NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation Final Preliminary Site Assessment Report

Tobe's Breakfast House Site

Watkins Glen, New York Site No. 8-49-003

Work Assignment No. D003826-06



March 2002



NYSDEC SUPERFUND CONTRACT NO. D003826

FINAL PRELIMINARY SITE ASSESSMENT REPORT

WORK ASSIGNMENT NO. D003826-06

TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NEW YORK

SITE NO. 8-49-003

Submitted to:

New York State Department of Environmental Conservation Albany, New York

Submitted by:

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March 2002

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FINAL PRELIMINARY SITE ASSESSMENT REPORT

TOBE'S BREAKFAST HOUSE SITE

TABLE OF CONTENTS

Section	Title	Page No.
EXECUTIVE	SUMMARY	ES-1
1.0 INTROI	DUCTION	1-1
2.0 SUMMA	ARY OF EXISTING DATA	2-1
2.1 SITE I	DESCRIPTION	2-1
	Copography	
	Climate	
2.1.3 S	Surface Water Hydrology	2-2
	Groundwater Hydrology	
	Geology	
	HISTORY	
	OUS INVESTIGATIONS	
	Valkover	
2.5 SUMM	ARY OF DATA RECORDS SEARCH AND ASSESSMENT FINDINGS	2-4
3.0 FIELD I	NVESTIGATION	3-1
3.1 TASK	2 - Field Investigation	3-1
	Geophysical Survey	
	Geoprobe Borings and Sampling	
	1.2.1 Soil Sampling Procedure	
3.	1.2.2 Groundwater Sampling Procedure	3-3
	1.2.3 Sample Analysis	
	Microwell Installation	
	Water Level Survey	
	ndoor Air Sampling	
3.1.6	Site Survey	3-5
4.0 DATA A	ASSESSMENT	4-1
4.1 Geople	HYSICAL SURVEY	4-1
	AND GROUNDWATER ANALYTICAL RESULTS	4-1
	Data Comparability	
	2.1.1 Soil Sample Comparability	4-2
4.5	2.1.2 Groundwater Sample Comparability	
4.2.2 S	Soil Sample Results	
	Groundwater Sample Results	

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FINAL PRELIMINARY SITE ASSESSMENT REPORT

TOBE'S BREAKFAST HOUSE SITE

TABLE OF CONTENTS

(Continued)

Section		Title	Page No.
4.4 INDOOR AIR SAM	IPLE	URFACE MAP	4-5
5.0 INVESTIGATION	FIIN	IDINGS	5-1
GLOSSARY OF ACR	ON	YMS AND ABBREVIATIONS	
REFERENCES			
APPENDICES			
		SITE PHOTOGRAPHS	TION FORM
		NYSDEC SITE INVESTIGATION INFORMA USEPA SITE INSPECTION QUESTIONNAIR	
APPENDIX D	_	'SITE INFORMATION' FORM GEOPHYSICAL SURVEY DATA	
		FIELD DATA SHEETS	
E.1			
E.2 APPENDIX F		Sample Records SITE LAND SURVEY	
		DATA USABILITY REPORT	
G.1		On-Site Analytical Laboratory	
G.1 G.2		Off-Site Analytical Laboratory	
APPENDIX H		GROUNDWATER MODELING NOTES	
APPENDIX I			

FINAL PRELIMINARY SITE ASSESSMENT REPORT

TOBE'S BREAKFAST HOUSE SITE

LIST OF FIGURES

Figure	Title
1-1	Site Location
2-1	Site Map
2-2	Site Building Plan
3-1	Area of Geophysical Survey
4-1	Concentrations of PCE in Groundwater
4-2	Potentiometric Surface Map

LIST OF TABLES

<u>Table</u>	Title
4-1	Geoprobe Soil Sampling Results
4-2	Groundwater Sampling Results
4-3	Groundwater Well Survey and Water Elevation Data
4-4	Air Sample Results

EXECUTIVE SUMMARY

The Tobe's Breakfast House site (Site), Site No. 8-49-003, is located at 129-135 East 4th Street, in the Village of Watkins Glen, Schuyler County, New York. The New York State Department of Environmental Conservation (NYSDEC) currently considers the Site a potential hazardous waste site, because insufficient information exists to determine whether wastes disposed of at the Site are hazardous wastes, or whether the wastes pose a significant threat to public health or the environment (New York State (NYS), 1998). Harding Lawson Associates (HLA) conducted a field investigation as part of a Preliminary Site Assessment (PSA). The purpose of the PSA is to gather sufficient information to evaluate environmental problems present at a site. The PSA seeks to identify whether a source of waste is present at a site, determine if the wastes pose a significant threat to human health or the environment, and evaluate migration routes to the surrounding environment through groundwater, surficial, or air pathways.

The Site is situated in the north-central section of Watkins Glen on 0.34 acres in a commercial and residential area on East 4th Street (NYS Route 414). The property consists of a paved and a gravel parking lot, a small grassy yard, and a large building containing a restaurant, retail sales space and two residential apartments. A small shed to the rear of the building and the store in the center of the building were reportedly the location of a former dry cleaner that operated from the early 1950's until the late 1970's. The shed was removed in approximately 1981. A two story wooden addition and walk in cooler was constructed in the south corner of the building in 1981. The Site is serviced by public water and sewer.

The Site came to the attention of the NYSDEC in September 1999 after tetrachloroethene (PCE) was detected in groundwater samples collected from the property during an investigation for the sale of the property.

To determine whether the Site is the source of contaminants detected in groundwater, HLA:

- completed a file review of the Site in April of 2001
- conducted a geophysical survey in October of 2001
- collected 11 direct push soil samples from above the water table at 11 locations in October and November of 2001
- collected 22 groundwater samples at 15 locations in October and November of

2001

- installed six microwells to measure groundwater table elevations in October and November of 2001
- collected one air sample from inside the first floor of the Site building in October of 2001
- conducted a land survey of the Site in November of 2001

Review of physical and chemical data collected during the PSA resulted in the following findings:

- 1) Evidence of hazardous waste use, storage, and disposal at the Site were recorded during the PSA.
- 2) PCE was detected at concentrations exceeding the NYS Class GA groundwater standard of 5 micrograms per liter (μ g/L) in groundwater samples from five borings located at and downgradient from the Site.
- 3) Based on site data, the groundwater table gradient is relatively flat, and appears to flow to the north, towards Seneca Lake.
- 4) Relative PCE concentrations in groundwater suggest the Site buildings as the source area. In addition, indoor air concentrations of PCE suggest that PCE contamination exists below the building.
- 5) PCE concentrations in groundwater (maximum of $100 \mu g/L$) are less than those reported in 1999, when PCE was detected as high as $530 \mu g/L$.
- 6) PCE was detected in Site soils at concentrations up to 629 J micrograms per kilogram ($\mu g/Kg$). The NYSDEC soil cleanup objective for PCE is 1400 $\mu g/Kg$. PCE was detected in soils south of the Site buildings at depths ranging from 2 to 14 feet below ground surface.
- 7) Benzene (2.3 micrograms per cubic meter [µg/m³]) and PCE (25 µg/m³) were detected at concentrations above the United States Environmental Protection Agency Region III Risk Based Concentration of 0.22 µg/m³, and 3.1 µg/m³, respectively, in the one air sample collected from inside the ground floor apartment. Although the State does not publish guidelines for benzene, the New York State Department of Health recommends that average ambient air concentrations for PCE in a residential community not exceed 100 µg/m³.

1.0 INTRODUCTION

Harding Lawson Associates (HLA) is submitting this Preliminary Site Assessment (PSA) Report to the New York State Department of Environmental Conservation (NYSDEC). This PSA Report addresses the work completed under the Project Management Work Plan (HLA, 2001) at the Tobe's Breakfast House site (Site) in the Village of Watkins Glen, New York (Figure 1-1). This PSA Report was prepared in response to Work Assignment No. D0003826-06, and in accordance with the requirements of the July 1997 Superfund Standby Contract No. D003826 between the NYSDEC and HLA.

The Site, Site No. 8-49-003, is currently considered a potential hazardous waste site by the NYSDEC, because insufficient information exists to determine whether wastes disposed of at the site are hazardous wastes, or whether the wastes pose a significant threat to public health or the environment (New York State (NYS), 1998).

The purpose of the PSA is to provide information to be used by the NYSDEC to classify the Site to one of the following categories:

Class 1	Hazardous waste constitutes a significant threat to the
	environment, as described in Title 6 of the New York Codes,
	Rules, and Regulations (NYCRR) Part 375 (NYS, 1998); and the
	significant threat to the environment is causing, or presents an
	imminent danger of causing, either irreversible or irreparable
	damage to the environment.

- Class 2 Hazardous waste constitutes a significant threat to the environment, as described in NYCRR Part 375 (NYS, 1998).
- Class 3 Hazardous waste does not presently constitute a significant threat to the environment, as described in NYCRR Part 375 (NYS, 1998).

To complete its classification, the NYSDEC requires information to establish the following:

- the existence of hazardous waste at the site, as defined in Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 371 (NYS, 1999a); and
- the site's significance with respect to the threat it poses to public health and the environment as defined in 6 NYCRR Part 375 (NYS, 1998).

To develop the classification data, HLA:

- completed a file review of the Site
- conducted a geophysical survey
- collected 11 direct push soil samples from above the water table at 11 locations
- collected 22 groundwater samples at 15 locations
- installed six microwells to measure groundwater table elevations
- collected one air sample from inside the first floor of the Site building
- conducted a land survey of the Site

This PSA Report represents culmination of work under Task 1: Review of Background Material and Preparation of Project Management Work Plan (HLA, 2001), and Task 2: Site Field Investigation. During Task 1, HLA conducted a search of state and county Site records and performed a Site inspection to develop information necessary for reclassification or delisting. The results are presented in Section 2.0 of this document. Task 1 activities did not develop adequate data on which to base a classification recommendation. Therefore, a field investigation was completed under Task 2. Section 3.0 of this document presents a detailed summary of work completed during the field investigation. Section 4.0 of this report presents an assessment of the analytical results and field data collected. Section 5.0 presents conclusions.

2.0 SUMMARY OF EXISTING DATA

On April 18, 2001, HLA personnel visited the Site, reviewed available records from the NYSDEC office in Albany, New York, and visited the Watkins Glen, New York municipal offices and the Schuyler County, New York offices. The information was reviewed to support a Site classification and to help prepare the scope of work for the PSA field investigation. The information collected from these sources is summarized below.

2.1 SITE DESCRIPTION

The Site is located at 129-135 East 4th Street, in the north-central section of Watkins Glen, in Schuyler County, New York (Figure 1-1). The Site is situated on 0.34 acres in a commercial and residential area on East 4th Street (NYS Route 414). The property consists of a paved and a gravel parking lot, a small grassy yard, and a large building containing a restaurant, retail sales space and two residential apartments (Figure 2-1). The Site is serviced by public water and sewer.

The Site sits on the south side of East 4th Street and the west side of Decatur Street. Private residences are located south of the Site property, and the United Methodist Church is located to the west of the Site. A small park is located east of the Site, across Decatur Street. Glen Manor House Bed and Breakfast is located north of the Site, across East 4th Street. A self-serve laundromat that was reportedly a former dry cleaner is located on the north side of East 4th Street, approximately 230 feet west of the Site.

Site photographs are presented in Appendix A. Additional Site information is available on the NYSDEC Site Investigation Information Report Form presented in Appendix B, and on the United States Environmental Protection Agency (USEPA) Site Inspection Questionnaire 'Site Information' form, presented in Appendix C.

2.1.1 Topography

The Village of Watkins Glen is located at the southern end of the Seneca Lake Valley, which runs north-south. The Site property is located at approximately 460 feet above mean sea level (msl). The valley walls rise up sharply to the west of the Site, reaching 1000 feet above msl in 0.9 miles.

Seneca Lake is located at 445 feet above msl, 0.2 miles north of the Site. Wetlands

surround the town to the east and south and are located 0.5 miles east of the Site and 1.0 mile south of the Site (Figure 1-1).

2.1.2 Climate

The climate of the area is characterized by moderately warm summers and cold winters. The mean monthly temperatures range from 24 degrees Fahrenheit (°F) in January to 70°F in July. Average annual precipitation is 32 inches. Average annual snowfall is 90 inches (National Climatic Data Center, 1999 for Rochester, NY)

2.1.3 Surface Water Hydrology

Surface drainage from the Site generally follows the topography, flowing towards Seneca Lake to the north.

2.1.4 Groundwater Hydrology

Seneca Lake is a local groundwater discharge area. Depth to groundwater at the Site is approximately 15 feet. Groundwater at the Site is interpreted to flow north towards Seneca Lake.

2.1.5 Geology

Soils in the vicinity of the Site consist primarily of the Chenango gravelly silty loam (URS Consultants, Inc, 1993). Bedrock is expected to be greater than 25 feet below ground surface (bgs). Bedrock in the area consists primarily of Upper Devonian shale and siltstone (New York State Geological Survey, 1970).

2.2 SITE HISTORY

The Site came to the attention of the NYSDEC in September 1999 after tetrachloroethene (PCE) was detected in groundwater samples collected from the property during an investigation for the sale of the property.

It is not known when the Site building was constructed. The building contains numerous stores, including Tobe's Breakfast House, a restaurant in the northeast side of the building. The east side of the building also contains two apartments (one on the first floor and one on the second). A two story wooden addition and walk in cooler was constructed in the south corner of the building in 1981 (Tobey, 2001) (Figure 2-2). A small shed to

the rear of the building and the store in the center of the building were reportedly the location of a former dry cleaner that operated from the early 1950's until the late 1970's (Tobey, 2001) (Figure 2-1). According to the manager of Tobe's Breakfast House, the shed to the rear of the building was also used to store dry cleaning solvents (Peters, 2001). The shed was removed in approximately 1981 (Tobey, 2001).

2.3 Previous Investigations

The current manager of Tobe's Breakfast House conducted a limited site assessment for the potential purchase of the Site in September 1999. Four geoprobe borings were completed and one soil sample (from boring GEO-1) and three water samples were collected (from GEO-2, GEO-3, and GEO-4) (Figure 2-1). Water samples were collected from the top of the water column. The water table was encountered between 15 and 16 feet bgs.

Samples were analyzed for volatile organic compounds (VOCs) via the United States Environmental Protection Agency (USEPA) Method 8021. No VOCs were detected in the soil sample collected. PCE was detected in all three groundwater water samples. Because the laboratory lost the groundwater sample identifications, it is not known which sample came from which boring. PCE concentrations for the three groundwater samples were 15 micrograms per liter (μ g/L), 89 μ g/L, and 530 μ g/L. Trichloroethene (TCE) was detected at 2.6 μ g/L in the water sample containing PCE at a concentration of 530 μ g/L.

2.4 SITE WALKOVER

On April 18, 2001 HLA, the NYSDEC, and the Site property manager conducted a walkover of the Site.

SITE WALKOVER ATTENDEES

Name	TITLE	Affiliation/Telephone
Charles Staples	Site Manager	Harding Lawson Associates 207-775-5401
Joseph White	Environmental Engineer NYSDEC Project Manager	NYSDEC Division of Environmental Remediation, Albany 518-402-9564
Greg MacLean	Environmental Engineer	NYSDEC Division of Environmental

Harding Lawson Associates

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SITE WALKOVER ATTENDEES

Name	TITLE	AFFILIATION/TELEPHONE
	Region 8	Remediation 716-226-5356
Manmohan Mehta	Environmental Engineer Region 8	NYSDEC Division of Environmental Remediation 716-226-5356
Jerry Peters	Tobe's Breakfast House Manager	135 East Fourth Street 607-535-4512

The site walkover consisted of viewing the Site to assess possible contamination sources and logistical concerns for the field program.

No definitive sources of contamination were observed, however, detailed inspections of potential sources, including Site soils and potential dry wells were not conducted during the site walkover. The area surrounding the former shed located south of the Site buildings was identified as a potential source of contamination. HLA gathered additional information for the purpose of identifying potential sources during Task 2.

2.5 SUMMARY OF DATA RECORDS SEARCH AND ASSESSMENT FINDINGS

Under federal and state regulations a solid waste may be regulated as a hazardous waste if it is a material included in one of the USEPA's or the NYSDEC's lists of hazardous wastes. If a material is regulated because of its inclusion on a federal or state list, it is commonly referred to as a "listed" hazardous waste. A waste may also be regulated as a "characteristic" hazardous waste if it exhibits one of the characteristics of toxicity, corrosivity, reactivity, or flammability.

PCE was detected in groundwater samples collected from the Site. Spent chlorinated solvents not originating from household sources, including PCE, are included on both the USEPA's and the NYSDEC's lists of hazardous waste. Under 6 NYCRR Part 371.4(a)(1), this spent solvent constitutes hazardous waste from non-specified sources. Although the presence of chlorinated solvents in Site groundwater was documented in historic records reviewed during Task 1, a Site source area for groundwater contamination was not definitively identified during the records search.

Data collected in 1999 indicated concentrations of VOCs in the Site groundwater that exceeded NYS Class GA water quality standards in 6 NYCRR Parts 700-706 (NYS, 1999b). Contravention of ambient groundwater standards is one method of determining whether a significant threat to the environment exists (NYS, 1998).

Significant threat was confirmed at the Site during Task 1 due to the exceedence of groundwater standards for chlorinated solvents at the Site; however, the source of contamination was not identified. A field investigation was performed during Task 2 to collect the data necessary to determine if hazardous waste was disposed of on-site, and to provide sufficient information to allow the NYSDEC to classify the Site.

3.0 FIELD INVESTIGATION

To classify the Site, the NYSDEC requires data documenting hazardous waste disposal as set forth in 6 NYCRR Part 371, and the potential significant threat to human health and the environment as defined in 6 NYCRR Part 375. Because data necessary to determine if hazardous wastes were disposed of on-site were not available in state and county files reviewed during Task 1, the field investigation described below was performed. Task 2 activities include the field investigation. The objective of Task 2 activities was to determine, if possible, whether the VOCs detected in the Site groundwater originated from the Site, and if the contaminant is migrating off-site.

3.1 TASK 2 - FIELD INVESTIGATION

The Site field investigation was conducted on October 10, 2001, from October 18 to 19, 2001, and on November 1, 2001. The field investigation included a geophysical survey, direct push soil and groundwater sampling, microwell installation, indoor air sampling, and a land survey.

The following subsections describe activities conducted during the field investigation. Findings from the activities are presented in Section 4.0. The field investigation was conducted in accordance with the specifications presented in the Quality Assurance Program Plan (ABB-Environmental Services, 1995) and the site-specific Quality Assurance Project Plan (HLA, 2001). Buck Environmental Laboratories, Inc. performed on-site analytical laboratory analysis. To verify accuracy and quality of he on-site analytical data, confirmatory split samples were sent to an off-site analytical laboratory. H2M Labs, Inc., a New York State Department of Health (NYSDOH)-approved laboratory performed off-site analytical laboratory analyses in accordance with the NYSDEC Analytical Services Protocols (ASP) (NYSDEC, 1995).

3.1.1 Geophysical Survey

HLA conducted a geophysical survey at the Site (Figure 3-1 and Appendix D) on October 10, 2001. Geophysical data was used to screen for the presence or absence of subsurface structures such as abandoned underground storage tanks (UST's), potential dry wells or french drains, septic fields, and associated appurtenances. Two geophysical techniques were employed at the Site and include the following:

• ElectroMagnetic (EM) - 61 Time Domain Metal Detection

• Ground-penetrating Radar (GPR) (GSSI System III)

A high-resolution metal detection survey was conducted using a Geonics EM-61. The EM-61 was used to screen for subsurface metallic objects (i.e., UST's, drums, cast iron piping, etc.) A GPR survey was completed using a GSSI System III GPR unit equipped with a 500-megahertz transducer. GPR data was used to further characterize observed EM-61 anomalies. Additionally, GPR was used to clear proposed soil borings of subsurface structures and possible utilities prior to clearance by Dig-Safely. EM-31 terrain conductivity data was not collected at the site due to the close proximity of buildings, parked vehicles, and overhead power lines.

Prior to the EM survey, a 10-foot by 10-foot survey reference grid was established over the southern portion of the property (parking area accessed by North Decatur Street). EM-61 survey lines were spaced 10 feet apart. EM-61 data was collected every 0.63 feet along each traverse. GPR data was collected continuously in a screening fashion over selected EM-61 anomalies. Observed geophysical anomalies were marked in the field with pin flagging and measured to building corners. Figure 3-1 illustrates the extent of the geophysical survey. Geophysical anomalies were identified for possible boring locations.

3.1.2 Geoprobe Borings and Sampling

Soil and groundwater investigation activities included the completion of geoprobe borings, the collection and analysis of groundwater and soil samples, and the installation of microwells. The objective was to provide groundwater data for comparison to NYS Class GA Groundwater Quality Standards in 6 NYCRR Parts 700-706 (NYS, 1999b), and to assist the NYSDEC in evaluating significant threat to public health and the environment as defined by 6 NYCRR Part 375 (NYS, 1998). Soil sample analyses were used to assess whether hazardous waste constituents are present in Site soil, and to compare soil analytical results to the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) No. 94-4046 (NYSDEC 1994). The geoprobe sampling was conducted over three days.

HLA used a geoprobe sampling device to collect groundwater and soil samples. The geoprobe pushes and/or hammers rods and probe tips into the subsurface for sample collection. HLA worked closely with the NYSDEC, the Site owner, and utility companies to obtain access to the exploration locations.

HLA completed ten borings (BS/BW-1 through BS/BW-10) on October 18 and 19, 2001, including the installation of four microwells (MW-1 through MW-4). A total of 17 groundwater samples (two groundwater samples per boring, where possible) and 9 soil

samples (one from each boring except BW-2) were collected. Samples were analyzed onsite in a field laboratory. Analytical results were available in real-time, and the data was used to determine the location of subsequent borings. Upon review of the results of the two-day program, HLA completed a third day of sampling on November 1, 2001. An additional 5 borings were completed (BS/BW-11 through BW-15), including the collection of five groundwater samples (one from each boring) and two soil samples (one each from BS-11 and BS-12). Samples were sent to the off-site analytical laboratory for analysis. Two additional microwells were also installed (MW-5 and MW-6). Soil and groundwater sampling procedures are described below.

3.1.2.1 Soil Sampling Procedure. Soils were collected using a four-foot long 2-inch diameter core sampler with an acrylic liner for the collection of discrete subsurface soil samples. Soil core sample tubes were collected continuously from the ground surface to the top of the water table, present at approximately 15 feet bgs. Photoionization detector (PID) readings were used to screen soils for the presence of VOCs upon opening the sample collection tube. Soil boring BS-5 was selected for continuous soil core sampling to 24 feet bgs, to better characterize Site soils. Soils were described using the Unified Soil Classification System. The sample description and classification, VOC headspace reading, and boring observations were recorded on the Test Boring Logs, located in Appendix E. Based on the PID readings and physical evidence of contamination, such as color and odor, nine unsaturated soil samples from ten borings (one soil sample from each boring except boring BS-2) were submitted to the laboratory for analysis. The gravelly fill located at boring BS-2 bound to the sample collection tube, preventing the collection of a soil sample.

3.1.2.2 Groundwater Sampling Procedure. Groundwater samples were collected using a slotted, two-foot long, one-inch diameter stainless steel rod pushed to the desired sample depth interval. A peristaltic pump was used to collect discrete groundwater samples. At locations where adequate water volumes were present, one set of groundwater parameters including temperature, conductivity, pH, and turbidity was collected before sampling.

To establish vertical distribution of contamination and to aid in directing the location of subsequent borings, groundwater samples were collected from two locations in borings BW-1 through BW-5, BW-8, and in BW-10. The samples were collected from the water table and from eight to 10 feet into the water table. A silt layer encountered in borings BW-6, BW-7, and BW-9 prevented collection of a groundwater sample at the water table, and therefore only one sample (eight to 10 feet into the water table) was collected from each of these three borings. Upon review of the results of the first two days of sampling, HLA added a third day of sampling and completed an additional five borings

(BW-11 to BW-15). One groundwater sample was collected from the water table in each boring (BW-11 through BW-15). Groundwater Sample Field Data Records are located in Appendix E.

3.1.2.3 Sample Analysis. Geoprobe groundwater and soil samples collected on October 18 and 19, 2001 were analyzed in an on-site analytical laboratory. The samples were analyzed for VOCs using the USEPA SW-846 modified Method 8021. Of the soil and groundwater samples collected for on-site analytical laboratory analysis 10% were split sampled for off-site analytical laboratory confirmatory analysis. Groundwater and soil samples selected for confirmatory off-site analytical laboratory analysis and samples collected on November 1, 2001 were analyzed by the off-site analytical laboratory for Target Compound List VOCs using NYSDEC ASP Method 95-4 and 95-1, respectively. Off-site analytical laboratory analyses were reported using NYSDEC Category B specifications. Analytical results are presented in Section 4.0.

3.1.3 Microwell Installation

Microwells were installed after soil and/or groundwater samples were collected from each boring. The microwells were installed as piezometers and used for water level measurements only. Microwells were constructed with one-inch inside diameter schedule 40 polyvinyl chloride, with 10-foot lengths of 0.01-inch machine slotted microwell screens. The microwell screens were set with approximately two to five feet of screen above the water table to determine water table elevations and create a potentiometric surface map. The microwell screens were covered with a polypropylene "sock" to prevent silt from entering the microwell. The microwells were constructed with a # 0 sand pack to 3 to 4 feet bgs, and a granular bentonite seal above the sand pack to the ground surface. The microwells were completed with a screw cap and a four-inch flush mount cover. Microwell construction diagrams are presented in Appendix E. The microwells were developed for twenty minutes with a peristaltic pump to clean the screen and to determine if the microwells are conductive with groundwater.

Six of the 15 geoprobe borings (BS/BW-1, BW-2, BS/BW-3, BS/BW-5, BS/BW-11, and BW-13) were fitted with one-inch inside diameter microwells (MW-1 through MW-6) (Figure 2-1). Three microwells (MW-1, MW-2, and MW-6) were completed north of East 4th Street, on the Glen Manor House Bed and Breakfast property. Microwells MW-1 and MW-2 were constructed in borings BS/BW-1 and BW-2, respectively, both located 10 feet north of East 4th Street. Microwell MW-6, constructed in boring BW-13, is located 100 feet north of East 4th Street, on the eastern edge of the Glen Manor House Bed and Breakfast property. Microwells MW-2 and MW-6 are located downgradient from the Site. The remaining three microwells were located on the Site property.

Microwell MW-3 was installed in boring BS/BW-3, located in the grass on the east side of the Site building. Microwell MW-4 was completed in boring BS/BW-5, located in the southwest portion of the Site parking lot. Microwell MW-5 was installed in boring BS-BW-11, located on the northwest corner of the Site.

3.1.4 Water Level Survey

One round of water levels was collected from the six microwells. Microwell caps were opened to allow water in the microwells to equilibrate to atmospheric pressure. Depth to water was measured with a conductivity probe from the top of the microwell riser. Groundwater table elevations were calculated from the microwell riser elevations (see subsection 3.1.6).

3.1.5 Indoor Air Sampling

One air sample was collected on October 18, 2001 from inside the Site building. The sample was collected from the living room of the first floor apartment. A 24-hour flow controller was used to collect a representative air sample from inside the building. The sample was collected in a 6-liter Summa canister and analyzed for VOCs using the modified USEPA Method TO-14.

3.1.6 Site Survey

Upon completion of sampling activities, HLA's survey subcontractor surveyed the Site and microwell locations. A map of the Site, indicating locations of microwells, and selected Site buildings, was prepared (see Appendix F). Vertical elevation accuracy was 0.01 foot and horizontal accuracy was 0.1 foot. Horizontal positions were tied into the NYS Plane Coordinate System. Vertical elevations were tied to mean seal level, 1929 National Geodetic Vertical Datum. Surveyed items included:

- horizontal locations of six new microwells
- vertical elevations of six new microwells, including top of the riser, and the ground surface
- Site structures

4.0 DATA ASSESSMENT

This section presents results of the geophysical survey and laboratory analyses for soil, groundwater, and air samples collected during Task 2, as well as results of the water level survey.

4.1 GEOPHYSICAL SURVEY

The extent of the geophysical survey is shown in the shaded area of Figure 3-1. Appendix D contains figures of representative geophysical data. Figure D-1 provides bottom coil response contours for the EM-61 high-resolution metal detection survey. One area of elevated EM-61 response values was observed in the data set. The anomaly is approximately 20 feet by 60 feet, and is attributable to the slab foundation of the reported former Dry Cleaning shed. Radar data collected over this structure (Figure D-2) show a strong reflector at or near ground surface indicating the concrete contains rebar or wire mesh. Radar data was inconclusive as to whether underground utilities exist at the site. Soil conditions in the parking lot area may have been overly conductive for penetration of required radio wave energy.

4.2 SOIL AND GROUNDWATER ANALYTICAL RESULTS

Soil and groundwater analytical results are compared to appropriate standards or guidelines. Reported concentrations of individual analytes indicating contravention of standards or guidelines are summarized in the following sections, and noted on Tables 4-1 and 4-2. The tables were assembled after the on-site and off-site data comparison was completed. The tables present both on-site and off-site analytical laboratory data.

A Data Usability Summary Report was completed in accordance with the NYSDEC's Guidance for the Development of Data Usability Summary Reports (NYSDEC, 1997). This report and complete analytical results are presented in Appendix G.

For purposes of analytical interpretation, some of the data was qualified with a J, B, and/or an N. Compounds were qualified J if the concentration listed was an estimated value, which was less than the specified minimum detection limit but greater than zero. Compounds qualified J were analyzed for and determined to be present in the sample, and the mass spectrum of the compound met the identification criteria of the method.

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Compounds qualified B indicate that the compound was found in the trip blank, or laboratory blank, and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

Compounds qualified N indicate presumptive evidence that the compound is present in the sample. This qualifier is used to identify uncertainties in reported analytes and to establish the possibility of false positive results.

Analytical results were compared to the standards or guidelines described below.

Soil Samples. Analytical results were compared to the Recommended Soil Cleanup Objectives in the NYSDEC TAGM No. 94-4046 (NYSDEC, 1994).

Groundwater Samples. Analytical results were compared to: (1) the NYS Class GA Groundwater Quality Standards from 6 NYCRR Parts 700-706 (NYS, 1999b) or, where applicable, (2) the NYS Class GA Groundwater Quality Guidance Values from the Division of Water Technical and Operational Guidance Series 1.1.1 "Ambient Water Quality Standards and Guidance Values" (NYSDEC, 1998).

4.2.1 Data Comparability

This section presents a comparison between VOC analytical results from the on-site and off-site laboratories. A more detailed discussion of the split sample results is presented in Appendix G.

- **4.2.1.1 Soil Sample Comparability**. Of the nine soil samples collected for on-site analysis, one split sample was sent to the off-site analytical laboratory for confirmatory analysis. Based on limited data, the split samples showed agreement for the absence of contamination at the project reporting limits.
- **4.2.1.2 Groundwater Sample Comparability**. Of the 17 samples collected for on-site VOC analysis, four split samples were sent to the off-site analytical laboratory for confirmatory analysis. All samples showed good correlation for the detected compounds. The average relative percent difference of the detected analytes was 23 percent, indicating good quantitative agreement between the laboratories.

4.2.2 Soil Sample Results

A summary of target VOCs detected in soil samples is presented in Table 4-1. Table 4-1 presents on-site and off-site analytical laboratory results.

No VOCs were detected in soil samples above the NYSDEC Soil Cleanup Objectives. PCE was detected in the soil sample from boring BS-4 at 14 feet bgs at a concentration of 379 $\mu g/Kg$. PCE was detected in the soil sample from boring BS-6 at 5 feet bgs at a concentration of 325 J $\mu g/Kg$. PCE was detected in the duplicate sample from boring BS-6 at a concentration of 629 J $\mu g/Kg$. PCE was detected in the soil sample from boring BS-10 at two feet bgs at a concentration of 410 $\mu g/Kg$. PCE was also detected in off-site analytical laboratory samples from borings BS-9, BS-11, and BS-12 at low concentrations (less than 28 $\mu g/Kg$). The soil cleanup objective for PCE is 1400 $\mu g/Kg$. All soil samples with PCE detections were collected from within the Site property boundary. Highest PCE detections in soil samples were from borings BS-4, BS-6, and BS-10, all located south of and adjacent to the Site building. No samples were collected from beneath the Site building.

Trace concentrations (less than 75 μ g/Kg) of toluene, xylene, and tentatively identified compound C3 subst_Benzene were detected in the off-site analytical samples from borings BS-9 and BS-12. The soil cleanup objectives for toluene and xylene are 1500 μ g/Kg and 1200 μ g/Kg, respectively. No soil cleanup objectives exist for C3 subst_Benzene. Borings BS-9 and BS-12 are located in the Site parking lot.

4.2.3 Groundwater Sample Results

A summary of target VOCs detected in groundwater samples is presented in Table 4-2 and on Figure 4-1. Table 4-2 presents on-site and off-site analytical laboratory results.

PCE was detected in groundwater samples collected from 9 of the 15 borings. Concentrations ranged from 2.6 μ g/L to 100 J μ g/L. Concentrations in samples collected from five of the borings, BW-2, BW-3, BW-13, BW-14, and BW-15, exceeded the NYS Class GA groundwater standard of 5 μ g/L. Four of the five boring locations with PCE groundwater exceedances are located north of the Site, in the direction of groundwater flow, and the fifth boring location is on the northeast corner of the Site. At each boring where PCE was detected, reported concentrations were higher at the water table than at a depth of 8 to 11 feet below the water table.

PCE was detected at trace concentrations (less than 4.0 µg/L) in groundwater samples collected from borings located upgradient (south) from the Site building (BW-4, BW-10,

BW-11, and BW-12. These PCE concentrations may be the result of rain infiltration through PCE in soils below the parking lot, or of vapor migration from the source area.

In addition to PCE, toluene (1.5 μ g/L), m,p-xylene (3.1 μ g/L), and o-xylene (2.0 μ g/L) were detected in the sample from boring BW-6. The NYS Class GA groundwater standard for each of the three compounds is 5 μ g/L. BW-6 is located on the Site in the gravel parking lot.

Carbon disulfide (0.6 J μ g/L) and 2-Butanone (2.0 J μ g/L) were detected in the sample from boring BW-11. There are no NYS Class GA groundwater standards for carbon disulfide and 2-Butanone; 2-Butanone has a guidance value of 50 μ g/L.

As a result of underground utilities below the sidewalk and street, no geoprobe borings could be completed immediately north of the Site building. In addition, access to sample below the building foundation slab was not available. To predict groundwater and soil PCE concentrations below the Site buildings, groundwater modeling was performed. Groundwater modeling calculations are presented in Appendix H.

To complete the modeling it was necessary to estimate the width of PCE-contaminated groundwater downgradient from the Site. It was estimated, based on existing data, that the extent of PCE contamination in groundwater at a location 140 feet downgradient from the 1981 Site building addition (boring BW-14) was approximately 200 feet wide. Combining this width with groundwater analytical results, an estimate of PCE concentrations in soil and groundwater at the suspected source area were made. Using the Vertical and Horizontal Spread analytical model and assuming a stratified aquifer, initial concentrations of PCE in groundwater were estimated to be 1,830 µg/L. The linear partitioning model indicates that this PCE groundwater concentration could be achieved if the concentration of PCE in soil at the water table in the source area (suspected to be below the Site building) is now, or was at some point in the past, at least 1300 µg/Kg. Based on the conclusions of the model, the concentration of PCE detected in Site soils is not high enough to result in the PCE concentrations detected in groundwater downgradient from the Site. PCE concentrations in Site soil may have diminished over time, or source area PCE concentrations below the building are greater than those detected.

4.3 POTENTIOMETRIC SURFACE MAP

The microwell survey and depth to water measurements were used to create a potentiometric surface water map (Figure 4-2). Microwell survey and water elevation

data are presented in Table 4-3. Depth to water across the survey area varied from approximately 12 feet bgs to 16 feet bgs. Groundwater elevations varied from 444.68 feet above msl, to 444.89 feet above msl. The groundwater table gradient appears to be relatively flat, varying by only 0.21 feet in elevation over 300 feet of distance. Interpreted groundwater surface contours indicate that groundwater flows to the north, towards Seneca Lake.

4.4 INDOOR AIR SAMPLE

The indoor air sample analytical results were compared to the NYSDOH guideline for PCE and to the USEPA's reference manual for indoor air quality (USEPA, 1991).

A detailed description of the air sample procedures and analytical results are included in Appendix I.

Seven VOCs were detected in the air sample. Benzene (2.3 micrograms per cubic meter $[\mu g/m^3]$) and PCE (25 $\mu g/m^3$), were the only two compounds detected at concentrations above the USEPA Region III Risk-Based Concentrations (RBC) of 0.22 $\mu g/m^3$, and 3.1 $\mu g/m^3$, respectively. Freon 12 (0.72 $\mu g/m^3$), acetone (6.5 $\mu g/m^3$), toluene (1.9 $\mu g/m^3$), and m,p-xylene (0.97 $\mu g/m^3$), were detected at concentrations below the respective USEPA Region III RBC. Ethanol was detected at 75 $\mu g/m^3$; there is no USEPA Region III RBC for ethanol.

Although detected air concentrations of PCE exceeded the USEPA Region III RBC, they were below the NYSDOH guidance action level for PCE (100 µg/m³).

The air sample was collected from the ground floor while the building windows were closed and the steam heating system was running. No air sample was collected from the basement, where there is an open floor drain leading to an underlying gravel bed.

5.0 INVESTIGATION FINDINGS

Review of physical and chemical data developed during the PSA resulted in the following findings:

- 1. Evidence of hazardous waste use, storage and disposal at the Site were recorded during the PSA.
- 2. PCE was detected at concentrations exceeding the NYS Class GA groundwater standard of 5 μg/L in groundwater samples from five borings (BW-2, BW-3, BW-13, BW-14, and BW-15), located at and downgradient from the Site. Maximum PCE concentrations at the five locations varied from 28.7 μg/L to 100 J μg/L. Lower concentrations of PCE (less than 3.9 μg/L) were detected in groundwater upgradient from the Site building.
- 3. The groundwater table gradient is relatively flat, and appears to flow to the north toward Seneca Lake.
- 4. Relative PCE concentrations in groundwater suggest the Site buildings as the source area. Although PCE was detected in Site soil south of the buildings, reported concentrations are not considered high enough to cause the levels of PCE detected downgradient (up to 100 μg/L). It is possible that site soil contamination has diminished over time due to flushing, or that an unidentified source area exists below the Site building. PCE product could have leaked through cracks in the concrete floor of the dry cleaning facility, or been released to the ground surface south of the original building (now occupied by the bakery and office addition, constructed in 1981). Based on analytic modeling, source area soil concentrations at one time may have been greater than approximately 1,300 μg/L. Indoor air concentrations of PCE suggest that PCE contamination exists below the building.
- 5. PCE concentrations in groundwater determined during the PSA are less than those reported in 1999, when PCE was detected as high as 530 μg/L.
- 6. Upgradient groundwater contamination may be the result of PCE product released to the ground surface. PCE in upgradient groundwater (3.9 μg/L) could be a result of source migration via rainwater infiltration, or from vapor migration.
- 7. PCE was detected in Site soil at concentrations up to 629 J µg/Kg. The NYSDEC soil cleanup objective for PCE is 1400 µg/Kg. PCE was detected in soil south of the Site buildings at depths ranging from 2 to 14 feet below ground surface.
- 8. Benzene (2.3 μg/m³) and PCE (25 μg/m³) were detected at concentrations above the USEPA Region III RBC of 0.22 μg/m³, and 3.1 μg/m³, respectively, in the single air sample collected from inside the ground floor apartment. The NYSDOH recommends that average ambient air concentrations for PCE in a residential community not exceed 100 μg/m³.

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

ABB-ES ABB Environmental Services
ASP Analytical Services Protocol

bgs below ground surface

EM ElectroMagnetic

°F degrees Fahrenheit

GPR Ground Penetrating Radar

HLA Harding Lawson Associates

msl mean sea level

NYCRR New York Codes, Rules, and Regulations

NYS New York State

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

PCE tetrachloroethene

PID photoionization detector PSA Preliminary Site Assessment

RBC Risk Based Concentration

Site Tobe's Breakfast House site

TAGM Technical and Administrative Guidance Memorandum

μg/Kg micrograms per kilogram μg/L micrograms per liter

μg/m³ micrograms per cubic meter

USEPA United States Environmental Protection Agency

UST underground storage tank

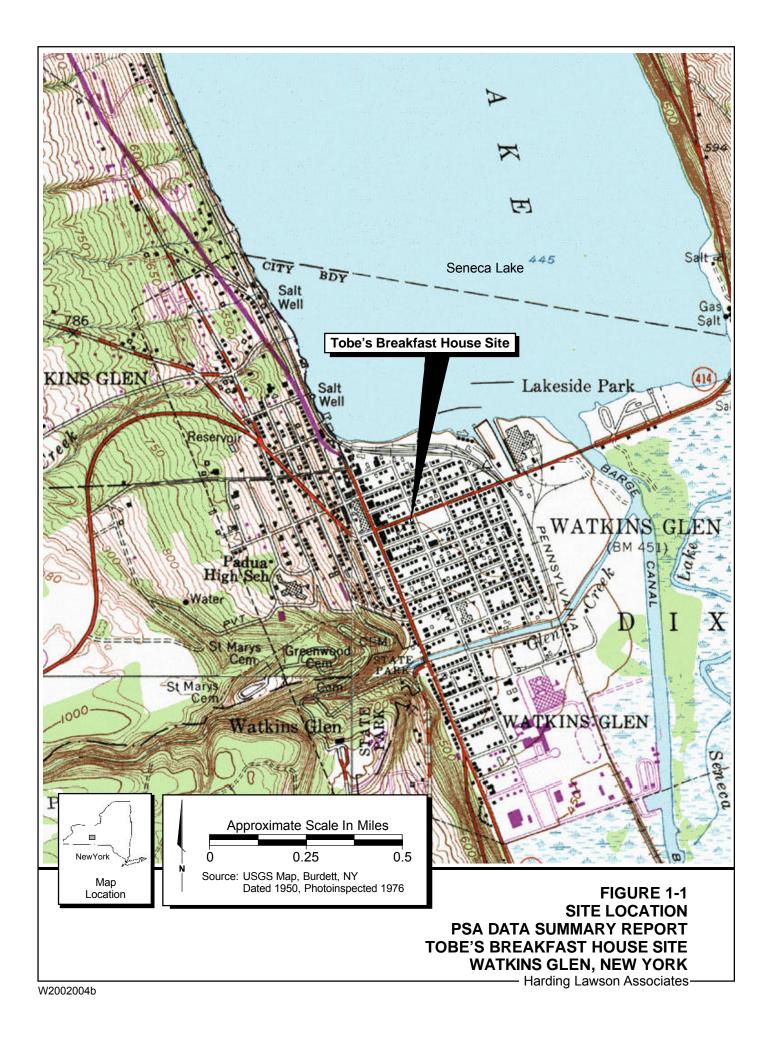
VOC volatile organic compound

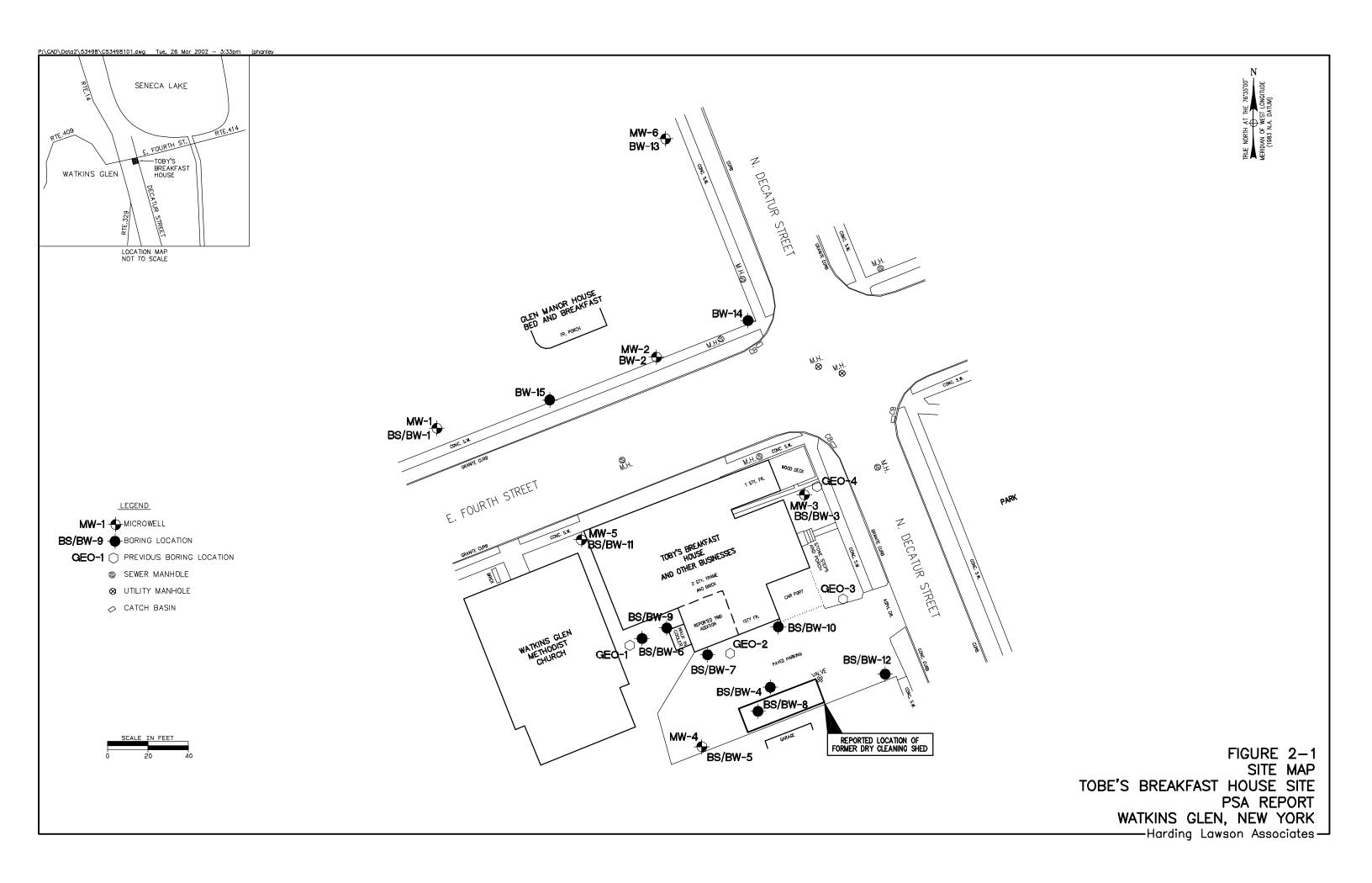
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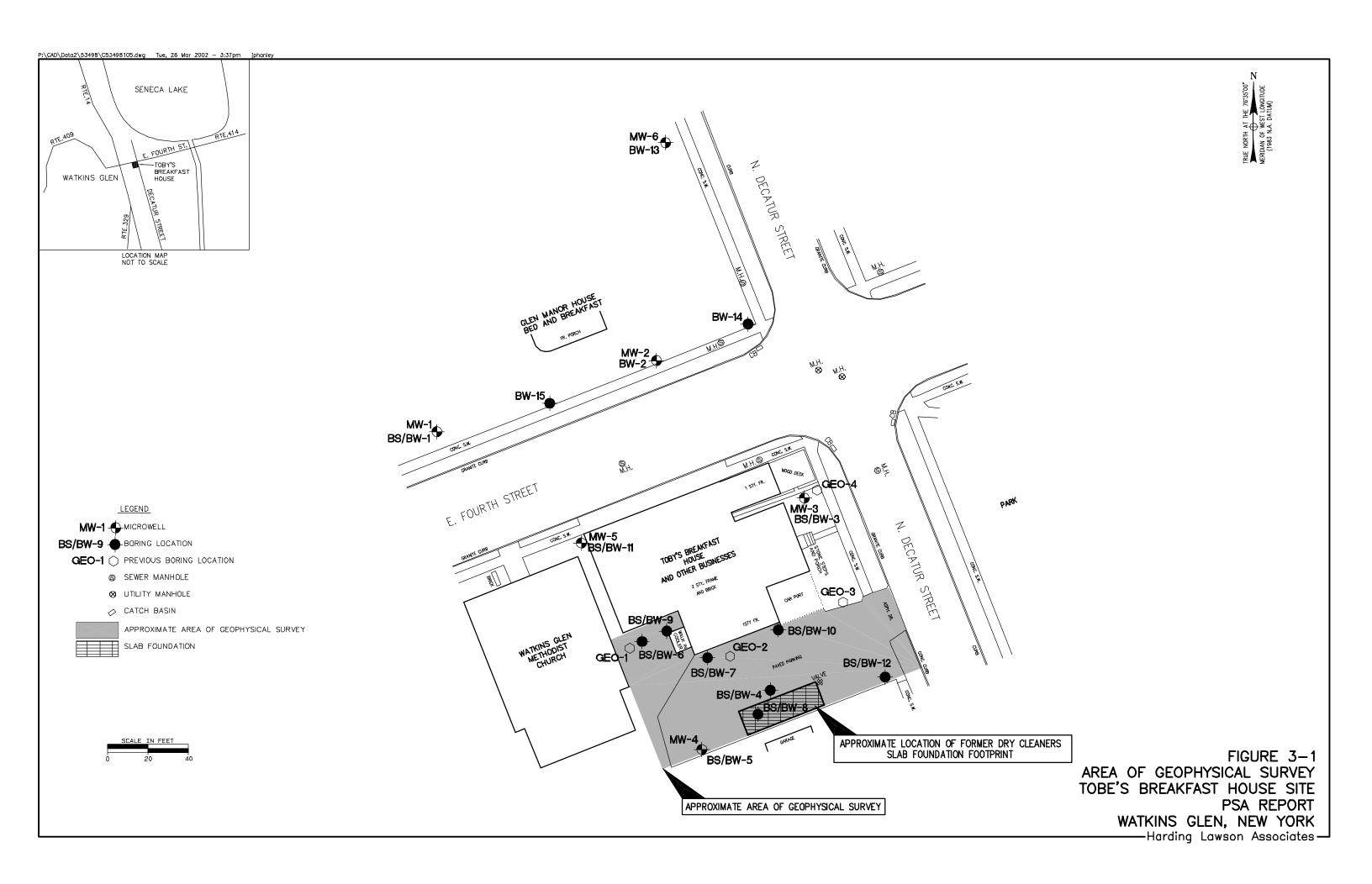
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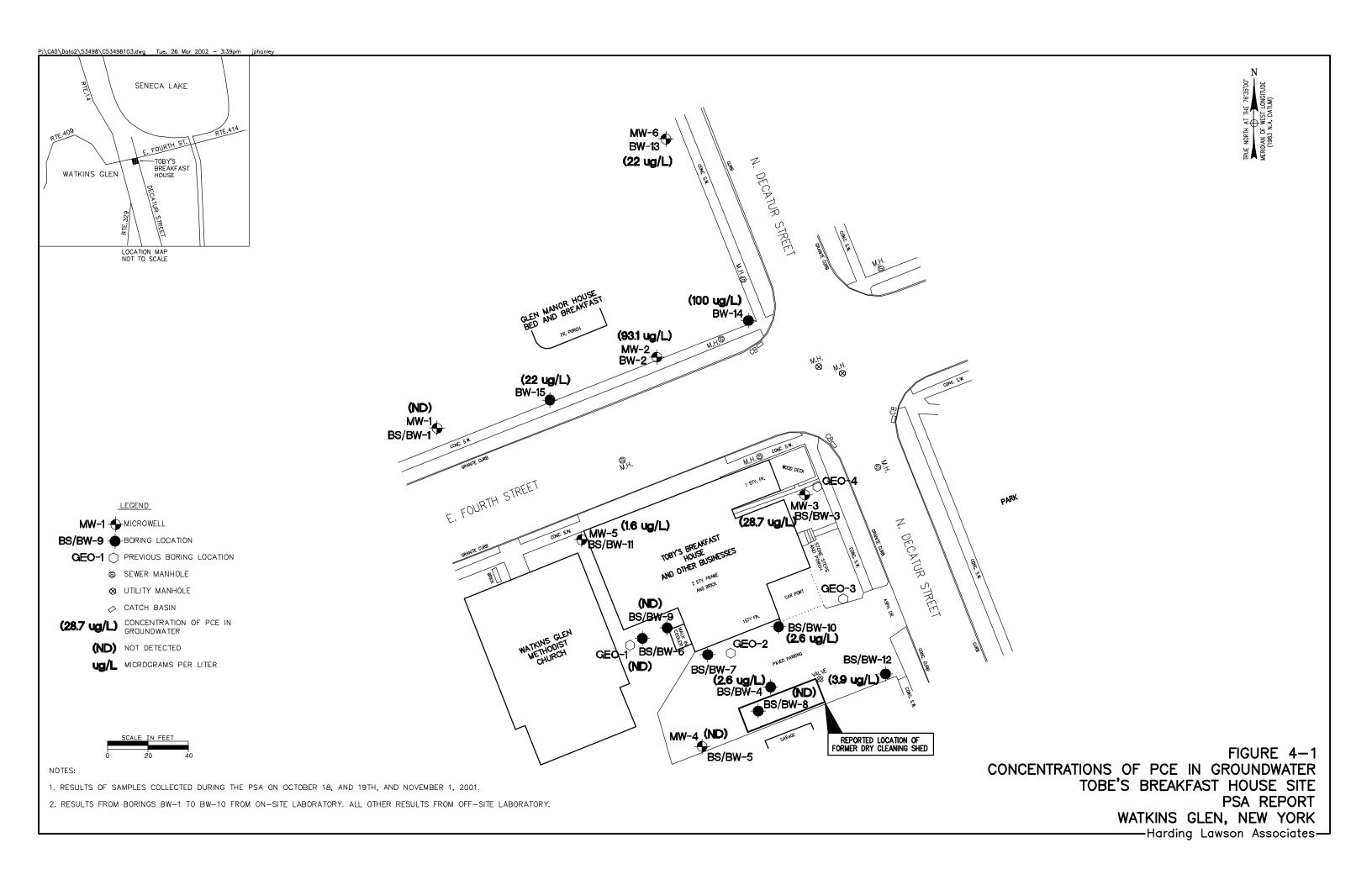
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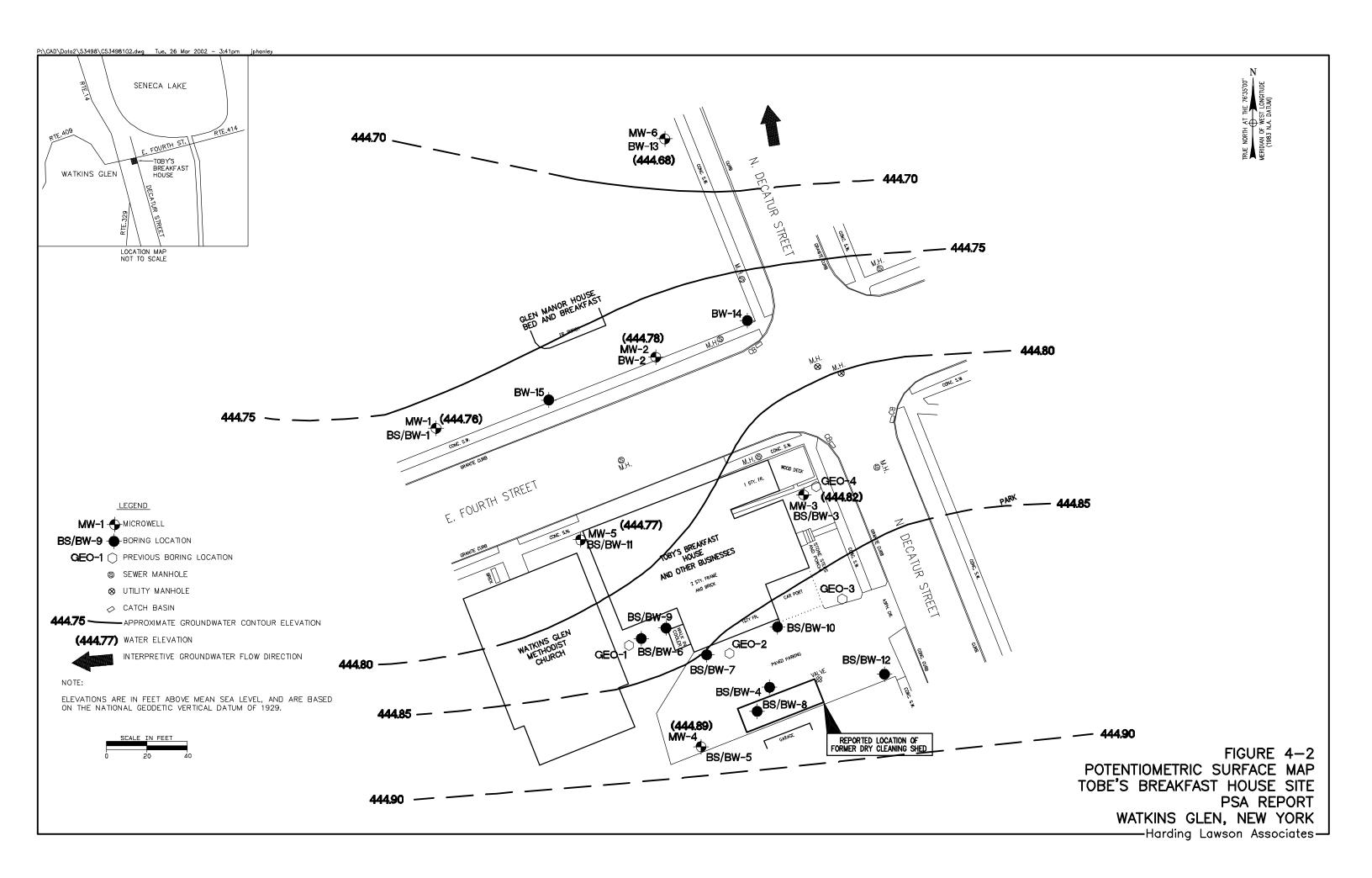
FIGURES











TABLES

TABLE 4-1 GEOPROBE SOIL SAMPLING RESULTS PSA REPORT TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NEW YORK

Location		BS-001	BS-003	BS-004	BS-005	BS-006	
Sample ID		TBBS00101401FX	TBBS00301401FX	TBBS00401401FX	TBBS00501401FX	TBBS00600501FX	
Sample Date		10/18/01	10/18/01	10/18/01	10/19/01	10/19/01	
Depth (ft bgs)		14-15	14-15	14-15	14-15	5-6	
Lab		ON	ON	ON	ON	ON	
	Soil Cleanup						
Parameter	Objective ¹	Result (µg/Kg)	QF				
Tetrachloroethene	1400			379		325	J
Toluene	1500						
Xylene	1200						
C3 subst_Benzene	NA						

NOTES:

1 = from Technical Administrative Guidance Memorandum 94-4046, "Determination of Soil Cleanup

Objectives and Cleanup Levels" (NYSDEC, 1994). Values in µg/Kg.

dup = duplicate sample

ft bgs = feet below ground surface.

Lab = ON =BUCK on-site field laboratory, OFF = H2M off-site laboratory.

Result = only detected compounds are shown.

µg/Kg micrograms per kilogram
QF = laboratory qualifier

J Qualifier = indicates that the compound was analyzed for and determined to be present in the sample.

The mass spectrum of the compound meets the identification criteria of the method.

The concentration listed is an estimated value.

TABLE 4-1 GEOPROBE SOIL SAMPLING RESULTS PSA REPORT TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NEW YORK

Location		BS-006 (Dup)		BS-007	BS-008	BS-009	BS-009	
Sample ID		TBBS00600501FD		TBBS00701501FX	TBBS00801101FX	TBBS00901301FX	TBBS00901301XX	
Sample Date		10/19/01		10/19/01	10/19/01	10/19/01	10/19/01	
Depth (ft bgs)		5-6		15-16	11-12	13-14	13-14	
Lab		ON		ON	ON	ON	OFF	
	Soil Cleanup							
Parameter	Objective ¹	Result (µg/Kg)	QF	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	QF
Tetrachloroethene	1400	629	J				28	T
Toluene	1500						6	J
Xylene	1200						4	J
C3 subst_Benzene	NA							

NOTES:

1 = from Technical Administrative Guidance Memorandum 94-4046, "Determination of Soil Cleanup

Objectives and Cleanup Levels" (NYSDEC, 1994). Values in µg/Kg.

dup = duplicate sample

ft bgs = feet below ground surface.

Lab = ON =BUCK on-site field laboratory, OFF = H2M off-site laboratory.

Result = only detected compounds are shown.

µg/Kg micrograms per kilogram
QF = laboratory qualifier

J Qualifier = indicates that the compound was analyzed for and determined to be present in the sample.

The mass spectrum of the compound meets the identification criteria of the method.

The concentration listed is an estimated value.

TABLE 4-1 GEOPROBE SOIL SAMPLING RESULTS PSA REPORT TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NEW YORK

Location		BS-009 (Dup)		BS-010	BS-011		BS-012	
Sample ID		TBBS01501501FX		TBBS01000201FX	TBBS01101201XX		TBBS01200301XX	
Sample Date		10/19/01		10/19/01	11/01/01		11/01/01	
Depth (ft bgs)		13-14		2-3	12-13		3-4	
Lab		OFF		ON	OFF		OFF	
	Soil Cleanup							
Parameter	Objective ¹	Result (µg/Kg)	QF	Result (µg/Kg)	Result (µg/Kg)	QF	Result (µg/Kg)	QF
Tetrachloroethene	1400	22		410	2	J	7	J
Toluene	1500						75	
Xylene	1200	5	J					
C3 subst_Benzene	NA	6	J					

NOTES:

1 = from Technical Administrative Guidance Memorandum 94-4046, "Determination of Soil Cleanup

Objectives and Cleanup Levels" (NYSDEC, 1994). Values in µg/Kg.

dup = duplicate sample

ft bgs = feet below ground surface.

Lab = ON =BUCK on-site field laboratory, OFF = H2M off-site laboratory.

Result = only detected compounds are shown.

μg/Kg micrograms per kilogram
QF = laboratory qualifier

J Qualifier = indicates that the compound was analyzed for and determined to be present in the sample.

The mass spectrum of the compound meets the identification criteria of the method.

The concentration listed is an estimated value.

TOBE'S BREAKFAST HOUSE SIT WATKINS GLEN, NEW YORK

Location			BW-001		BW-001		BW-001 (dup)		BW-002		BW-002		BW-002	
Sample ID			TBBW00101601FX		TBBW00102401FX		TBBW00102401FD		TBBW00201801FX		TBBW00201801XX		TBBW00202601FX	
Sample Date			10/18/01		10/18/01		10/18/01		10/18/01		10/18/01		10/18/01	
Depth (ft bgs)			16		24		24		18		18		26	
Lab			ON		ON		ON		ON		OFF		ON	
Parameter	TOG 1.1.1	CR	Result (µg/L)	QF										
Tetrachloroethene	5	S							93.1		100		35.3	
Toluene	5	S												
m,p-Xylene	5	S												
o-Xylene	5	S												
Xylene (total)														
Carbon disulfide	NA													
2-Butanone	50	G												

NOTES:

ft bgs = feet below ground surface.

Lab = ON = BUCK on-site field laboratory, OFF = H2M off-site laboratory.

TOG 1.1.1 = values from Technical and Operational Guidance Series (TOG) 1.1.1, "Ambient Water Quality Standards

and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998). Values in µg/L.

CR = criteria: S = New York State Standard; G = New York State Guidance.

Result = only detected compounds are shown.

μg/L = micrograms per liter

QF = qualifier

93 = values in bold exc

values in bold exceed the state standards or guidance values.

The mass spectrum of the compound meets the identification criteria of the method. The concentration

listed is an estimated value.

WATKINS GLEN, NEW YORK

Location			BW-003		BW-003		BW-003		BW-004		BW-004		BW-004	
Sample ID			TBBW00301701FX		TBBW00301701XX		TBBW00302601FX		TBBW00401601FX		TBBW00401601XX		TBBW01501501XX	
Sample Date			10/18/01		10/18/01		10/18/01		10/18/01		10/18/01		10/18/01	
Depth (ft bgs)			17		17		26		16		16		16	
Lab			ON		OFF		ON		ON		OFF		OFF (Duplicate)	
Parameter	TOG 1.1.1	CR	Result (µg/L)	QF	Result (µg/L)	QF								
Tetrachloroethene	5	S	28.7		40	J	8.5		2.6		2.3		2.3	
Toluene	5	S												
m,p-Xylene	5	S												
o-Xylene	5	S												
Xylene (total)														
Carbon disulfide	NA													
2-Butanone	50	G												

NOTES:

ft bgs = feet below ground surface.

Lab = ON = BUCK on-site field laboratory, OFF = H2M off-site laboratory.

TOG 1.1.1 = values from Technical and Operational Guidance Series (TOG) 1.1.1, "Ambient Water Quality Standards

and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998). Values in µg/L.

CR = criteria: S = New York State Standard; G = New York State Guidance.

Result = only detected compounds are shown.

μg/L = micrograms per liter

QF = qualifier

93

values in bold exceed the state standards or guidance values.

= The mass spectrum of the compound meets the identification criteria of the method. The concentration

listed is an estimated value.

WATKINS GLEN, NEW YORK

Location			BW-004		BW-005		BW-005		BW-006		BW-006 (Dup)		BW-006	
Sample ID			TBBW00402601FX		TBBW00501801FX		TBBW00502601FX		TBBW00602101FX		TBBW00602101FD		TBBW00602101XX	
Sample Date			10/18/01		10/19/01		10/19/01		10/19/01		10/19/01		10/19/01	
Depth (ft bgs)			26		18		26		21		21		21	
Lab			ON		OFF									
Parameter	TOG 1.1.1	CR	Result (µg/L)	QF										
Tetrachloroethene	5	S	1.0											
Toluene	5	S							1.5		1.5		1.2	
m,p-Xylene	5	S							3.1		2.8			
o-Xylene	5	S							2.0		1.8			
Xylene (total)													3.4	
Carbon disulfide	NA													
2-Butanone	50	G												

NOTES:

ft bgs = feet below ground surface.

Lab = ON = BUCK on-site field laboratory, OFF = H2M off-site laboratory.

TOG 1.1.1 = values from Technical and Operational Guidance Series (TOG) 1.1.1, "Ambient Water Quality Standards

and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998). Values in µg/L.

CR = criteria: S = New York State Standard; G = New York State Guidance.

Result = only detected compounds are shown.

μg/L = micrograms per liter

QF = qualifier

93 = values in bold exceed the state standards or guidance values.

= The mass spectrum of the compound meets the identification criteria of the method. The concentration

listed is an estimated value.

WATKINS GLEN, NEW YORK

Location			BW-007		BW-008		BW-008		BW-009		BW-010		BW-010	
Sample ID			TBBW00702301FX		TBBW00801701FX		TBBW00802601FX		TBBW00902201FX		TBBW01001701FX		TBBW01002601FX	
Sample Date			10/19/01		10/19/01		10/19/01		10/19/01		10/19/01		10/19/01	
Depth (ft bgs)			23		17		26		22		17		26	
Lab			ON		ON		ON		ON		ON		ON	
Parameter	TOG 1.1.1	CR	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF Q	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF
Tetrachloroethene	5	S									2.6			
Toluene	5	S												
m,p-Xylene	5	S												
o-Xylene	5	S												
Xylene (total)														
Carbon disulfide	NA													
2-Butanone	50	G												

NOTES:

ft bgs = feet below ground surface.

Lab = ON = BUCK on-site field laboratory, OFF = H2M off-site laboratory.

TOG 1.1.1 = values from Technical and Operational Guidance Series (TOG) 1.1.1, "Ambient Water Quality Standards

and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998). Values in $\mu g/L$.

CR = criteria: S = New York State Standard; G = New York State Guidance.

Result = only detected compounds are shown.

μg/L = micrograms per liter

QF = qualifier

93 = values in bold exceed the state standards or guidance values.

The mass spectrum of the compound meets the identification criteria of the method. The concentration $\frac{1}{2}$

listed is an estimated value.

WATKINS GLEN, NEW YORK

Location			BW-011		BW-012		BW-013		BW-013 (dup)		BW-014		BW-015	
Sample ID			TBBW01101501XX		TBBW01201601XX		TBBW01301601FX		TBBW02001601FX		TBBW01401601FX		TBBW01501701FX	(
Sample Date			11/01/01		11/01/01		11/01/01		11/01/01		11/01/01		11/01/01	
Depth (ft bgs)			15-17		16-18		16-18		16-18		16-18		17-19	
Lab			OFF											
Parameter	TOG 1.1.1	CR	Result (µg/L)	QF										
Tetrachloroethene	5	S	1.6		3.9	J	22		20		100	J	22	2
Toluene	5	S												
m,p-Xylene	5	S												
o-Xylene	5	S												
Xylene (total)														
Carbon disulfide	NA		0.6	J										
2-Butanone	50	G	2.0	J										

NOTES:

ft bgs = feet below ground surface.

Lab = ON = BUCK on-site field laboratory, OFF = H2M off-site laboratory.

TOG 1.1.1 = values from Technical and Operational Guidance Series (TOG) 1.1.1, "Ambient Water Quality Standards

and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998). Values in μg/L.

CR = criteria: S = New York State Standard; G = New York State Guidance.

Result = only detected compounds are shown.

μg/L = micrograms per liter

QF = qualifier

93 = values in bold exceed the state standards or guidance values.

The mass spectrum of the compound meets the identification criteria of the method. The concentration

listed is an estimated value.

TABLE 4-3 GROUNDWATER WELL SURVEY AND WATER ELEVATION DATA PSA REPORT

TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NEW YORK

Well ID	Top of Riser Elevation ¹	Depth to Water ² (Feet)	Groundwater Elevation ¹
MW-1	458.86	14.1	444.76
MW-2	458.47	13.69	444.78
MW-3	459.71	14.89	444.82
MW-4	460.61	15.72	444.89
MW-5	459.26	14.49	444.77
MW-6	457.19	12.51	444.68

Notes:

- 1. Elevations are in feet above mean sea level and are based on the National Geodetic Vertical Datum of 1929.
- 2. Depth to water measured in feet below top of riser on 10/31/01.

TABLE 4-4 AIR SAMPLE RESULTS PSA REPORT TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NEW YORK

	Reference Guidance	Results
Compound	Ambiant Air Risk Based Concentration (1)	TOBEAIR001XX01
	(ug/m³)	(ppbv / ug/m³)
Freon 12	180	0.72 / 3.6
Benzene	0.22	0.72 / 2.3
Toluene	420	1.9 / 7.3
Tetrachloroethene ²	3.1	3.6 / 25
m.p-Xylene	7300	0.97 / 4.3
Acetone	370	6.5 / 16
Ethanol	not listed	75 / 140

Notes:

1	_	United States Environmental Protection Agency
ı	_	United States Environmental Protection Agency,
		Region III Risk-Based Concentration Table,
		October, 2000
2	=	the NYSDOH recommends that the average air levels
		in a residential community not exceed 100 μg/m ³ .
ppbv	=	parts per billion per volume
ug/m^3	=	micrograms per cubic meter
3.6/25	=	shaded concentrations exceed the risk based
		guidance value

APPENDIX A SITE PHOTOGRAPHS

APPENDIX A SITE PHOTOGRAPHS TOBE'S BREAKFAST HOUSE SITE

NORTH





APPENDIX A SITE PHOTOGRAPHS TOBE'S BREAKFAST HOUSE SITE



Looking east to northeast (Left to Right) from North Decatur Street towards Site.

APPENDIX A

SITE PHOTOGRAPHS

TOBE'S BREAKFAST HOUSE SITE



Looking north at Site



Looking southeast at Site

APPENDIX B

NYSDEC SITE INVESTIGATION INFORMATION FORM



SITE INVESTIGATION INFORMATION

1. SITE NAME		2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY							
Tobe's Breakfast Hou	ise Site	8-49-003	Watkins Glen	Schuvler County							
5. REGION	6. CLASSIFICATION										
8		CURRENT [] P	ROPOSED [X] MODIFICATION								
7. LOCATION OF SITE (Attach	n U.S.G.S. Topographic Map sl	nowing site location)									
a. Quadrangle: UGS 7.5 Min	nute Quad Burdett, NY b.	Site Latitude _42_° _22_'_	51.6_" Site Longitude _76_° _52_' _19.2_"								
c. Tax Map Number(s) 65.54	l-1-36 d	. Site Street Address 129-135	East 4th Street								
8. BRIEFLY DESCRIBE THE SIT	ΓΕ (Attach site map showing o	disposal/sampling locations)									
The site is located in a residential-commercial area. The property consists of a parking lot, a small grassy yard and a large building that contains a restaurant, a retail space, and two apartments. Part of the site was reportedly occupied by a dry cleaning operation from 1950 until the late 1970's. Tetrachloroethene (PCE) was detected in groundwater samples collected at the site in 1999 using a Geoprobe for a limited Phase II Environmental Site Assessment (ESA) at concentrations up to 530 parts per billion (ppb). Additional soil, water and air samples were collected at the site in October 2001 during a Preliminary Site Assessment (PSA). The site is approximately three blocks from the North Franklin Street inactive hazardous waste disposal site (also impacted by a dry cleaning operation) currently being remediated. Seneca Lake, a source of public water supply for the Village of Watkins Glen is located ¼ mile to the north of the site. The groundwater flow direction is north toward Seneca Lake.											
a. Area: 0.34 acres b. Com	pleted: () Env. Property Asses	ssment (X)PSA ()SI ()I	ESI () IRM () RI/FS () Construction () O&M () Other							
9. HAZARDOUS WASTE DISPO	SED (Include EPA Hazardous \	Waste Numbers)									
Tetrachloroethene (a.k.a. Per	rchloroethylene or PCE) - U210										
10. ANALYTICAL DATA AVAIL	ABLE										
a. (X) Air (X) Groundwayb. Contravention of Standa	` ') Sediment (X) Soil ()	Waste () Leachate () EPTox () TCLP								
Maximum concentrations dete											
Year Contaminant 1999 Tetrachloroethene		oncentration NYS Groundw 530 ppb 5 ppb	vater and Drinking Water Standard USEPA Region I	III Risk-Based Concentrations (RBC)							
2001 Tetrachloroethene	3	100 ppb 5 ppb									
2001 Tetrachloroethene	air	25 ug/m³		3.1 ug/m³							
2001 Benzene2001 Tetrachloroethene	air soil	2.3 ug/m³ 629 μg/Kg		0.22 ug/m³							
11. CONCLUSION	3011	027 μg/ κg									
	cleaning operation until 1970's	s The Phase II FSA conducted	in 1999 as part of a real estate transaction resulted	in detections of PCF at 530 nnh in							
	groundwater, and air quality s	amples were collected during	a PSA in 2001. Analytical sample results from the								
a. Institutional Controls (IC) Re	equired? () Y (X) N, not at th	is time b. If yes, identify	c. Are these ICs in place and verified?	? ()Y ()N							
12. SITE IMPACT DATA											
a. Nearest Surface Water: Di	stance <u>1200 ft.</u>	Direction North	ClassAA/B								
b. Groundwater: De	pth <u>15 ft.</u>	Flow Direction North	() Sole Source (X) Primary	() Other High-Yield Aquifer							
c. Water Supply: Distance app	prox. 2500 ft. (surface)	Direction North	Active (X) Yes () No								
d. Nearest Building: Dis	tance <u>0 ft.</u>	Direction (on-site)	Use <u>Business/residential</u>								
e. Documented fish or wildlife		()Y (X)N	h. Exposed hazardous waste?	() Y (X) N							
f. Impact on special status fish	h or wildlife resource?	()Y (X)N	i. If proposed Classification is 2, Priority?	()1()2()3							
g. Controlled Site Access?		()Y (X)N	j. EPA ID#	HRS Score							
13. SITE OWNER'S NAME		14. ADDRESS	Albert Olera New Verl & 1994	15. TELEPHONE NUMBER							
Gerald Tobey		81 Salt Point Road, Wat	tkins Glen, New York14891	(607) 535-2750							
16. PREPARER			17. APPROVED								
Signature	Date		Signature Date								
Name, Tit	tle, Organization		Name, Title, Organization								

APPENDIX C

USEPA SITE INSPECTION QUESTIONNAIRE SITE INFORMATION FORM

PART I: SITE INFORMATION

1. Site Name/Alias Tobe's Breakfast House Site							
Street Address 129-135 East 4th Street							
City Watkins Glen	State New York		Zip Code 14891				
Describe Site Boundaries (North, South, East, West) The Site is located in the north-central section of Watkins Glen in Schuyler County, NY. The Site is located on the south side of East 4th Street and on the west side of Decatur Street. Private Residences bound the property to the south, and a Methodist church is located to the west. A small park is located east of the Site, across Decatur Street and the Glen Manor House B&B is located across East 4th Street to the north. A laundromat, formerly a dry cleaner, is located across the strett 230 ft. from the Site along the north side of East 4th Street. The site has a Latitude of 42° 22' 51.6" and a Longitude of 76° 52' 19.2". The Tax Map Number is 65.54-1-36. The property consists of a parking lot, a small grassy yard and a large building that contains a restaurant, a retail space, and two apartments. A portion of the site was reportedly occupied by a dry cleaning operation during the 1950's until the late 1970's.							
2. County Schuyler County	County Code (Federal ID #)	156000466W	Congressional District #31				
3. CERCLIS ID No. Not Applicable		Region 8					
4. Block No. 65.54-1		Lot No. 36					
5. Latitude 42° 22' 51.6"	_	Longitude 76° 52' 19.	2".				
USGS Quad.USGS 7.5 Minute Quad Burdett, N.Y.							
6. Approximate size of site0.34_acre							
7. Owner Gerald F. Tobey Telephone Number (607) 535-2750							
Street 81 Salt Point Road							
City Watkins Glen	State New York		Zip Code 14891				
8. Operator Jerry Peters	<u>-</u>	Telephone Number	(607) 535-4512				
Street 135 East 4th Street							
City Watkins Glen	State New York		Zip Code 14891				
9. Type of Ownership							
Private (X) Federal () Unknown () Other	State ()	County ()	Municipal ()				
10. Owner/Operator Notification on File							
RCRA 3001 Date	CERCLA 103c Date		NYSDEC Date 08-27-2001 Intent to Investigate Notification				
Other Property purchased June 1991		None ()	Unknown ()				
11. Permit Information							
Permit	Permit No.	Date Issued	Expiration Date				
Comments: The property was reportedly occupied by a dry cleaning operation from the 1950's until the late 1970's.							
12. Site Status Active (X)	Inactive ()		Unknown ()				

- 13. Years of Operation Approximately 25 years (Dry cleaning operation) from the early 1950's until the late 1970's.
- 14. Identify the types of waste sources on site (e.g., landfill, surface impoundment, piles, stained soil, above or below ground tanks or containers, land treatment, etc.). Initiate as many waste unit numbers as needed to identify all waste sources on site.
 - (a) Waste Sources

Waste Unit No.	Waste Source Type	Facility Name for Unit	
1. 2.	Contaminated soil		

(b) Other Areas of Concern

Identify any miscellaneous spills, dumping, etc. on site; describe the materials and identify their locations on site.

No reported releases, but cleaner-related chemicals were reportedly stored in a shed located at the southern edge of the property. Low concentrations (less than 629 µg/Kg) of tetrachloroethene (PCE) were detected in site soils.

15. Describe the regulatory history of the site, including the scope and objectives of any previous response actions, investigations and litigation by State, Local and Federal agencies (indicate type, affiliation, date of investigations).

No prior regulatory history for the site known.

1) Is the site or any waste source subject to Petroleum Exclusion? Identify petroleum products and by products that justify this decision.

No.

2) Are pesticides produced and stored on site? Does the facility apply pesticides (FIFRA or Federal Insecticide, Fungicide, and Rodenticide Act) to any part of the property?

No

3) Is the site or any waste source subject to RCRA Subtitle C (briefly explain)?

No

4) Is the site or any waste source maintained under the authority of the Nuclear Regulatory Commission (NRC) ?

16. Information available from:

Contact: Agency: Telephone Number:

Preparer: Charles R. Staples Agency/Company: Harding Lawson Associates

Date: 21 March 2002 Telephone Number: (207) 775-5401

PART II: WASTE SOURCE INFORMATION

	For each of the	waste units	(sources)	identified in Part I	, complete the following items
--	-----------------	-------------	-----------	----------------------	--------------------------------

waste offit (#) 1 -	
Source Type	
Constituent	Wastestream
Landfill	_X_Contaminated Soil
Surface Impoundment	Pile (Specify type: chemical, junk,
(buried/backfilled)	trash, tailings, etc.)
Drums	Land Treatment
Tanks/Containers	Other (Specify)

Description:

Wasta Unit (#) 1 -

1. Describe the types of containers, impoundments or other storage systems (i.e. concrete lined surface impoundment) and any labels that may be present.

Dry cleaner chemicals may have been stored on a concrete pad in a shed in the parking lot to the south of the site building. Low concentrations (less than 629 µg/Kg) of tetrachloroethene (PCE) were detected in site soils south of the site building.

- 2. Describe the physical condition of the containers or storage systems (i.e. rusted and/or bulging metal drums). Unknown. No current waste storage on site.
- 3. Describe any secondary containment that may be present (e.g. drums on concrete pad in building or above ground tank surrounded by berm).

Hazardous Waste Quantity - for each source, evaluate waste quantity by as many tiers (a-d) as you have information to support. Not applicable

Hazardous Substances/Physical State

NA

PART III: SAMPLING RESULTS

EXISTING ANALYTICAL DATA

Prior to the Preliminary site Assessment (PSA), the Site came to the attention of the NYSDEC in September 1999 after Tetrachloroethene (PCE) was detected in groundwater samples collected from the property during an investigation for the sale of the property. The following investigations have since occurred: a file review of the Site was completed in April 2001; a geophysical survey of the Site was completed in October 2001; 11 direct push soil samples were collected above the water table in October & November 2001; 22 groundwater samples were collected at 15 locations in October & November 2001; Six microwells were installed in October & November 2001 to measure groundwater table elevations; An air sample was collected from inside the first floor of the Site building in October 2001; A land survey of the Site was completed in November 2001.

Reference: Harding Lawson Associates, 2002

The analytical results for the soil, air, and groundwater samples had the following results.

<u>The soil sample analytical results</u> were compared to the Recommended Soil Cleanup Objectives in the NYSDEC TAGM No. 94-4046. Of the nine soil samples collected no VOCs were detected above the NYSDEC Soil Cleanup Objectives of 1400 ug/Kg.

However, PCE was detected in soil borings: BS-4 (379 ug/Kg), BS-6 (325 J ug/Kg), duplicate BS-6 (629 J ug/Kg), and BS-10 (410ug/Kg). In addition, trace concentrations were detected significantly below soil cleanup goals for toluene, xylene and benzene.

<u>The groundwater sample analytical results</u> were compared to the NYS Class GA Groundwater Quality Standards from 6 NYCRR Parts 700-706 and where applicable the NYS Class GA Groundwater Quality Guidance Values from the Division of Water Technical and Operational Guidance Series 1.1.1 "Ambient Water Quality Standards and Guidance Values".

PCE was detected in groundwater samples collected from 9 of the 15 borings. Samples collected from five borings, BW-2, BW-3, BW-13, BW-14, and BW-15 exceeded the NYS Class GA groundwater standard of 5 ug/L with a range of results from 28.7 μ g/L to 100 μ g/L. Other VOCs, toluene, m,p,-xylene and o-xylene, were detected but the NYS Class GA groundwater standard of 5 μ g/L was not exceeded. Also carbon disulfide and 2-butanone were detected but the NYS Class GA groundwater standards for these parameters have not been promulgated.

The indoor air sample analytical results were compared to the NYSDOH guidelines for PCE and to USEPA Region III Risk-Based Concentrations (RBC). Two compounds were detected above the RBC thresholds for PCE and benzene. PCE was detected at 25 ug/m³ and the RBC for PCE is 3.1 ug/m³. Benzene was detected at 2.3 ug/m³ compared to the RBC of 0.22 ug/m³. The other VOCs detected in the air sample were freon, acetone, toluene, and m,p-xylene which had concentrations less than the USEPA Region III RBCs.

SITE INSPECTION RESULTS

Based on the samples collected, relative PCE concentrations in groundwater, soils and air suggest that the source area exists below the Site building. PCE product could have leaked through cracks in the concrete floor of the dry cleaning facility or been released to the ground surface, but there is no documentation of a release or spill.

Reference: Harding Lawson Associates, 2002

PART IV: HAZARD ASSESSMENT

GROUNDWATER ROUTE

1. The likelihood of a release of a contaminant to the groundwater is based on the detection of PCE in groundwater samples collected as part of the PSA. PCE was detected at concentrations exceeding the NYS Class GA groundwater standard of 5 ug/L in groundwater samples from five borings (BW-2, BW-3, BW-13, BW-14, and BW-15) located downgradient of the site. The rationale for attributing the PCE to the site is based on the earlier activity of the site, which was an operating dry cleaner for 25 years.

Reference: Harding Lawson Associates, 2002

2. The groundwater table gradient is relatively flat and appears to flow to the north toward Seneca Lake. Depth to water at the site is approximately 15 feet. Soils in the vicinity of the Site consist primarily of the Chenango gravelly silty loam (URS Consultants, Inc, 1993). Stratified sand and silty clay was observed at the site. Bedrock is expected to be greater than 25 feet below ground surface (bgs). Bedrock in the area consists primarily of Upper Devonian shale and siltstone (New York State Geological Survey, 1970).

Reference: Harding Lawson Associates, 2002

3. What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer(s) of concern?

No waste disposal activities were identified. However, the depth to groundwater at the Site is approximately 15 feet.

- 4. The permeability value of the least permeable continuous intervening stratum between the ground surface and the top of the aquifer of concern is unknown
- 5. What is the net precipitation at the site (inches)?

The average annual precipitation is 32 inches and the average annual snowfall is 90 inches (National Climatic Data Center, 1999 for Rochester, NY).

6. What is the distance to and depth of the nearest well that is currently used for drinking purposes? Not Applicable.

The residents of the Village of Watkins Glen use the municipal water supply furnished by Watkins Glen Water Department. The Water Department uses Seneca Lake as the surface water source for the public water. According the town water department there are no private wells being used for drinking water in the Village.

7. If a release to groundwater is observed or suspected, determine the number of people that obtain drinking water from wells that are documented or suspected to be actually contaminated by hazardous substance(s) attributed to an observed release from the site.

It is unknown whether private wells are in use. According the town water department there are no private wells being used for drinking water in the Village.

8. Identify the population served by wells (private + municipal) located within 4 miles of the site that draw from the aquifer(s) of concern.

The Watkins Glen Water Department uses the surface water from Seneca Lake as the source of water for the municipal needs. The Lake is approximately 0.25 mile from the Tobe Breakfast House Site. The population of Watkins Glen is 2149 (2000 Census Bureau). It is unknown if additional private wells exist within four miles of the site.

a. State whether groundwater is blended with surface water, groundwater, or both before distribution.

The Watkins Glen Water Department uses the surface water from Seneca Lake as the source of water for the municipal needs.

b. Is a designated well head protection area within 4 miles of the site?

Not applicable.

c. Does a waste source overlie a designated or proposed wellhead protection area? If a release to groundwater is observed or suspected, does a designated or proposed wellhead protection area lie within the contaminant boundary of the release?

Not applicable.

9. Identify one of the following resource uses of groundwater within 4 miles of the site (i.e., commercial livestock watering, ingredient in commercial food preparation, supply for commercial aquaculture, supply for major, or designated water recreation area, excluding drinking water use, irrigation (5-acre minimum) of commercial food or commercial forage crops, unusable).

The URS Consultant, Inc. report (1993) suggested that groundwater might be used by private residences to wash cars or water flower gardens. But according to a Watkins Glen town official there are no private wells in use and there are no agricultural farms in the Village.

SURFACE WATER ROUTE

10. Describe the likelihood of a release of contaminant(s) to surface water as follows: release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence and relationship to background.

None. Based on concentrations of PCEvdetected in groundwater downgradient of the Site, it is unlikely that PCE contamination in groundwater will be released to surface water above detectable limits.

- 11. Identify the nearest down slope surface water. Include a description of possible surface drainage patterns from the site.

 Surface water at the site is expected to flow into storm sewer lines and eventually into Lake Seneca.
- 12. What is the distance to the nearest down slope surface water? Measure the distance along a course that runoff can be expected to follow.

It is approximately 0.25 mile from the Site to the Lake.

13. Identify all surface water body types within 15 downstream miles.

<u>Name</u>	Water Body Type	<u>Flow</u>	Saline/Fresh/Brackish
Seneca Lake	Lake	(40 miles long)	Fresh

14. Determine the 2 yr, 24 hr rainfall (inches) for the site?

2.6 inches

Reference: New York Guidelines for Urban Erosion and Sediment Control, 1997

15. Determine size of drainage area (Acres) for the sources at the site?

The site is 0.34 acres. The site is located in the Seneca Lake watershed. The size of the Seneca Lake water shed is 540 square miles or 345,600 acres. The area of Seneca Lake is 43,343 acres (URS Consultants, Inc, 1993).

16. Describe the predominant soil group in the drainage area?

Soils in the vicinity of the Site consist primarily of the Chenango gravelly silty loam. The Chenango consists of soils formed in alluvial deposits on floodplains and in very low areas adjacent to ponds and lakes. The soil is characterized as well drained on nearly level (0-3 %) slopes and formed on glacial outwash plains and stream terraces.

17. Determine the floodplain (1 yr., 10 yr., 100 yr., 500 yr., none) that the site is within.

The site is within the 100 year floodplain.

18. The Watkins Glen Water Department uses Seneca Lake for the municipality's drinking water demands. The intake valve for the Lake is located on Bath Street well. The intake is located is in Lake Seneca. The distance in miles from the point of surface water entry is less that 0.5 mile from the site. The population served by the Water Department is less than 3000 people. In 1996 the Water Treatment Plant (WTP) was constructed on West Hill on Steuben Street which is connected with the intake valve on Bath Street.

	WB	Distance		
<u>Intake</u>	<u>Type</u>	From PPE	Pop. Served	Flow (cfs)
Bath Street	Lake	0.5 mi	< 3000	NA

19. Identify fisheries that exist within 15 miles downstream of the point of surface water entry. For each fishery specify the information in the table. Seneca Lake provides habitat to a variety of fish, both warm and cool water species, and the lake

contains low to moderate levels of plant nutrients with good dissolved oxygen content (URS Consultants, Inc., 1993). There are numerous forage (alewife) and minnow species, which provide food for the predator species. Brown trout and Atlantic salmon are stocked in the lake.

		Distance		
<u>Fishery</u>	<u>WB</u>	From PPE	Flow (cfs)	Saline/Fresh/Brackish
Brown Trout	Lake Sened	a	NA	Fresh
Lake Trout	Lake Sened	a	NA	Fresh
Rainbow Trout	Lake Sened	a	NA	Fresh
Yellow Perch	Lake Seneca		NA	Fresh
Large Mouth Bass	Lake Sened	a	NA	Fresh
Small Mouth Bass	Lake Sened	a	NA	Fresh
Chain Pickerel	Lake Sened	a	NA	Fresh
Northern Pike	Lake Sened	a	NA	Fresh
Bull Head	Lake Sened	a	NA	Fresh
Sunfish	Lake Sened	a	NA	Fresh
Landlocked (Atlantic) Salmon	Lake Sened	a	NA	Fresh

20. Identify surface water sensitive environments that exist within 15 miles of the point of surface water entry.

A State Protected Wetland is located around the eastern portion of the village, known as Queen Catherine Marsh (or Bad Indian Swamp).

		Distant	e	vvelland
Environment	WB Type	from PPE	Flow (cfs)	Frontage (miles)
Catherine Creek	Canal	0.75 mi	unknown	0.25 mi

21. If a release to surface water is observed or suspected, identify any intakes, fisheries, and sensitive environments from question Nos. 18-20 that are or may be actually contaminated by hazardous substance(s) attributed to an observed release from the site.

Based on concentrations of PCE detected downgradient of the site, it is unlikely that a release to surface water would occur.

22. Identify whether the surface water is used for any of the following purposes, such as: irrigation (5 acre minimum) of commercial food or commercial forage crops, watering of commercial livestock, commercial food preparation, recreation, potential drinking water supply?

According to a representative of the Watkins Glen Water Department the surface water from Lake Seneca is the source of the village's water supply. The water intake is located on the western corner of Seneca Lake. A Water Treatment Plant services the surface water for drinking water. Both the Villages of Watkins Glen and Montour Falls have waste water treatment plants (WWTP) that discharge to Seneca Lake and Catherine Creek, respectively (URS Consultants, Inc. 1993). The Water Department representative claims that no private wells are used for drinking, farming or irrigation practices in the Village.

SOIL EXPOSURE PATHWAY

23. Determine the number of people that occupy residences or attend school or day care on or within 200 feet of an area of observed contamination.

The population of the Village is 2149. Tobe's Breakfast House Site is located in the north central portion of the Village. It is estimated that less than 20 people occupy residences within 200 feet of the site. There are no schools or day cares within 200 feet.

24. Determine the number of people that regularly work on or within 200 feet of an area of observed or suspected contamination.

It is estimated that less than 20 work on or within 200 feet of the site.

25. Identify terrestrial sensitive environments on or within 200 feet of an area of observed or suspected contamination.

No sensitive environmentas on or within 200 feet of the site.

26. Identify whether there are any of the following resource uses, such as commercial agriculture, silviculture, livestock production or grazing within an observed or suspected contamination boundary?

None.

AIR ROUTE

27. Describe the likelihood of release of contaminants to air as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release define the supporting analytical evidence and relationship to background.

Seven VOCs were detected in the air sample. Benzene (2.3 micrograms per cubic meter [μ g/m³]) and PCE (25 μ g/m³), were the only two compounds detected at concentrations above the USEPA Region III Risk-Based Concentrations (RBC) of 0.22 μ g/m³, and 3.1 μ g/m³, respectively. Freon 12 (0.72 μ g/m³), acetone (6.5 μ g/m³), toluene (1.9 μ g/m³), and m,p-xylene (0.97 μ g/m³), were detected at concentrations below the respective USEPA Region III RBC. Ethanol was detected at 75 μ g/m³; there is no USEPA Region III RBC for ethanol.

Although detected air concentrations of PCE exceeded the USEPA Region III RBC, they were below the NYSDOH guidance action level for PCE of 100 μ g/m³.

The air sample was collected from the ground floor while the building windows were closed and the steam heating system was running. No air sample was collected from the basement, where there is an open floor drain leading to an underlying gravel bed.

28. Determine populations that reside within 4 miles of the site.

<u>Distance</u>	<u>Population</u>
0 (on-site)	2 rentors
0 - 1/4 mi	< 1000
>3 - 4 mi	< 2200

29. Identify sensitive environments and wetlands acreage (wetland acreage only for wetlands sensitive environment) within 4 miles of the site.

	Type of Sensitive	Actual Distance	Wetland
<u>Distance</u>	Environment	from site (miles)	<u>Acreage</u>
0 (on-site) 0-1/4 mi. >1/4-1/2 mi.			
>1/2-1 mi.	Queen Catherine Marsh (aka: Bad Indian Swamp)	0.75	unknown
>1-2 mi.			
>2-3 mi.			
>3-4 mi.			

30. If a release to air is observed or suspected, determine the number of people that reside or are suspected to reside within the area of air contamination (might be actual contamination) from the release.

There are two tenants (residence) of the building.

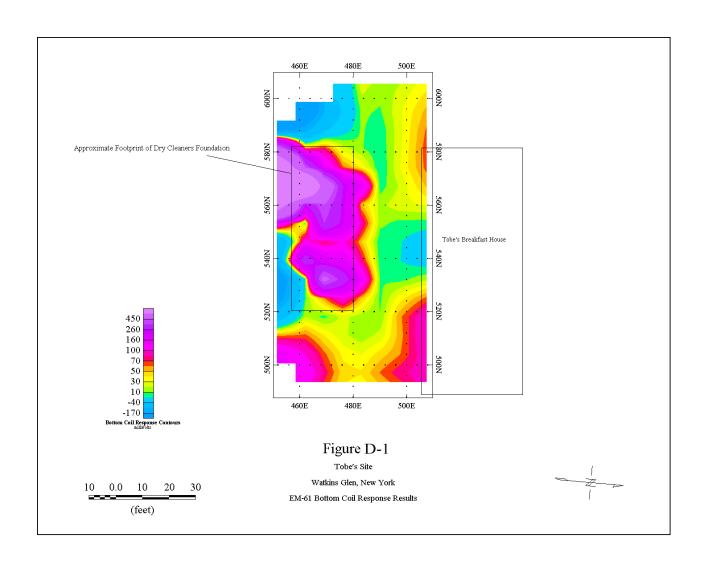
31. If a release to air is observed or suspected, identify any sensitive environments, listed in question No. 46, that are or may be located within the area of air contamination from the release.

The Village provides a poor habitat for most fauna species. The animals that thrive are gray squirrels, robins, mourning doves, pigeons and house sparrows. Within two miles of the site are five rare plant species reported by URS Consultants, Inc. (1993) in Queen Catherine Marsh and Watkins Glen State Park.

REFERENCES

- 1. Harding Lawson Associates, 2002; Final Preliminary Site Assessment Report, Tobes Breakfast House Site, Watkins Glen, New York; March 2002.
- 2. URS Consultants, Inc. 1993 Final Report, Remedial Investigation, N. Franklin Street Site, Watkins, Glen, NY, August, 1993.

APPENDIX D GEOPHYSICAL SURVEY FIGURES





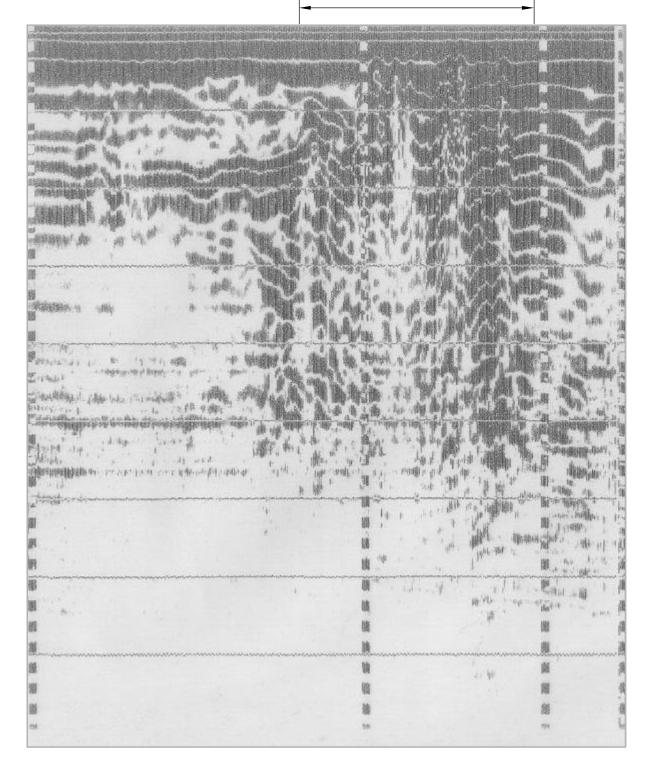


FIGURE D-2 GPR PROFILE REPORTED OVER OLD DRY CLEANER FOUNDATION TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NEW YORK

NOT TO SCALE

-Harding Lawson Associates-

APPENDIX E

FIELD DATA SHEETS

- **E.1** Test Boring Logs and Microwell Diagrams
- **E.2** Sample Records

APPENDIX E

E.1 Test Boring Logs and Microwell Diagrams

Projec (√)	t SDEC-	Ps	A-6		-				Boring/Well △ △ △ △	No. 1/MW-	001 F	roject I چنج 53	No. 18-2		
Client	YSDEC				Sit	e T	6ber			Sheet N		ì	_ of	i	************
Logge	d By	-			Gro	ounc	l Elevation	Star	t Date /0//8/0\		Finish	n Date			-
Drilling	Contract	or	14				Oriller's Name		// 6/101	Rig Ty	ре		, ,,	rhalis despuis de conjunction contra	***************************************
	Method Direct		ś			F	Protection Level		P.I.D. (eV)	Casing	Size	2	Auge	Size	**********
Soil D	rilled		Rock Dr	rilled	a anne ann ann ann ann ann ann ann ann a	1	otal Depth	Depth	to Groundwate	r/Date			Well	Borin	g
	6			%			(26 forwate)		15' 10	//8/01		Mo	nitoring	<u>니</u>	T
eet)	to. & tion/ (Feet)	lype	"9/s	3qd. 9	- î:	Log		1	1_	mpol	rilling	(pt	om)		1
Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or	Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log		ampl cript		USCS Group Symbol	Notes on Drilling	PI Meter Field Scan	PI Meter Head Space		
1	S1 6-4' Rec 2.9/40						0-2.4 Gray for gravel - dry - be 2.4-28 greenish how organic, how dry,	111		SP		ao			
	5.2 4.81 8.81 8.81						0-3.5 Granukso Course would and poorly sou deal, loc	grave	d, piece of cool,	SP -		00		-	
8 -									A. S. B.						
-	54 8-12' 8-12' 4.0/4.0				~ .		some gravel little sond, poorly since	e con	ned ships oblightly fire unic, dry	SN/		0.0			
ر م م الم	S			and the same of th				one out the 40 th on set	(miller) ay is store a dall of the place of the miller	¥'	Markovico-mina accordisabili em				
, =	12-16						0-3,0 × Jam a			\$n		0,0			
14 15	Rec 4.0/4.0				₩.		3.0-4.0 - Same More course si		saturates,	5°		0900	D17011		6
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9910003(e) L 33

OVERBURDEN	WELL CONSTRUCTION	I DIAGRAM
Project: 53778 NTIDEC Site Area	Toke's Shut Driller: J. Bowell	·
,	o: TSI - 001 Drilling Method: Pre	ret Push
1 10 000 1001	alled: 10/18/01 Development Method:	and production that the Carlot of Ca
Field Geologist: C. Stapler	alled. To prove	,
Fleid Geologist.		
Flush Mount		
	Elevation of Top of Surface Casing: Stick-up of Casing Above Ground Surfa	00: - Fluit Mount
	Elevation of Top of Riser Pipe:	1.
Ground	Type of Surface Seal:	Cement
Elevation	Type of Surface Casing:	anen
	~ -	
	ID of Surface Casing:	
		2"
	Diameter of Borehole:	
	Riser Pipe ID:	
	Type of Riser Pipe:	- PVC
	CAND + B- 1	L
	Type of Backfill: AND + Benk	an / C
	·	
	The state of Table 16 and	
	Elevation of Top of Seal: Depth of Top of Seal:	1,01
	Type of Seal:	Bentonite grander.
	Elevation of Top of Sand:	3.8
	Depth of Top of Sand: Elevation of Top of Screen:	12.41
	Depth of Top of Screen:	<u> </u>
		PVC
selent	Type of Screen:	0.0(x10'
Polypror	Slot Size x Length: ID of Screen:	111
Poly propeled screen	15 of Careany	-i-l-
screen =	Type of Sandpack:	#0
	Elevation of Bottom of Screen:	
	Depth of Bottom of Screen:	22.4
į į	Depth of Sediment Sump with Plug:	22.5
i L.		• • •
i j		
	Elevation of Bottom of Borehole:	
	Depth of Bottom of Borehole:	26.0'
		•
		FIGURE 4-5

FIGURE 4-5
OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

--Harding Lawson Associates-

MW-2

							TEST BO	RING	LOG								
Project NYSDEC - PSA-6						Boring/We ぽ3/ぴゃ					F	Project No. 53498-2					
Client NYS DE C						Site Tobes Breakful House					Sheet No of						
Logged By						oun	d Elevation	Date 10//9/01	Finish Date								
Drilling Contractor Geologic NY						Driller's Name J. Powell					Rig Type Geopphe						
Drilling Method Direct Push					,	\dashv	Protection Level	T	P.I.D. (eV)	Casing		150 828	Auger Size				
Soil Drilled Rock Drilled			d		Total Depth	to Groundwate											
	ACCURATE THE PARTY DESCRIPTION OF THE SAME	уре	9/s	dd. %	(;)	bo						Мо	onitoring		(3		
Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or	Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	. De	USCS Group Symbol	Notes on Drilling	PI Meter Field Scan	PI Meter Head Space		Lab Tests				
)	51 0-41 2.4/4.0						0-24 Dork SAND sader grantly SAND gradel/loosed	G.P		Q.0							
7 -					:												
5 —	\$2 \$4-8' Rec 3.0/4.0						0-2.6 Grayis med. SAND, 1.HI bobble, poorly ? 2.6-3.0 Green firson d, 1.HL	-GP -SP		0.0			grande 200 America (Internacional				
2 -							Mout post										
9 -	53 9-12' Be 4.0/4.0						of casing - sond-both	dry	gravely			0.0					
/1 -							-Too much d	ebas (fellingin		ang pakanakan kang kananan ka			and an other states of the sta			
12 -		Can't che hole -No more soil						somples									
14							1 <u>Z</u> 0 <u>D</u> -										
15								- 44 - :									
, so	COMMUNICATION CONTRACTOR OF STATEMENT AND CONTRACTOR OF ST		onno esi kasedonin selekise indenis susua	estatico que cue premer	III/043153460446015044015044040	AND PROPERTY.	it fanning gegen af fra sûn er de opprove genere gegen gegen fra fan fan fan fan fan fan fan fan fan fa		a og til af fillet a veri knyss inflirt fra til å na sen en til a knys och fill fillet fill fill at en en en s	azudenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenekomenek	annual agracia traversy graphs		salar adam digença de la Partida de Calaba		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		

OVERBURDEN ' **WELL CONSTRUCTION DIAGRAM** Site Area: Tober Breakfast Driller: I. Powell Project: NYSDEC-PSA-6 Boring No .: BS-002/MW2 Drilling Method: Direct Push Project No.: 53 498-2 10/18/01 Development Method: Date Installed: ___ C. Staples Field Geologist: Flush Mount Elevation of Top of Surface Casing: Stick-up of Casing Above Ground Surface: Flush Mount Elevation of Top of Riser Pipe: Coment Type of Surface Seal: Ground Alminum Type of Surface Casing: Elevation. ID of Surface Casing: Diameter of Borehole: Riser Pipe ID: Type of Riser Pipe: - Carein sand & gravel Type of Backfill: -Elevation of Top of Seal: Depth of Top of Seal: Type of Seal: Elevation of Top of Sand: -No sand-cared Depth of Top of Sand: Elevation of Top of Screen: 12.1 Depth of Top of Screen: Type of Screen: 0.01" X 10 Slot Size x Length: ID of Screen: Type of Sandpack: Elevation of Bottom of Screen: 22.1 Depth of Bottom of Screen: Depth of Sediment Sump with Plug: Elevation of Bottom of Borehole: 280 (6Wsomph) Depth of Bottom of Borehole:

FIGURE 4-5
OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

-Harding Lawson Associates-

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Project /	ct VYIDE(F	25A-6	ř	Boring/Well N					F	Project I		28-	>			
Client			Material recording any operation of the control of	Sit	Site Tobe's Breakfast House Sheet No. 1 of 1												
Logge	ed By			Gr	Ground Elevation Start Date					Finish Date							
C. STAPLES Drilling Contractor						Driller's Name											
Ge	10091C, 1				J. Bowell					Geoprobe							
Direct Posk Soil Drilled Rock Drilled					Protection Level P.I.D. (eV) 10.5 Total Depth Depth to Groundwate 28/www 14.9 10/18/01					Size	Auger Size						
											Well Borin		g				
	£	NO PERSONAL PROPERTY AND PROPER	%		and the same					6	Мо	nitorin	9				
eet) lo. & ion/ Feet		ype	vs/6"	- it	Log	Commis			mbol) rillin	(pr	pm)		\rfloor .			
Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description			USCS Group Symbol	Notes on Drilling	PI Meter Field Scan	PI Meter Head Space		Lab Tests			
	SI 0-41' Rec					0-05 Dar Some organic 0.5- Z.o Dark 1. Me graves 1.	sn		Ø. O								
2 - 2.4/4,0 3 -					goded demo 2.0-2.9. Derk poorly anded, I			J 57M									
" -	52 9-8 Rei 3.3/4.0					0-1.0- greenil Poosty gaded, la 10-33 grapisi som coare sar gaded, 100k,	sae, don Lhour No o grov	med-savo	SM SP	Account after each transmission and or	0.0	Companied Commission of Commis					
z — g —								no seneral de porte por escribo en contra de desenvola de desenvola de desenvola de desenvola de desenvola de de				CONTRACTOR	438	10			
7	53 8-12 7 0 14.0					Por gravel, Damp			SP		0.0		Application of the state of the				
	·																
12	34					Or4.0 Greeni.			sp		0.0						
12-16 14 Rec 15 4.0/4.0				de en	Accesses a man-	trace could prody graded, loose dry - salunded@ 15'				Gleet some U TBBS0030LY01Ft Q. 1455							
						ाण्याः	161			-	mesis eninggangsis dire ence	PERSON Several control of the contro	ecnipterio-o-recens-u-u-u-retainu	MARKAGA			
			and the second						Lland			A					

WELL CONSTRUCTION DIAGRAM OVERBURDEN Site Area: Tobes Breakfast Driller: J. Powell Project: NYSDEC - PSA-6 Boring No.: BS 003/ Mwoo3 Drilling Method: Direct Push Project No.: 53498-2 Date Installed: 10//6/01 Development Method: Stopks Field Geologist: __ Elevation of Top of Surface Casing: Stick-up of Casing Above Ground Surface:___ Elevation of Top of Riser Pipe: Type of Surface Seal: Ground Aluminum/plastic. Type of Surface Casing: Elevation. 411 ID of Surface Casing: Diameter of Borehole: Riser Pipe ID: Type of Riser Pipe: SAND Type of Backfill: -Elevation of Top of Seal: 1.01 Depth of Top of Seal: Graniular Bendonik Type of Seal: Elevation of Top of Sand: 4.01 Depth of Top of Sand: Elevation of Top of Screen: 12,3 Depth of Top of Screen: Type of Screen: 901° 36+ x Slot Size x Length: ID of Screen: #0 Type of Sandpack: Elevation of Bottom of Screen: 22,3 Depth of Bottom of Screen: 12.4 Depth of Sediment Sump with Plug: Elevation of Bottom of Borehole: 230 Depth of Bottom of Borehole:

FIGURE 4-5 OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM NYSDEC QUALITY ASSURANCE PROGRAM PLAN

		Solvenson and Sections	TEST BO	RING	entile pilotalikanonikinsetaatenessiin suuta		energia de percentido de cadridos.	ente oraș estuarea inc	Salas and Security	4420
Project VYSDEC	-PSA-6				Boring/Well BS/Biv-c		Project 53	ct No. <i>498</i>		
Client NYSDEC		Site	Tobej		•	Sheet No	o. I	of	1	-
Logged By		Grou	nd Elevation	Star	Date 10/18/0	,	Finish Dat	Name of the last o		
Drilling Contract	tor	<u> </u>	Driller's Name		7-770701	Rig Typ	e Geoprob	6701	- The state of th	
Drilling Method		10 + 14 + 15 + 15 + 15 + 15 + 15 + 15 + 15	Protection Level	zu	P.I.D. (eV)	Casing	Size	Auge	r Size	
Direct Soil Drilled	Rock Drilled	1 .	Total Depth	Depth	lo 6 to Groundwater	:/Date		ez Well	Borin	g
16,			281 (water)	150	5' 10/18/	01		Monitorin	THE PERSON NAMED IN	T
eet) lo. & lon/ Feet)	ype s/6"	- £	60-			loqu	rilling	(ppm)	9 	Y
Depth(Feet) Sample No. & Penetration/ Recovery (Feet)	Sample Type SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)		Sample escripti		USCS Group Symbol	Notes on Drilling PI Meter	Field Scan PI Meter Head Space		
- SI - 0-4'			0-0.6 - Paveno 0.6-1.5 Neda	en/Gero	re/ wase sMVD. Tan.	SP				
Per 2 _ 35/4.0			poorly graded of 1.5-3.5 Olive brown fire si	by : brown	tograyish	SA	00			
3 —			coarse sawy t	rou or	sames, poorly		0.0	2		
7 - 52 5 - 4.8' Rec 6 - 3.5/40			0-1,8 Dork. fire SAND, 1 hith, silty/son	slive bro	um silly a ded, modeled portymoles,	sm	0,0		4	
7 -			1.8-3.5 Oliv FAND some? poorly graded	avel 11	medy conse	Sp				
9-121 Rec			0-1,8 olive SAND, some of Poorly graded,	ravel, lit	The cobbb,	Sp	0.0	7		-
~ = 30/40 " = 3			1.8-2.4- Redi Moist plastic 2.4-30 Olive and fire grave	ity.	norte (Awn	Sip				-
124			graded, moist			-	0.	0		_
14 12-16' Rec			o-2.0 Olive and fire grav graded, moist		,	SP C	olled so	rph	3152	_
15 3.0/4.0	1300=16°		2.0-2.5 dar black + fan mo gadel, mout	beling, 1 high	oose, poorly	OL So	. @	1655		
9910003(e) L 33		PERCENTURA DE LA COMPANIA DE LA COMP	25-3.0 Olive Some gard lit	the fire	Coast C- 1	—Hardi ∡ Atv⊄Aì	ng Lawso	n Assoc	iates-	-

MW-4

				ILUG	ara Sakatan Inggan	i en a successi	and rail broke dismile	second to		
Project NYSDEC - PSA	-6			Boring/Well I		F	Project I	Vo. 498		
Client NYSDEC	7	Tober Break	Gast K		Sheet No)	1	of	2	
Logged By CR. STAPLES	Groun	d Elevation	Star	t Date 10/19/0 ;	F	-inisl	h Date	101		
Drilling Contractor		Driller's Name			Rig Type		erob	TO CONTROL OF THE CON	RANCH DEVENE AND STREET	***************************************
Drilling Method Direct Push		Protection Level	· · · · · · · · · · · · · · · · · · ·	P.I.D. (eV)	Casing S	Size	 	Auger	Size	
Soil Drilled Rock Drilled		Total Depth	Depth	to Groundwater	/Date		Piez	Well Der	Boring	9
							Мо	nitoring)	***************************************
et) 5. & on/ on/ reet reet ype qd. %	(t)	n			loge	ĵi ji	(bt	om)		s,
Sample No. & Penetration/ Recovery (Feet) Sample Type SPT Blows/6" or Or Core Rec./Rqd. %	(Blows/Ft.)	De	Sampl script		USCS Group Symbol	Notes on Drilling	PI Meter Field Scan	PI Meter Head Space		Lab Tests
51 0-4 1 _= Ree 3.0/4.0		0-1,3 Blacking and SAND Jame graded 1.3-4,0 Olivet Some selt, trace	gravel Inown Largan	fine SAND, ic, little	\$ P - & P		ao			
7		modling, poorl		,	-			and the state of t	ngg/sules/s decirebed of Multi-sta	
5-4-8'		poorly and of Dive so	iorgan ury me	d sand, some	sm - sego		00			
8		poorly goodel, 1 12-32 Silly for sill, slight bor in silly clay (of	oose Á	For.	sm	endor on at society	November (1888) and a second s		vernankie rausekia sause	
9		ond savelin to 0-3.5-Olive b. soud, little to. fire, poorly sa	own r	edtione	5P/ - GP		00			
n =						Z/241128-1-1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				
				2 Z,	Ž		awson /	Accos:	ates	

					TEST BO	RING	LOG						
Project	0.5	<i>i</i>					Boring/Well		F	Project I		AND HIS MANAGES	
<i>NYSDEC-</i> Client	13N.	` 6	Si	te		DP TO THE STATE OF	B5/B2 00	5/MW-4		534	<u>78</u>	Market	
NYSDEC		THE PERSON NAMED OF THE PE		**********	10/19/01-7			Sheet N	-	<u></u>	_ of	2	-
ogged By			Gr	oun	d Elevation	Start	Date // /9/0/		Finish	n Date 0/19/c	o/		
Drilling Contract			e transmissione de la communicación de la comm		Driller's Name		in marini na kina marini kana marini na	Rig Typ	o <u>e</u>				material designation of the second se
<i>Geologic</i> Orilling Method			/	\dashv	T. Powel Protection Level		P.I.D. (eV)		Sizo	uke	TAura	· Cino	******************************
Direct Pu	16	·			1 Totection Level		1 .1.D. (eV)	Casing 2	SIZE II		Auge	Size	hóra (irryskolsykusus
Soil Drilled 24'		Rock Drille	d		Total Depth 28 /www.	Depth	to Groundwate	r/Date		Piez	Well	Borin	g
					20 Juneto					Mo	nitorin	 a	
Depth(Feet) Sample No. & Penetration/ Recovery (Feet)	d/	SPT Blows/6" or Core Rec./Rqd. %) <u></u>	bo	n			loqu	Notes on Drilling		om)	Ĭ	S
h(Fe le Nc tratic	Sample Type	Slows or c./R	SPT-N (Blows/Ft.)	3raphic Log		Sample		USCS Group Symbol	n Dr		e e		Tests
Depth(Feet) sample No. 8 Penetration/	amp	PT E	SF (Blov	Grap	De	escripti	on	On Or	tes o	ter	ter Spa		Lab
S - S	0	S						ß	S.	PI Meter Field Scan	PI Meter Head Space		
- 54				T	0-2.5 - san	eas S	3				f sorp		Voc
12-16'					2.5-3.0 Brown	n and ol	ive meddel.			0.0	1	13500	1
FRE					silly clay, poo	orly son	led, soll,	CM				@	074
4.0/4.0					saturated, me 3,0-3,6 Olive	ed prasi	red or coorse	Sp					
					30-3.6 Glive SAND littega	vel, pas	rly anded,						
-		and the desired party species at the control		-	3.6-4.0 Olive	day	1.HC brown	Ja					
	-			ļ.	modeling, said	lumber, i	olashuhy.		· · · · · · · · · · · · · · · · · · ·	<u></u>			
					1. He grave, how			- 5p/ sm					
16-20					graded, dense, d	burp. d	7	38					-
Rec					2.5-40 - Bangard brown tolar	Lad ola	regrey SAND	5W/			*		
4.0-4.0					ploutrely) wel	re silt	Clay, lord	cm					
				-	Saturated	Cyra day	, 18052,						
- 36	***************************************		*		0-1.5 51/4			SM					
-20-241					growed, well gro			-					
- Kee 40 40					Moist, some pe			JCM					
17.0-7.0					2.0-2.4 Olive			SP/					
· —]					Postly Ended 5 2.4-3.5-13an	atorak	Lord	GP			-		
/					SAND and silt			SW/ CM					
					J.S-40 010	e brown	- smoot,	GP					
7		1		1	- bour o my					<u></u>		<u></u>	<u></u>
					//-1	2117	- J 1 1 1977						
					[>	~ P	261						
					D	OR.	24 bg	5					
								8 1 ar	m e- 1		A ·		
10002/6\1 22							THE RESERVE OF THE PERSON NAMED IN THE PERSON	nardi	ng Le	wson.	ASSOC	iates-	-

OVERBURDEN	WELL CONSTRUCTION	
	rea: Tobe's Breakfast Driller: J. Pow	<u>ell</u>
Project No.: 53 498 Boring	No.: 35/5w-005/Mw-9 Drilling Method:	irect Push
Date II	nstalled: 10/19/01 Development Method	1
Field Geologist: C. Staples		
Flush Mant		
	Elevation of Top of Surface Casing:	EL I Marit
	Stick-up of Casing Above Ground Sur	race: Filian Judent
	Elevation of Top of Riser Pipe: Type of Surface Seal:	Cement
around	Type of Surface Casing:	Munion plash
Elevation	Type of Guillace Gasing.	
		i i
	ID of Surface Casing:	411
		"
	Diameter of Borehole:	
		1"
	Riser Pipe ID:	PVC
	Type of Riser Pipe:	
	Type of Backfill:	0
	Type of Backlin.	
	Elevation of Top of Seal:	
	Depth of Top of Seal:	
	Type of Seal:	Grander Benderik
	Flourities of Ton of Condu	34
	Elevation of Top of Sand: Depth of Top of Sand:	3.6
	Elevation of Top of Screen:	
	Depth of Top of Screen:	12.1'
' 	Bopin of top of colorin	
June =	Type of Screen:	PVC
Sock our	Slot Size x Length:	0.01 slotx 10 ft
(6)[" 0,0"	ID of Screen:	
Soch		46
sur.	Type of Sandpack:	#0
	Elevation of Bottom of Screen:	27.1
	Depth of Bottom of Screen: Depth of Sediment Sump with Plug:	22.2
	Deput of Seattlest Sump with Flug.	
 	Elevation of Bottom of Borehole:	28 (untrising
	Depth of Bottom of Borehole:	1 2 6 6 00 1 6 000

FIGURE 4-5 OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM NYSDEC QUALITY ASSURANCE PROGRAM PLAN

		<u> </u>		ING	Poring/Moll	No		Drainedi		BANG TENNES	
Project NYSDEC - PM	-6			***************************************	Boring/Well			Project I			
Client VYSDE(S	Site	Ober Break for	i lHi) U se	Sheet No	o	΄(of(
Logged By C. Stapler	G	iroun	d Elevation	Start	Date 10/19/01		Finis	h Date	3/0	COLONIA MOTORIA COLONIA	
Drilling Contractor Geologic, Ny	and a second as second as second		Driller's Name J. Powell		announ and an independent and an independent	Rig Typ	е				mor
Drilling Method			Protection Level	I	P.I.D. (eV)	Casing		poke	Auger	Size	
Soil Drilled F	Rock Drilled		Total Depth		to Groundwater				Well	Borin	ــ از
<u> </u>			28 - hater	/5	-10/19/01	1	Children access	Мо	nitoring		
eet) lo. & lon/ Feet)	18/6" 19/6"	; B				loqu	rilling		m)	,	
Depth(Feet) Sample No. & Penetration/ ecovery (Feet) Sample Type	PT Blows/6 or e Rec./Rqd. SPT-N (Blows/Ft.)	Graphic Log	Sa Des	ample cripti		USCS Group Symbol	Votes on Drilling	LE LE	ace		
Depth(Feet) Sample No. & Penetration/ Recovery (Feet) Sample Type	SPT Blows/6" or Core Rec./Rqd. % SPT-N (Blows/Ft.)	Gra				Grou	Notes	PI Meter Field Scan	PI Meter Head Space	٠	
- 31			0-1.4 Grani	Lan	as Soul	- 1,	· · · · · · · · · · · · · · · · · · ·	P Fig.	교육	***************************************	4
1 _ 0-41			0-1.4 Grand and gravel, pour	by 900	Lestery (fill)	SP SP	7	BBsoc	Cont		
2 - 3.0/400			1.4-3.0 Olive 1.4/e to bruce SI			sw/	,	@ /	025-	/	
		-	sand, trace organ loose, damp.	u, p	wely godel	se					
3 —											
92-4-81	nied Polis more passinis et als in solici i Polis in Polis in Polis in Auro Ser Transport de la Companya de la Comp		SAND the graph	own s	. Thy fine	sm	emment result of the second	1.3	1	SDR reference (Superior Constitution of Superior Constitution of Superi	-
5 3.1/4.0			poorly gaded, s	sH,d	amp-proist	-					
6 📑			SAND, some on	my	conserved	_ SP/		0.0		العر	
7			anded dry 24-31. Olive be		IL Constant	68					
9 = /			and fire SAND ba	d, w	ell gro del,	2W					
7 = 8-12'			0-10 olive brow	un co	ariceand,	50/	CONTROL OF THE STATE OF THE STA		recession and the second second second		
Rei			somegavel, little	hesh	hl, Placery	GP GP		0.0			
1.2/4.0			modeled silty o			CM					
<i>n</i> −			des Moist	۰- ۶- ۱	- portion	1					
12 - 54			ORY Clive brown	gril	17 Por Course	- sm	ancestoriamointai me r			(dresfediraring navustane)	+
13 12-16			Mosst to sak	11m te	1			1,2	O-0 .	1	
14 Per 2.4/4.0			Ohly thus finer	1.0	2.0			0.0			
15								- 0			
/6											

Project		e red new colors	ter (Spirits Spirits and	TEST BO	RING	State Service				1902: Units of the		
Project VYSDE	c P	sA-6	×4			Boring/Wel	1 No.	F	roject l 53	No. 498		
Client VYSDEC		Sit	е 🦳	Tobe's Brea	k C.		Sheet N	o.	i	of	1	*****
Logged By		Gro		Elevation	Star	t Date			n Date		No.	
C. S top Drilling Contracto	r		D	riller's Name		10/19/01	Rig Tyr	oe ·	10//	19/01	MATERIAL PROPERTY.	
<u>Öcologic</u> Drilling Method			_ _	<u> უ. Powel</u> rotection Level		DID (a)A		"5-00 p	robe	Tair	. 0'	-
Direct	Push			D	T	P.I.D. (eV)	Casing 2		****	Auger	Size	
Soil Drilled	Rock Drille	ed	T	otal Depth 24'(wh)	Depth	to Groundwate	er/Date 2//9/01		Piez	Well	Borin	g
	%				nierwanie en zuen			Di	Mo	nitoring		
No. & tion/	Type ws/6" Rqd.	z ţī.	Log		Sampl	À	S	Orillin	(pr	om)		-
Depth(Feet) Sample No. & Penetration/ Recovery (Feet)	Sample Type SPT Blows/6" or or	SPT-N (Blows/Ft.)	Graphic Log		escript		USCS Group Symbol	Votes on Drilling	r	r		
Sar Pe Recc	Sample Type SPT Blows/6" or Core Rec./Rqd. %	(B)	ଜ				Gro	Note	PI Meter Field Scan	PI Meter Head Space	-	
O - Se-1				O-1.0 Black +	-01-		Fill		급표	교육		+
1-0-4'				pred-coorse shipports	100 SOA	regravel,	spi60					
Pec				1.0- 1.8 Dark	brown	Arresand, SILT.	ML/		0.0			
2.6/4.0				little coase sau Moist - Amu	nd, poor organic	-ly eradel	- In					
3 =				1.8-2.0 Olivebra 20.2.6 Pork	orn co	erse sendo garro	1-00					
7 = 22	en o en considerancione e actividad de la recurso de l	No Arthresia (National Arthresia (Nationa Arthresia (Nationa Arthresia (Nationa Arthresia (Nationa Arthresia (Nationa Arthresi		siltacley po moist, slight p	lasher L	.ded soll	1					
5 = 4-8'				o-lo olive be	em sil	L fursano	sn/		0.0	- Statement Season		ľ
] Pro.				and forsondy of coorse SAN genders most	Ditte	fire, poorly	Sp					-
2.6/20				60-26 Olive	brown	med coorse	f sr/					
7-				SAND, some of No fame to se gooder, loose, i	rosely \$	vacceobble	- 6 P					
8					THE DESIGNATION OF THE PERSON NAMED IN COLUMN 1 AND THE PERSON NAM	ri o Silli Silli Silli di ci	- sempson and services	toline distanta proper des	0.0			-
33				6-0-4 Oliveb 5167 - Stoke p	womm c beticil	by, yearty	sm/		0.0			
1 - 8-12' Rec				ander moist 04-24 coa								
2.4/4.0				groves little for	ines to	nee collete	-sp/ op					
y = 1 * 1				Dany, poorly	grades	(-					
2			one and the					Constitution of the second		and the state of t	TTO TO THE STATE OF THE STATE O	_
3 12-16				O-2.9 Divel	hour l	foretowned - littlecobble	the		0.0			
Rec		aa aan aa 		Poorly grade.	/ bose	Domp	Sps Co	lled	roil	Samo	-	1
15 2.9/4.0				- sntvintel@	15.5			ר בו מ	007	01501		
16 55	COMMUNICAÇÃO A LA COMEZA A O MORA MESTICAÇÃO DE PROCESSOR A SE ESPAÇÃO A COMEZA A CO			· Some ass	L1 - v-	ar Lw	se/		Andrews Control of the Control of th	1120		
17 16-20				3000 CC 5	1 - 100	-are Asial	CP					
2910003(e) 1 33		ere distance de la conse					Hardi	ng La	wson	Associ	iates-	1004

on and a supply		n se savlara nag		managan da da da da	anejos Not.	TEST BOI	RING	LOG						
Proje	ct YSDEC	- Ps	A-6					Boring/Well I		F	roject l			
Clien	VYSDE	C		Sit	te_T	obe's Break	fast	House	Sheet N	lo	<i>i</i>	of	ı	
Logg	ed By		S	Gr	oun	d Elevation	Start	Date 19/01	Accordances - Colonoly - April 4	Finish	h Date / 0//	19/61		
Drillin	g Contract	or		A so passassas puri di Annassi di Anna		Driller's Name J. Powell		- faithafad am la saonn ann an	Rig Typ		onbo			
	g Method		usk.			Protection Level		P.I.D. (eV)	Casing			Auger	Size	
Soil E	Orilled		Rock Drille	d		Total Depth 28 (water)	Depth (o Groundwater			Piez	Well	Boring	g
	-		_ %							g	Мо	nitoring)	
eet)	No. 8 tion/ (Fee	Type	ws/6'	Z (i	20		Sample		S	Orillir	(pr	omi)		sts
Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	De	scripti		USCS Group Symbol	Notes on Drilling	PI Meter Field Scan	PI Meter Head Space		Lab Tests
ا ا	5-1					0-0.8 Cm	sonelo	gard, well pos	FIL		0.0			
2 -	0-4' Rec 2.4/4.0					0.8.2.7. Sill modely, 2" f	ly fire	sand, trave,	- M2			6		
3 -						**								
5 —	32 48'					O-1,00 livebrander brown many grader, soft, r	own st odeling, wort	poorly	sm		O.Q		new ment ment ment ment ment ment ment ment	
7	30/4,0					60-3.0 O ites SAND, Some of Amere hire, poor	gray muel, l	med o coarse. He capally	- sp					
9	8-12' 8-12'	adiciolometicino e un mudicio		·		0=2.5 Oliv SAND and GRA these fires, po Moist	IDEL, No	ce catable,	SIP		0.0	workin en mosedonal pacid v	maginingkaylar givon quoni laday et cu	
11 -	2.8/4.0					2.5-2.8 Dra modeled silvy soft, most,	chy,	easily graded	- csli	ect i	sal sa Bwod	pk 18011	01FX	340
(2-	34					00.6.01:			GW		0.0	etini priini kirjeniy suunitaani eegine		enonadaerra Ginnen sussa
14.	12-16' Rei 2.9/4.0					modeled sill modeled sill graded, sty 1.2-2.4 Ola Coance simd some garely,	y Clay	poorly truly	cm , 518					
	disance of the second of the s	neneus concessor	The state of the s	neronepode popoletica	04437.7H410499	2.4-29 Olive	a brow	n fine samp	- tope	Coors	e SAM) awson	Assoc	iates-	
991000	03(e) L 33					moist-safera	Indyen	d - plu neity	sm/	-				

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ger (southern trad)	i salah di salah da salah di s	der more en en		and the same of the same	2002	TEST BOI	RING	LOG	14.00	and a great and a great a				
Project (V)	ct 'SDEC-	PS	A-6					Boring/Well			Project I 5 349			
Client	YSDEC		•	Sit	е	Tohes			Sheet N		1	of		
Logge C.	ed By STAPLE	5		Gro	oun	d Elevation	Sta	rt Date 0 19 0		Finis	h Date	2/01		
Drillin	g Contract	or NY				Driller's Name 5. Powell			Rig Ty	pe_	dosic		Newskippod sodkilppa (ess	
Drillin	g Method	1				Protection Level		P.I.D. (eV)	Casing			Augei	Size	
Soil D	Prilled		Rock Drille	d		Total Depth 29' Later	Depth	to Groundwater			Piez	Well	Boring	9
		-		M (MINISTER) APPLIES I N	wa nazaka			anno anno anno anno anno anno anno anno	Ī		Мо	nitoring]	THE REAL PROPERTY AND ADDRESS OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF
₩	Sample No. & Penetration/	ф	SPT Blows/6" or Core Rec./Rqd. %	÷	bC	27			USCS Group Symbol	Votes on Drilling		om)		
Depth(Feet)	o No ratio	Sample Type	ows r	SPT-N (Blows/Ft.)	Graphic Log	S S	amp		Sym	Ö				Lab Tests
pth	nple enet	du	T BI	SP	aph	De	scrip	tion	OSO dh	s or	PI Meter Field Scan	PI Meter Head Space		ab T
۵	Sar Pe	Sa	SP	E)	ত্র	5			Gro	lote	Aete d Sc	Aete Id S		ן נ
			0							-	PI N Fiel	P- Hea		
_	31					0-1' olive b	own s	andsgrowl	GP					
1	0-4'					Domp-	Fill	,			0.0			
=	Ru					1.0-2.6 Olive	brow	in silty,	SM					
2_	2.6/4.0					A GVAL WIFE	ace b	alock modely]"`					
=						trace organic	1, pa	orlygended,						
3 -						soft, domp			4					
-						6.5								
14-	erioniste e			Marida SAGGO OMPRINSISSISSISSI	CONTRACTOR		***************************************		THE RESERVE THE PROPERTY OF THE PARTY OF THE	Nephlasoper Antohologica	NAME AND ADDRESS OF THE PARTY O	Total many sources the East Supply of	Terinometrus manuschings, je p	Weeks distributed by the
_ =	25					0-1.4 olive			SM					
5-	4.8					SAND frau o poorly grades	two.	e Jond,	┤		0.0			
0 =	Rei					1		•						
0 -	, 1					1.9.3.1 OLN	re br	own hol	1.					
7 =	3.1/4.0					sano little	gran Care	or, trace	SP					
1						2mded, boot	rivez e Da	mis .	1					
8 =	ž.					1,000,000	> "							
0 =	2.7													
9	8-12'					0-3.201m			SP/					
	Rec					some gravel, 1	All c	cobble, true	GP		00			
10 -	J2/40					to No fires, 1	poorly	gades	4					
-	•					loose, Moin.								
11 -									1					
12 -	E & S	ortonomorphism compa	e etalistikkorrittinismassus ankulistossa aasuun ese	MANAGE CONTRACTOR VIEW AND SECTION	WWW.STROOMS			ocean drawn ar stad Princip who as a stad Princip and a survivable of Extended Cost and Mississis Princip and		-	and the state of t	#0499#Williams#########	***************************************	**************************************
13	54					0-1.001ive	brown	n m + C JAND	SP					
19.	12-18	tuomenenune:				1. Kla gaves	1.HC	fire, dop +		stee	fsam	ple	,	Nor
1	Rec					•		rown model	-		\$/00g		OLEK	
15	3.0/4.0					3.1 k Cla -	from D	samp, satur	6.3. J	•	1515			
16						Planteste		110.4 D' 2010A	7	1	-0		re spl	
77	1		r. 1			. , .	live	eroun for sk	WP-	To see London	do e OT=QI	fish	Lupe	
	1	Zoß	-/(`.	no prior bushproblekymowner	,	and coorse s	onely	gravel-	1 1	ing !	ID=TO awson	21012	01501 F	-X **
991000	3(e) L 33					well a poder	Aco	ist saturate	A		4773UII		C3	

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eliksigas ja viidas.	de de mares de messas		end electrical	sissiyi zheek	esa Prekasas asac	20,54.5		لنالا	NG	LOG			N. Salin Designation				
Proje	MYSPE NYSPE	EC_	129	4-6				o de la companya de		Boring/We BS/BW			F	Project I			
Client	VTSDEC			wall	Sit	e T	abei			,		Sheet N	o		_ of	(
Logge	ed By Stoples				Gro	oun	nd Elevation		Start	Date 10/19/	101		Finis	h Date /0//	9/01		
Drillin	g Contract	or NY	/	100,100,000,100,100,			Driller's Name J. Powel			nervice in the contract of the		Rig Typ		robe		etarologu con antenno po rqui	
Drillin	g Method		·				Protection Level			P.I.D. (eV)		Casing		7 00	Augei	Size	
Soil D			Rock [Orille:	d	1	Total Depth 28 (under)	D	epth	to Groundwa	ter/			Piez	Well	Boring	9
			<u>=</u>	%					Printe Videologia			_	g		nitoring		
Depth(Feet)	No. 8 ration/ y (Fee	э Туре	9/swo	./Rqd	SPT-N (Blows/Ft.)	Graphic Log		Sa	mple	Э		SS Symbo	Drillir	(pr	om)		ests
Depth	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6"	Core Rec	SP. (Blow	Graph	5)esc	cripti	on		USCS Group Symbol	Notes on Drilling	PI Meter Field Scan	PI Meter Head Space	-	Lab Tests
4	SI						0-1.4 oliv	e bi	rewin	silta		EIL		0.0			voc
=	0-4' Rec		•				1.4-30 01	ve 1	Provi	- silty	•	-	managed codered (i):		ct soil		
Z-	30/40						fire SAND black model	trae	. C.S	and, trou	-	sm		(IS)	1605	0020	N. X
7 -	and which the flat should be for company to the com	November of the State of the St	***			dense	poorly gre	<u></u>	PV0:	- ST-	programa volt						
5_	4-8,						5/AND, tra				-	SM		0.0			
s —	Per 26/40						20-30 Oli	ire h	Berger ere	Lim a M	-	58/					
							dams.	TP	osty	graded,	-	GP					
							BoB	{	۵,`			TO BETT CANADAS AND CONTROL COMPANY	Market State	Medication of the same			
								· ·	****								
-											-						
-			Water Contract of the Contract					.comeconom		PROMONERO (M. NOTANT AMERIK SHOOM PARAMA PERUKAN					·	- Serios de constituit page	
									g annual a state days.								
_		-	WOMEON COMMONWY	-	etate transportation and						-	—Hardi	nals	wson.	Acena	iatec.	

Project				TEST BO	FINE		ll No.		Project I	No.		
NYSDE	r-PSA-6			CONTINUES AND		Boring/We	011 - MW-	5	535		·-····	
Client NYSDE	EC	Site	1	OBES			Sheet N	lo	1	_ of <u>_ (</u>	- 14	
Logged By C. STAPE	ES	Grou	und	Elevation	Star	t Date		Finis	sh Date	101	in the recoverage on	
Drilling Contractor		ang kepangahan dan penggan panggan gan	D	riller's Name J. Powel	/	The second secon	Rig Ty		nhe	The second second second second	**************************************	-
Drilling Method		mile v de le la leman cia de militario de la lemancia del lemancia del lemancia de la lemancia del lemancia del lemancia de la lemancia del lem	Р	rotection Level		P.I.D. (eV)	Casing			Auge	r Size	
Soil Drilled	Rock Drilled	men acuso prese, surregues	T _.	otal Depth		to Groundwate			Piez	Well	Borin	
	%		and and		1 12 ()				Mo	nitorin		
eet) lo. & lon/ Feet	ype 's/6"	- £	₋ og				loqu	rillin	(pr	om)		
Depth(Feet) Sample No. & Penetration/ Recovery (Feet)	Sample Type SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log		Samplescript		USCS Group Symbol	Notes on Drilling		3Ce		
Sam Pen Pen	Sam SPT	S E	Gra			· = • •	J Proup	otes	eter Sca	eter 1 Spa		
G C	ပိ							Ž	PI Meter Field Scan	Pi Meter Head Space		
= 41				0-6.5 Perk		•			0.0			T
0-4'				JANP, Since	•	,	-Ism					
Rec				GresAND, po	en uh b	nown silty]					
3.0/4,0				Moul	~ 7 Ja	104)						
3 -							+					
7												
5.5				0-28 Green	ish boo	in silly him			0,0			T
9.8				clay layor 23	. sondy . 5-2 C . 1	SILT, HAR	- 5m/					
5 - Rec				sand ond fine clay layor, 2: Cobbb, soll, p	54 300	ded, moust]					
2.8/40												
7 -							1					
				O-MUP	*	£ 2			-			1
52				SILT & Clay, pos	irly good	timesandy led soft	mı		0.0			
9-12'				Moist, some pla	shuty							
2.5/4.				0.9- Zo FaC. some cabble, little	AND, SO	megawe/ Mosst	-SP					
1770				2.0-25 Greenul			6					
				anded, it derey	el little Moist	idobly poorly	- sw					
r = 154	Martin Carlo Marti			West to the content of the content o	nices de contraction de augus a		~~~					+
7 12-16				0-2.2 Grani,			SP/		o. o			
n Rec				and gravel,				· ale	collect BB co			
2.4/40				Roorly gaded. 2.7-2.4 Green t				ı	০১ প্র প্র	0812		,
- 6				silty Chy - L			cı		No.	_ • • •		
7. 55 16-20 Pec 5	25 ks.	AND THE PARTY OF T		0-35 Grent	rad m	odeled silty	Clay, his	pla	that c	L.	***************************************	racas.
910003(e) L 33	>-	- New Grant Andrews Construction of the Constr		gravel layer -	1,5-1.	8 - clean. ATURATED	— Hardi	ng L	awson /	Associ	iates-	

BOBE 20'

Project: NYSDEC-PSA-6 Project No.: 53500	Boring No.: SS- DII MW-005 Driller: T. Pound Date Installed: 11/1/01 Development Method:	ect Purk
Field Geologist: C. STAPLE		
Bround Elevation	Elevation of Top of Surface Casing: Stick-up of Casing Above Ground Surface Top of Riser Pipe: Type of Surface Seal: Type of Surface Casing:	Cernent Plashic
	ID of Surface Casing:	411
	Diameter of Borehole:	2"
	Riser Pipe ID:	PVC
	Type of Riser Pipe:	- PVC
	Type of Backfill: # 0 SAND	
	Flavorina of Ton of Cook	•
	Elevation of Top of Seal: Depth of Top of Seal:	1.0
TW=15.5	Type of Seal:	Granular Bentonite
	Elevation of Top of Sand:	
	Depth of Top of Sand:	4.0
	Elevation of Top of Screen: Depth of Top of Screen:	
i E	Type of Screen:	pvc
or papere [] = [Slot Size x Length:	10'x 0.01361
rolyport	ID of Screen:	1,4
Polypropolene sock, over screen	Type of Sandpack:	#0
	Elevation of Bottom of Screen:	21.1
	Depth of Bottom of Screen: Depth of Sediment Sump with Plug:	21,2
l	Elevation of Bottom of Borehole: Depth of Bottom of Borehole:	21,4'

FIGURE 4-5 OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM NYSDEC QUALITY ASSURANCE PROGRAM PLAN

	Jan 1	TEST BO	RING LOG		
Project NYSPEC PSA-6			Boring/Well BS//Swーの		Project No.
Client NYSDEC	Site	TOBES		Sheet No.	of l
Logged By C. STAPLES	Grour	nd Elevation	Start Date	Fin	ish Date
Drilling Contractor Geologic, NY	rittedag a or Öyssygradninkrusvekkenner	Driller's Name	nanda una merinamana marana kanada da kanada fari mendena da kanada da kanada da kanada da kanada da kanada da	Rig Type	rohe
Drilling Method Direct Post	THE PERSON SECURITION OF THE PERSON OF THE P	Protection Level	P.I.D. (eV)	Casing Siz	The second secon
Soil Drilled Rock Drilled	Material (photosophistop) i e typn 439/41	Total Depth	Depth to Groundwater	/pate	Piez Well Boring
and control of the second control of the sec		anticontern printing at the environmental anticonternation of the anticontent and a section of the section and		701	Monitoring
Sample No. & Penetration/ Recovery (Feet) Sample Type SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	S Des	ample scription	USCS Group Symbol	(ppm) \$\frac{\partial}{\partial} \frac{\partial}{\partial} \part
S S S				<u> </u>	PI Meter Field Scan PI Meter Head Space
1-25/20	hari gunguy yazarin 19 2-190 a 1914 an <mark>Gwinhalanani</mark> n	0-0.6 - M. st 0.6-2.5 Gree	NO+CRAVEC FILL	Se Co	Collect sample & U750
2-3//.0		thresondy 516	Tobsilty Emisand Lean Moond 1.1-1.4	131	B 5501200301XX
3 -			graded, Moist		
4		Greenish brow	W		
52			AND, somesilt, in some soul (1.6-2	SM (S)	0.0
5 - 4.81 Rec		Lose, poorly o		Se	
6 - 3.5/4,0				1	
7_				-	
r2 B		C. SAND + GRA	VFG Little colle	SP/ GP	0.0
98-12' Rec		tru silt, p.gn	edel, M. Dense, Dom.	mL/	
3.514.0		SAMOYSILT In slight plastict	Mc clay, soft,	SM	
12 —		3.2-3.5 F. SA some silt, M.	ND + GRAVEL,	sm	
13 12-16	nacionalismo de la constitución de constitución de designación de constitución	Mairt Grand	Kont M JANA		0.0
19 Rec	· · · · · · · · · · · · · · · · · · ·	and GRAVEL,	trove to little sill.	SP	
15 3.1/4.0 16		silty clay lay saturated@	C 2.0-2.3.	ce ce	
12 95	econocimio indupre, copina pare incop	0-30 Greenwh	brown MIAND		00
13 Rec 3.0/10	NAME OF THE OWNER O		racto little silt,	SP/ 6 P —Harding I	awson Associates-

oject: NYS DEC PSA 6 Site Area:	TOBES Driller: J. Power Drilling Method: Dis	rect Push
	led: 11/1/01 Development Method:	Georgh
CTN-01 = C	led: Development Method_	
eld Geologist: C. 3 I MPLES		
Flush Mount		
Flore	Elevation of Top of Surface Casing: Stick-up of Casing Above Ground Surface	e Flush Mount
	Elevation of Top of Riser Pipe:	4
nound bruss	Type of Surface Seal:	CEMENT
round evation	Type of Surface Casing:	play fre
	~~	
	ID of Confess Coolings	4"
	ID of Surface Casing:	***************************************
	Diameter of Borehole:	Z"
		14
	Riser Pipe ID:	PVC
	Type of Riser Pipe:	PVC
	Type of Backfill: #0 SAND	
	Type of Backfill:	
	Elevation of Top of Seal:	1.0
	Depth of Top of Seal:	10'
	Type of Seal:	
	Elevation of Top of Sand:	
	Depth of Top of Sand:	3.01
	Elevation of Top of Screen:	150
() = 1	Depth of Top of Screen:	10.2
. i 	Type of Sereen:	PVC
by properties	Type of Screen: Slot Size x Length:	10x 0.014
ckova	ID of Screen:	to 1"
creen 📗		1 L
	Type of Sandpack:	#0
	Elevation of Bottom of Screen:	20.2
	Depth of Bottom of Screen: Depth of Sediment Sump with Plug:	20.3
	Deput of Sediment Sump with Flug.	
	Elevation of Bottom of Borehole:	20°C
	Depth of Bottom of Borehole:	20.4
•		

APPENDIX E

E.2 Sample Records

Augus 2014	
•	per Breakfast House
Project No. 53501/2 Sampler Signature	le to
Date	
Field Instrumentation Calibration Data	
Equipment Type/I.D. Battery Condition	Calibration Information
Horiba - U-10/NYSDEC-13	pH 4 399 pH 7 pH 10
,,	pH 4 pH 7 pH 10
	pH 4 pH 7 pH 10 Cond. Std/4.53 meter value
	Cond. Std/ Cond. Std/meter value
	Cond. Std/ Cond. Std/meter value
Dissolved Oxygen	10.5.6
	Avg. Winkler Valueppm Meter Value 10.90 ppm
Redox	
	Zobell Sol. Value Meter Value
Photoionization Meter	
Thermo 580 13	Zero/Zero Air? ÆYes □ No Span Gas Value <u>I∞</u> ppm Equiv.
•	Meter Value (0/. 3 ppm Equiv.
	Zero/Zero Air? ☐Yes ☐ No Span Gas Value ppm Equiv.
~	Meter Value ppm Equiv.
Other	
Fluids/Materials Record	
Deionized Water Source: ABB-ES FOS Porta	Dichlod
Trip Blank Water Source: Lab; Lot No	
— Other; Type	
Decontamination Fluids: Type / Lyunar + DI	
Filtration Paper ID: (In Line) Manuf/Type	
	Lot No /
Chemicals Used: HNO 3 Lot No.	
H ₂ SO ₄ Lot No.	•
HCL Lot NoNaOH Lot No	
NaOn Lotino.	-
	FIGURE 6-1
	FIELD INSTRUMENTATION AND
	MATERIAL QUALITY ASSURANCE RECORD

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Project NYSDEC-PSA-6 S	Site Tober 1	Grank Co. + Hour
Project No. <u>53498</u> s		
Date /0//8/0\		
Field Instrumentation Calibration	n Data	
Equipment Type/I.D.	Battery	Calibration Information
Hogb - U 10/NYSDER	Condition	2007
110(19)2 10 /10/30)1	- 17	pH 4
		Cond. Std/ Cond. Std/meter value
are provided to the state of th		Cond. Std/ Cond. Std/meter value
Dissolved Oxygen	•	6.8°C
	· ·	Avg. Winkler Value ppm Meter Value 11.99 ppm
Redox		
	-	Zobell Sol. Value Meter Value
Photoionization Meter		
Thomas 80 B		Zero/Zero Air? TYes □ No Span Gas Value 100 ppm Equiv.
•		Meter Value 🙉 3 ppm Equiv.
		Zero/Zero Air? Yes No Span Gas Value ppm Equiv.
Other		Meter Value ppm Equiv.
Oti lei		
	The continues access and continues and continues the continues are an experience and continues are an experience and the continues are are a continues are a continue are a continues are a continues are a continue	AND MATERIAL PROPERTY AND PROPERTY OF THE PROP
Fluids/Materials Record		
Deionized Water Source:/	ABB-ES FOSPor	rtable System 2 Other (Walnut dustilled)
Trip Blank Water Source:	Lab; Lot No	
	Other; Type	
Decontamination Fluids: Type _	Liquinar & D.I.	ID
Filtration Paper ID: (In Line) Manuf	/Tyne	//
		Lot No /
Chemicals Used: HNO 3 Lot No	•	•
HCL Lot No		Other Lot No.
NaOH Lot No		
	•	FIGURE 6-1
		FIELD INSTRUMENTATION AND
	*	MATERIAL QUALITY ASSURANCE RECORD

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

	ATERIAL QUALITY ASSURANCE RECORD
Project NYSDEC-PSA-6 Site Tobes	
Project No. 53498 Sampler Signature _	Chil NICipa
Date	
Field Instrumentation Calibration Data	
Equipment Type/I.D. Battery Condition	Calibration Information
Horiba U-10/NYSDEC 13	рН 4 <u>3.9</u> 9 рН 7 рН 10
	pH 4 pH 7 pH 10
	pH 4pH 7pH 10
	_ Cond. Std/ Cond. Std/meter value Cond. Std/ Cond. Std/meter value
Dissolved Oxygen	_ Cond. std Theter value
	Avg. Winkler Valueppm Meter Value 10.41 ppm
Redox	
	Zobell Sol. Value Meter Value
Photoionization Meter	
Themo 5808 - 11.8 bulb	Zero/Zero Air? ФYes □ No Span Gas Value/ம⊋ ppm Equiv.
Thomasons III was	Meter Value 101 ppm Equiv.
	Zero/Zero Air? ☐Yes ☐No Span Gas Value ppm Equiv. Meter Value ppm Equiv.
Other	Wolds Value ppin Equiv.
Fluids/Materials Record	
Deionized Water Source: ABB-ES FOS Po	rtable System X Other Walnut at Hite
Trip Blank Water Source: Lab; Lot No ——— Other; Type	
Decontamination Fluids: Type Ligurox & D.I	
7	
Filtration Paper ID: (In Line) Manuf/Type	
(Vacuum) Manut/Type Chemicals Used: HNO 3 Lot No	Lot No /
H ₂ SO ₄ Lot No	
HCL Lot No	
NaOH Lot No.	
	FIGURE 6-1
	FIELD INSTRUMENTATION AND
	MATERIAL QUALITY ASSURANCE RECORD
NYS	SDEC QUALITY ASSURANCE PROGRAM PLAN

			ATER SAI	MPLE FIELD DA		
	roject: NYSDEC -			Site: <u> </u>	ober Breakfa	it House
P	roject Number:	3998			10/18/01	
					rt: <u>0920</u>	End:
S	ample Location ID: T 🖪	BEODIO	1601	F × Signature	of Sampler:	Restass
	Well DepthF	Historical	Top of	Protective (from grou	Stick-upFt.	ProtectiveFt. Casing/Well Difference
Data		Direct 12	Casir	<u></u>		ProtectiveFt. Casing
Water Level/Well Data	Depth to WaterFt	. Well Material: PVC SS	Well Locked	Sample Well Dia.	2 inch 4 inch 6 inch	Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column Ft.	16 Gal/Ft. (2 in. X65 Gal/Ft. (4 in. 1.5 Gal/Ft. (6 in. Gal/Ft. (in) =	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secu Concrete Collar In Other	tact
tion	Purging/	Sampling Equipment (<u>Jsed</u> :	egenzantskar i Angula som sene sene kalansisk til i slækken en er græn en en e	<u>Decontamin</u>	nation Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipmer		Deionized Liquinox Hexane HNO ₃ /D. Potable V	(100%) hanol/75% ASTM Type II water di Water Solution I. Water Solution
)ata	PID: Ambient Air MA	ppm Well Mouth 09 7\$		rurge Data Collected	Sam In-line & In Container	ple Observations: Turbid Clear Cloudy Colored Odor
alysis Data	Temperature, Deg. C	12.9	C	Mech	Gal. @	Gal. @ Gal.
Field Ana	pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, ppn	+/- mv	<u> </u>	omple		
S	Analytical Parameter	✓ If Sample F	Preservation Method	Volume Required	Sample Bott	le ILot Nos.
Jen .	VOCs		4°C	2x40 ml	*****	
iren tion)	SVOCs Inorganics		4°C HN0₃,4°C	2x1 liter AG 1x1 liter P	***	
ole Collection Requirent	Cyanide Nitrate/Sulfate		NaOH.4°C	1x500ml P 1x1 liter P	****	
this	Nitrate/Phosphate		H S0 ,4°C H S0 ,4°C	1x1 liter P	***************************************	
tior dat	Pest/PCB TPH		4°C H ₃ S0 ₄ ,4°C	3x1 liter AG 2x1 liter AG		
lec quire	TOC		H₂S0₄,4°C	1x1 liter P		
Col	N	end man annio administrativa				-
Sample Collection Requirements (/ If Required at this Location)	Notes:		 NYS			FIGURE 4-14 PLE DATA RECORD E PROGRAM PLAN
		wasterna - Politika			Har	ding Lawson Associates——

		RESERVABLES FOR SELECTION SECURITIES FOR		IPLE FIELD DA			
	roject: NYSDEC	_				kfast House	
P	roject Number: 53	198 - 2			10/18/01 rt: 0950	Frat. 107.0	
	ample Leasting ID. 50				-	End: 1020	
5	ample Location ID: 🍞 🛭	S 15 W 001	02401F	Signature	of Sampler: _	CARREST	elected in State of the Company
	Well DepthF	FtMeasure Historica		Protective (from grou	Stick-up and)	Ft. Protective Casing/Well Differe	
Data	-	THE STATE OF THE S	Pirac P Well Locked? Yes	,		Protective Casing	_ Ft.
Water Level/Well Data	Depth to Water F	et. Well Material:	Well Locked? Yes No		2 inch 4 inch 6 inch	Water Level EquipElect. Cond. PrFloat ActivatedPress. Transdu	robe
Water	Height of Water ColumnFt.	16 Gal/Ft. X65 Gal/Ft. Gal/Ft.	(4 in.) = (6 in.)	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Se Concrete Collar Other	ecure r Intact	No
ation	Purging	ı/Sampling Equipm	ent Used :	AN THE STATE OF TH	Decontan	nination Fluids Used:	
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pu Bailer PVC/Silicon Tul Teflon/Silicon T Airlift Hand Pump In-line Filter	mp		25% M Deioni Liquino Hexan HNO ₃ / Potabl None	nol (100%) Iethanol/75% ASTM Type II zed Water ox Solution e /D.I. Water Solution e Water	water
79.23332333334222	PID: Ambient Air		h M ppm Pu	irge Data Collected	Sa	ample Observations: ATurbid Clear Colored Odor	_Cloudy
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, pp	μmhos/cm)	J Gal. @ 0.	40 Gal. @		Gal. @	_Gal.
S	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample B	ottle ILot Nos.	and the second s
Sample Collection Requirements (

				STREET, WASHINGTON STREET, WHICH STREET, STREE	ATA RECORD	
	roject: <u>VYSDEC - MA</u> roject Number:53			•		-site Tubes Site
''	oject Namber.				rt: 1210	End: 1240
Sa	ample Location ID: TB	BN0020	1801F	✗ Signature	of Sampler:	le tops
	Well DepthFt.		Top of W Top of Pr Casing		Stick-upFt.	ProtectiveFt. Casing/Well Difference
Water Level/Well Data	Depth to WaterFt.	Well Material: PVC SS	Well Locked?: —Yes —No	Posk Well Dia.	2 inch 4 inch 6 inch	ProtectiveFt. Casing Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column X	16 Gal/Ft. (2 in. 65 Gal/Ft. (4 in. 1.5 Gal/Ft. (6 in. Gal/Ft. (in	.) =	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	
i co	Purging/S	ampling Equipment (Used:		<u>Decontaminati</u>	on Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling L L L L L L L L L L L L L L L L L L L	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment II		Deionized W Liquinox Sol Hexane HNO ₃ /D.l. W Potable Wat None	00%) ol/75% ASTM Type II water /ater ution Vater Solution
Jata	PID: Ambient Air	1225	12	30	_In-line	oredOdor
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, + Dissolved Oxygen, ppm	(e. 7.16 mhos/cm) 0.78 999	.96 <u>Son</u>	llect	Gal. @	Gal. @Gal.
S	Analytical Parameter	✓ If Sample i Collected	Preservation Method	Volume Required	Sample Bottle I	Lot Nos.
Sample Collection Requirements (< If Required at this Location)	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC		4°C 4°C HN0 ₃ ,4°C NaOH,4°C H,S0 ₄ ,4°C H,S0 ₄ ,4°C 4°C H,S0 ₄ ,4°C H ₂ S0 ₄ ,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample C	Notes: effice VO	(NYSD		ASSURANCE	FIGURE 4-14 E DATA RECORD PROGRAM PLAN ng Lawson Associates——

n.	oject: <u>VYSDE(- P</u>	CHIZARIAN COMPANIAN CONTRACTOR	DWATER SAM		TARECORD Ober Breakfor	
1		53498		Date:	10/18/01	
				Time: Sta	rt: 12 7 0	End: 12 45
Sa	ample Location ID:	BROOS	202601F	Signature	of Sampler:	Ellisto
	Well DepthF	t Measure Historica	,		Stick-upFt. nd)	ProtectiveFt. Casing/Well Difference
Water Level/Well Data	Depth to WaterF	t. Well Material: PVC SS	Well-Locked? ————————————————————————————————————	Well Dia.	2 inch 4 inch 6 inch	Protective Ft. Casing Water Level Equip. Used:Elect. Cond. ProbeFloat Activated Press. Transducer
Water Le	Height of Water Column Ft.	16 Gal/Ft. X65 Gal/Ft. 1.5 Gal/Ft.	(4 in.) = (6 in.)	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intact	Yes No
tation	<u>Purging</u> . (✓ If Used For)	/Sampling Equipn	nent Used:		Decontamination	on Fluids Used:
Equipment Documentation	Purging Sampling	Peristaltic Pum Submersible Pi Bailer PVC/Silicon Tu Teflon/Silicon T Airlift Hand Pump In-line Filter Press/Vac Filte	bing		Deionized W Liquinox Solu Hexane	00%) ol/75% ASTM Type II water ater ution /ater Solution er
Jata	PID: Ambient Air 📝	1.5	40 12		_In-line	oredOdor
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, ppi	μmhos/crn) $\frac{1}{2}$	7.1 Col 10 Sa 576	40 Gal. @	Gal. @	
S	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle II	Lot Nos.
Sample Collection Requirements (/ If Required at this Location)	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC		4°C 4°C HN0 ₃ ,4°C NaOH,4°C H,S0 ₄ ,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample Co	Notes:		NYSI		ASSURANCE	FIGURE 4-14 E DATA RECORD PROGRAM PLAN ng Lawson Associates——

	Marie 20 Page 12 Comment			The state of the s	TA RECORD	
P	roject:	- 1916 190 = 2			Obe; Brenkful	Itouse
	roject Number	,,,,			t: 1955	End: /5/0
S	ample Location ID: TB	RU00301	701FX			Uh Sept
	Well DepthFt.	Measured Historical	Top of Well	Well Riser ective (from ground	Stick-upFt.	ProtectiveFt. Casing/Well Difference
	The state of the s	PA COMPANIES	Casing	(3		ProtectiveFt.
ata		The state of the s	And the second s	nation designs		Casing
=	Depth to Water Ft.	Well Material:	Well Locked?:	Well Dia.	2 inch	Water Level Equip. Used:
M	,	PVC SS	Yes	No. of the last of	4 inch 6 inch	Elect. Cond. ProbeFloat Activated
eve				Active ways at the first of the same	O MIOIT	Press. Transducer
Water Level/Well Data					and the state of t	statement Material Control of the Co
Wat	Height of Water Column X	16 Gal/Ft. (2 in.)		_Gal/Vol.	Well Integrity: Prot. Casing Secure	Yes No
	Ft.	1.5 Gal/Ft. (6 in.) Gal/Ft. (in.)	[_Total Gal Purged	Concrete Collar Intact	
		Ga// t. (III.)		-	Otrier	The state of the s
	African Programme Commission (Commission Commission Com		o differ in the Process of the Continues when so direct participations and the Continues of			
ion	Purging/S	ampling Equipment Us	<u>sed</u> :		Decontamination	on Fluids Used:
Equipment Documentation	(✓ If Used For)					
me	Purging Sampling	Peristaltic Pump	Equipment ID		(✓ All That Apply at Lo Methanol (10	
000	Addition	Submersible Pump Bailer			25% Methan Deionized W	ol/75% ASTM Type II water 'ater
l to	\overline{k} $\overline{\nu}$	PVC/Silicon Tubing Teflon/Silicon Tubing			Liquinox Solu	ution
me	<u> </u>	Airlift			HNO ₃ /D.I. W	
dink		Hand Pump In-line Filter			Potable Wate	
Ш		Press/Vac Filter			L Dupo	sible NBY
					O-mal-	Observations
	PID: Ambient Air	ppm Well Mouth	ppm Purge	Data Collected	_In-line 🖳 Turl	Observations: bidClearCloudy
lysis Data		1500	1505	w-mataza-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-	_In ContainerCole	
sis	Purge Data				Gal. @	Gal. @Gal.
	Temperature, Deg. C pH, units	14.9	19 Colle	4	***************************************	
Field Ana	Specific Conductivity (μι Turbidity (NTUS)					
Fiel	Oxidation - Reduction, +	/- mv				
	Dissolved Oxygen, ppm	0.48		AND THE PROPERTY OF THE PROPER		
	Analytical Parameter	✓ If Sample Pre	eservation	Volume	Sample Bottle II	ot Nos
S	Analytical Falameter		Method	Required	oumple Bottle It	20(1403)
Sample Collection Requirements (< If Required at this Location)	VOCs	-	°C	2x40 ml	2004 A 20	
iren tion)	SVOCs Inorganics		°C N0₃,4°C	2x1 liter AG 1x1 liter P		
on Requirer at this Location)	Cyanide Nitrate/Sulfate	N. H	aOH,4°C _S0_,4°C	1x500ml P 1x1 liter P	•••	
r His	Nitrate/Phosphate Pest/PCB		ၙS0ၙ [°] ,4°C ၙS0ၙ [°] ,4°C °C	1x1 liter P 3x1 liter AG		
ctio ed at	TPH	Н	,S0,,4°C	2x1 liter AG		
olle equir	TOC	n	2S0, ,4°C	1x1 liter P		
ole Collecti (/ If Required	Notes:					
dm '						FIGURE 4-14
Sa			automotop-sys			E DATA RECORD
			NYSDE	C QUALITY		PROGRAM PLAN
L				Devent and the second s	Hardii	ng Lawson Associates——

		ONLY WITH PROPERTY OF THE PARTY			ATA RECORD	
		C PSA-6			Tober Break 10/18/01	fast House
P	roject Number: 534	78-2			art:	
S	ample Location ID: T 🛚	RUGGTO	2601E		of Sampler:	
	ampro Location, 12.[[1]3		2001			
	Well DepthFt.	Measured Historical	Top of V Top of P	Vell Well Rise Protective (from grou	r Stick-upFt. und)	ProtectiveFt. Casing/Well Difference
			Casing			ProtectiveFt.
Water Level/Well Data	~~	Pirer	Well bocked?: —Yes —No			Casing
Vell	Depth to WaterFt.	Well Material:	Well Locked?:	Well Dia.	2 inch 4 inch	Water Level Equip, Used:Elect. Cond. Probe
lel/V		PVC SS	No	Tol.	6 inch	Float Activated
Lev						Press. Transducer
ater		16 Gal/Ft. (2 in.) -	Gal/Vol.	Well Integrity:	Yes No
3	Height of Water Column 2		.) =		Prot. Casing Secure Concrete Collar Intac	ALCOHOL MANAGEMENT AND
	T. C.	Gal/Ft. (in		Total Gal Purged	Other	
In the second second						
5	Purging/S	Sampling Equipment (Used:		Decontaminati	ion Fluids Used:
Equipment Documentation	(✓ If Used For)	1				
neu	Purging Sampling	D 1 1 1 1 1 D	Equipment		(✓ All That Apply at L	
cun	& \(\sum_{\overline{\chi}}\)	Peristaltic Pump Submersible Pump				nol/75% ASTM Type II water
t Do	<u>k</u> <u>E</u>	Bailer PVC/Silicon Tubing			Deionized V Liquinox So	
neu		Teflon/Silicon Tubing	g		Hexane HNO ₃ /D.I. V	Vater Solution
lipin		Hand Pump In-line Filter			Potable Wa	
Eq		Press/Vac Filter			X Dispo	osible tubing
Charles and construct a believe to						
	PID: Ambient Air 🔥	_ppm Well Mouth 🛭	VA ppm Pu	rge Data Collected	_In-line 🏖 Tu	e Observations: rbid Clear Cloudy
lysis Data		1515			In ContainerCo	
sis	Purge Data				Gal, @	Gal. @Gal.
	Temperature, Deg. C pH, units	13.8	Coll		And delication of the second o	
Field Ana	Specific Conductivity (μ Turbidity (NTUS)	mhos/cm) 0,65°				Appropriate and the second
Fie	Oxidation - Reduction, - Dissolved Oxygen, ppm	-/- mv 				
	Dissolved Oxygen, ppn					
***************************************	Analytical Parameter	✓ If Sample F	Preservation	Volume	Sample Bottle	ILot Nos.
ıts		Collected	Method	Required		
mer	X VOCs SVOCs	*	4°C 4°C	2x40 ml 2x1 liter AG		
zire	Inorganics Cyanide		HN0 ₃ ,4°C NaOH,4°C	1x1 liter P 1x500ml P		
S Loc	Nitrate/Sulfate		H_S0_,4°C	1x1 liter P		
at this	Nitrate/Phosphate Pest/PCB		H ₂ S0 ₄ ,4°C 4°C	1x1 liter P 3x1 liter AG		
ection irred	TPH TOC		H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C	2x1 liter AG 1x1 liter P		
ole Collection Requirer	i _n . T		2 4			
Sample Collection Requirements (<pre></pre> (<pre></pre> (<pre></pre> <pre>Location)</pre>	Notes:		- 4-4			
amk					MATED CARDI	FIGURE 4-14
S			NIVCI			E DATA RECORD PROGRAM PLAN
L			14121	XUALIII		ing Lawson Associates

		E-SHOWS SHOW TO SHOUTH A SHALL SHOW	DESCRIPTION OF STREET STREET, STREET STREET, S	LOCAL CONTROL AND PROPERTY OF THE PARTY OF T	ATAMECORD **	
1	oject: NYSDEC			- ·	Topet Break	
Pr	roject Number:5	3798		Date: Time: Sta		End: 17/0
	and I and in ID.				of Sampler: Ch	- 1
56	ample Location ID:	18 WO 0 4 0	1601 F	Signature	or Sampler. <u>Sou</u>	
	Well DepthFt	Measured Historical	Top of V	Protective (from grou	Stick-upFt.	ProtectiveFt. Casing/Well Difference
Data		Pirect b	Casing			ProtectiveFt. Casing
Water Level/Well Data	Depth to Water Ft	Well Material: PVC SS	Yes J. No	Well Dia.	2 inch 4 inch 6 inch	Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column Ft.	16 Gal/Ft. (2 ir X65 Gal/Ft. (4 ir 1.5 Gal/Ft. (6 ir Gal/Ft. (i	n.) = n.)	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intact Other	
tion	Purging/	Sampling Equipment	Used:		Decontamination	on Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubir Airlift Hand Pump In-line Filter Press/Vac Filter		ID	Deionized W Liquinox Solt Hexane HNO ₃ /D.I. W Potable Wate None	00%) ol/75% ASTM Type II water ater ution /ater Solution
Data	PID: Ambient Air M	1700	17	/	_In-lineTurt _In ContainerCold	ored Odor
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (I Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, ppr	+/- mv	5.79 <u>Co</u>	llect	Gal. @	Gal. @Gal.
	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle II	_ot Nos.
ents	≥ vocs	7	4°C	2x40 ml		
ou)	SVOCs Inorganics		4°C HN0 ₃ ,4°C	2x1 liter AG 1x1 liter P		
qui ocat	Cyanide	***************************************	NaOH,4°C H ₂ SO ₄ ,4°C	1x500ml P 1x1 liter P	\$200 000 000 000 000 000 000 000 000 000	
Re L	Nitrate/Sulfate Nitrate/Phosphate		H₂S0₄,4°C	1x1 liter P		
tion d at t	Pest/PCB TPH		4°C H _s S0 ₄ ,4°C	3x1 liter AG 2x1 liter AG		
lec quire	TOC		Hॄ [°] S0₄,4°C	1x1 liter P		
Sample Collection Requirements (<pre>(</pre> (<pre>// If Required at this Location)</pre>	Notes: Solit somp	(/Dyn/ms/	nsis			
Samp			3 14 / 2			FIGURE 4-14 E DATA RECORD
			NYSI	JEC QUALITY		PROGRAM PLAN ng Lawson Associates—
					i iai uii	ing Lawoon / loodolatoo

		NAMES AND ADDRESS OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN		PLEFIELD DA		
	oject: NYIDEC		i de		obei Break	
Pr	oject Number: 53	978		Date:	10/18, t: 17/3	
						h the the
Sa	ample Location ID: T B	BMOOAC	2601F	x Signature o	or Sampler.	
-	Well DepthFt.	Measured Historical	Top of I Top of I * Casing	Protective (from groun	Stick-upFt. nd)	ProtectiveFt. Casing/Well Difference
Water Level/Well Data	Depth to WaterFt.	Well Material: PVC SS	Well Logisted?		2 inch 4 inch 6 inch	ProtectiveFt. Casing Water Level Equip. Used:Elect. Cond. ProbeFloat Activated
Water Lev	Height of Water ColumnFt.	16 Gal/Ft. (2 i X65 Gal/Ft. (4 i 1.5 Gal/Ft. (6 i Gal/Ft. (n.) = n.)	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Inta	act
ation		Sampling Equipmen	t Used:		Decontaminal	tion Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling Le L	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubin Teflon/Silicon Tubi Airlift Hand Pump In-line Filter Press/Vac Filter	g		Deionized V Liquinox So Hexane HNO ₃ /D.I. Potable Wa	100%) anol/75% ASTM Type II water Water olution Water Solution
Data	PID: Ambient Air D	1725	- 17		_In-linetı _In ContainerCo	
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, - Dissolved Oxygen, ppm	19,6 6,9 Lmhos/cm) 0,6 999	7 (a) 1 (b) 2 5	S Gal. @	Gal. @	Gal. @Gal.
S	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle	· ILot Nos.
Sample Collection Requirements (<pre></pre> (<pre>// If Required at this Location)</pre>	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	<u>X</u>	4°C 4°C HN03,4°C NaOH,4°C H,S04,4°C H,2S04,4°C H,2S04,4°C H,2S04,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG		
Sample Cc	Notes:		NYS		ASSURANCE	FIGURE 4-14 LE DATA RECORD E PROGRAM PLAN ding Lawson Associates——

				PLE FIELD DA		
	roject: NYSDEC- I				bes Break fast	House
Pi	roject Number: 53\$	78-2		Date: Time: Star	10/11/01	Ænd: 0845
			The second second		اه هاد.	// . / .
Sa	ample Location ID: T B	B W0050	1801F	Signature c	of Sampler:	of h ftes
_	Well DepthFt.	Measured Historical	Top of We Top of Pro Casing		Stick-upFt. nd)	ProtectiveFt. Casing/Well Difference
Water Level/Well Data	Depth to Water Ft.	Well Material:PVCSS	Well ockdd?:YesNo	Well Dia	4 inch 6 inch	ProtectiveFt. Casing Water Level Equip. Used:Elect. Cond. ProbeFloat Activated
Water Lev	Height of Water Column X Ft.	16 Gal/Ft. (2 in 65 Gal/Ft. (4 in 1.5 Gal/Ft. (6 in Gal/Ft. (ir	.) =	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac	
ntation	<u>Purging/S</u> (✓ If Used For)	ampling Equipment			Decontaminati	on Fluids Used:
Equipment Documentation	Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubin Airlift Hand Pump In-line Filter Press/Vac Filter	g Equipment IE		Deionized W Liquinox Sol Hexane HNO ₃ /D.I. W Potable Wat	00%) nol/75% ASTM Type II water /ater ution Vater Solution
lysis Data	PID: Ambient Air MA	626	089	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	In-line Tur In Container Col	
Field Analysis	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, + Dissolved Oxygen, ppm	mhos/cm) 11.8 6.33 0.76	Coll Sor	ut	Gal. @	Gal. @ Gal.
g	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle I	Lot Nos.
Sample Collection Requirements (< If Required at this Location)	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	\(\lambda\)	4°C 4°C HN0 ₃ ,4°C NaOH,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample Co	Notes:		NYSD		ASSURANCE	FIGURE 4-14 E DATA RECORD PROGRAM PLAN ng Lawson Associates

		embersen for darrange and description to the same and the same	MASHEIIAN	Bre Herd DV		
	roject: <u>VYSOFC</u> -				ober Break	fait House
Pr	oject Number: 53	498		Date:/	000	End: 0915
					t: <u>0650</u>	End: 0915
Sa	ample Location ID: T B	BN 0020	2604 F	Signature of	of Sampler:	KANTHERS
	Well DepthFt.	Measured Historical	Top of V Top of F Casing	Protective (from groun	Stick-upFt.	ProtectiveFt. Casing/Well Difference
Water Level/Well Data	Depth to WaterFt.	Well Material:PVCSS	Diwert boked?	Well Dia	2 inch 4 inch 6 inch	ProtectiveFt. Casing Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column >Ft.	16 Gal/Ft. (2 i <65 Gal/Ft. (4 i 1.5 Gal/Ft. (6 i Gal/Ft. (n.) = n.)	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	
itation	Purging/S (✓ If Used For)	ampling Equipment	: Used:		Decontaminati	on Fluids Used:
Equipment Documentation	Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubi Airlift Hand Pump In-line Filter Press/Vac Filter]		Deionized W Liquinox Sol Hexane HNO ₃ /D.I. V Potable Wat None	00%) nol/75% ASTM Type II water /ater ution Vater Solution
ata	PID: Ambient Air M	_ppm Well Mouth		rge Data Collected	_In-line _ ∑ o⊤ur	Observations: bidClearCloudy loredOdor
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, 4 Dissolved Oxygen, ppm	10, 6 6, 8 mhos/cm)	Ser Col	Gal. @	Gal. @	Gal. @Gal.
S	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle I	Lot Nos.
Sample Collection Requirements (< If Required at this Location)	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	<i>x</i>	4°C 4°C HN0 ₃ ,4°C NaOH,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C 4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample C	Notes:		NYSI		ASSURANCE	FIGURE 4-14 E DATA RECORD PROGRAM PLAN ing Lawson Associates—

	ending to the Second		TERSAMPL		TA RECORD	
Pr	oject: VYIDEC-Y	25A-6			ober Breaklest	
Pr	roject Number: 53%	78	1 127	Date:		End: //30
	annie Leastien ID	7	and IXIX		of Sampler:	16 12
58	ample Location ID:	MOO 8 OF	2101FX	_ Signature c	or Sampler.	NIC July
_	Well DepthFt.	Measured Historical	Top of Well Top of Prote Casing		Stick-upFt. nd)	ProtectiveFt. Casing/Well Difference
Water Level/Well Data		<u> </u>	o o	<u>.</u>		ProtectiveFt. Casing
	Depth to Water Ft.	Well Material: PVC SS	No No	Well Dia.	2 inch 4 inch 6 inch	Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column >Ft.	16 Gal/Ft. (2 in.) (65 Gal/Ft. (4 in.)1.5 Gal/Ft. (6 in.) Gal/Ft. (in.)	=	_Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intact Other	Yes No
tion	Purging/S	Sampling Equipment Us	sed:		Decontaminatio	on Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID		Deionized Walling Solution Sol	0%) J/75% ASTM Type II water ater ution ater Solution
Data	PID: Ambient Air MA	1115	1120	<u>, </u>	In-line Turb In Container Colo	oredOdor
Analysis Data	Purge Data Temperature, Deg. C pH, units	12.5	Gal. @ 1.00 Colle SAM	ch	Gal. @	Gal. @Gal.
Field Ana	Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, 4 Dissolved Oxygen, ppm	-/- mv ===================================				
S	Analytical Parameter		eservation Method	Volume Required	Sample Bottle IL	ot Nos.
Jent .	X ∕VOCs		°C	2x40 ml		
iren tion)	SVOCs Inorganics		°C IN0₃,4°C	2x1 liter AG 1x1 liter P		
equi	Cyanide Nitrate/Sulfate	N	laOH,4°C I_S0_,4°C	1x500ml P 1x1 liter P		
This I	Nitrate/Phosphate	ļ-	Î ² S0 ¹ ,4°C °C	1x1 liter P 3x1 liter AG		
ctior ed at	Pest/PCB		I _s S0 ₄ ,4°C	2x1 liter AG		
Sample Collection Requirements (/ If Required at this Location)	· _ TOC		l ₂ S0	1x1 liter P		
Se C	Notes: Silty soil	A	21' - could	!		
amk	* collect of the	ite split				FIGURE 4-14
S	A STATE OF THE STA	T. F. F. F. F.	NIVEDE			E DATA RECORD PROGRAM PLAN
	ender maakke val misk van peksoon vergisch die mijkliche de voordinge volge gegeleer op die er 1944-1950 (1950 1958 1958 1958 1958 1958 1958 1958 1958		NISDE	O GUALIII		ng Lawson Associates

		A CONTRACT OF THE PARTY OF THE		14:11:20:21:40:20:20:20:20:20:20:20:20:20:20:20:20:20	ATA RECORD	
	oject: <u>To bei -</u>				Tobes 10/19/01	
Pr	oject Number:	178		Date: Time: Sta		Ęnd: 13.15
						UK Sees
Sa	ample Location ID: T 5	BW0070	2301F	Signature	of Sampler:	WC/265
	Well DepthFt.	Measured Historical	Casing	Protective (from gro	r Stick-upFt. und)	ProtectiveFt. Casing/Well Difference ProtectiveFt.
Water Level/Well Data	Depth to WaterFt.	Well Material: PVC SS	Well Locked? ——Yes ——No	Well Dia.	2 inch 4 inch 6 inch	Casing Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column >Ft.		n.) = n.)	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	ot
ation		Sampling Equipmen	t Used :		Decontaminat	ion Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling / / / / // / // / // / // / // / //	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubin Teflon/Silicon Tubi Airlift Hand Pump In-line Filter Press/Vac Filter	g		Deionized V Liquinox So Hexane HNO ₃ /D.I. \ Potable Wa None	00%) nol/75% ASTM Type II water Vater slution Water Solution
Data	PID: Ambient Air 🕢 🛦	Joo	· 13c		In-line	oloredOdor
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, - Dissolved Oxygen, ppm	+/- mv	Co.	S Gal. @	Gal. @	Gal. @Gal.
v)	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle	ILot Nos.
Sample Collection Requirements (/ If Required at this Location)		<i>X</i>	4°C 4°C HN0 ₃ ,4°C NaOH,4°C H,S0 ₄ ,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C H ₂ S0 ₄ ,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample Co	Notes:		NYS		Y ASSURANCE	FIGURE 4-14 E DATA RECORD PROGRAM PLAN ling Lawson Associates—

		entrate a real contract of the California Andrews		7	TA RECORD	
1	roject: <u>NYSDEC- 1</u>				1 1	7
19	roject Number: 53	798			t: 1320	End: 1705
Si	ample Location ID:	KW0080	1701F.			Rhat
					,	
	Well DepthFt.	Measured Historical	Top of We Top of Pro Casing		Stick-upFt. nd)	ProtectiveFt. Casing/Well Difference
Water Level/Well Data		Brul				ProtectiveFt. Casing
	Depth to WaterFt.	Well Material: PVC SS	Well Locked?:No	Well Dia.	2 inch 4 inch 6 inch	Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water L	Height of Water Column) Ft.	16 Gal/Ft. (2 in <65 Gal/Ft. (4 in 1.5 Gal/Ft. (6 in Gal/Ft. (ir	.) =	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	
tion	Purging/S	Sampling Equipment	Used:		<u>Decontaminati</u>	on Fluids Used:
Equipment Documentation	(If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubin Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID	 	Deionized W Liquinox Sol Hexane	20%) ASTM Type II water value
Jata	PID: Ambient Air	1355	1400		_In-line	Observations: bidClearCloudy loredOdor
lysis Data	Purge Data					Gal. @ Gal.
	Temperature, Deg. C pH, units	15,6	Colle	et scroli	clur	
Field Ana	Specific Conductivity (μ Turbidity (NTUS)	mhos/cm) 0.69	<u>, </u>			
E E	Oxidation - Reduction, + Dissolved Oxygen, ppm	⊦/- mv				
				COMMAND TO SERVICE AND THE SER	A south and the second	
S	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle I	Lot Nos.
nent	XVOCs	علم	4°C 4°C	2x40 ml 2x1 liter AG		
irer ation)	SVOCs Inorganics		HN0 ₃ ,4°C	1x1 liter P		
jedn	Cyanide Nitrate/Sulfate		NaOH,4°C H_S0_,4°C	1x500ml P 1x1 liter P		
at this	Nitrate/Phosphate Pest/PCB		H ₂ SO ₄ ,4°C 4°C	1x1 liter P 3x1 liter AG		
ection in the second se	TPH TOC		H₂S0₄,4°C H₂S0₄,4°C	2x1 liter AG 1x1 liter P		
Sample Collection Requirements (<pre>(</pre> <pre>(</pre> If Required at this Location)	%.₹ - • • • • • • • • • • • • • • • • • • •	Action and the second s				
ple ∑	Notes:		Approximately Addition			EIGHDE 4 14
Sam			and the state of t			FIGURE 4-14 E DATA RECORD
			NYSD	EC QUALITY		PROGRAM PLAN
L		and the state of t			Hardi	ing Lawson Associates——

	. 6.46			AND DESCRIPTION OF THE PROPERTY OF THE PARTY	ATA RECORD	
	roject: MYSDEC-				Tobes	
Р	roject Number: <u>534</u>	98-2			rt: 1905	End: 1430
				Cimpeture	of Sampler:	
S	ample Location ID:	BROOBO	2601F	x Signature	or sampler.	Were str.
1	Well DepthFt.	Measured Historical	Top of W Top of P Casing		r Stick-upFt. und)	ProtectiveFt. Casing/Well Difference
ata			•			ProtectiveFt.
Water Level/Well Data	Depth to Water Ft.	Well Material: PVC SS	Well Locked2: Yes No	Well Dia.	2 inch 4 inch 6 inch	Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
	Height of Water Column)	16 Gal/Ft. (2 ir X65 Gal/Ft. (4 ir 1.5 Gal/Ft. (6 ir Gal/Ft. (ir	i.) = i.)	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	Yes No
tion	Purging/S	Sampling Equipment	Used :		Decontamination	on Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubin Airlift Hand Pump In-line Filter Press/Vac Filter			Deionized W Liquinox Sol Hexane HNO ₃ /D.I. W Potable Wat	00%) ol/75% ASTM Type II water /ater ution Vater Solution
Field Analysis Data	PID: Ambient Air Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, - Dissolved Oxygen, ppm	# 1 7 20 @ 0.5 # 7.05 # 7.05 # 7.05 # 7.05 # 7.05 # 7.05	Gal. @ 0.	65 Gal. @	In-line	Observations: bidClearCloudy oredOdor Gal. @Gal.
s	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle I	Lot Nos.
Sample Collection Requirements (< If Required at this Location)	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	<u>&</u>	4°C 4°C HN0,,4°C NaOH,4°C H,S0,4,4°C H,S0,4,4°C 4°C H,S0,4,4°C H,S0,4,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample (<			NYSI		ASSURANCE	FIGURE 4-14 E DATA RECORD PROGRAM PLAN ing Lawson Associates——

	GROUNDWATER SAMPLI	
	roject: NYIDEC - ISA roject Number: 53498-2	Site: 10/19/01
''	oject Number.	Time: Start: 1515 End: 1540
Sa	ample Location ID: TBBW00902201FX	Signature of Sampler:
1	Well DepthFtMeasuredTop of WellTop of Protect	Well Riser Stick-upFt. ProtectiveFt.
Water Level/Well Data	Depth to Water Ft. Well Material:PVC SS No	Well Dia2 inch
Water Le	16 Gal/Ft. (2 in.) Height of Water Column X65 Gal/Ft. (4 in.) = Ft1.5 Gal/Ft. (6 in.)T	Gal/Vol. Well Integrity: Yes No Prot. Casing Secure Concrete Collar Intact Other
Equipment Documentation	Purging/Sampling Equipment Used: (/ If Used For) Purging Sampling Equipment ID Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Decontamination Fluids Used: (✓ All That Apply at Location) Methanol (100%) 25% Methanol/75% ASTM Type II waterDeionized WaterLiquinox SolutionHexaneHNO₃/D.I. Water SolutionPotable WaterNone
Field Analysis Data	1220 1236	_Gal. @Gal. @GalGal.
(0	Analytical Parameter ✓ If Sample Preservation Collected Method	Volume Sample Bottle ILot Nos. Required
Sample Collection Requirements (//linearing (///linearing	X	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P 7-22 b33 FIGURE 4-14
Saı		GROUNDWATER SAMPLE DATA RECORD C QUALITY ASSURANCE PROGRAM PLAN Harding Lawson Associates

		WETHER THE STREET STREET, STRE	The state of the s		TA RECORD	
	roject: NYSDE				1 11-11	KFAST House
Pr	roject Number:\$	3778-2	\$100 ATT ATT ATT ATT ATT ATT ATT ATT ATT A			End: 1630
	ample Leastion ID:		1 - 1 - 1		of Sampler:	RILDE
00	ample Location ID: T 🛭	RWOIGO	1 4014	e Olginature c	or Gampier.	
	Well DepthFt	Measured Historical	Top of We		Stick-upFt. nd)	ProtectiveFt. Casing/Well Difference
ata			Casing			ProtectiveFt.
Water Level/Well Data	Depth to WaterFt	Well Material: PVC SS	Well-Eocked?:) ——Yes ——No	Well Dia.	2 inch 4 inch 6 inch	Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column	16 Gal/Ft. (2 in.) X65 Gal/Ft. (4 in.)1.5 Gal/Ft. (6 in.) Gal/Ft. (in.)) =	Gal/Vol. _Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	
tion	Purging/	Sampling Equipment L	Ised:		<u>Decontamination</u>	on Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID	- - - - -	Deionized W Liquinox Sol Hexane HNO ₃ /D.I. W Potable Wat None	00%) ol/75% ASTM Type II water /ater ution /ater Solution
lysis Data	PID: Ambient Air NA	1620] 62 Gal. @_ <i>O</i> .60	2Gal. @		oredOdor
Field Analys	Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, ppr	+/- mv 2.69		rph		
S	Analytical Parameter	✓ If Sample F Collected	reservation Method	Volume Required	Sample Bottle I	Lot Nos.
Sample Collection Requirements (< If Required at this Location)	∠ VOCs	E	4°C	2x40 ml		
irer tion)	SVOCs Inorganics		4°C HN0 ₃ ,4°C	2x1 liter AG 1x1 liter P		
ole Collection Requiren	Cyanide Nitrate/Sulfate		NaOH,4°C H_S0_,4°C H ₂ S0 ₄ ,4°C	1x500ml P 1x1 liter P		
n B this	Nitrate/Phosphate Pest/PCB		Hᢩ͡SO̞͡,4°C 4°C	1x1 liter P 3x1 liter AG		
itio	TPH	AND	H ₂ S0 ₄ ,4°C	2x1 liter AG		
JIEC Adulte	TOC		H ₂ S0 ₄ ,4°C	1x1 liter P		
S E	Notes:					
े चू						FIGURE 4-14
San	-			GROUNDW	ATER SAMPI	E DATA RECORD
0,			NYSDI			PROGRAM PLAN
						ng Lawson Associates

D.	alast 4/45.056		TER SAMPLE		AREGORD &	
Pr Pr	oject: <i>NYSDEC -</i> oject Number:	53498		Date:	4 - 1 - 1	lest Mouse
	,			Time: Start:		End: 1700
Sa	mple Location ID: T B	BWOIDER	(60) FX	Signature of	Sampler:	lh low
	Well DepthFt.	Measured Historical	Top of WellTop of Protect Casing		ick-upFt.	ProtectiveFt. Casing/Well Difference ProtectiveFt.
Water Level/Well Data	Depth to WaterFt.	Well Material:PVCSS	Well-Locked — Yes — No	Well Dia	4 inch 6 inch	Casing Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water Column X	16 Gal/Ft. (2 in.) (65 Gal/Ft. (4 in.) 1.5 Gal/Ft. (6 in.) Gal/Ft. (in.)	- T	Gal/Vol.	Well Integrity: Prot. Casing Secure Concrete Collar Intact Other	
tion	Purging/S	ampling Equipment Us	sed:		Decontaminatio	on Fluids Used:
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID	(,	Deionized Wa Liquinox Solu Hexane HNO ₃ /D.I. W Potable Wate	0%) ol/75% ASTM Type II water ater ution 'ater Solution
lysis Data	PID: Ambient Air NA	1640	1645		n-lineTurb n ContainerCold	
Field Analysis	Temperature, Deg. C pH, units Specific Conductivity (μι Turbidity (NTUS) Oxidation - Reduction, + Dissolved Oxygen, ppm	15. 9 7.08 7.08 mhos/cm) 6699	Collect			
S	Analytical Parameter		eservation Method	Volume Required	Sample Bottle IL	ot Nos.
Sample Collection Requirements (//linearing-right (//inearing-right	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	4 	°C IN0 ₃ ,4°C IaOH,4°C I ₂ S0 ₄ ,4°C I ₂ S0 ₄ ,4°C °C I ₂ S0 ₄ ,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample C	Notes:				ASSURANCE I	FIGURE 4-14 E DATA RECORD PROGRAM PLAN ng Lawson Associates——

			LANZ OF THE A. SECTION	PLE FIELD DAT		
	oject: <u>NYSDEC-</u>			4 . 4		
Pr	oject Number: 5	3501				
				Time: Start:	0823	End: <u>0850</u>
Sa	ample Location ID: 🏲 🕻	BWOIIO	1501 X	Signature of	Sampler: <u>Ck</u>	Nr Nogr
	Well DepthF	tMeasured Historical	Top of V Top of F Casing	Protective (from ground	tick-upFt.	ProtectiveFt. Casing/Well Difference
Water Level/Well Data	Depth to WaterF	t. Well Material:PVCSS	Well Locked?	reconst	2 inch 4 inch 6 inch	Protective Ft. Casing Water Level Equip. Used:Elect. Cond. ProbeFloat Activated
Water Leve	Height of Water Column Ft.	16 Gal/Ft. (2 in	1.) =	Gal/Vol. Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	Press. Transducer Yes No
iai no no	<u>Purging</u> , (✓ If Used For)	Sampling Equipment	<u>Used</u> :	at microssy construente et translation in the construence en const	Decontaminat	ion Fluids Used:
Equipment Documentation	Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubin Airlift Hand Pump In-line Filter Press/Vac Filter			Deionized V Liquinox So Hexane HNO ₃ /D.I. V Potable Wa	00%) nol/75% ASTM Type II water Vater ulution Water Solution
lysis Data	PID: Ambient Air Purge Data	@ _0,20 @ 0,20	<u> </u>	75 Gal. @	In-line	Gal. @Gal.
Field Analy	Temperature, Deg. C pH, units Specific Conductivity (Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, ppi	+/- mv	Coll So		ov - Na p	ump on tolt to
Ñ	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle	ILot Nos.
Sample Collection Requirements (//linearing-niced	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	<i>Y</i>	4°C 4°C HN0 ₃ ,4°C NaOH,4°C H,50,4°C H,20,4°C 4°C 4°C H,50,4°C H,20,4°C H,20,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		
Sample C	Notes:		NYSI		ASSURANCE	FIGURE 4-14 LE DATA RECORD PROGRAM PLAN ing Lawson Associates——

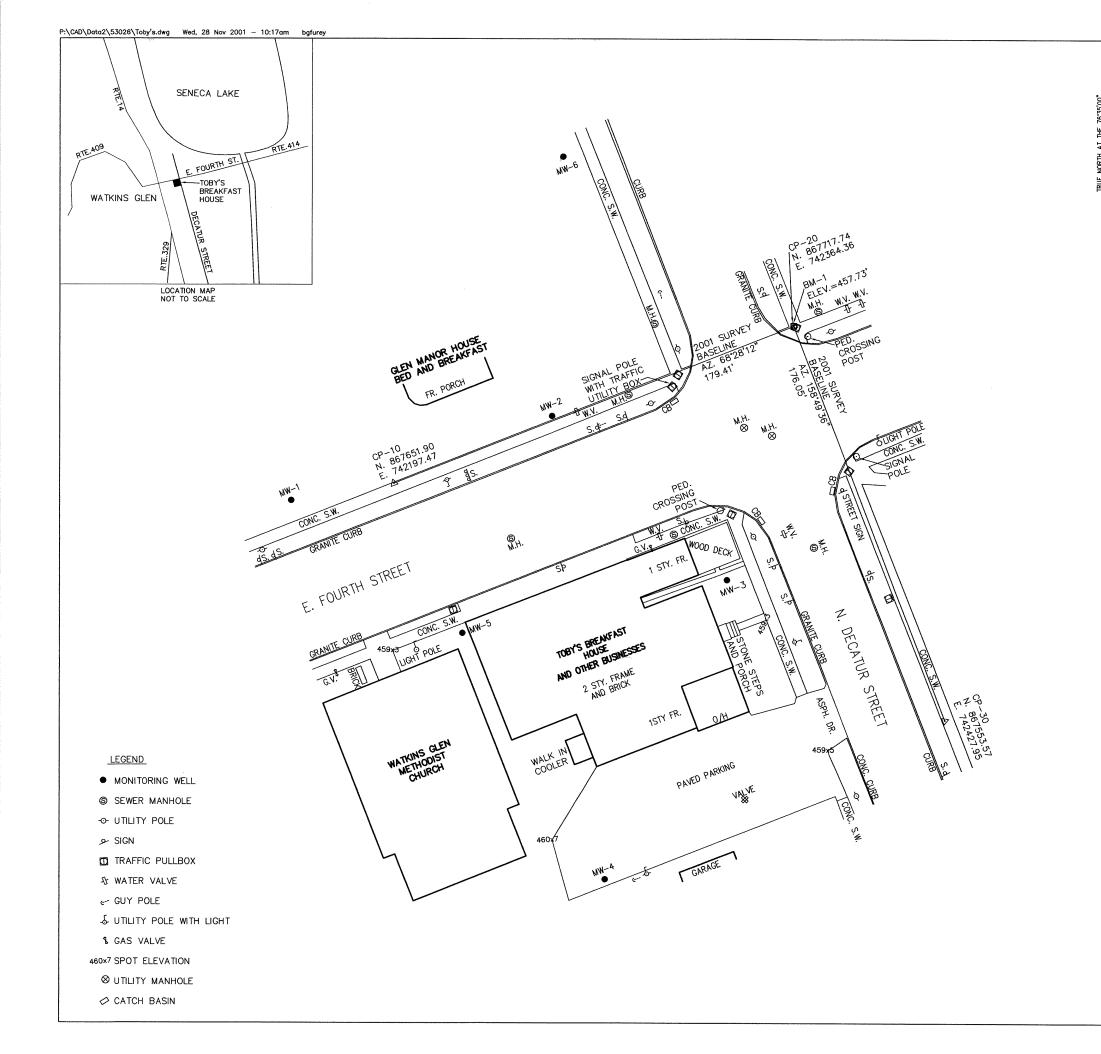
1.0				E FIELD DATA	eriste table terrativa in the linear experience and a selected differentials.	
		-PSAG			. /	
Pi	roject Number: 535	- 01		Date: 14		End: 1040
	amoula I anation ID:	9:101901		7	- /	Il Ixa
58	ample Location ID: TB	BM011201	601122	Signature of S	sampier:	1 caroge
\	Well DepthFt.	Historical	Top of Well		ck-upFt.	ProtectiveFt. Casing/Well Difference
ata	Pireu	t Push	Casing ———			ProtectiveFt.
Water Level/Well Data	Depth to Water Ft.	Well Material:PVCSS	Well Locked2:YesNo	Well Dia.	_2 inch _4 inch _6 inch	Water Level Equip. Used:Elect. Cond. ProbeFloat ActivatedPress. Transducer
Water	Height of Water ColumnFt.	16 Gal/Ft. (2 in.) X65 Gal/Ft. (4 in.)1.5 Gal/Ft. (6 in.) Gal/Ft. (in.)	1	Р	/ell Integrity: rot. Casing Secure concrete Collar Intact ther	
tion	Purging/S	Sampling Equipment Us	ed:	ALL MACHINE STATE OF THE STATE	Decontaminatio	on Fluids Used:
Equipment Documentation	(✓ If Used For) Purging Sampling ———————————————————————————————————	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID		Deionized Walling Solution Liquinox Solution Hexane HNO ₃ /D.I. Walling Potable Wate None	0%) bl/75% ASTM Type II water ater ution ater Solution
Data	PID: Ambient Air	ppm Well Mouth	/03	<u> </u>	line <u>F</u> Turk Container Colo	oredOdor
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, - Dissolved Oxygen, ppm	mhos/cm)				Gal. @Gal.
s,	Analytical Parameter	•	eservation Method	Volume Required	Sample Bottle IL	Lot Nos.
Jen .	y ∨OCs	<u>></u> 4°		2x40 ml		
ren	SVOCs Inorganics		°C N0₃,4°C	2x1 liter AG 1x1 liter P		
qui	Cyanide Nitrate/Sulfate	N.	aOH,4°C ,S0, ,4°C	1x500ml P 1x1 liter P		
Re L	Nitrate/Phosphate	Н	[S0],4°C	1x1 liter P		
tion datt	Pest/PCB TPH		°C ,S0,,4°C	3x1 liter AG 2x1 liter AG		
lect duire	_ TOC	Н	₂ S0 ¹ ,4°C	1x1 liter P		
Sample Collection Requirements (< If Required at this Location)	Notes: Golfand	were Nod	upe CRS			
) ple	TBBW020	1601XX P	1900			CICUDE 4 44
Sam	Sample 16-18 by			CROHNDWA	TER CAMPI	FIGURE 4-14 E DATA RECORD
,			NYSDE			PROGRAM PLAN
Ľ			111 VI/I	www.imili /I		ng Lawson Associates

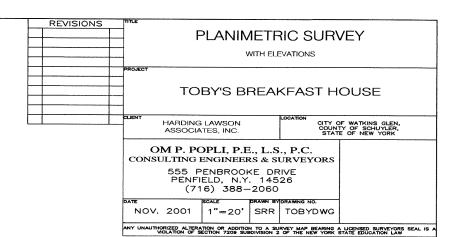
		MIDNE THE WINDS CONTROL WERE HER TAKEN WITH THE PROPERTY WAS AN ADDRESS OF	TER SAMPLE	ediele (1915) dem ekter iterktill i ker wedstell bee	COLUMN TANAHAM TANAHAMAM TANAHAM TANAH	RD	
	oject: NYSDEC			Site:	,		
Pr	oject Number: 53	5.01		Date: Time: Start		End: 1/-	50
0,	ample Location ID	2101201			f Sampler: _	0 11 1	
56	ample Location ID: T B	DIMIOI 13 10 11	161011X15	Signature o	i Sampler	CAMP Bress	
	Well DepthFt.	Measured Historical	Top of WellTop of Protectiv Casing		Stick-up d)	_Ft. Protective Casing/Well [
Data		Rush				Protective Casing	Ft.
Water Level/Well Data	Depth to WaterFt.	Well Material:PVCSS	Well-Locked?:YesNo	21e _	2 inch 4 inch 6 inch	Water Level EElect. CoFloat ActiPress. Tr	nd. Probe vated
Water	Height of Water Column X	16 Gal/Ft. (2 in.) 65 Gal/Ft. (4 in.) 1.5 Gal/Ft. (6 in.) Gal/Ft. (in.)	=Ga		Well Integrity: Prot. Casing S Concrete Colla Other	Secure	No
tion	Purging/S	ampling Equipment Us	ed:		Deconta	mination Fluids Used	
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID		25% I Deion Liquir Hexal HNO Potab	anol (100%) Methanol/75% ASTM Traized Water nox Solution ne g/D.I. Water Solution ole Water	
Data	PID: Ambient Air <u>MN</u>	1130	1140		In-line In Container		
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µr Turbidity (NTUS) Oxidation - Reduction, +. Dissolved Oxygen, ppm	999	Gal. @ 0.30 G Collect Sample			Gal. @	
S	Analytical Parameter			Volume Required	Sample l	Bottle ILot Nos.	
Sample Collection Requirements (//linearing (//linearing	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	Na H	C 2x N0_3,4°C 1x aOH,4°C 1x S0_4,4°C 1x S0_4,4°C 1x S0_4,4°C 1x S0_4,4°C 2x S0_4,4°C 2x S0_4,4°C 1x	440 ml 11 liter AG 11 liter P 1500ml P 11 liter P 11 liter P 11 liter AG 11 liter AG 11 liter AG 11 liter P			
Sample C	Notes: Dryllw-s DTW-11.9' - Colled Drylude	TBBW020 @ 1600	G	ROUNDW	ATER SAI ASSURAN	FIGUI MPLE DATA RI NCE PROGRAM Harding Lawson A	/I PLAN

D	roject: <u>VYSDEC - PS/</u>	OF THE REST WE ASSESSED THAT THE PARTY HERE IN THE PROPERTY OF THE PARTY HERE IN THE	TER SAMPLE	Site: TOIS	CHANGE CONTRACTOR OF THE PROPERTY OF STREET		
	roject Number: 53	201		Date: 11	11/01		
				Time: Start: _		End: <u> 400</u>	
S	ample Location ID:	BW011401	601Xx	Signature of S	ampler: _ (L	1 - New	
_	Well DepthFt.	Historical	Top of Well		k-up Ft.	ProtectiveFt. Casing/Well Difference	
Data	Ph	Well Material: PVC				ProtectiveFt	
Water Level/Well Data	Depth to Water Ft.	Well Material: PVC SS	Well Locked?:YesNo		2 inch 4 inch 6 inch	Water Level Equip. UseElect. Cond. ProbeFloat ActivatedPress. Transducer	Э
Water	Height of Water Column) ————Ft.	16 Gal/Ft. (2 in.) (65 Gal/Ft. (4 in.) 1.5 Gal/Ft. (6 in.) Gal/Ft. (in.)	=	Pr Co	ell Integrity: ot. Casing Secure oncrete Collar Intact ther	Yes No	
ion	<u>Purging/S</u>	Sampling Equipment Use	<u>ed</u> :		Decontaminatio	n Fluids Used:	
Equipment Documentation	(/ If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID		Deionized Wa Liquinox Solu Hexane HNO ₃ /D.1. Wa Potable Wate None)%) 1/75% ASTM Type II wat tter tion ater Solution	ter
Field Analysis Data	PID: Ambient Air Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, - Dissolved Oxygen, ppm	mhos/cm) 7.6 6.83 0.95 2.60	_ppm Purge Da /355 Gal. @ 0.75 Called Sample		ineTurb ContainerColoGal. @	_ Odor _ Gal. @ Ga	
s,	Analytical Parameter	•	servation Method	Volume Required	Sample Bottle IL	ot Nos.	kaji kan kirakan (Kr
Sample Collection Requirements (< If Required at this Location)	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	Na H ₂ 4ºl	C 2 NO,,4°C 1 AOH,4°C 1 SO,,4°C 1 SO,,4°C 1 C 3 SO,,4°C 2	xx40 ml xx1 liter AG xx1 liter P x500ml P xx1 liter P xx1 liter P xx1 liter AG xxx1 liter AG xxxx liter P			
Sample Co	Notes: DTW = 15.	0 b ₅₅			SSURANCE F	FIGURE 4-1 E DATA RECOR PROGRAM PLA	D N

		AND PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY	ATERSAM	PLE FIELD DAT		Section 1	
Р	roject: NYSDEC:	PSA-6	The state of the s				
P	roject Number:	3301			11/1/01	End: 1600	
				Time: Start:	and a	111 12	····
5	ample Location ID:	2M01120	11701X	Signature of	Sampler:		(COLON DECEMBRA)
ata	Well-DepthFi	Historical	Top of W Top of Pr Casing		tick-upFt. d)	ProtectiveFt. Casing/Well Difference ProtectiveFt	Э
Water Level/Well Data	Depth to WaterFt	The state of the s	Well Locked?:YesNo		2 inch 4 inch 6 inch	Water Level Equip. UseElect. Cond. ProbeFloat ActivatedPress. Transducer	Э
Water	Height of Water ColumnFt.	16 Gal/Ft. (2 in X65 Gal/Ft. (4 in 1.5 Gal/Ft. (6 in Gal/Ft. (ir	.) =	Tatal Cal Durana	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other		-
ntation	(✓ If Used For)	Sampling Equipment		martini da karangan da produkum da da da karangan da da karangan karangan karangan karangan karangan karangan		on Fluids Used:	
Equipment Documentation	Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubin Airlift Hand Pump In-line Filter Press/Vac Filter		 	Deionized W Liquinox Sol Hexane	00%) iol/75% ASTM Type II wa' atter ution Vater Solution er	ter
Field Analysis Data	PID: Ambient Air Purge Data Temperature, Deg. C pH, units	1530	Gal. @ 0.3	Gal. @	n-lineTur n ContainerCol	oredOdor Gal. @Ga 1. Hh Huw	7
Field A	Specific Conductivity (I Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, ppr	+/- mv			/ilej		- - -
ts	Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle I	Lot Nos.	
Sample Collection Requirements (< If Required at this Location)	VOCs SVOCs Inorganics Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC	<u> </u>	4°C 4°C HNO ₃ ,4°C NaOH,4°C H,SO ₄ ,4°C H ₂ SO ₄ ,4°C H ₂ SO ₄ ,4°C H ₂ SO ₄ ,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500ml P 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P			
Sample Cc	Notes: Samph 17	-201 bss	NYSD		ASSURANCE	FIGURE 4-1 E DATA RECOR PROGRAM PLA ng Lawson Associat	D N

APPENDIX F SITE LAND SURVEY



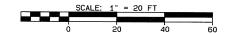


SURVEY NOTES:

- 1. HORIZONTAL LOCATIONS SHOWN HEREON ARE BASED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM AND DERIVED FROM STATION GPS 195, SET BY POPLI P.C. FOR THE NYSDOT IN 1996 UNDER P.I.N. 6802.40 ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) USING REAL TIME KINEMATIC GLOBAL POSITIONING PROCEDURES.
- VERTICAL LOCATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD'29) AND ARE DERIVED FROM GPS 195 AS STATED ABOVE.
- 3. ALL DISTANCES ARE GROUND HORIZONTAL DISTANCES.
- 4. PROJECT BENCHMARK:
 - BM-1 'X' CUT ON BOLT IN THE NORTHWEST CORNER OF A NYS TRAFFIC PULLBOX AT THE NORTHEAST INTERSECTION OF EAST FOURTH ST. AND NORTH DECATUR ST. ELEV.=457.74'
- 5. UTILITY LOCATIONS SHOWN WERE INFERRED FROM SURFACE EVIDENCE ONLY AND MAY NOT REFLECT AN ACCURATE SUBSURFACE POSITION.

MONITORING WELL TABLE

WELL	NORTHING	EASTING	ELEVAT	ION (FT.)
MW-1	867644.8	742154.6	459.0	GROUND
			458.86	RISER
MW-2	867680.0	742263.4	458.6	GROUND
			458.47	RISER
MW-3	867611.8	742336.7	459.8	GROUND
			459.71	RISER
MW-4	867487.1	742285.9	460.7	GROUND
			460.61	RISER
MW-5	867589.6	742226.2	459.4	GROUND
			459.26	RISER
MW-6	867788.1	742267.9	457.4	GROUND
			457.19	RISER



APPENDIX G

DATA USABILITY REPORT

- **G.1** On Site Analytical Data
- **G.2** Off Site Analytical Data

APPENDIX G

DATA USABILITY REPORT

G.1 On Site Analytical Data

APPENDIX G.1 DATA USABILITY SUMMARY REPORT 2001 SAMPLING EVENT ON-SITE FIELD SCREENING TOBE'S BREAKFAST HOUSE SITE NEW YORK

Introduction:

Soil and Groundwater samples were collected at the Tobe's Breakfast House site in October 2001 and submitted for on-site analytical laboratory analyses. Samples were analyzed for VOCs using the United States Environmental Protection Agency modified Method 8260. All soil samples were extracted in methanol prior to analysis. Results are reported on a wet weight basis. A summary of analytical results is presented in Tables G-1 and G-2.

A project chemist review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 1997). The project chemist review included evaluations for data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery) were applicable, and data qualification. A subset of laboratory results was qualified during the data review. The following qualifiers were used:

U = target analyte is not detected at the reported detection limit
 J = concentration is estimated
 N = presumptive evidence that compound exists

On-site sample analysis was completed by Buck Environmental Laboratories Inc., Cortland, New York. With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory.

VOLATILES

Instrument Calibration

Target compound chloroform was >20% relative standard deviation for the initial calibration on 101601 (B). All results for chloroform associated with this initial calibration were qualified as estimated (J).

Surrogates

Surrogate dibromofluoromethane was reported as 85% recovery (R) on the form 2 in package 101801 for sample TBBS00301401FX. The quantitation report shows dibromofluoromethane at 118%R. The discrepancy between the forms appears to be a transcription error. Both results are within the QC limits and no changes were made to the form 2.

Duplicates

Sample TBBS00600501FX had a reported tetrachloroethene result of 325 micrograms per kilogram (μ g/Kg). The associated field duplicate had tetrachloroethene reported at 629 μ g/Kg. The relative percent difference (RPD) was greater than 50% (64%RPD) and both results for tetrachloroethene were qualified as estimated (J). These results indicate that some variability in soil target compound results would be expected for the soil sample matrix.

Result Reporting

Positive detections of target compound chloroform were reported in several samples. Chloroform contamination in the method blanks and methanol blanks suggests the possibility of false positive results in the samples. The potential for chloroform contamination was discussed with the on-site analytical laboratory, and the laboratory indicated that they have had problems historically with chloroform contamination. Based on the QC blank, matrix spike, and additional information obtained from the lab, all positive detections of chloroform were qualified as "NJ". The N indicates the possibility that the chloroform detections in this data set are false positives.

Sample TBBS00301401FX had a chloroform result of 245 μ g/Kg reported on Table E-1. The sample quantitation report shows a chloroform result of 137.73, which is less than the adjusted practical quantitation limit (PQL) of 200. This was determined to be a transcription error, and the result was removed from Table E-1 and reported as <PQL.

Sample TBBS00600501FX had a tetrachloroethene result of 0.8 μ g/Kg reported on Table E-1. The PQL for tetrachloroethene is 1. The result was removed from Table E-1 and reported as <PQL.

ON-SITE/OFF-SITE COMPARISON

Split sample results obtained from the off-site analytical laboratory were compared to the

results of the on-site analytical laboratory. One soil split sample and four water split samples were collected. Sample results from the on-site analytical laboratory were compared to the results from the off-site analytical laboratory.

On-site soil sample results are based on wet weights. The PQL for the compounds listed below for on-site sample was $200 \,\mu g/Kg$. Trace concentrations of target compounds were reported in the off-site samples below the quantitation limit of the on-site samples. RPDs were not calculated if the on-site results were <PQL. Based on the limited data, the split samples show agreement for the absence of contamination at the project reporting limits.

Results for the aqueous samples show good qualitative agreement between the data sets with the detection of tetrachloroethene and other target compounds. The average RPD of detected results was 23, indicating good quantitative agreement between the laboratories. Based on these split results, on-site data is adequate for the assessment of contamination at the site.

Sample	Chemical name	Off- site		units	On- site		units	%RPD
TBBS00901301	Tetrachloroethene	28		ug/kg	<200	U	ug/kg	NC
TBBS00901301	Toluene	6	J	ug/kg	<200	U	ug/kg	NC
TBBS00901301	Xylene (total)	4	J	ug/kg	<200	U	ug/kg	NC
TBBW00201801	Tetrachloroethene	100	J	ug/l	93.1		ug/l	7
TBBW00301701	Tetrachloroethene	40	J	ug/l	28.7		ug/l	33
TBBW00401601	Tetrachloroethene	2.3		ug/l	2.6		ug/l	-12
TBBW00602101	Toluene	1.2		ug/l	1.5		ug/l	-22
TBBW00602101	Xylene (total)	3.4		ug/l	5.1		ug/l	-40

NC = not calculated

Reference:

New York State Department of Environmental Conservation (NYSDEC), 1995. "Analytical Services Protocols"; 10/95 Edition; October 1995.

New York State Department of Environmental Conservation (NYSDEC), 1997. "Guidance for the Development of Data Usability Reports"; Division of Environmental Remediation; September 1997.

APPENDIX G TABLE G-1 SOIL SAMPLE RESULTS ON-SITE ANALYTICAL LABORATORY

BUCK ENVIRONMENTAL LABORATORIES INC. ACCREDITED ENVIRONMENTAL ANALYSIS

3845 ROUTE 11 SOUTH, P.O. BOX 5150 CORTLAND, N.Y. 13045 607-753-3403 This laboratory analysis has been performed in accordance with generally accepted laboratory practices. Buck Environmental Laboratories, Inc. makes no recommendations, representations or warranties other than as specifically set forth in this report and shall not be responsible or liable for any action or the consequence of any action taken in connection with this report.

John H. Buck, P.F.

Laboratory Director

Client Information: Harding ESE Site:Tobe's Breakfast House

Contact: David M. Houston Site Contact: Chuck Staples

Address: PO Box 7050 Tel:

Portland, ME 04112 Fax:

Tel: 207-828-3429

Fax:

207-626-3429

Site. Tobe 3 Dieaklast House

Sampling Date: 10/18/01 Analysis Date: 10/18/01

Matrix: Soil

Method: Non-ELAP Field Screening by EPA 8260 Modified

rans-1,2-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane 1,1-Dichloroethene **Target Compounds Tetrachloroethene** 1,1-Dichloroethane 1,2-Dichloroethane Trichloroethene Dilution Factor Vinyl chloride Chloroethane Ethylbenzene m,p-Xylene Chloroform o-Xylene 107-06-2 Benzene Toluene 1330-20-7 79-01-6 75-35-4 108-88-3 100-41-4 95-47-6 127-18-4 156-59-2 156-60-5 67-66-3 71-43-2 75-34-3 71-55-6 75-01-4 200 200 200 200 200 200 120 200 400 200 200 200 200 200 200 PQL (ug/Kg)* 120 Sample ID: TBBS00101401FX 1.0 <PQL J <PQL <PQL <PQL TBBS00301401FX 1.0 <PQL J <PQL <PQL <PQL TBBS00401401FX 1.0 <PQL <PQL <PQL <PQL <PQL 379 <PQL <PQL <PQL <PQL <PQL <PQL <PQL J <PQL <PQL <PQL

J = Value listed is an estimated value.

^{* =} Results are reported on as-received wet-weight basis.

Preparation was 5 g soil in 10 g methanol diluted 1:100 in water.

APPENDIX G TABLE G-1 SOIL SAMPLE RESULTS ON-SITE ANALYTICAL LABORATORY

3845 ROUTE 11 SOUTH, P.O. BOX 5150 CORTLAND, N.Y. 13045 607-753-3403

This laboratory analysis has been performed in accordance with generally accepted laboratory practices. Buck Environmental Laboratories, Inc. makes no recommendations, representations or warranties other than as specifically set forth in this report and shall not be responsible or liable for any action or the consequence of any action taken in connection with this report.

John H. Buck, P.E.

Laboratory Director

Harding ESE Client Information:

Contact: David M. Houston Site Contact: Chuck Staples

Tel:

Address: PO Box 7050

Tel: Fax: Fax:

207-828-3429 207-772-4762

Portland, ME 04112

Method: Non-ELAP Field Screening by EPA 8260 Modified

Analysis Date: 10/19/01

Matrix: Soil

Site:Tobe's Breakfast House

Sampling Date: 10/19/01

						i. NOII-LL			5 - 7								
Target Compounds	Dilution Factor	Benzene 71-43-2	Toluene 108-88-3	Ethylbenzene 100-41-4	m,p-Xylene 1330-20-7	o-Xylene 95-47-6	Tetrachloroethene 127-18-4	Trichloroethene 79-01-6	cis-1,2-Dichloroethene 156-59-2	trans-1,2-Dichloroethene 156-60-5	1,1-Dichloroethene 75-35-4	1,1-Dichloroethane 75-34-3	1,2-Dichloroethane 107-06-2	Chloroform 67-66-3	1,1,1-Trichloroethane 71-55-6	Vinyl chloride 75-01-4	Chloroethane 75-00-3
PQL (ug/Kg)*		120	200	200	400	200	200	200	200	200	200	200	120	200	200	200	200
Sample ID:																	
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^{*} Results are reported on as-received wet-weight basis. Preparation was 5 g soil in 10 g methanol diluted 1:100 in water.

J = Value listed is an estimated value.

APPENDIX G TABLE G-2 GROUNDWATER SAMPLE RESULTS ON-SITE ANALYTICAL LABORATORY

BUCK ENVIRONMENTAL

ACCREDITED ENVIRONMENTAL ANALYSIS

3845 ROUTE 11 SOUTH, P.O. BOX 5150

3845 ROUTE 11 SOUTH, P.O. BOX 5150 CORTLAND, N.Y. 13045 607-753-3403 This laboratory analysis has been performed in accordance with generally accepted laboratory practices. Buck Environmental Laboratories, Inc. makes no recommendations, representations or warranties other than as specifically set forth in this report and shall not be responsible or liable for any action or the consequence of any action taken in connection with this report.

John H. Buck, P.E.

Laboratory Director

Harding ESE Site: Tobe's Breakfast House

Contact: David M. Houston Site Contact: Chuck Staples

Address: PO Box 7050 Tel: Sampling Date: 10/18/01
Portland, ME 04112 Fax: Analysis Date: 10/18/01

207-828-3429 Matrix: Water

Tel: 207-828-3429 Fax: 207-772-4762

Client Information:

Method: Non-ELAP Field Screening by EPA 8260 Modified

Target Compounds	Dilution Factor	Benzene 71-43-2	Toluene 108-88-3	Ethylbenzene 100-41-4	m,p-Xylene 1330-20-7	o-Xylene 95-47-6	Tetrachloroethene	Trichloroethene 79-01-6	cis-1,2-Dichloroethene 156-59-2	trans-1,2-Dichloroethene 156-60-5	1,1-Dichloroethene 75-35-4	1,1-Dichloroethane 75-34-3	1,2-Dichloroethane	Chloroform 67-66-3	1,1,1-Trichloroethane 71-55-6	Vinyl chloride 75-01-4	Chloroethane 75-00-3
PQL (ug/L)		1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Sample ID:																	
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J = Value listed is an estimated value.

APPENDIX G TABLE G-2 GROUNDWATER SAMPLE RESULTS ON-SITE ANALYTICAL LABORATORY

3845 ROUTE 11 SOUTH, P.O. BOX 5150 CORTLAND, N.Y. 13045 607-753-3403

This laboratory analysis has been performed in accordance with generally accepted laboratory practices. Buck Environmental Laboratories, Inc. makes no recommendations, representations or warranties other than as specifically set forth in this report and shall not be responsible or liable for any action or the consequence of any action taken in connection with this report.

John H. Buck, P.E.

Laboratory Director

Harding ESE Client Information:

Contact: David M. Houston Site Contact: Chuck Staples

Address: PO Box 7050 Tel: Fax:

Portland, ME 04112

Tel: 207-828-3429 207-772-4762 Fax:

Sampling Date: 10/19/01 Analysis Date: 10/19/01

Site: Tobe's Breakfast House

Matrix: Water

Method: Non-ELAP Field Screening by EPA 8260 Modified

									J .,								
Target Compounds	Dilution Factor	Benzene 71-43-2	Toluene 108-88-3	Ethylbenzene 100-41-4	m,p-Xylene 1330-20-7	o-Xylene 95-47-6	Tetrachloroethene	Trichloroethene 79-01-6	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene 75-35-4	1,1-Dichloroethane 75-34-3	1,2-Dichloroethane	Chloroform 67-66-3	1,1,1-Trichloroethane 71-55-6	Vinyl chloride 75-01-4	Chloroethane 75-00-3
PQL (ug/L)		1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Sample ID:																	
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APPENDIX G

DATA USABILITY REPORT

G.2 Off Site Analytical Data

APPENDIX G.2 DATA USABILITY SUMMARY REPORT 2001 SAMPLING EVENT OFF-SITE LABORATORY SDGs HLA003, HLA004, HLA007, and HLA008 TOBE'S BREAKFAST HOUSE SITE NEW YORK

Introduction:

Soil and water samples were collected at the Tobe's Breakfast House site in October and November 2001. Samples were submitted for off-site laboratory analyses for VOCs using the New York State Department of Environmental Conservation (NYSDEC) Methods 95-1 (soils) and 95-4 (waters). A summary of analytical results is presented in Tables G-3 and G-4.

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 1995).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance (NYSDEC, 1997). The project chemist review included evaluations for data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery) where applicable, and data qualification. A subset of laboratory results was qualified during the data review. The following qualifiers were used:

U = target analyte is not detected at the reported detection limit J = concentration is estimated R= result rejected

Off-site sample analysis was completed by H2M Labs, Inc., Melville, New York. With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory.

VOLATILES

Blanks

Low concentrations of the common laboratory contaminants methylene chloride, acetone, and 2-butanone were present in laboratory blanks, indicating possible contamination of the data sets.

HLA003

The laboratory method blank and holding blank contained detections of methylene chloride. Action levels were calculated at 10X the concentrations observed in blanks for methylene chloride. Detections of methylene chloride were qualified U in all samples.

A second blank associated with the data set also had a detection of tetrachloroethene of 2 μ g/Kg. This blank was analyzed directly after samples TBBS00901301XX and TBBS01501501XX, which contained higher concentrations of tetrachloroethene (> 20 μ g/Kg). The tetrachloroethene results in samples were reported unqualified.

HLA004

The laboratory method blank (VBLK102901) and the holding blank (VHBLK) had detections of methylene chloride. Action levels were calculated at 10X the concentrations observed in blanks for methylene chloride. Results less than action levels were qualified non-detect U. Detections of methylene chloride were qualified U in all samples.

A tentatively identified compound (TIC) was detected in the instrument blanks, method blank, holding blank, and trip blank. Action levels were calculated at 10X the concentrations observed in blanks for the TIC. TIC results less than the action level were qualified as rejected (R).

HLA007

The laboratory method blank VBLK111101 had a detection of acetone and 2-butanone. Acetone and 2-butanone were not detected in any of the associated samples and no qualifications were necessary.

The holding blank VHBLK had a detection of methylene chloride. Methylene chloride was not detected in any of the associated samples and no qualifications were necessary.

The trip blank had a detection of acetone. Action levels were calculated at 10X the concentrations observed in the trip blank for acetone. Acetone was detected above the PQL but was less than the action level in sample TBBW01101501XX and was qualified as non detect (U). Acetone was detected below the action level and PQL for sample TBBW01501701XX. The result was elevated to the PQL and qualified as non detect (U).

HLA008

The laboratory method blank had a detection of methylene chloride. Action levels were calculated at 10X the concentrations observed in blanks for methylene chloride. Results

less than action levels were qualified non-detect U. Detections of methylene chloride were qualified U in all samples.

Instrument Calibration

HLA003

Target compounds carbon disulfide, 1,2-dichloroethene, trans-1, 3-dichloropropene, and bromoform were >25% difference (D) for the continuing calibration standard. All results for these compounds were qualified as estimated (J).

HLA004

Target compounds methylene chloride, 1,3-dichlorobenzene, and 1,2,4-trichlorobenzene were >30% relative standard deviation (RSD) in the initial calibration. All results were qualified as estimated (J).

Target compounds acetone, 2-butanone, carbon tetrachloride, 1,2,4-trichlorobenzene, and tetrachloroethene were >25%D for the continuing calibration standard associated with the diluted samples. All results for these compounds were qualified as estimated (J).

HLA007

Target compounds chloroethane, 1,1-dichloroethene, and carbon disulfide were >25%D for the continuing calibration standard associated with samples TBBW01101501XX, TBBW01401601XX, TBBW01501701XX, and TBBW02001601XX. All results for these compounds were qualified as estimated (J).

Target compounds chloroethane, 1,1-dichloroethene, carbon disulfide, methylene chloride, trans-1, 2-dichloroethene, 1,1,1-trichloroethane, trichloroethene, and tetrachloroethene were >25%D for the continuing calibration standard associated with samples TBBW01201601XX, TBBW01301601XX, and the diluted sample TBBW01401601XXDL. All results for these compounds were qualified as estimated (J).

HLA008

Target compounds 2-butanone and tetrachloroethene were >25%D for the continuing calibration standard. All results for these compounds were qualified as estimated (J).

Surrogate Recovery

HLA003, HLA008

Form 2 surrogate recoveries differ slightly from the raw data reports by no more than 2%. All surrogate recoveries were within method limits and no qualifications or changes were

APPENDIX G

made.

Spike Recoveries

HLA007

All spike recoveries were within method limits and no qualifications or changes were made.

Dilutions

HLA004

The calibration range for target compound tetrachloroethene was exceeded in samples TBBW00201801XX and TBBW00301701XX. Dilutions were performed on these samples in order to get tetrachloroethene within the calibration range. The dilution results were reported for tetrachloroethene, and results for the remaining target compounds were obtained from the original undiluted analysis.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 1995. "Analytical Services Protocols"; 10/95 Edition; October 1995.

New York State Department of Environmental Conservation (NYSDEC), 1997. "Guidance for the Development of Data Usability Reports"; Division of Environmental Remediation; September 1997.

APPENDIX G TABLE G-3

SOIL SAMPLE RESULTS

OFF-SITE ANALYTICAL LABORATORY TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NY

Nample Date 10/19/01 10/19/01 11/101/01 11/101/01 11/101/01	Sample Location	BS-9		BS-9 (dupe)		BS-11		BS-12	
Parameter	Sample ID	TBBS00901301XX		TBBS01501501XX		TBBS01101201XX		TBBS01200301XX	
1,1,1-Trichloroethane	Campic Bate	10/13/01		10/13/01		11/01/01		11,01,01	
1,1,2,2-Tetrachloroethane	Parameter								
1,1,2-Trichloroethane									
1,1-Dichloroethane 12 U 11 U 11 U 13 U 13 U 1,1-Dichloroethane 12 U 11 U 11 U 13 U 13 U 1,1-Dichloroethane 12 U 11 U 11 U 13 U 13 U 1,2-Dichloroethane 12 U 11 U 11 U 13 U 13 U 1,2-Dichloroethane (total) 1,2-Dichloroptopane 12 U 11 U 11 U 13 U 13 U 1,2-Dichloroptopane 12 U 11 U 11 U 13 U 13 U 1,2-Dichloroptopane 12 U 11 U 11 U 13 U 13 U 1,2-Dichloroptopane 12 U 11 U 11 U 11 U 13 U 14-Methyl-2-pentanone 12 U 11 U 11 U 11 U 13 U 14-Methyl-2-pentanone 12 U 11 U 11 U 11 U 13 U 13 U 14-Methyl-2-pentanone 12 U 11 U 11 U 11 U 13 U 13 U 14-Methyl-2-pentanone 12 U 11 U 11 U 11 U 13 U 13 U 14-Methyl-2-pentanone 12 U 11 U 11 U 11 U 13 U 13 U 14-Methyl-2-pentanone 13 U 14-Methyl-2-pentanone 14 U					U				_
1,1-Dichloroethene				11	U				
1,2-Dichloroethane					_				
1,2-Dichloroethene (total)	1,1-Dichloroethene	12	U	11	U	11	U		
12 U	1,2-Dichloroethane	12	U	11	U	11	U	13	U
2-Butanone	1,2-Dichloroethene (total)	12	UJ	11	UJ	11	U	13	U
2-Hexanone	1,2-Dichloropropane	12	U	11	U	11	U	13	U
4-Methyl-2-pentanone	2-Butanone	12	U	11	U	11	UJ	13	UJ
Acetone	2-Hexanone	12	U	11	U	11	U	13	U
Acetone 12	4-Methyl-2-pentanone	12	U	11	U	11	U	13	U
Bromodichloromethane 12 U	Acetone	12	U	11	U	11	U	13	U
Bromoform 12 UJ	Benzene	12	U	11	U	11	U	13	U
Bromomethane	Bromodichloromethane	12	U	11	U	11	U	13	U
Bromomethane	Bromoform	12	UJ	11	UJ	11	U		
Carbon Tetrachloride 12 U 11 U 11 U 13 U Chlorobenzene 12 U 11 U 11 U 13 U Chloroethane 12 U 11 U 11 U 11 U 13 U Chloroform 12 U 11 U 11 U 11 U 13 U Chloromethane 12 U 11 U 11 U 11 U 13 U Cis-1,3-Dichloropropene 12 U 11 U 11 U 13 U Dibromochloromethane 12 U 11 U 11 U 13 U Ethylbenzene 12 U 11 U 11 U 13 U Methylene Chloride 12 U 11 U 11 U 13 U Styrene 12 U 11 U 11 U 13 U Tetrachloroethene 28 Z 22 Z 2 J 7 J Toluene 6 J 11 U 11 U 11 U 13 U Trichloroethene 12 U 11 U 11 U 13 U Trichloroethene 12 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 13 U <	Bromomethane	12	U	11	U	11	U	13	U
Carbon Tetrachloride 12 U 11 U 11 U 13 U Chlorobenzene 12 U 11 U 11 U 13 U Chloroethane 12 U 11 U 11 U 11 U 13 U Chloroform 12 U 11 U 11 U 11 U 13 U Chloromethane 12 U 11 U 11 U 13 U Chloromethane 12 U 11 U 11 U 13 U Cis-1,3-Dichloropropene 12 U 11 U 11 U 13 U Ethylbenzene 12 U 11 U 11 U 13 U Methylene Chloride 12 U 11 U 11 U 13 U Styrene 12 U 11 U 11 U 13 U Tetrachloroethene 28 Z 22 Z 2 J 7 J Toluene 6 J 11 U 11 U 11 U 13 U Trichloroethene 12 U 11 U 11 U 13 U Trichloroethene 12 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 13 U Ticchloroethene	Carbon Disulfide	12	UJ	11	UJ	11	U	13	υ
Chloroethane	Carbon Tetrachloride	12	U	11	U	11	U	13	U
Chloroethane	Chlorobenzene	12	U	11	υ	11	U	13	U
Chloromethane 12 U 11 U 11 U 11 U 13 U cis-1,3-Dichloropropene 12 U 11 U 11 U 11 U 13 U Dibromochloromethane 12 U 11 U 11 U 11 U 13 U Ethylbenzene 12 U 11 U 11 U 11 U 13 U Methylene Chloride 12 U 11 U 11 U 13 U Styrene 12 U 11 U 11 U 13 U Tetrachloroethene 28 22 2 2 J 7 J Toluene 6 J 11 U 11 U 13 U Trichloroethene 12 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 13 U <td< td=""><td>Chloroethane</td><td>12</td><td>U</td><td>11</td><td>U</td><td>11</td><td>U</td><td>13</td><td>U</td></td<>	Chloroethane	12	U	11	U	11	U	13	U
cis-1,3-Dichloropropene 12 U 11 U 11 U 13 U Dibromochloromethane 12 U 11 U 11 U 13 U Ethylbenzene 12 U 11 U 11 U 13 U Methylene Chloride 12 U 11 U 11 U 13 U Styrene 12 U 11 U 11 U 13 U Tetrachloroethene 28 22 2 2 J 7 J Toluene 6 J 11 U 11 U 75 T trans-1,3-Dichloropropene 12 UJ 11 UJ 11 U 13 U Trichloroethene 12 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 13 U TIC 10 11 U 11 U 11	Chloroform	12	U	11	U	11	U	13	U
Dibromochloromethane	Chloromethane	12	U	11	U	11	U	13	U
Dibromochloromethane 12 U 11 U 11 U 11 U 13 U Ethylbenzene 12 U 11 U 11 U 11 U 13 U Methylene Chloride 12 U 11 U 11 U 11 U 13 U Styrene 12 U 11 U 11 U 11 U 13 U Tetrachloroethene 28 Z2 22 Z 2 J 7 J Toluene 6 J 11 U 11 U 11 U 75 trans-1,3-Dichloropropene Trichloroethene 12 U 11 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U	cis-1,3-Dichloropropene	12	U	11	U	11	U	13	U
Ethylbenzene 12 U 11 U 11 U 11 U 13 U Methylene Chloride 12 U 11 U 11 U 11 U 13 U Styrene 12 U 11 U 11 U 11 U 13 U Tetrachloroethene 28 Z2 22 Z 2 J 7 J Toluene 6 J 11 U 11 U 11 U 75 trans-1,3-Dichloropropene Trichloroethene 12 U 11 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U TIC 13 U 11 U 11 U 13 U	Dibromochloromethane	12	U	11	U	11	U		
Methylene Chloride 12 U 11 U 11 U 11 U 13 U Styrene 12 U 11 U 11 U 11 U 13 U Tetrachloroethene 28 Z2 Z 2 J 7 J Toluene 6 J 11 U 11 U 11 U 75 UU trans-1,3-Dichloropropene 12 UJ 11 UJ 11 U 13 U Trichloroethene 12 U 11 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U TIC 11 U 13 U 11 U 13 U	Ethylbenzene	12	U	11	U	11	U		υ
Styrene 12 U 11 U 11 U 11 U 13 U Tetrachloroethene 28 Z2 Z 2 J Z 7 J Toluene 6 J Z 11 U Z 11 U Z 11 U Z trans-1,3-Dichloropropene 12 U Z 11 U		12	U	11	U	11	U	13	υ
Tetrachloroethene 28 22 2 J 7 J Toluene 6 J 11 U 11 U 11 U 75 U trans-1,3-Dichloropropene 12 UJ 11 UJ 11 U 11 U 13 U Trichloroethene 12 U 11 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U TIC		12	U	11	U	11	U		
trans-1,3-Dichloropropene 12 UJ 11 UJ 11 UJ 11 U 13 U Trichloroethene 12 U 11 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U TIC 11 U 13 U 11 U 13 U	Tetrachloroethene	28				2	J		
trans-1,3-Dichloropropene 12 UJ 11 UJ 11 UJ 11 U 13 U Trichloroethene 12 U 11 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U TIC 11 U 13 U 11 U 13 U	Toluene	6	J	l 11	υ	l 11	U	75	
Trichloroethene 12 U 11 U 11 U 11 U 13 U Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U TIC 11 U 13 U 14 U 13 U	trans-1.3-Dichloropropene	12	ŪJ		ŪJ		U		υl
Vinyl Chloride 12 U 11 U 11 U 11 U 13 U Xylene (total) 4 J 5 J 11 U 13 U TIC 11 U 12 U 13 U									
Xylene (total) 4 J 5 J 11 U 13 U TIC					_				
τίc ` ΄					_				
	TIC		-]	ľ	· · ·	ľ		
C3 subst Benzene	C3 subst_ Benzene			6	J				
	unknown]	ľ	7	J	13	J

Notes:

U = not detected at listed quantitation limit

J = estimated value

APPENDIX G-TABLES 3,4.xls 1 of 1

APPENDIX G TABLE G-4 GROUNDWATER SAMPLE RESULTS OFF-SITE ANALYTICAL LABORATORY TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NY

Sample Location	BW-2		BW-3	BW-4	T	BW-4 (dupe)		BW-6		BW-11	BW-12
Sample ID	TBBW00201801XX		TBBW00301701XX	TBBW00401601XX		TBBW01501501XX		TBBW00602101XX		TBBW01101501XX	TBBW01201601XX
Sample Date	10/18/01		10/18/01	10/18/01		10/18/01		10/19/01		11/01/01	11/01/01
Campic Date	10/10/01		10/10/01	10/10/01		10/10/01		10/13/01		11/01/01	11/01/01
Parameter	Result (µg/L)		Result (µg/L)	Result (µg/L)	ı	Result (µg/L)		Result (µg/L)		Result (µg/L)	Result (µg/L)
1,1,1-Trichloroethane		U	1 U	1 U	T		U		U	1 U	1 UJ
1,1,2,2-Tetrachloroethane	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,1,2-Trichloroethane	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,1-Dichloroethane	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,1-Dichloroethene	1	U	1 U	1 U		1	U	1	U	1 UJ	1 UJ
1,2,4-Trichlorobenzene	1	UJ	1 UJ	1 UJ	J	1	UJ	1	UJ	1 U	1 U
1,2-Dibromo-3-chloropropane	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,2-Dibromoethane	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,2-Dichlorobenzene	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,2-Dichloroethane	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,2-Dichloropropane	1	U	1 U	1 U		1	U	1	U	1 U	1 U
1,3-Dichlorobenzene	1	UJ	1 UJ	1 UJ	J	1	UJ	1	UJ	1 U	1 U
1,4-Dichlorobenzene	1	U	1 U	1 U		1	U	1	U	1 U	1 U
2-Butanone	5	U	5 U	5 U		5	U	5	U	2 J	5 U
2-Hexanone	5	U	5 U	5 U		5	υ	5	U	5 U	5 U
4-Methyl-2-pentanone		Ū	5 U	5 U		5	Ū		Ū	5 U	5 U
Acetone	5	Ū	5 U	5 U		5	Ū		Ū	6.9 U	5lu
Benzene	1	Ū	1 U	110		1	Ū	1	Ū	1 U	1 1 U
Bromochloromethane		Ü	1 1 1	1 1 0			Ū	1		1 U	l ilū
Bromodichloromethane		U	1 1 0	1 0			Ü	1	-	1 U	1 0
Bromoform		Ü	1 U	1 0			Ū		Ū	1 U	l ilū
Bromomethane		Ü	1 1 0	1 0			Ü		Ü	1 U	1 10
Carbon disulfide	-	Ü	1 1 0	1 0			Ü		Ü	0.6 J	1 0 1
Carbon tetrachloride		Ü	1 1 0	1 0			Ü		Ü	1 U	1 1 1 1
Chlorobenzene		Ü	1 U	1 0			Ü		Ü	1 UJ	1 0
Chloroethane		Ü	1 1 0	1 0			Ü		Ü	1 U	1 0 1
Chloroform		Ü	1 U	1 0			Ü		Ü	1 U	1 0
Chloromethane		Ü	1 1 0	1 0			Ü		Ü	1 U	1 0
cis-1,2-Dichloroethene		U	1 1 0	1 U			U		U	1 0	1 U
cis-1,3-Dichloropropene		U	1 U	1 U			U	1		1 U	1 10
Dibromochloromethane		U	1 1 0	1 U			U		U	1 U	1 U
Ethylbenzene		U	1 0	1 0			U		U	1 0	1 1 1 1
Methyl tert-butyl ether		U	1 0	1 0			U		U	1 0	1 0
Methylene chloride		UJ	1 UJ	1 UJ			UJ		UJ	1 0	1 0
Styrene		U	1 U	100			U		U	1 1 0	1 U
Tetrachloroethene	100		40 J	2.3		2.3	٥		U	1.6	3.9 J
Toluene		U	1 U	2.3 1 U	1		U	1.2	J	1.0 1 U	3.9 J 1 U
trans-1,2-Dichloroethene		U	1 1 0	1 U			U	1.2		1 0	1 1 1 1 1 1
trans-1,3-Dichloropropene		U	1 U	1 U	1		U	1	-	10	1 1 U
Trichloroethene		U	1 U	1 U			U		U	10	10
		U	1 U	1 U					U	10	1 1 U
Vinyl chloride	2		2 U		1		U U		U	1 U 2 U	2 U
Xylene (total)	[2	U	2 0	2 U		2	U	3.4		2 0	2 0

Notes:

U = not detected at listed quantitation limit

J = estimated value

B = compound detected in associated laboratory blank

APPENDIX G-TABLES 3,4.xls

APPENDIX G TABLE G-4 GROUNDWATER SAMPLE RESULTS OFF-SITE ANALYTICAL LABORATORY TOBE'S BREAKFAST HOUSE SITE WATKINS GLEN, NY

Sample Location	BW-13		BW-14		BW-15		BW-13 (dupe)		Trip Blank-2	
Sample ID	TBBW01301601XX		TBBW01401601XX		TBBW01501701XX		TBBW02001601XX		TBTB002XXX01XX	
Sample Date	11/01/01		11/01/01		11/01/01		11/01/01		11/01/01	
Parameter	Result (µg/L)		Result (µg/L)		Result (µg/L)		Result (µg/L)		Result (µg/L)	
1,1,1-Trichloroethane	1	UJ	1		1	U	1		1	U
1,1,2,2-Tetrachloroethane		U	1 1	U	1	U	1		1	U
1,1,2-Trichloroethane		U	1 1	U	1	U	1		1	U
1,1-Dichloroethane		U	1	_	·	U	1		1	U
1,1-Dichloroethene		UJ	1 1			UJ	1		1	U
1,2,4-Trichlorobenzene		U	1 1		•	U	1	-	1	U
1,2-Dibromo-3-chloropropane		U	1 1	U	1	U	1	-	1	U
1,2-Dibromoethane		U	1 1		•	U	1	_	1	U
1,2-Dichlorobenzene		U	1 1	_	1	U	1		1	U
1,2-Dichloroethane		U	1 1		•	U	1		1	U
1,2-Dichloropropane	·	U	1 1		1	U	1	-	1	U
1,3-Dichlorobenzene		U	1 1		1	U	1	-	1	U
1,4-Dichlorobenzene	·	U	1 1	_	1	U	1	_		U
2-Butanone		U	5 0			U	5			U
2-Hexanone		U	5		-	U	5		5	
4-Methyl-2-pentanone		U	5		-	U	5		5	
Acetone	-	U	5		-	U	5			BJ
Benzene	•	U	1 1	_	1	U	1	-	1	U
Bromochloromethane		U	1 1	U	1	U	1	-	1	U
Bromodichloromethane		U	1 1	_	1	U	1	_	1	U
Bromoform		U	1 1			U	1	-	1	U
Bromomethane		U	1 1	_	·	U	1		1	U
Carbon disulfide		UJ	1			UJ	1			U
Carbon tetrachloride		U	1		·	U	1	-	-	U
Chlorobenzene		U	1	-		U	1	-	1	U
Chloroethane		UJ	1 1			UJ		UJ	1	U
Chloroform		U	1	_	•	U	1	_	1	U
Chloromethane		U	1		•	U	1	-	1	U
cis-1,2-Dichloroethene	·	U	1			U	1	-	1	U
cis-1,3-Dichloropropene		U	1		·	U	1	-	-	U
Dibromochloromethane		U	1	_		U	1		-	U
Ethylbenzene		U	1		1	U	1		-	U
Methyl tert-butyl ether		U	1 1		1	U	1	-	-	U
Methylene chloride	-	UJ	1		•	U	1	-	-	U
Styrene		U	1		•	U	1	U	1	U
Tetrachloroethene	22	J	100		22	l	20		1	U
Toluene		U	1		1	U	1	-	1	U
trans-1,2-Dichloroethene		UJ	1		1	U	1		1	U
trans-1,3-Dichloropropene		U	1		1	U	1			U
Trichloroethene		UJ	1	_	1	U	1	-	-	U
Vinyl chloride		U	1		1	U	1			U
Xylene (total)	2	U	2	U	2	J	2	U	2	U

Notes:

U = not detected at listed quant

APPENDIX G-TABLES 3,4.xls 2 of 2

J = estimated value

B = compound detected in asso

APPENDIX H GROUNDWATER MODELING NOTES

PROJECT					
154	be's	Brea	Kfac	5+	House

COMP. BY RAL CHK. BY

JOB NO. 53498/3 DATE 1/2/02 1/83

Perses	se: Estimate concentrations in soil and groundwater
	associated with old dry cleaner site.
Obser	ations! Old source areas (now possibly covered by adding
	to bushing) estimated at 20 x 20 square.
	Maximum Pet in so, 1 pearly was 629 ppb.
	Harmum PCE in ground water at 140 down -
	gradued was 100 ppb. Estimated maximum
	ach: Use OLM and Ineas partitioning to estimat
4000	ach: Use Oly and linear partitioning to estimat
	relationship between 501/ confaminants and
	leachate reaching groundwater Use VHS model to evaluate passible dilution due to
	dispersion.
	Cispusio re.
Rath	of these models are available as BASIC computer
V0108	ams. The inputs and outputs plus supporting
Call	ulations are:
25	4
	Gren PCE with water solubility of 150 mg/L and
	501/ concentration of 629 ppb = 0.629 mg/kg
	the resultant leadhate concentration would be
	10.5 49/4.
Lives	e part froming &
	IF the mechanism for mobilizing DCE in soil to
	groundwater is by Clustertons of water table
	up into contaminated soil seasonally then linear partitioning may provide a better estimator of groundwater concentrations at the source
	partitioning may provide a better estimator of
	groundwater concentrations at the source.
	Cs = Kd Cw = foc Kac Cw
	A C P O D D D D D D D D D D D D D D D D D D
	Assume for of 0.002 and let Koc = 364 mlds
	C = (0.629 mg /16.002) (364 =)

F	5	R	OJ	E	C	Т		

Tobe & Brakfast House

COMP. BY RAL CHK. BY

JOB NO. 53498/3 DATE 1/2/02

at and we man is to see and the encountered and the encountered of the encountered from the encountered and the encountered and an advantage of the encountered and th		2003
	Note that at this leaching rate, the source wou not likely last long unless some free product I been present at some time.	ld
YHS	since the plume width increases approximate	4
	from 20 ft at the source to 200 feet at 14 distance, by dispersion agreations	04
	6 6 = 200-20 f+ = 180' ex 6 y = 30 ft.	
	Domenics and Schwartz gre! D= V &y = \frac{6\frac{7}{2}V}{2X}	
	or $dy = \frac{2}{2x}$ (lateral dispersion of $dy = \frac{(30)^2}{2(40)}$) of $dy = \frac{3}{2(40)}$ of $dy = \frac{3}{2(40)}$	onily)
	This compares favorably with the rules i	f them b
	$0 \times \frac{1}{10} \text{ and } dy = \frac{dy}{8} + 0 \frac{dy}{3}$ $0 \times dy = 1.8 + 0 + 1.7 + 1$	
	Assume of =0.1 ft as the aprifer is replaced be stradified. Let Z=[(0,1)(20)] =2.4	
	Assuming a nominal initial concentration groundwater of 100 mg/L. the VHS model indicates a concentration of 5.45 mg/L. 140 feet from the source gives a dilution factor of	
	This would suggest initial concentrations of	- A- A
	183/100 ash - 1820 pas	

PROJECT
TO be & Breakfast House

COMP. BY

JOB NO. 53498/3 DATE 1/2/02

3 of 3

This might occur it concentrations in soil at the ground water table in the actual source area. (now likely covered) are much greater than the 629 pps sampled at the site adjacent to the likely source area. Alternately, concentrations may have been greater at some time in the part if the ground water/plume migration rate is alone.

PROJECT

Tobe's Breakfast House

COMP. BY

JOB NO. \$3498/3 DATE

2/4/02

Add on page - 10f1

Estimates of potential soil contamination at source area.

Using VHS model to calculate potential initial concentrations of PEE at source area (assumed to be below current site building) ~ 1830 ppb = 1830 ug/L PCE in ground water at source area.

If 629 ig/kg at source area would result in groundwater concentrations of 864 ig/k in source area groundwater, then 1830 ig/k in ground water would equate to:

$$\frac{629 \sqrt{16}}{864 \sqrt{16}} = \frac{\times}{1830}, \times = \frac{1830 \times 629}{864} = 1332 \sqrt{16}$$

1332 ug/kg in source area soils at the ground water table.

Again, PEE consentrations in source area soils may be greater than 1300 vg/kg, or may have been greater at some time in the past it ground nature / plume migration rate is slow.

APPENDIX I AIR SAMPLE RESULTS

OSR - 3

NEW YORK STATE DEPARTMENT OF HEALTH DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY				
This form must be completed for each residence involved in indoor air testing.				
Preparer's Name Charles St	Date Prepared 10/18/01			
Preparer's Affiliation Harding L	-awson Associates Phone No. 207-828-3571			
1. OCCUPANT	Name: C. V Lucas			
	Address: 403 N. Decater			
	Watkin Glan			
	County: Schuyler			
	Home Phone No. 535-4188 Office Phone No			
2. OWNER OR LANDLORD:	Name: Gerald Tober			
(If different than occupant)	Address: 81 Salt Point Rad			
	Watkins Clan 14891			
	Phone No. 607-535-2750			
A. Building Construction Chara	acteristics .			
Type (circle appropriate responses):	Single Family Multiple Dwelling Commercial			
Ranch	2-Family			
Raised Ranch S <u>plit L</u> evel	Duplex Apartment House Units			
Colonial Mobile Home	Apartment House Units Number of floors 2 - with 1 floor addition on slab Other specify			
Residence Age 113 General Description of Building Construction Materials Brike + Wood				
Is the building insulated? Yes (No)	How air tight is the building Not very - O.k. 160m			
	5 - Illown febryles			
Page 1				

•	Basement construction characteristics (circle all that apply):
1.	Full basement, crawlspace, slab on grade, other - all of them - Full under sample
2.	Basement floor: concrete) dirt, other
3.	Concrete floor: unsealed, painted, covered; with
4.	Foundation walls: poured concrete, block laid up stone, other
5.	The basement is: wet, damp, drySump present? y / nWater in sump? y / n
6.	The basement is: finished, unfinished
7.	Identify potential soil vapor entry points (e.g., cracks, utility ports etc.)
8.	Describe how air tight the basement is Very artifle
. <u>н</u> ч	VAC (circle all that apply):
1.	The type of heating system(s) used in this residence is/are:
	Hot Air Circulation Heat Pump
	Hot Water Radiation Unvented Kerosene Heater
	Steam Radiation Wood stove
	Electric Baseboard Other (specify)
2.	The type(s) of fuel(s) used is/are: Natural Gas Fuel oil, Electric, Wood Coal Solar
	Other (specify) Natural Gas
3.	Is the heating system's power plant located in the basement or another area: basement
4.	Is there air-conditioning? Yel / No Central Air or Window Units?
	Specify the location in hedron
5.	Are there air distribution ducts present? Yes / No
	Describe the supply and cold air return duct work in the basement including whether there is a

OSR-3 (continued)

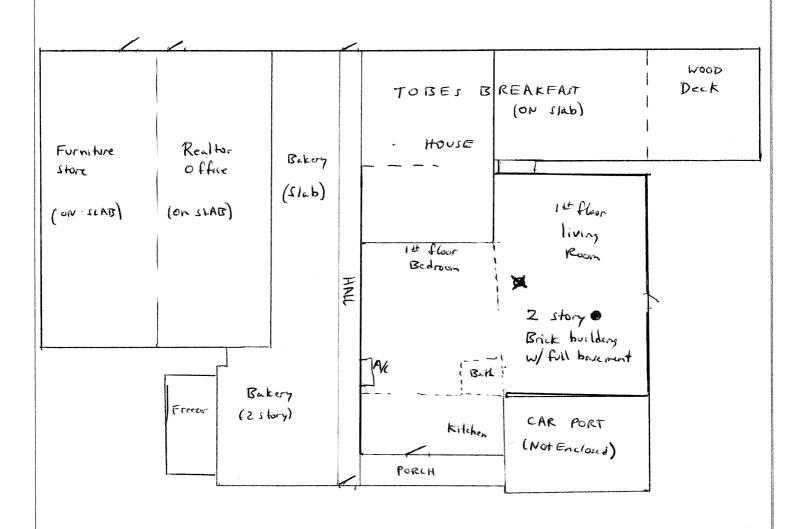
		,	
D.	<u>Po</u>	Otential Indoor Sources of Pollution	
	1.	. Has the house ever had a fire? Yes No	
	2.	. Is there an attached garage? Yes No	
	3.	. Is a vehicle normally parked in the garage? Yes / No	
	4.	. Is there a kerosene heater present? Yes / No	
	5.	. Is there a workshop, hobby or craft area in the reside. An inventory of all products used or stored in the ho	nce? (cd/10) - in barement
	6.	An inventory of all products used or stored in the ho contain volatile organic compounds or chemicals sin listed. The attached product inventory form should be a stored or the stored or stored in the stored or the stored or the stored or stored or the stored or stored or stored in the stored or st	nlar to the target compounds should be
	7.	. Is there a kitchen exhaust fan? Yes /No Wh	ere is it vented?
	8.	Has the house ever been fumigated? If yes described.	
Ε.	<u>W</u> a	Vater and Sewage (Circle the appropriate response)	
Sov	ırce	ce of Water	
	1	Public Water Drilled Well Driven Well Du	g Well Other (Specify)
Wa		er Well Specifications:	
		Well Diameter	Grouted or Ungrouted
		Well Depth	Type of Storage Tank
		Depth to Bedrock	Size of Storage Tank
		Feet of Casing	Describe type(s) of Treatment
Wa	ter	er Quality:	
Γ	aste	ste and/or odor problems? y /(n) If so, describe	
F	Iow	w long has the taste and/or odor been present?	
			ield Other (Specify)
		Distance from well to septic system Type	

Sample collected from 8 AM on 10/18/01
to 8 AM on 10/19/01
Barametric pressure was at IO.18 at beginning

OSR-3 (continued) of sample collection and
at IO.06 at end of test.

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



= Air Sample location Page 4

Approximate location of basement floor drain

N

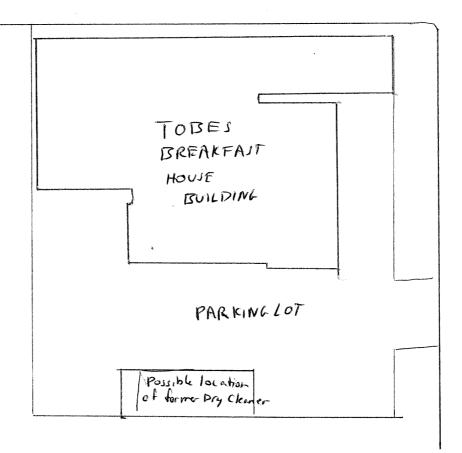
OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.

East Fourth Street



Page 5

Decatur Street

AIR TOXICS LTD.

SAMPLE NAME: TOBEAIR001XX01

ID#: 0110384-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	c102418 1.34			Date of Collection: 10/19/01 Date of Analysis: 10/25/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Freon 12	0.67	3.4	0.72	3.6	
Freon 114	0.67	4.8	Not Detected	Not Detected	
Chloromethane	0.67	1.4	Not Detected	Not Detected	
Vinyl Chloride	0.67	1.7	Not Detected	Not Detected	
Bromomethane	0.67	2.6	Not Detected	Not Detected	
Chloroethane	0.67	1.8	Not Detected	Not Detected	
Freon 11	0.67	3.8	Not Detected	Not Detected	
1,1-Dichloroethene	0.67	2.7	Not Detected	Not Detected	
Freon 113	0.67	5.2	Not Detected	Not Detected	
Methylene Chloride	0.67	2.4	Not Detected	Not Detected	
1,1-Dichloroethane	0.67	2.8	Not Detected	Not Detected	
cis-1,2-Dichloroethene	0.67	2.7	Not Detected	Not Detected	
Chloroform	0.67	3.3	Not Detected	Not Detected	
1,1,1-Trichloroethane	0.67	3.7	Not Detected	Not Detected	
Carbon Tetrachloride	0.67	4.3	Not Detected	Not Detected	
Benzene	0.67	2.2	0.72	2.3	
1,2-Dichloroethane	0.67	2.8	Not Detected	Not Detected	
Trichloroethene	0.67	3.6	Not Detected	Not Detected	
1,2-Dichloropropane	0.67	3.1	Not Detected	Not Detected	
cis-1,3-Dichloropropene	0.67	3.1	Not Detected	Not Detected	
Toluene	0.67	2.6	1.9	7.3	
trans-1,3-Dichloropropene	0.67	3.1	Not Detected	Not Detected	
1,1,2-Trichloroethane	0.67	3.7	Not Detected	Not Detected	
Tetrachloroethene	0.67	4.6	3.6	25	
Ethylene Dibromide	0.67	5.2	Not Detected	Not Detected	
Chlorobenzene	0.67	3.1	Not Detected	Not Detected	
Ethyl Benzene	0.67	3.0	Not Detected	Not Detected	
m,p-Xylene	0.67	3.0	0.97	4.3	
o-Xylene	0.67	3.0	Not Detected	Not Detected	
Styrene	0.67	2.9	Not Detected	Not Detected	
1,1,2,2-Tetrachloroethane	0.67	4.7	Not Detected	Not Detected	
1,3,5-Trimethylbenzene	0.67	3.3	Not Detected	Not Detected	
1,2,4-Trimethylbenzene	0.67	3.3	Not Detected	Not Detected	
1,3-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected	
1,4-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected	
Chlorotoluene	0.67	3.5	Not Detected	Not Detected	
1,2-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected	
1,2,4-Trichlorobenzene	0.67	5.0	Not Detected	Not Detected	
Hexachlorobutadiene	0.67	7.3	Not Detected	Not Detected	
Propylene	2.7	4.7	Not Detected	Not Detected	
1,3-Butadiene	2.7	6.0	Not Detected	Not Detected	
A Lead of the second of the se	0.7	0.5	C F	10	

2.7

Acetone

6.5

6.5

16

AIR TOXICS LTD.

SAMPLE NAME: TOBEAIR001XX01

ID#: 0110384-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: c102418 Dil. Factor: 1.34	ection: 10/19/01 ysis: 10/25/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.7	8.5	Not Detected	Not Detected
2-Propanol	2.7	6.7	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.7	11	Not Detected	Not Detected
Vinyl Acetate	2.7	9.6	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	8.0	Not Detected	Not Detected
Hexane	2.7	9.6	Not Detected	Not Detected
Tetrahydrofuran	2.7	8.0	Not Detected	Not Detected
Cyclohexane	2.7	9.4	Not Detected	Not Detected
1,4-Dioxane	2.7	9.8	Not Detected	Not Detected
Bromodichloromethane	2.7	18	Not Detected	Not Detected
4-Methyl-2-pentanone	2.7	11	Not Detected	Not Detected
2-Hexanone	2.7	11	Not Detected	Not Detected
Dibromochloromethane	2.7	23	Not Detected	Not Detected
Bromoform	2.7	28	Not Detected	Not Detected
4-Ethyltoluene	2.7	13	Not Detected	Not Detected
Ethanol	2.7	5.1	75	140
Methyl tert-Butyl Ether	2.7	9.8	Not Detected	Not Detected
Heptane	2.7	11	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130