis
EPA 624

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

LABORATORY ANALYSIS-TOTAL CYANIDE AND PHENOLS

Date Reported: May 24, 1990
Date Sampled: May 3, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.10

Sample ID #	Parameter	Detection Limit PPM	Quantity Detected PPM
GW-BG-01	Total Cyanide	.002	<DL
	Phenols	.01	ND

Method of Analysis
SM 412.B&D, 510.A&C

ND=Not Detected DL=Detection Limit

Released By: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ANALYTICAL REPORT-VOLATILE ORGANICS

Date Reported: May 25, 1990
Date Sampled: May 2, 1990
Analysis by: Alpha Analytical, Inc. ELAP# 10961
Analysis for: ODNY, Inc.
AAL # 1355.00

Sample ID #	Parameter	Detection Limit PPB	Quantity Detected PPB
Trip Blank			
	Methylene chloride	1.8	ND
	Carbon tetrachloride	2.2	ND
	Benzene	1.8	ND
	Toluene	1.5	ND
	Xylene	2.1	ND
	Trichloroethylene	2.1	ND
Surrogate Recoveries			
	1,2-Dichloroethane d4		98.5
	Toluene d8		96.1
	4-Bromofluorobenzene		96.9

Method of Analysis
SW-846 8240

ND=Not Detected DL=Detection Limit

Released by: Mario R. Montesdeoca
Mario R. Montesdeoca
Laboratory Director

ATTACHMENT 5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, NEW YORK 10278

May 15, 1990

John H. Gratz
Project Manager
Earth Investigations Ltd.
R-6576 East Quaker Street
Orchard Park, New York 14127

Re: Freedom of Information Act Request
(2)RIN-2574-89 (regarding property located off Walnut St., City of Batavia, County of Genesee)

Dear Mr. Gratz:

This is in response to your above-referenced request for information under the Freedom of Information Act dated December 13, 1989. Please be advised that the Office of Regional Counsel has not located any documents which are responsive to this request. It is my understanding that other offices of this Agency may be responding to your inquiry under separate cover.

Sincerely,

Walter E. Mugdan

Walter E. Mugdan
Deputy Regional Counsel
Office of Regional Counsel

cc: Region II Freedom of Information Office