LCS INC.
Environmental and Real Estate Consultants

CORPORATE OFFICE
P.O. Box 406
Buffalo, New York 14205
716-845-6145
1-800-474-6802
FAX 716-845-6164
mail@lenderconsulting.com

November 13, 2002

Ms. Virginia Mazgajewski
Shylo Group, Inc.
356 Hertel Avenue
Buffalo, New York 14207 (716) 481-0233

Mr. Bruce Rossi
Valley National Bank
1334 US Highway Route 22 East
North Plainfield, New Jersey 07060

Re: Limited and Focused Subsurface Investigation
356 Hertel Avenue
Buffalo, New York
LCS Project Number 02B1140.22

Dear Ms. Mazgajewski and Mr. Rossi:

As requested, Lender Consulting Services, Inc. (LCS) performed a limited and focused subsurface investigation at 356 Hertel Avenue, Buffalo, New York (See Figure 1). This investigation was recommended based on the information summarized in LCS' Phase I Environmental Site Assessment report dated October 18, 2002. That investigation identified the following as a potential environmental issue.

- A fill port was noted in the parking lot on the south side of the subject structure. According to the site contact, one "slushed" underground storage tank (UST) is located in that area. According to municipal records, one 1,000-gallon gasoline UST was installed at the subject property in 1962; this tank was replaced with a 4,000-gallon gasoline UST in 1969 and "slushed" (i.e., filled with water or concrete) in 1986. The records indicate that these tanks were/are located in the area of the fill port. Based on LCS' experience the referencing the tank as "slushed" likely indicates the tank was filled with concrete rather than water.

The purpose of this intrusive study was to determine the likelihood that soils in the area of concern (AOC) had been impacted by volatile organic compounds (VOCs) typically associated with gasoline products. Soil samples were collected for stratigraphic characterization and field monitoring with selected samples submitted for laboratory analysis to confirm field observations.

Due to the findings of this investigation, as required by law, the New York State Department of Environmental Conservation (NYSDEC) was notified and spill number 0208304 assigned. Ms. Francine Gallego is the Spill Investigator assigned to the site.

The following is a summary of the methods and results of the investigation.

Methods of Investigation

Prior to initiation of the test borings, LCS attempted to remove the fill port cap to the UST to allow confirmation as to the method of the tank closure. However, the fill cap could not be removed at the time of the investigation.

Boreholes BH1 through BH7 were completed on November 6, 2002, proximate to the AOC. (See Figure 2.) Soil samples were collected with a 48-inch long macro-core sampler. Soil samples were generally collected within each borehole continuously from the ground surface until approximately 12 feet below the ground surface (ft. bgs) or until equipment refusal was encountered, whichever occurred first. Any downhole equipment was decontaminated with an Alconox and water wash and tap water rinse between boreholes.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes at room temperature, the container was opened slightly and total VOC concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with petroleum.) The results of this screening are included in the attached boring logs. Based on the field observations and screening results, soils were selected for analysis (see below).

Sample Analysis

Following labeling of the laboratory-supplied sample containers, soil samples which appeared to most likely be impacted were selected for analysis and placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory, for analysis for VOCs in accordance with United States Environmental Protection Agency (USEPA) SW-846 Methods.

The following table summarizes the specific analytical testing performed and their respective sample locations:

Sample Location	AOC	Analytical Testing Performed
BH1 (6-8 ft. bgs)	UST Area	8021 (STARS List)
BH6 (8-10 ft. bgs)	UST Area	8021 (STARS List)
BH7 (6-8 ft. bgs)	UST Area	8021 (STARS List)

Results of Field Investigation

Boreholes (BH1 through BH7) were completed in the AOC. (See Figure 2.) A total of 38 soil samples were collected for geologic description. Most of the boreholes generally encountered miscellaneous gravelly silt fill material up to approximately 5 ft. bgs and were generally underlain by gravelly clay over lean clay. Equipment refusal was encountered with boreholes BH4A and BH4B. The cause of the refusal appeared to the top of the UST. Generally, water was not encountered on-site, except within boreholes BH4A and 4B. However, this water appears to be the result of a small localized area of perched water situated within the fill materials located atop the UST. That water does not appear hydraulically connected to the underlying aquifer.]

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in all of the 38 samples collected. These elevated concentrations ranged from 0.1 parts per million (ppm) to >2000 ppm [(BH1 (6-8 ft. bgs), BH7 (4-8 ft. bgs)]. Petroleum-type odors were detected within four of the eight boreholes [(BH1 (4-11 ft. bgs), BH2 (4-8 ft. bgs), BH3 (4-8 ft. bgs), BH7 (2-8 ft. bgs)]. In LCS' experience, the PID measurements and field observations in some borings suggest some VOC (specifically petroleum) impact.
Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.

Analytical Testing Results

The soil samples collected and analyzed detected the following analytes. The respective concentrations as well as applicable regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

VOC Analysis by 8021 (STARS list)

Compound	BH1 (6-8 ft. bgs) µg/kg	BH6 (8-10 ft. bgs) µg/kg	BH7 (6-8 ft. bgs) µg/kg	NYSDEC Guidance Value µg/kg
benzene	75.0	<0.5	93.2	60 or MDL
toluene	250	2.9	164	1,500
ethylbenzene	280	<0.5	320	5,500
m,p-xylene	1,260	<1.0	382	1,200*
o-xylene	209	1.0	215	1,200*
isopropylbenzene	373	<1.0	<125	2,300
n-propylbenzene	710	<1.0	484	3,700
1,3,5-trimethylbenzene	4,550	<1.0	818	3,300
1,2,4-trimethylbenzene	14,200	<1.0	3,140	10,000**
sec-butylbenzene	1,940	<1.0	599	10,000**
p-isopropyltoluene	1,410	<1.0	251	10,000**
n-butylbenzene	24,200	<1.0	1,620	10,000**
naphthalene	10,400	12.1	1,410	13,000

µg/kg = micrograms per kilogram
NYSDEC Guidance Values = Division Technical and Administrative Guidance Memorandum No. 4046 (TAGM 4046): Determination of Soil Cleanup Objectives and Cleanup levels and addendum (August, 2001).
* NYSDEC guidance value is the sum of m,p-xylene and o-xylene.
** As per TAGM 4046 individual and sum of VOCs not listed (tentatively identified compounds (TICs)) less than or equal to 10,000. (The analytical methods employed do not include TICs.)
< = Analyte was not detected at the detection level indicated.
MDL = Method Detection Limit
= Analyte detected at a concentration above NYSDEC Recommended Soil Clean up Objectives

Conclusion

Based on analytical results of this investigation, two boreholes (BH1 and BH7) contained analytes at concentrations above typical NYSDEC recommended soil clean-up objectives; BH1 contained four elevated analytes while BH7 contained only one elevated analyte. Based on to the results of this study and the nature of the soils on-site, the extent of the impact is expected to be limited in extent.

Recommendations

A copy of this report should be submitted to the NYSDEC for their review. While impact was identified, the extent is expected to be limited and the source of the impact (the historic UST) was reportedly "slushed." As such, LCS would request that the NYSDEC assign the site a status of "inactive" with no further work be required.

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

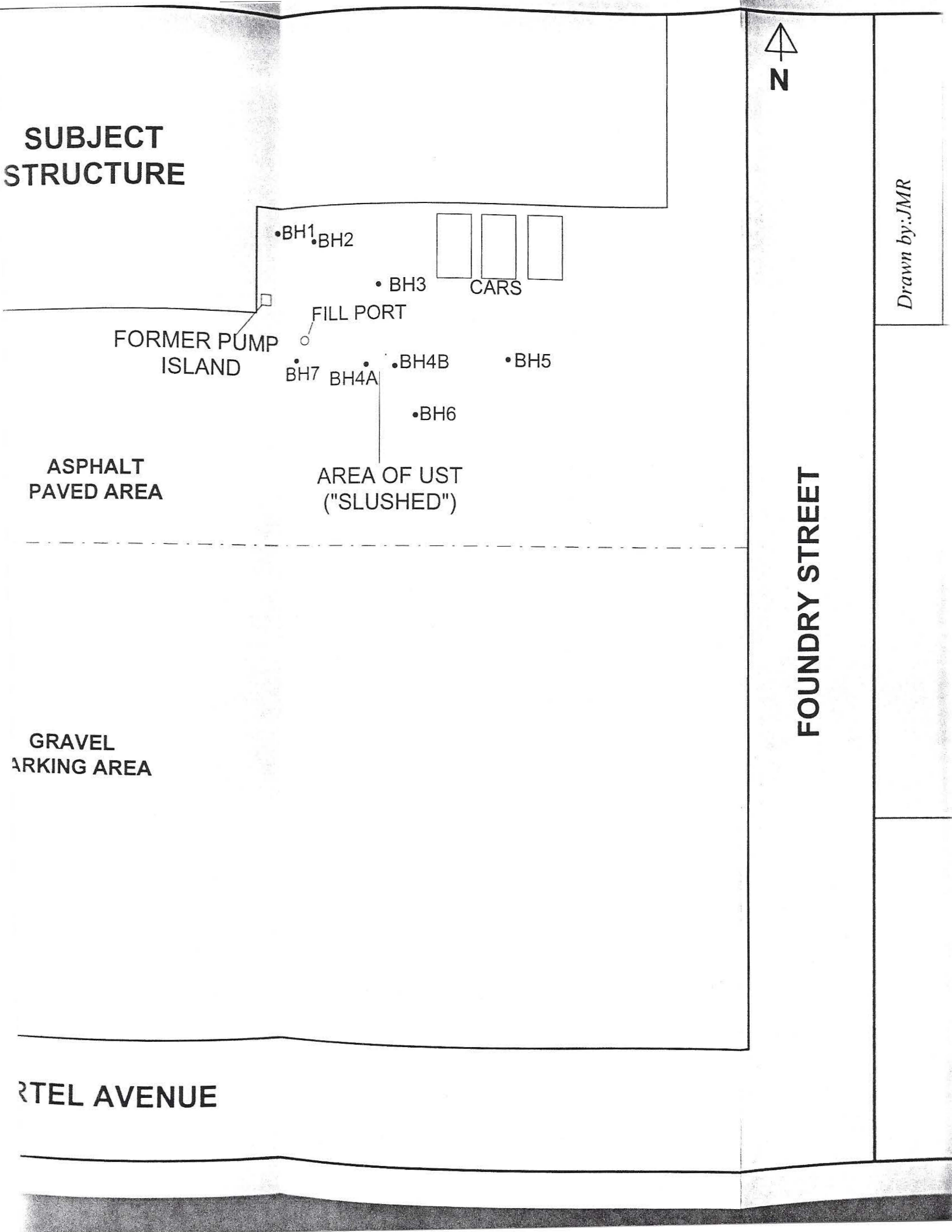
Sincerely,

Douglas B. Reid
VP, Environmental Services
Environmental Scientist

Reviewed by:

Robert J. Szustakowski
Chief Operating Officer
Hydrogeologist

Attachments


N
SUBJECT STRUCTURE
BH1
BH2
BH3
CARS
FILL PORT
FORMER PUMP ISLAND
BH7
BH4A
BH4B
BH5
BH6
ASPHALT PAVED AREA
AREA OF UST ("SLUSHED")
FOUNDRY STREET
GRAVEL
ARKING AREA
RTEL AVENUE
Drawn by:JMR

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH1

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	3.8	0-2	U	-	-	24	0-0.25 ft: Asphalt
2	4.3	2-4	U	-	-	24	0.25-3.75 ft: Black/brown gravelly silt (no plasticity, moist)
3	108	4-6	U	-	-	24	3.75-6.0 ft: Light brown gravelly clay (no plasticity, hard, moist)
4	>2,000	6-8	U	-	-	24	6.0-12.0 ft: Light brown lean clay (no plasticity, hard, moist)
5	777	8-10	U	-	-	24	
6	8.6	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.5 ft. bgs

Slight petroleum-type odors @ ~4.0-11.0 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH2

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	1.1	0-2	U	-	-	24	0-.25 ft: Asphalt
2	1.5	2-4	U	-	-	24	0.25-3.75 ft: Black/brown gravelly silt (no plasticity, moist)
3	320	4-6	U	-	-	24	3.75-6.0 ft: Light brown gravelly clay (no plasticity, hard, moist)
4	192	6-8	U	-	-	24	6.0-12.0 ft: Light brown lean clay (no plasticity, hard, moist)
5	67.2	8-10	U	-	-	24	
6	7.1	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.0 ft. bgs

Trace petroleum-type odors @ ~4.0-8.0 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH3

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	2.1	0-2	U	-	-	20	0-.25 ft: Asphalt
2	2.6	2-4	U	-	-	20	0.25-3.75 ft: Black/brown gravelly silt (no plasticity, moist)
3	12.4	4-6	U	-	-	24	3.75-6.0 ft: Light brown gravelly clay (no plasticity, hard, moist)
4	123	6-8	U	-	-	24	6.0-12.0 ft: Light brown lean clay (no plasticity, hard, moist)
5	77.8	8-10	U	-	-	24	
6	16.0	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.0 ft. bgs

Trace petroleum-type odors @ ~4.0-8.0 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH4A

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: ~4.5 ft. bgs AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	2.1	0-2	U	-	-	24	0-0.25 ft: Asphalt
2	2.0	2-5	U	-	-	24	0.25-2.25 ft: Black sandy gravel (coarse, fine, angular, loose, moist) 2.25-5.0 ft: Brown well-graded sand (fine, medium dense, moist to wet) Refusal @ ~5.0 ft. bgs

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~5.0 ft. bgs

No petroleum-type odors

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH4B

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	-	0-2	U	-	-	0	0-4.5 ft: No Recovery
2	-	2-4.5	U	-	-	0	Refusal @ ~4.5 ft.

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4.5 ft. bgs

No petroleum-type odors

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH5

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	2.6	0-2	U	-	-	24	0-0.25 ft: Asphalt
2	3.2	2-4	U	-	-	24	0.25-3.75 ft: Black/brown gravelly silt (no plasticity, moist)
3	1.4	4-6	U	-	-	24	3.75-6.0 ft: Light brown gravelly clay (no plasticity, hard, moist)
4	4.9	6-8	U	-	-	24	6.0-12.0 ft: Light brown lean clay (no plasticity, hard, moist)
5	4.8	8-10	U	-	-	24	
6	3.0	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1.75 ft. bgs

No petroleum-type odors

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH6

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	3.2	0-2	U	-	-	24	0-0.25 ft: Asphalt
2	3.5	2-4	U	-	-	24	0.25-3.75 ft: Black/brown gravelly silt (no plasticity, moist)
3	3.8	4-6	U	-	-	24	3.75-6.0 ft: Light brown gravelly clay (no plasticity, hard, moist)
4	3.3	6-8	U	-	-	24	6.0-12.0 ft: Light brown lean clay (no plasticity, hard, moist)
5	4.9	8-10	U	-	-	24	
6	3.2	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.25 ft. bgs

No petroleum-type odors

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 356 Hertel Avenue, Buffalo, New York PROJECT No. 02B1140.22

CLIENT: Shylo Group Inc. WELL/BORING No. BH7

DATE STARTED: 11/6/02 DATE COMPLETED: 11/6/02 RECORDED BY: APS

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: ~40F, Cloudy DRILL RIG: Geoprobe DRILLER: BMS Drilling

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	10.5	0-2	U	-	-	24	0-0.25 ft: Asphalt
2	73.3	2-4	U	-	-	24	0.25-3.75 ft: Black/brown gravelly silt (no plasticity, moist)
3	>2,000	4-6	U	-	-	24	3.75-6.0 ft: Light brown gravelly clay (no plasticity, hard, moist)
4	>2,000	6-8	U	-	-	24	6.0-12.0 ft: Light brown lean clay (no plasticity, hard, moist)
5	15.6	8-10	U	-	-	24	
6	8.0	10-12	U	-	-	24	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.0 ft. bgs

Slight petroleum-type odors @ ~2.0-8.0 ft. bgs

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date : 11/08/02
Group Number : 2021-2696

Prepared For :
Mr. Doug Reid
Lender Consulting Services, Inc.
PO Box 406
Buffalo, NY 14205
FAX: 716-854-0718

Site: 356 Hertel Ave

Analytical Services

Analytical Parameters	Number of Samples	Turnaround Time
8021 STARS	3	1 Business Day

Report Released By : Daniel W. Vollmer

Daniel. W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977

ACCREDITED IN ACCORDANCE WITH nelac

WASTE STREAM TECHNOLOGY

Waste Stream Technology, Inc.
302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report

Group Number: 2021-2696
Site: 356 Hertel Ave

Field and Laboratory Information

WST ID	Client ID	Matrix	Date Sampled	Date Received	Time
WT12264	BH1 6-8ft. Bgs	Soil	11/06/02	11/06/02	14:30
WT12265	BH6 8-10ft. Bgs	Soil	11/06/02	11/06/02	14:30
WT12266	BH7 6-8ft. Bgs	Soil	11/06/02	11/06/02	14:30

METHODOLOGIES

The specific methodologies employed in obtaining the analytical data reported are indicated on each of the result forms. The method numbers shown refer to the following U.S. Environmental Protection Agency Reference:

Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020, March 1979, Revised 1983, U.S. Environmental Monitoring and Support Laboratory, Cincinnati, Ohio 45268.

Federal Register, 40 CFR Part 136: Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act. Revised July 1992.

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. Third Edition, Revised December 1996, U.S. EPA SW-846.

Annual Book of ASTM Standards, Volume II. ASTM, 100 Harbor Drive, West Conshohocken, PA 19428-2959.

Standard Methods for the Examination of Water and Wastewater. (20th Edition). American Public Health Association, 1105 18th Street, NW, Washington, D.C. 20036.

DETECTION LIMIT DEFINITIONS

MDL = Method Detection Limit. When reported, the MDL is the minimum concentration that can be measured and reported with 99 percent confidence that the concentration is greater than zero.

MQL = Method Quantitation Limit. The MQL is the minimum concentration that can be reliably reported. The MQL is equal to the concentration of the lowest standard used for the initial calibration of the instrument.

Reporting Limit = A reporting limit is the minimum concentration that can be measured and reported for analyses where initial caibration is not applicable. The reporting limit is based on the specifics of the analysis procedure.

ORGANIC DATA QUALIFIERS

U - Indicates compound was analyzed for but not detected at the stated MQL or Reporting Limit. If the MDL has been reported, U indicates that the compound was not detected at the MDL.

J - Indicates an estimated value. This flag is used to qualify the following: when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed; a compound is detected in the sample but the result is less than the method quantitation limit but greater than the statistically calculated laboratory method detection limit; the result for a compound is estimated due to the analysis of a sample beyond the USEPA defined holding time; the result for a compound is estimated due to a quality control sample result that is outside the laboratory quality control recovery limits.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as the sample.

E - This flag identifies all compounds whose concentrations exceed the calibration range of the GC/MS instrument of that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - Matrix spike recovery is greater than the expected upper limit of analytical performance.

L - Matrix spike recovery is less than the expected lower limit of analytical performance.

- Indicates that a surrogate recovery was found to be outside the expected limits of analytical performance.

$ - Indicates that the surrogate compound was diluted out. The sample had to be diluted to obtain analytical results and a recovery could not be calculated.

(%) - Indicates that the compound is a surrogate and that the value reported for this compound is in percent recovery. The quality control recovery limits are indicated in the detection limit or QC limits column.

Waste Stream Technology, Inc.

8021 Soil Analysis-NYSDEC List

5030/8021

Site: 356 Hertel Ave
Date Sampled: 11/06/02
Date Received: 11/06/02

Group Number: 2021-2696
Units: µg/Kg
Matrix: Soil

WST ID: WT12264
Client ID: BH1 6-8ft. Bgs
Extraction Date: 11/07/02
Date Analyzed: 11/07/02

Compound	MQL	Result	QC Limits (%)	Qualifier
methyl-t-butylether	625	Not detected		U
benzene	62.5	75.0		
toluene	62.5	250		
ethylbenzene	62.5	280		
m,p-xylene	125	1260		
o-xylene	62.5	209		
isopropylbenzene	125	373		
n-propylbenzene	125	710		
1,3,5-trimethylbenzene	125	4550		D
tert-butylbenzene	125	Not detected		U
1,2,4-trimethylbenzene	125	14200		D
sec-butylbenzene	125	1940		
p-isopropyltoluene	125	1410		
n-butylbenzene	125	24200		D
naphthalene	125	10400		D
a,a,a-Trifluorotoluene (%)		114	73-130	

Dilution Factor 125

WASTE STREAM TECHNOLOGY

Waste Stream Technology, Inc.

8021 Soil Analysis-NYSDEC List

5030/8021

356 Hertel Ave
Sampled: 11/06/02
Received: 11/06/02

Group Number: 2021-2696
Units: µg/Kg
Matrix: Soil

WST ID: WT12265
Client ID: BH6 8-10ft. Bgs
Extraction Date: NA
Date Analyzed: 11/07/02

Compound	MQL	Result	QC Limits (%)	Qualifier
Methyl-t-butylether	5.0	Not detected		U
Benzene	0.5	Not detected		U
Toluene	0.5	2.9		
Ethylbenzene	0.5	Not detected		U
m,p-xylene	1.0	Not detected		U
o-xylene	0.5	1.0		
Isopropylbenzene	1.0	Not detected		U
n-propylbenzene	1.0	Not detected		U
1,3,5-trimethylbenzene	1.0	Not detected		U
tert-butylbenzene	1.0	Not detected		U
1,2,4-trimethylbenzene	1.0	Not detected		U
sec-butylbenzene	1.0	Not detected		U
p-isopropyltoluene	1.0	Not detected		U
n-butylbenzene	1.0	Not detected		U
Naphthalene	1.0	12.1		
a,a,a-Trifluorotoluene (%)		96	73-130	

Dilution Factor 1

WASTE STREAM TECHNOLOGY

Waste Stream Technology, Inc.

8021 Soil Analysis-NYSDEC List

5030/8021

Site: 356 Hertel Ave
Date Sampled: 11/06/02
Date Received: 11/06/02

Group Number: 2021-2696
Units: µg/Kg
Matrix: Soil

WST ID: WT12266
Client ID: BH7 6-8ft. Bgs
Extraction Date: 11/07/02
Date Analyzed: 11/07/02

Compound	MQL	Result	QC Limits (%)	Qualifier
methyl-t-butylether	625	Not detected		U
benzene	62.5	93.2		
toluene	62.5	164		
ethylbenzene	62.5	320		
m,p-xylene	125	382		
o-xylene	62.5	215		
isopropylbenzene	125	Not detected		U
n-propylbenzene	125	484		
1,3,5-trimethylbenzene	125	818		
tert-butylbenzene	125	Not detected		U
1,2,4-trimethylbenzene	125	3140		
sec-butylbenzene	125	599		
p-isopropyltoluene	125	251		
n-butylbenzene	125	1620		
naphthalene	125	1410		
a,a,a-Trifluorotoluene (%)		112	73-130	

Dilution Factor 125

Waste Stream Technology, Inc.

8021 Soil Method Blank Analysis

5030/8021

Site: 356 Hertel Ave
Date Sampled: NA
Date Received: NA

Group Number: 2021-2696
Units: µg/Kg

WST ID: MB110702-HLS
Client ID: NA
Extraction Date: 11/07/02
Date Analyzed: 11/07/02

Compound	Detection Limit	Result	QC Limits (%)	Qualifier
methyl-t-butylether	625	Not detected		U
benzene	62.5	Not detected		U
toluene	62.5	Not detected		U
ethylbenzene	62.5	Not detected		U
m,p-xylene	125	Not detected		U
o-xylene	62.5	Not detected		U
isopropylbenzene	125	Not detected		U
n-propylbenzene	125	Not detected		U
1,3,5-trimethylbenzene	125	Not detected		U
tert-butylbenzene	125	Not detected		U
1,2,4-trimethylbenzene	125	Not detected		U
sec-butylbenzene	125	Not detected		U
p-isopropyltoluene	125	Not detected		U
n-butylbenzene	125	Not detected		U
napthalene	125	Not detected		U
a,a,a-Trifluorotoluene (%)		97	73-130	

Dilution Factor 125
MB denotes Method Blank
NA denotes Not Applicable

WASTE STREAM TECHNOLOGY

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

PAGE 1 OF 1

OFFICE USE ONLY
GROUP # 2021-2696
DUE DATE

REPORT TO: LCS, Inc
PO BOX 406
Buffalo, NY 14205

CONTACT: Dan Reid
PH. # ( ) 716-845-6145
FAX # ( ) 716-845-6164
BILL TO: LCS
PO# 00B1140.22
PROJECT DESCRIPTION: 356 Harlet Ave
SAMPLER SIGNATURE: [illegible]

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

TURN AROUND TIME: 24 hour

QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO — no
If yes please attach requirements.

Is a QC Package required: YES NO — no
If yes please attach requirements

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	[illegible] STARS					[illegible]					TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	BH1 6-8 FT. bgs	11/6	-	SO	1	✓					✓						71226[illegible]
2	BH6 8-10 FT. bgs	11/6	-	SO	1	✓					✓						65
3	BH7 6-8 FT. bgs	11/6	-	SO	1	✓					✓						66
4																	
5																	
6																	
7																	
8																	
9																	
10																	

REMARKS: PID readings for samples: BH1 6-8 FT bgs — > 2000 ppm
BH6 8-10 FT bgs — 4.9 ppm
BH7 6-8 FT bgs — > 2000 ppm

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[illegible]	11/6/[illegible]	2:50pm	[illegible]	11/6/[illegible]	[illegible]
RELINQUISHED BY	DATE / /	TIME:	RECEIVED BY:	DATE / /	TIME: