BUCK
ENGINEERING, LLC
consulting environmental engineers

3821 Buck Drive, Cortland, NY 13045
Telephone: 607-753-3403
FAX: 607-753-3415

Letter of Transmittal

To: Mr. Christopher Warner
NYS DEC Kirkwood Sub-office
1679 Rt. 11
Kirkwood, NY 13795

Date: 7/5/05

Re: Subs. Inv. Report

Dear Chris :

The following items are enclosed:

Report for 313 N. Meadow St., Ithaca

This information is submitted:

☒ **As requested**

☐ **For your information**

☐ **For your approval**

☐ _____

Comments:

Signed: Wayne C Matthews Jr

CC:

BUCK
ENGINEERING, LLC
consulting environmental engineers

June 30, 2005

Mr. Roger Beck
823 Elmira Road
Ithaca, NY 14850

Re: Subsurface Investigation
313 North Meadow Street (HSC Associates Property)
Ithaca, NY

Dear Mr. Beck:

This letter is a report of the subsurface investigation activities that recently took place at real property located at 313 North Meadow Street in the City of Ithaca, Tompkins County, New York. These investigations were conducted at the site in response to a request made by the sponsor and the findings of a Phase I Environmental Site Assessment recently completed (June 2005) by Buck Engineering, LLC for the subject property.

Site Background

As indicated in the Phase I ESA, no current or historic uses of the subject property are likely to have caused environmental impairment; however, adjoining property north, Angelo Dry Cleaners, was identified as a recognized environmental condition associated with the property under review due to its long-time use as a dry cleaning facility, former use as a gasoline station, and close proximity to the subject property.

Objective

The primary objective of this investigation was to determine if subsurface contamination is present at the subject property.

Subsurface Investigation Activities

On June 22, 2005, subsurface investigations, which included obtaining groundwater samples from four separate locations via Geoprobe across the subject property, were conducted. Wayne C. Matteson, Jr., P.E. of our office directed the fieldwork. Subsurface investigation activities are described in the following paragraphs.

Subsurface investigation activities included obtaining groundwater samples from four (4) separate locations on the subject property using a Geoprobe. Geoprobe work was performed by GeoLogic NY, Inc. of Homer, New York. In order to evaluate the subsurface conditions at the site, samples obtained were analyzed for volatile organic compounds (VOCs) using EPA Method 8260. A copy of a Sampling Location Map showing the approximate locations of the Geoprobe sampling points has been attached to this report.

Based on USGS topography, local groundwater flow direction across the site is believed to be to the west or northwest toward the north-flowing Cayuga Lake Inlet.

All groundwater samples were obtained using a Geoprobe. The Geoprobe, also known as a "Direct Push Probe", hydraulically advanced probe holes utilizing a truck-mounted Geoprobe 5400 hydraulic probe. Probe holes were advanced using a four-foot long, 2.5-inch diameter steel tube soil sampler with acetate liners for the purpose of collecting a soil profile. The steel tube was driven by a hydraulic hammer that is capable of delivering 1,800 blows per minute. Continuous soil cores were obtained until an adequate groundwater sampling depth was achieved. Soil cores obtained in the acetate liners were cut open with a utility knife and the cores were reviewed for visual and olfactory evidence of contamination as well as their soil characteristics. An HNu photoionization detector was used to field screen the samples for evidence of volatile organic contaminants. Groundwater samples were obtained from all four locations and were collected in 40 mL vials for VOC analysis.

The probing equipment was cleaned with a liquinox and water solution before starting work at the site and between each sampling location to minimize the possibility of sample cross-contamination.

A description of field observations for each Geoprobe location including soil types, visual and olfactory observations, and sampling protocol have been attached to this report (*See Field Notes*).

The groundwater samples were submitted to Buck Environmental Laboratories (BEL) for laboratory analysis. BEL is accredited by the New York State Department of Health ELAP program and holds lab identification number 10795. Laboratory results for the analyses are presented in Table 1 at the end of this report. Only the contaminants that were detected in the samples have been included in Table 1. The laboratory reports have been included herein. The table and the following discussion summarize the findings of the laboratory analyses.

Laboratory Results

Groundwater samples were obtained from four Geoprobe sampling points. All groundwater samples were analyzed for the presence of VOCs using EPA Method 8260. The results of the laboratory analyses indicate that Tetrachloroethene, a solvent commonly used for dry cleaning clothes, has been detected in each sample at concentrations above NYSDEC Part 703 groundwater standards. Trichloroethene was also detected in GP#3 at concentrations above groundwater standards. No other VOCs were detected in the samples.

The Sampling Location Map indicates the location of each sample and associated contaminant concentrations.

These results indicate that groundwater quality at the property has been impaired by the presence of chlorinated solvents.

Discussion of Results

The primary contaminant detected in the groundwater samples was Tetrachloroethene. One sample (GP#3) also contained Trichloroethene (TCE). TCE may be present due to degradation of the Tetrachloroethene. Tetrachloroethene was detected in each sample obtained from the subject property. The source of the Tetrachloroethene is not specifically known and was not determined from this study. Tetrachloroethene (also called Perchloroethylene) is a common dry cleaning solvent and may be associated with the adjacent Angelo Dry Cleaners.

Based on the analytical results, the solvent contamination may be present in the groundwater beneath most or all of the subject property.

Additional Considerations

The presence of solvent contamination presents additional concerns with the property related to air quality issues inside the building. It is possible that vapors from the chlorinated solvents may be entering the basement of the building and pose a health risk to occupants of the building.

These concerns are addressed in the New York State Department of Health's (NYSDOH) publication entitled "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" presented for public comment in February 2005. As stated in this publication "this document provides guidance on identifying and addressing current and potential human exposures to contaminated subsurface vapors associated with known or suspected volatile chemical contamination." The publication is not meant to cover the vapor intrusion of typical subsurface gases such as radon, methane, or hydrogen sulfide, but is tailored to assessing soil vapor intrusion from typical environmental contaminants associated with petroleum products or hazardous substances and solvents. The guidance document has already been used for various chlorinated solvent spills across New York State, particularly for TCE and Tetrachloroethene.

If the sponsor pursues purchase of the subject property, an assessment of the current and potential soil vapor intrusion from the chlorinated solvents identified at the site should be conducted in relation to the building on the property.

Based on our knowledge of the building on-site, the minimum cost to conduct a soil vapor intrusion survey in accordance with the referenced NYSDOH guidance document would be approximately $2500. It is our opinion that the soil vapors on the site will likely be contaminated with tetrachloroethene.

Conclusions and Recommendations

- Based on the laboratory analyses, groundwater contamination from chlorinated solvents is present on-site at levels above NYSDEC Part 703 groundwater standards. The contaminant concentrations identified at the site are significant enough to cause environmental concern.

- If the subject property is planned for purchase, we recommend that a soil vapor intrusion evaluation be conducted in the building prior to obtaining the property.

- We recommend that legal counsel be consulted with respect to environmental liability issues, particularly responsibility for soil vapor intrusion mitigation, prior to the purchase the subject property.

An invoice is enclosed for this subsurface investigation.

Thank you for the opportunity to provide this information and please let us know if clarification is required.

Sincerely,

Wayne C. Matteson, Jr., P.E.
Environmental Professional

John H. Buck, P.E.
Principal Engineer

Attachments

TABLE 1

Groundwater VOC Analytical Results

Sampling Date	Sampling Point	Compound/Testing	Sample Concentration (ug/L - ppb)	NYSDEC Part 703 groundwater standard (ug/L - ppb)
6/22/05	GP#1	VOCs		
		Tetrachloroethene	160	5
6/22/05	GP#2	VOCs		
		Tetrachloroethene	700	5
6/22/05	GP#3	VOCs		
		Tetrachloroethene	1700	5
		Trichloroethene	56	5
6/22/05	GP#4	VOCs		
		Tetrachloroethene	130	5

BOLD indicates exceedance of standard
ND – None detected
N/A – Standard not applicable

FIELD NOTES

Sampling Date: June 22, 2005

Site: **Roger Beck Site**
313 North Meadow Street
Ithaca, NY

Client: **Mr. Roger Beck**
823 Elmira Road
Ithaca, NY 14850

Temperature: 85 deg F
Winds: Light, W
Weather: Sunny

See sampling location map for location of probe points.

GP#1: Located near northwest corner of property.

0-4'	Sand and fill material No visual or olfactory indications of contamination	HNu = 0 ppm
4-8'	Sand and gravel (4-6') Silty clay (6-8') No visual or olfactory indications of contamination	HNu = 0 ppm
8-12'	Clay No visual or olfactory indications of contamination	HNu = 0 ppm

Groundwater sampled for VOCs testing. No odor or sheen on water sample. Groundwater at approximately 6 feet.

GP#2: Located in north-central portion of property.

0-4'	Sand and gravel No visual or olfactory indications of contamination	HNu = 0 ppm
4-8'	Fine sand and clay No visual or olfactory indications of contamination	HNu = 0 ppm

Groundwater sampled for VOCs testing. No odor or sheen on water sample. Groundwater at approximately 6 feet.

GP#3: Located in northeast corner of property.

0-4'	Sand and gravel (0-2') Mottled silt (2-4') No visual indications of contamination	HNu = 0-3 ppm
4-8'	Silt No visual indications of contamination	HNu = 0-1 ppm

Groundwater sampled for VOCs testing. No odor or sheen on water sample. Groundwater at approximately 5 feet.

Field Notes (Con't)

GP#4: Located in north-central portion of property.

0-4'	Sand and gravel No visual or olfactory indications of contamination	HNu = 0 ppm
4-8'	Silt No visual or olfactory indications of contamination	HNu = 0 ppm
8-12'	Sand and silt No visual or olfactory indications of contamination	HNu = 0 ppm

Groundwater sampled for VOCs testing. No odor or sheen on water sample. Groundwater at approximately 7 feet.

Prepared by:

Wayne C. Matteson, Jr., P.E.
Environmental Professional

BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

Lab Log No.: **0506201**

June 29, 2005

ROGER BECK
823 ELMIRA ROAD
ITHACA, NY 14850

TEL: 607-749-7950
FAX:

RE: 313 N MEADOW ST, ITHACA

Attn: Roger Beck

Buck Environmental Labs, Inc. received 4 samples on 06/22/05 for the analyses presented in the following report.

The analytical results for your samples are presented on the enclosed laboratory report(s). In accordance with NYSDOH-ELAP and NELAC regulations, we are required to notify you of any aspects of the analysis that did not comply with these regulations. A summary of problems, notations, and non-compliant parameters is presented on the attached "Narrative". Any data qualifiers are noted directly on the laboratory report. The Laboratory also maintains a "Sample Receipt Checklist" and the submitted "Chain of Custody" form in its files that are available on request.

The pagination at the bottom of the narrative and reports indicates the total number of pages in the client submittal. No duplication of this report should be done without duplication of the entire package, including cover letter and narrative.

Thank you for the opportunity to provide these analytical services. Please contact Pamela Davis, Client Services Manager, or Barbara Houskamp, QA/QC Manager, with questions on the analysis.

Sincerely,

John H. Buck, P.E.
Laboratory Director

Buck Environmental Labs, Inc.
3821 Buck Drive, Cortland, NY 13045-5150
Tel 607.753.3403
Fax 607.753.3415
Info@Bucklabs.com

ELAP # 10795
EPA # NY00935

Buck Environmental Labs, Inc. **Date:** *29-Jun-05*

CLIENT:	ROGER BECK
Project:	313 N MEADOW ST, ITHACA
Lab Order:	0506201

CASE NARRATIVE

Samples were analyzed using Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition or other methods specifically approved by NYSDOH-ELAP. All quality control parameters for the analysis of samples under this lab log number met the laboratory acceptance limits and no data were qualified.

Glossary of terms and acronyms used in the lab reports:

CAS - Chemical Abstract Series identification for the analyte.

DF - "1" indicates that there was no dilution. Any other number indicates that the sample was diluted by that factor.

PQL - Practical Quantitation Limit - The lowest level that the lab would report a value.

Result -This is the numerical result of the analysis (in bold). An "ND" indicates that the analyte was not detected at greater than the PQL concentration.

Units - The units of measure for the analysis. Ug/L (ppb) and mg/L (ppm) are for liquid samples. Ug/kg (ppb) and mg/kg (ppm) are for solid based units.

Qual - An entry in this column indicates that the results are "qualified" according to the following codes (generally related to lab QC results):

J - The analyte was detected at less than the PQL, but the amount is not precisely known.

B - The analyte was detected in the lab blank indicating possible contamination.

E - The result is estimated because the measurement exceeded the upper calibration limit.

D - Surrogate recovery was low due to sample dilution.

S - Spike recovery was outside laboratory acceptance limits.

R - RPD was outside laboratory acceptance limits.

H - The measurement is estimated because the sample was analyzed after regulatory holding time expired.

* - The result exceeds the public drinking water maximum contaminant level.

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Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT:	ROGER BECK 823 ELMIRA ROAD ITHACA, NY 14850	**Client Sample ID:**	GP #1
		Sampled By:	WAYNE MATTESON
		Collection Date:	06/22/05 11:00:00 AM
Project:	313 N MEADOW ST, ITHACA	**Received at Lab:**	06/22/05
Lab ID:	0506201-01A	**Matrix:**	AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
GC/MS VOLATILES BY EPA 8260		Analyst: **CP**	Analysis Date: **Jun 25, 2005 8:48 am**			
1,1,1,2-Tetrachloroethane	630-20-6	10	50	ND	µg/L	
1,1,1-Trichloroethane	71-55-6	10	50	ND	µg/L	
1,1,2,2-Tetrachloroethane	79-34-5	10	50	ND	µg/L	
1,1,2-Trichloroethane	79-00-5	10	50	ND	µg/L	
1,1-Dichloroethane	75-34-3	10	50	ND	µg/L	
1,1-Dichloroethene	75-35-4	10	50	ND	µg/L	
1,1-Dichloropropene	563-58-6	10	50	ND	µg/L	
1,2,3-Trichlorobenzene	87-61-6	10	50	ND	µg/L	
1,2,3-Trichloropropane	96-18-4	10	50	ND	µg/L	
1,2,4-Trichlorobenzene	120-82-1	10	50	ND	µg/L	
1,2,4-Trimethylbenzene	95-63-6	10	50	ND	µg/L	
1,2-Dibromo-3-chloropropane	96-12-8	10	50	ND	µg/L	
1,2-Dibromoethane	106-93-4	10	50	ND	µg/L	
1,2-Dichlorobenzene	95-50-1	10	50	ND	µg/L	
1,2-Dichloroethane	107-06-2	10	50	ND	µg/L	
1,2-Dichloropropane	78-87-5	10	50	ND	µg/L	
1,3,5-Trimethylbenzene	108-67-8	10	50	ND	µg/L	
1,3-Dichlorobenzene	541-73-1	10	50	ND	µg/L	
1,3-Dichloropropane	142-28-9	10	50	ND	µg/L	
1,4-Dichlorobenzene	106-46-7	10	50	ND	µg/L	
2,2-Dichloropropane	594-20-7	10	50	ND	µg/L	
2-Butanone	78-93-3	10	250	ND	µg/L	
2-Chloroethyl vinyl ether	110-75-8	10	50	ND	µg/L	
2-Chlorotoluene	95-49-8	10	50	ND	µg/L	
2-Hexanone	591-78-6	10	250	ND	µg/L	
4-Chlorotoluene	106-43-4	10	50	ND	µg/L	
4-Isopropyltoluene	99-87-6	10	50	ND	µg/L	
4-Methyl-2-pentanone	108-10-1	10	250	ND	µg/L	
Acetone	67-64-1	10	250	ND	µg/L	
Benzene	71-43-2	10	50	ND	µg/L	
Bromobenzene	108-86-1	10	50	ND	µg/L	
Bromochloromethane	74-97-5	10	50	ND	µg/L	
Bromodichloromethane	75-27-4	10	50	ND	µg/L	
Bromoform	75-25-2	10	50	ND	µg/L	
Bromomethane	74-83-9	10	50	ND	µg/L	
Carbon disulfide	75-15-0	10	50	ND	µg/L	

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accredited environmental analysis

Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT: ROGER BECK
823 ELMIRA ROAD
ITHACA, NY 14850
Project: 313 N MEADOW ST, ITHACA
Lab ID: 0506201-01A

Client Sample ID: GP #1
Sampled By: WAYNE MATTESON
Collection Date: 06/22/05 11:00:00 AM
Received at Lab: 06/22/05
Matrix: AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
Carbon tetrachloride	56-23-5	10	50	ND	µg/L	
Chlorobenzene	108-90-7	10	50	ND	µg/L	
Chloroethane	75-00-3	10	50	ND	µg/L	
Chloroform	67-66-3	10	50	ND	µg/L	
Chloromethane	74-87-3	10	50	ND	µg/L	
cis-1,2-Dichloroethene	156-59-2	10	50	ND	µg/L	
cis-1,3-Dichloropropene	10061-01-5	10	50	ND	µg/L	
Dibromochloromethane	124-48-1	10	50	ND	µg/L	
Dibromomethane	74-95-3	10	50	ND	µg/L	
Dichlorodifluoromethane	75-71-8	10	50	ND	µg/L	
Ethylbenzene	100-41-4	10	50	ND	µg/L	
Hexachlorobutadiene	87-68-3	10	50	ND	µg/L	
Isopropylbenzene	98-82-8	10	50	ND	µg/L	
m,p-Xylene	1330-20-7	10	100	ND	µg/L	
Methyl tert-butyl ether	1634-04-4	10	50	ND	µg/L	
Methylene chloride	75-09-2	10	50	ND	µg/L	
n-Butylbenzene	104-51-8	10	50	ND	µg/L	
n-Propylbenzene	103-65-1	10	50	ND	µg/L	
Naphthalene	91-20-3	10	50	ND	µg/L	
o-Xylene	95-47-6	10	50	ND	µg/L	
sec-Butylbenzene	135-98-8	10	50	ND	µg/L	
Styrene	100-42-5	10	50	ND	µg/L	
tert-Butylbenzene	98-06-6	10	50	ND	µg/L	
Tetrachloroethene	127-18-4	10	50	**160**	µg/L	
Toluene	108-88-3	10	50	ND	µg/L	
trans-1,2-Dichloroethene	156-60-5	10	50	ND	µg/L	
trans-1,3-Dichloropropene	10061-02-6	10	50	ND	µg/L	
Trichloroethene	79-01-6	10	50	ND	µg/L	
Trichlorofluoromethane	75-69-4	10	50	ND	µg/L	
Vinyl acetate	108-05-4	10	50	ND	µg/L	
Vinyl chloride	75-01-4	10	50	ND	µg/L	
Surr: 1,2-Dichloroethane-d4	17060-07-0	10	78.8-118	99.1	%REC	
Surr: 4-Bromofluorobenzene	460-00-4	10	89.2-112	98.6	%REC	
Surr: Dibromofluoromethane	1868-53-7	10	83.6-118	98.3	%REC	
Surr: Toluene-d8	2037-26-5	10	87.2-112	98.2	%REC	

NYSDOH ELAP #10795 **EPA LAB ID #NY00935**

3821 Buck Drive, Cortland, NY 13045-5150
Tel 607.753.3403 Fax 607.753.3415

BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT: ROGER BECK
823 ELMIRA ROAD
ITHACA, NY 14850
Project: 313 N MEADOW ST, ITHACA
Lab ID: 0506201-02A

Client Sample ID: GP #2
Sampled By: WAYNE MATTESON
Collection Date: 06/22/05 11:30:00 AM
Received at Lab: 06/22/05
Matrix: AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
GC/MS VOLATILES BY EPA 8260		Analyst: **CP**	Analysis Date: **Jun 25, 2005 9:18 am**			
1,1,1,2-Tetrachloroethane	630-20-6	10	50	ND	µg/L	
1,1,1-Trichloroethane	71-55-6	10	50	ND	µg/L	
1,1,2,2-Tetrachloroethane	79-34-5	10	50	ND	µg/L	
1,1,2-Trichloroethane	79-00-5	10	50	ND	µg/L	
1,1-Dichloroethane	75-34-3	10	50	ND	µg/L	
1,1-Dichloroethene	75-35-4	10	50	ND	µg/L	
1,1-Dichloropropene	563-58-6	10	50	ND	µg/L	
1,2,3-Trichlorobenzene	87-61-6	10	50	ND	µg/L	
1,2,3-Trichloropropane	96-18-4	10	50	ND	µg/L	
1,2,4-Trichlorobenzene	120-82-1	10	50	ND	µg/L	
1,2,4-Trimethylbenzene	95-63-6	10	50	ND	µg/L	
1,2-Dibromo-3-chloropropane	96-12-8	10	50	ND	µg/L	
1,2-Dibromoethane	106-93-4	10	50	ND	µg/L	
1,2-Dichlorobenzene	95-50-1	10	50	ND	µg/L	
1,2-Dichloroethane	107-06-2	10	50	ND	µg/L	
1,2-Dichloropropane	78-87-5	10	50	ND	µg/L	
1,3,5-Trimethylbenzene	108-67-8	10	50	ND	µg/L	
1,3-Dichlorobenzene	541-73-1	10	50	ND	µg/L	
1,3-Dichloropropane	142-28-9	10	50	ND	µg/L	
1,4-Dichlorobenzene	106-46-7	10	50	ND	µg/L	
2,2-Dichloropropane	594-20-7	10	50	ND	µg/L	
2-Butanone	78-93-3	10	250	ND	µg/L	
2-Chloroethyl vinyl ether	110-75-8	10	50	ND	µg/L	
2-Chlorotoluene	95-49-8	10	50	ND	µg/L	
2-Hexanone	591-78-6	10	250	ND	µg/L	
4-Chlorotoluene	106-43-4	10	50	ND	µg/L	
4-Isopropyltoluene	99-87-6	10	50	ND	µg/L	
4-Methyl-2-pentanone	108-10-1	10	250	ND	µg/L	
Acetone	67-64-1	10	250	ND	µg/L	
Benzene	71-43-2	10	50	ND	µg/L	
Bromobenzene	108-86-1	10	50	ND	µg/L	
Bromochloromethane	74-97-5	10	50	ND	µg/L	
Bromodichloromethane	75-27-4	10	50	ND	µg/L	
Bromoform	75-25-2	10	50	ND	µg/L	
Bromomethane	74-83-9	10	50	ND	µg/L	
Carbon disulfide	75-15-0	10	50	ND	µg/L	

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Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT: ROGER BECK
823 ELMIRA ROAD
ITHACA, NY 14850
Project: 313 N MEADOW ST, ITHACA
Lab ID: 0506201-02A

Client Sample ID: GP #2
Sampled By: WAYNE MATTESON
Collection Date: 06/22/05 11:30:00 AM
Received at Lab: 06/22/05
Matrix: AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
Carbon tetrachloride	56-23-5	10	50	ND	µg/L	
Chlorobenzene	108-90-7	10	50	ND	µg/L	
Chloroethane	75-00-3	10	50	ND	µg/L	
Chloroform	67-66-3	10	50	ND	µg/L	
Chloromethane	74-87-3	10	50	ND	µg/L	
cis-1,2-Dichloroethene	156-59-2	10	50	ND	µg/L	
cis-1,3-Dichloropropene	10061-01-5	10	50	ND	µg/L	
Dibromochloromethane	124-48-1	10	50	ND	µg/L	
Dibromomethane	74-95-3	10	50	ND	µg/L	
Dichlorodifluoromethane	75-71-8	10	50	ND	µg/L	
Ethylbenzene	100-41-4	10	50	ND	µg/L	
Hexachlorobutadiene	87-68-3	10	50	ND	µg/L	
Isopropylbenzene	98-82-8	10	50	ND	µg/L	
m,p-Xylene	1330-20-7	10	100	ND	µg/L	
Methyl tert-butyl ether	1634-04-4	10	50	ND	µg/L	
Methylene chloride	75-09-2	10	50	ND	µg/L	
n-Butylbenzene	104-51-8	10	50	ND	µg/L	
n-Propylbenzene	103-65-1	10	50	ND	µg/L	
Naphthalene	91-20-3	10	50	ND	µg/L	
o-Xylene	95-47-6	10	50	ND	µg/L	
sec-Butylbenzene	135-98-8	10	50	ND	µg/L	
Styrene	100-42-5	10	50	ND	µg/L	
tert-Butylbenzene	98-06-6	10	50	ND	µg/L	
Tetrachloroethene	127-18-4	10	50	**700**	µg/L	
Toluene	108-88-3	10	50	ND	µg/L	
trans-1,2-Dichloroethene	156-60-5	10	50	ND	µg/L	
trans-1,3-Dichloropropene	10061-02-6	10	50	ND	µg/L	
Trichloroethene	79-01-6	10	50	ND	µg/L	
Trichlorofluoromethane	75-69-4	10	50	ND	µg/L	
Vinyl acetate	108-05-4	10	50	ND	µg/L	
Vinyl chloride	75-01-4	10	50	ND	µg/L	
Surr: 1,2-Dichloroethane-d4	17060-07-0	10	78.8-118	100	%REC	
Surr: 4-Bromofluorobenzene	460-00-4	10	89.2-112	101	%REC	
Surr: Dibromofluoromethane	1868-53-7	10	83.6-118	101	%REC	
Surr: Toluene-d8	2037-26-5	10	87.2-112	98.5	%REC	

NYSDOH ELAP #10795 **EPA LAB ID #NY00935**

3821 Buck Drive, Cortland, NY 13045-5150
Tel 607.753.3403 Fax 607.753.3415

BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT:	ROGER BECK 823 ELMIRA ROAD ITHACA, NY 14850	**Client Sample ID:**	GP #3
		Sampled By:	WAYNE MATTESON
		Collection Date:	06/22/05 12:00:00 PM
Project:	313 N MEADOW ST, ITHACA	**Received at Lab:**	06/22/05
Lab ID:	0506201-03A	**Matrix:**	AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
GC/MS VOLATILES BY EPA 8260		Analyst: **CP**	Analysis Date: **Jun 25, 2005 9:49 am**			
1,1,1,2-Tetrachloroethane	630-20-6	10	50	ND	µg/L	
1,1,1-Trichloroethane	71-55-6	10	50	ND	µg/L	
1,1,2,2-Tetrachloroethane	79-34-5	10	50	ND	µg/L	
1,1,2-Trichloroethane	79-00-5	10	50	ND	µg/L	
1,1-Dichloroethane	75-34-3	10	50	ND	µg/L	
1,1-Dichloroethene	75-35-4	10	50	ND	µg/L	
1,1-Dichloropropene	563-58-6	10	50	ND	µg/L	
1,2,3-Trichlorobenzene	87-61-6	10	50	ND	µg/L	
1,2,3-Trichloropropane	96-18-4	10	50	ND	µg/L	
1,2,4-Trichlorobenzene	120-82-1	10	50	ND	µg/L	
1,2,4-Trimethylbenzene	95-63-6	10	50	ND	µg/L	
1,2-Dibromo-3-chloropropane	96-12-8	10	50	ND	µg/L	
1,2-Dibromoethane	106-93-4	10	50	ND	µg/L	
1,2-Dichlorobenzene	95-50-1	10	50	ND	µg/L	
1,2-Dichloroethane	107-06-2	10	50	ND	µg/L	
1,2-Dichloropropane	78-87-5	10	50	ND	µg/L	
1,3,5-Trimethylbenzene	108-67-8	10	50	ND	µg/L	
1,3-Dichlorobenzene	541-73-1	10	50	ND	µg/L	
1,3-Dichloropropane	142-28-9	10	50	ND	µg/L	
1,4-Dichlorobenzene	106-46-7	10	50	ND	µg/L	
2,2-Dichloropropane	594-20-7	10	50	ND	µg/L	
2-Butanone	78-93-3	10	250	ND	µg/L	
2-Chloroethyl vinyl ether	110-75-8	10	50	ND	µg/L	
2-Chlorotoluene	95-49-8	10	50	ND	µg/L	
2-Hexanone	591-78-6	10	250	ND	µg/L	
4-Chlorotoluene	106-43-4	10	50	ND	µg/L	
4-Isopropyltoluene	99-87-6	10	50	ND	µg/L	
4-Methyl-2-pentanone	108-10-1	10	250	ND	µg/L	
Acetone	67-64-1	10	250	ND	µg/L	
Benzene	71-43-2	10	50	ND	µg/L	
Bromobenzene	108-86-1	10	50	ND	µg/L	
Bromochloromethane	74-97-5	10	50	ND	µg/L	
Bromodichloromethane	75-27-4	10	50	ND	µg/L	
Bromoform	75-25-2	10	50	ND	µg/L	
Bromomethane	74-83-9	10	50	ND	µg/L	
Carbon disulfide	75-15-0	10	50	ND	µg/L	

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Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT: ROGER BECK
823 ELMIRA ROAD
ITHACA, NY 14850
Project: 313 N MEADOW ST, ITHACA
Lab ID: 0506201-03A

Client Sample ID: GP #3
Sampled By: WAYNE MATTESON
Collection Date: 06/22/05 12:00:00 PM
Received at Lab: 06/22/05
Matrix: AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
Carbon tetrachloride	56-23-5	10	50	ND	µg/L	
Chlorobenzene	108-90-7	10	50	ND	µg/L	
Chloroethane	75-00-3	10	50	ND	µg/L	
Chloroform	67-66-3	10	50	ND	µg/L	
Chloromethane	74-87-3	10	50	ND	µg/L	
cis-1,2-Dichloroethene	156-59-2	10	50	ND	µg/L	
cis-1,3-Dichloropropene	10061-01-5	10	50	ND	µg/L	
Dibromochloromethane	124-48-1	10	50	ND	µg/L	
Dibromomethane	74-95-3	10	50	ND	µg/L	
Dichlorodifluoromethane	75-71-8	10	50	ND	µg/L	
Ethylbenzene	100-41-4	10	50	ND	µg/L	
Hexachlorobutadiene	87-68-3	10	50	ND	µg/L	
Isopropylbenzene	98-82-8	10	50	ND	µg/L	
m,p-Xylene	1330-20-7	10	100	ND	µg/L	
Methyl tert-butyl ether	1634-04-4	10	50	ND	µg/L	
Methylene chloride	75-09-2	10	50	ND	µg/L	
n-Butylbenzene	104-51-8	10	50	ND	µg/L	
n-Propylbenzene	103-65-1	10	50	ND	µg/L	
Naphthalene	91-20-3	10	50	ND	µg/L	
o-Xylene	95-47-6	10	50	ND	µg/L	
sec-Butylbenzene	135-98-8	10	50	ND	µg/L	
Styrene	100-42-5	10	50	ND	µg/L	
tert-Butylbenzene	98-06-6	10	50	ND	µg/L	
Tetrachloroethene	127-18-4	10	50	**1700**	µg/L	
Toluene	108-88-3	10	50	ND	µg/L	
trans-1,2-Dichloroethene	156-60-5	10	50	ND	µg/L	
trans-1,3-Dichloropropene	10061-02-6	10	50	ND	µg/L	
Trichloroethene	79-01-6	10	50	**56**	µg/L	
Trichlorofluoromethane	75-69-4	10	50	ND	µg/L	
Vinyl acetate	108-05-4	10	50	ND	µg/L	
Vinyl chloride	75-01-4	10	50	ND	µg/L	
Surr: 1,2-Dichloroethane-d4	17060-07-0	10	78.8-118	97.6	%REC	
Surr: 4-Bromofluorobenzene	460-00-4	10	89.2-112	101	%REC	
Surr: Dibromofluoromethane	1868-53-7	10	83.6-118	100	%REC	
Surr: Toluene-d8	2037-26-5	10	87.2-112	98.0	%REC	

NYSDOH ELAP #10795 **EPA LAB ID #NY00935**

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accredited environmental analysis

Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT: ROGER BECK
823 ELMIRA ROAD
ITHACA, NY 14850
Project: 313 N MEADOW ST, ITHACA
Lab ID: 0506201-04A

Client Sample ID: GP #4
Sampled By: WAYNE MATTESON
Collection Date: 06/22/05 12:30:00 PM
Received at Lab: 06/22/05
Matrix: AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
GC/MS VOLATILES BY EPA 8260		Analyst: **CP**	Analysis Date: **Jun 25, 2005 10:20 am**			
1,1,1,2-Tetrachloroethane	630-20-6	10	50	ND	µg/L	
1,1,1-Trichloroethane	71-55-6	10	50	ND	µg/L	
1,1,2,2-Tetrachloroethane	79-34-5	10	50	ND	µg/L	
1,1,2-Trichloroethane	79-00-5	10	50	ND	µg/L	
1,1-Dichloroethane	75-34-3	10	50	ND	µg/L	
1,1-Dichloroethene	75-35-4	10	50	ND	µg/L	
1,1-Dichloropropene	563-58-6	10	50	ND	µg/L	
1,2,3-Trichlorobenzene	87-61-6	10	50	ND	µg/L	
1,2,3-Trichloropropane	96-18-4	10	50	ND	µg/L	
1,2,4-Trichlorobenzene	120-82-1	10	50	ND	µg/L	
1,2,4-Trimethylbenzene	95-63-6	10	50	ND	µg/L	
1,2-Dibromo-3-chloropropane	96-12-8	10	50	ND	µg/L	
1,2-Dibromoethane	106-93-4	10	50	ND	µg/L	
1,2-Dichlorobenzene	95-50-1	10	50	ND	µg/L	
1,2-Dichloroethane	107-06-2	10	50	ND	µg/L	
1,2-Dichloropropane	78-87-5	10	50	ND	µg/L	
1,3,5-Trimethylbenzene	108-67-8	10	50	ND	µg/L	
1,3-Dichlorobenzene	541-73-1	10	50	ND	µg/L	
1,3-Dichloropropane	142-28-9	10	50	ND	µg/L	
1,4-Dichlorobenzene	106-46-7	10	50	ND	µg/L	
2,2-Dichloropropane	594-20-7	10	50	ND	µg/L	
2-Butanone	78-93-3	10	250	ND	µg/L	
2-Chloroethyl vinyl ether	110-75-8	10	50	ND	µg/L	
2-Chlorotoluene	95-49-8	10	50	ND	µg/L	
2-Hexanone	591-78-6	10	250	ND	µg/L	
4-Chlorotoluene	106-43-4	10	50	ND	µg/L	
4-Isopropyltoluene	99-87-6	10	50	ND	µg/L	
4-Methyl-2-pentanone	108-10-1	10	250	ND	µg/L	
Acetone	67-64-1	10	250	ND	µg/L	
Benzene	71-43-2	10	50	ND	µg/L	
Bromobenzene	108-86-1	10	50	ND	µg/L	
Bromochloromethane	74-97-5	10	50	ND	µg/L	
Bromodichloromethane	75-27-4	10	50	ND	µg/L	
Bromoform	75-25-2	10	50	ND	µg/L	
Bromomethane	74-83-9	10	50	ND	µg/L	
Carbon disulfide	75-15-0	10	50	ND	µg/L	

NYSDOH ELAP #10795 **EPA LAB ID #NY00935**

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Report Date: *29-Jun-05*
Lab Log No: **0506201**

CLIENT: ROGER BECK
823 ELMIRA ROAD
ITHACA, NY 14850
Project: 313 N MEADOW ST, ITHACA
Lab ID: 0506201-04A

Client Sample ID: GP #4
Sampled By: WAYNE MATTESON
Collection Date: 06/22/05 12:30:00 PM
Received at Lab: 06/22/05
Matrix: AQUEOUS

Analyses	CAS	DF	PQL	Result	Units	Qual
Carbon tetrachloride	56-23-5	10	50	ND	µg/L	
Chlorobenzene	108-90-7	10	50	ND	µg/L	
Chloroethane	75-00-3	10	50	ND	µg/L	
Chloroform	67-66-3	10	50	ND	µg/L	
Chloromethane	74-87-3	10	50	ND	µg/L	
cis-1,2-Dichloroethene	156-59-2	10	50	ND	µg/L	
cis-1,3-Dichloropropene	10061-01-5	10	50	ND	µg/L	
Dibromochloromethane	124-48-1	10	50	ND	µg/L	
Dibromomethane	74-95-3	10	50	ND	µg/L	
Dichlorodifluoromethane	75-71-8	10	50	ND	µg/L	
Ethylbenzene	100-41-4	10	50	ND	µg/L	
Hexachlorobutadiene	87-68-3	10	50	ND	µg/L	
Isopropylbenzene	98-82-8	10	50	ND	µg/L	
m,p-Xylene	1330-20-7	10	100	ND	µg/L	
Methyl tert-butyl ether	1634-04-4	10	50	ND	µg/L	
Methylene chloride	75-09-2	10	50	ND	µg/L	
n-Butylbenzene	104-51-8	10	50	ND	µg/L	
n-Propylbenzene	103-65-1	10	50	ND	µg/L	
Naphthalene	91-20-3	10	50	ND	µg/L	
o-Xylene	95-47-6	10	50	ND	µg/L	
sec-Butylbenzene	135-98-8	10	50	ND	µg/L	
Styrene	100-42-5	10	50	ND	µg/L	
tert-Butylbenzene	98-06-6	10	50	ND	µg/L	
Tetrachloroethene	127-18-4	10	50	**130**	µg/L	
Toluene	108-88-3	10	50	ND	µg/L	
trans-1,2-Dichloroethene	156-60-5	10	50	ND	µg/L	
trans-1,3-Dichloropropene	10061-02-6	10	50	ND	µg/L	
Trichloroethene	79-01-6	10	50	ND	µg/L	
Trichlorofluoromethane	75-69-4	10	50	ND	µg/L	
Vinyl acetate	108-05-4	10	50	ND	µg/L	
Vinyl chloride	75-01-4	10	50	ND	µg/L	
Surr: 1,2-Dichloroethane-d4	17060-07-0	10	78.8-118	117	%REC	
Surr: 4-Bromofluorobenzene	460-00-4	10	89.2-112	102	%REC	
Surr: Dibromofluoromethane	1868-53-7	10	83.6-118	117	%REC	
Surr: Toluene-d8	2037-26-5	10	87.2-112	97.4	%REC	

NYSDOH ELAP #10795 **EPA LAB ID #NY00935**

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CHAIN OF CUSTODY RECORD

LABORATORY LOG NO. 0506201

NOTE: The information on this form was supplied by the client and authorizes the Laboratory to proceed with analysis according to the **Standard Terms and Conditions** of Buck Environmental Laboratories, Inc. provided on the reverse side of this chain-of-custody. The client authorization signature acknowledges that the terms are acceptable and agreed to by the client.

CLIENT Roger Beck
MAILING ADDRESS 823 Elmira Rd. Ithaca, NY
PHONE NO.
REPORT TO ATTN: Wayne
PROJECT/ SAMPLING SITE 313 N. Meadow St., Ithaca
PO NO.
SAMPLED BY Wayne Matteson

QA/QC ☐ NORMAL ☐ PREMIUM
TURNAROUND ☐ NORMAL ☐ EXPEDITE bq 6/28
CLIENT AUTHORIZ. SIGN.

ANALYSIS REQUESTED

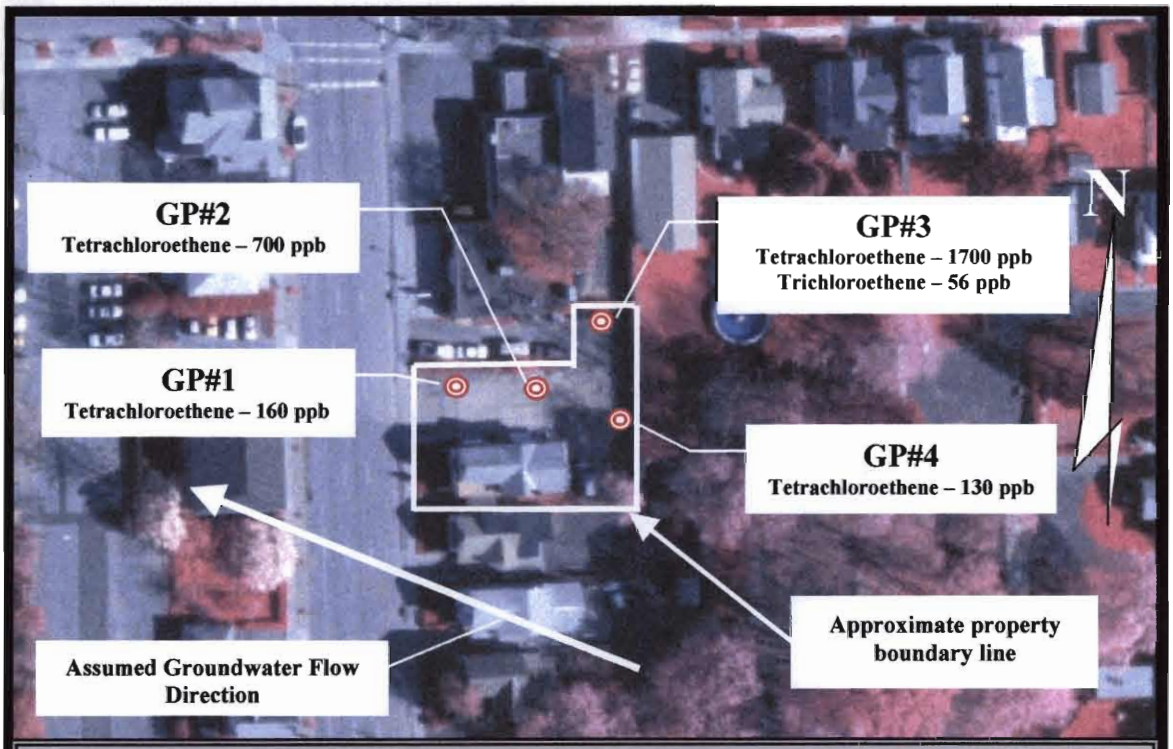
DATE	TIME	SAMPLE DESCRIPTION	8260 (full)	MATRIX (AIR, WATER, SOLID)	GRAB OR COMPOSITE	NUMBER OF CONTAINERS	VOLUME OF CONTAINERS	PRESERVATIVE USED
6/22	11	GP #1	X	W	G	2	40mL	HCl
6/22	11:30	GP #2	X	W	G	3	40mL	HCl
6/22	12	GP #3	X	W	G	3	40mL	HCl
6/22	12:30	GP #4	X	W	G	4	40mL	HCl

DATE	TIME	RELINQUISHED BY	ACCEPTED BY	ADDITIONAL COMMENTS
6/22	3:45	1 Wayne C Matteson	1	
		2	2	
		3	3 Pamela Davis	
6/22/05	3:45	4	4	

FOR LAB USE ONLY- CONDITIONS AT RECEIPT TEMP 3.60 ☑ COOLER ☑ ICE ☐ CUSTODY SEALS

3821 BUCK DRIVE, PO BOX 5150, CORTLAND, NY 13045
(607)753-3403 FAX 753-3415
INFO@BUCKLABS.COM

BRANCH OFFICE - 14 SMITH AVE, BINGHAMTON, NY 13904
(607)771-0866 FAX 771-0966



Sampling Location Map

Roger Beck Site
313 North Meadow Street
Ithaca, NY

June 2005

Source: NYSGIS
2003 Aerial Photography