



SEA Consultants Inc.
Science/Engineering/Architecture

March 17, 1998

Mr. Bob Butler
Vermont DEC
Sites Management Section
103 South Main Street
West Office
Waterbury, Vermont 05671-0404

Re: Limited Site Investigation
U.S. Post Office, Main Office
South Burlington, Vermont
SMS Site No. 97-2299
S E A Ref. No. 95198.02A

Mar 20 10 10 AM '98
MAILED
MAR 20 1998

Dear Mr. Butler:

This letter report documents the Limited Site Investigation conducted at the South Burlington Post Office located on White Street in South , VT. This Limited Site Investigation was conducted in accordance with a VT DEC approved work scope developed specifically for this site.

Site activities were conducted in January of 1998 by S E A. A description of site activities, our observations, field screening results, analytical testing results, and our conclusions and recommendations are presented herein.

If you have any questions or require additional information regarding UST removal activities, please do not hesitate to contact our office.

Very truly yours,

S E A CONSULTANTS INC.

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John A Figurelli, P.G.
Senior Project Scientist

Scott F. Martin, CHMM
Project Manager

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cc: William Rister, USPS
James W. Williams Jr., USPS

Cambridge, MA
Rochester, NY
Londonderry, NH

WASTE MANAGEMENT
DIVISION

MAR 20 10 10 AM '98

**SITE INVESTIGATION
SOUTH BURLINGTON POST OFFICE
SOUTH BURLINGTON, VERMONT
SMS SITE NO. 97-2299**

March 1998

Prepared For:

**Mr. William Rister
U.S. Postal Service
Facilities Service Center
6 Griffin Road North
Windsor, Connecticut 06006-0300**

Prepared By:

**S E A Consultants Inc.
750 Old Main Street
Rocky Hill, Connecticut 06067**





SEA Consultants Inc.
Science/Engineering/Architecture

March 17, 1998

Mr. William Rister
Architect Engineer
U.S. Postal Service
Facilities Service Center
6 Griffin Road North
Windsor, CT 06006-0310

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South Burlington, Vermont
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EXECUTIVE SUMMARY

This Initial Site Investigation has been performed by S E A Consultants, Inc. at the U.S. Post Office property located on White Street in South Burlington, Vermont as part of the Site Investigation Program established by the Vermont DEC, Hazardous Materials Management Division. In November of 1997, S E A documented the removal of a 2,000 gallon heating fuel oil UST from the South Burlington Post Office property. During underground storage tank removal activities, S E A detected elevated VOCs within the tank grave and holes were observed in the tank. The results of the tank removal were submitted to the Vermont DEC.

On January 7, 1998 S E A Consultants Inc. received notification from the Vermont DEC Sites Management Section (SMS) that S E A's proposed scope of work was approved. The site was assigned tracking number 97-2299 by the VT DEC SMS. Site work by S E A began on January 27, 1998.

As part of the Site Investigation, one day of test boring explorations was conducted at the site with the installation of five (5) test borings with four (4) monitoring wells designated as MW-1 through MW-4. Soil samples were collected, visually inspected and classified according to the Burmister soil classification system. A portion of each spoon sample was field screened and selected samples were placed in a glass jar and stored on ice for subsequent laboratory analysis. Six (6) soil samples were further analyzed for aromatic hydrocarbons using EPA method reference 8240 and for TPH by a GC-FID method. Groundwater samples from monitoring wells MW-1 through MW-4 were collected and analyzed for volatile organics using EPA Method 8240 and for TPH using a GC-FID method. As part of S E A's QA/QC program one trip-blank was analyzed for volatile organics and one duplicate was analyzed for volatile organics and TPH.

Elevated PID responses were measured in only one soil sample encountered during test boring activities. Laboratory analysis detected TPH the soil sample collected from within the former tank grave. Low concentrations of xylenes were detected in a two of the soil samples at concentrations of 7.6 ppb and 9.5 ppb. No VOCs were detected in any of the groundwater samples collected. TPH was detected in two of the groundwater (upgradient and downgradient wells) samples at concentrations slightly above detection limits. No groundwater impact was measured within the tank grave or in the well in closest proximity to the grave. Evaluation of the data collected as part of this site investigation suggests that hydrocarbon contamination has not migrated in the soil to the extent that significant groundwater impact exists. The results of this Limited Site Investigation suggest that although the groundwater has not been impacted, soil contamination remains within the tank grave requiring remediation.

1.0 BACKGROUND

This report summarizes the results of the Initial Site Investigation performed by S E A Consultants, Inc. at the U.S. Post Office property located at 60 White Street in South Burlington, Vermont. On November 11, 1997 S E A Consultants observed the removal of a 2,000 gallon underground heating fuel oil storage tank (UST) from the U.S. Post Office. Upon removal of the UST, VOC impacted soil was encountered in the tank grave. Based on the observation of holes in the UST, it appeared as if the VOCs detected in the tank grave soils were a result of leakage from the tank. Laboratory analysis of soil samples collected at the time of tank removal detected TPH at a high of 25,000 ppm.

On October 20, 1997 S E A submitted a work plan for additional investigations at the South Burlington Post Office to the Vermont Department of Environmental Conservation (DEC) Sites Management Section (SMS). The work plan was proposed in an effort to determine the extent of the soil contamination and to determine if groundwater at the site had been adversely impacted. On January 7, 1998 S E A Consultants Inc. received approval of the workplan for additional investigations from the Vermont DEC. Site work by S E A began on January 27, 1998.

1.1 General Site Information and History

The Post Office building is located at 60 White Street in a commercial area located in the northeast portion of the Town of South Burlington, VT. The building is a single-story brick and concrete block structure located on the central portion of the site. The Postal Service leases the property from M. H. Parsons & Sons Lumber Co., P.O. Box 450, York, ME, 03909-0450. Asphalt paved parking areas are located on the east, west and north sides of the building. White Street bounds the site to the south and Executive Drive bounds the site to the north. The UST was located on the north side of the building under a concrete sidewalk and asphalt pavement. An underground electrical line was located above the UST. M. H. Parsons & Sons Lumber Co. was the owner of the tank, and the United States Postal Service was the operator of the tank. Information obtained prior to UST removal indicated that the tank was installed in 1967. No additional information was obtained which would indicate the condition of the tank prior to its removal.

Inquiries made by S E A at the South Burlington Town Hall indicate that properties located in the area of the South Burlington Post Office have public water and sewer service. According to Mr. Richard Ward, the Zoning Administrator, no public water supply wells are located within a ½ mile radius of the site. The subject and abutting properties are zoned for commercial activity and are not within a flood hazard area. The closest sensitive receptors are wetlands and the Central School (elementary school) located approximately 1000 feet to the south of the site. The only abutting

building which appeared to have a basement is an office building located at 55 White Street located southeast of the site.

The properties abutting the Post Office are as follows:

**TABLE 1
Abutting Properties**

DIRECTION	PROPERTY USAGE	OWNER
North	Office Building 1 Executive Drive	Harold Bensen 1803 Spear Street S. Burlington, VT
South	Swiss Host Hotel 1272 Williston Road	Erwin Valgoi 83 Logwood Street S. Burlington, VT
	G. Trono & Sons Bagel Factory 35 White Street	Edmund Chastenay 97 Hinsburg Road S. Burlington, VT
	Offices (former residence) 55 White Street	Raymond LeBlanc 33 Patchen Road S. Burlington
East	Vacant Land 70 White Street	Christopher Bissonelte Trustee 49 Bishop Road Shelburne, VT
West	Merchant Bank 50 White Street	Merchant Properties Inc. 123 Church Street Burlington, VT

A Locus plan showing the location of the subject site is presented as Figure 1, an area plan showing the subject site and abutting properties is presented as Figure 2, and a site plan is included as Figure 3

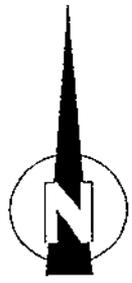
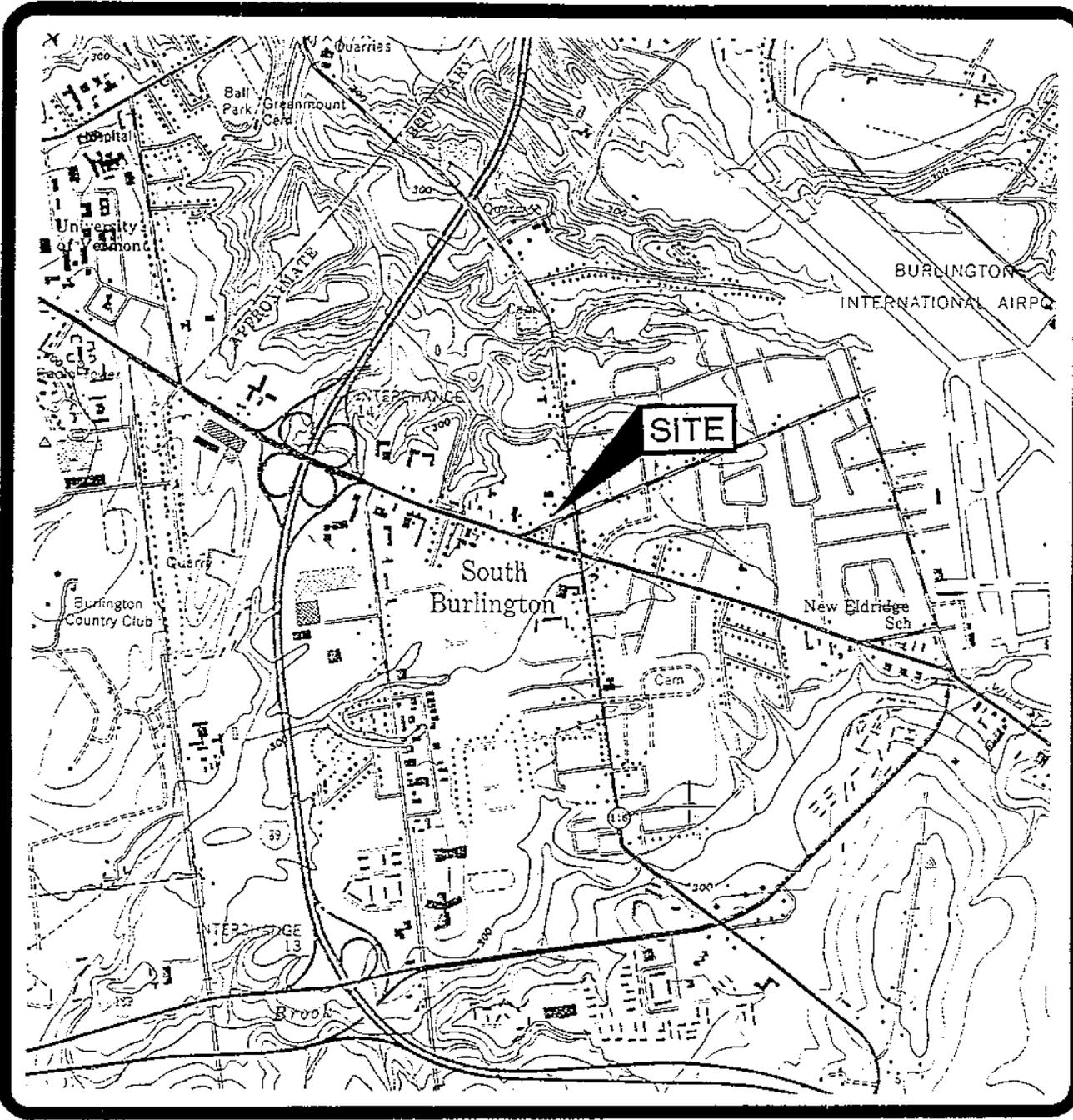
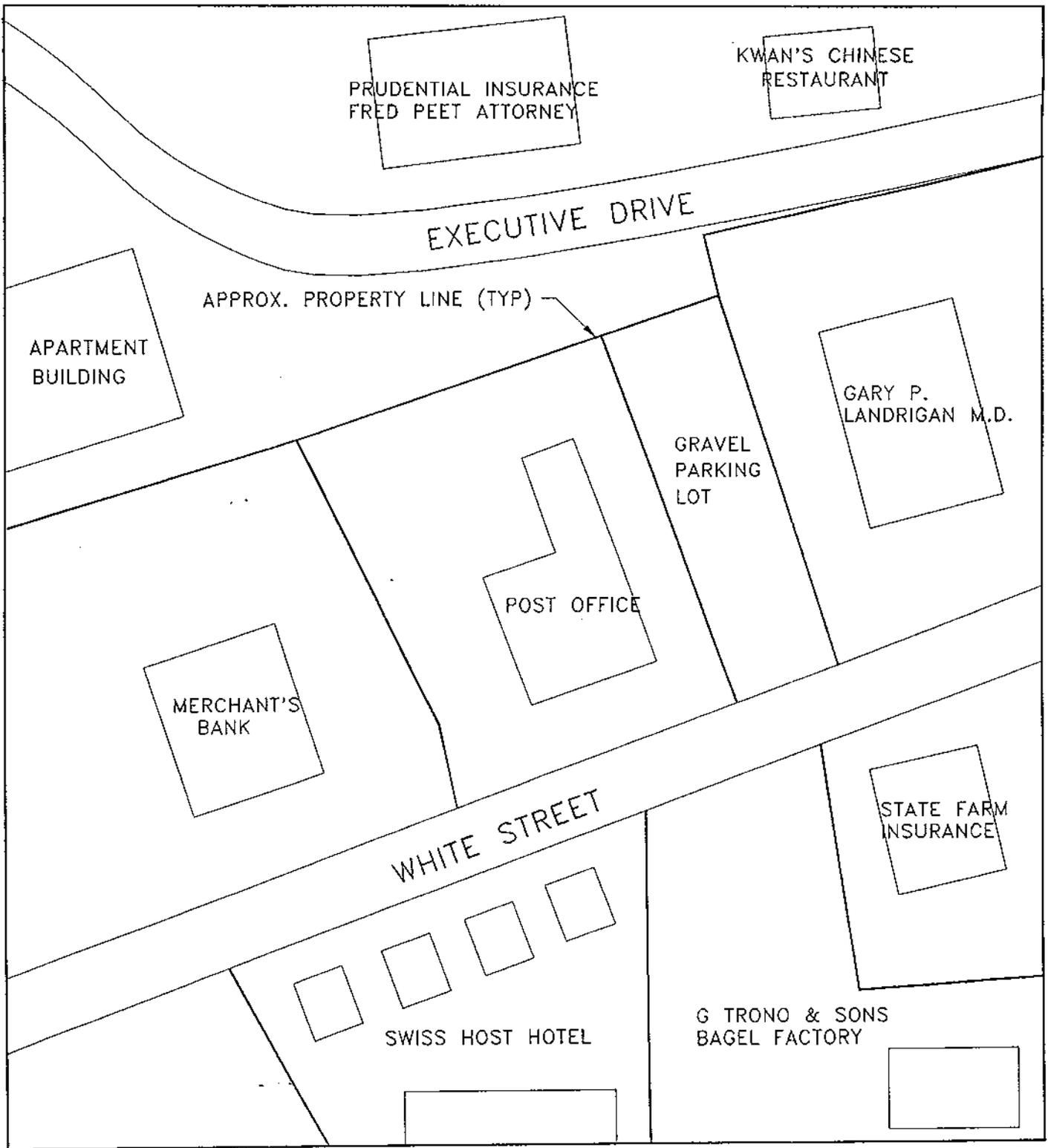


Figure 1
LOCUS PLAN

United States Post Office
60 White Street
South Burlington, VT 05403-9998

SOURCE: USGS QUADRANGLE FOR
BURLINGTON, VT REV. 1987

 SE A Consultants Inc.
Scientists/Engineers/Architects



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APPROX. SCALE: 1" = 65'

Figure 2
AREA PLAN

United States Post Office
60 White Street
South Burlington, VT 05403-9998



SEA Consultants Inc.
Scientists/Engineers/Architects

The property currently utilized by the Post Office is leased from:

M. H. Parsons & Sons Lumber Co.,
P.O. Box 450,
York, ME, 03909-0450

The property is leased to :

United States Postal Service
6 Griffin Road North
Windsor, CT 06006-0300
Contact: William Rister
(203) 285-7237

Information available from the South Burlington Town offices indicates that the building was constructed in 1967 for use as a Post Office.

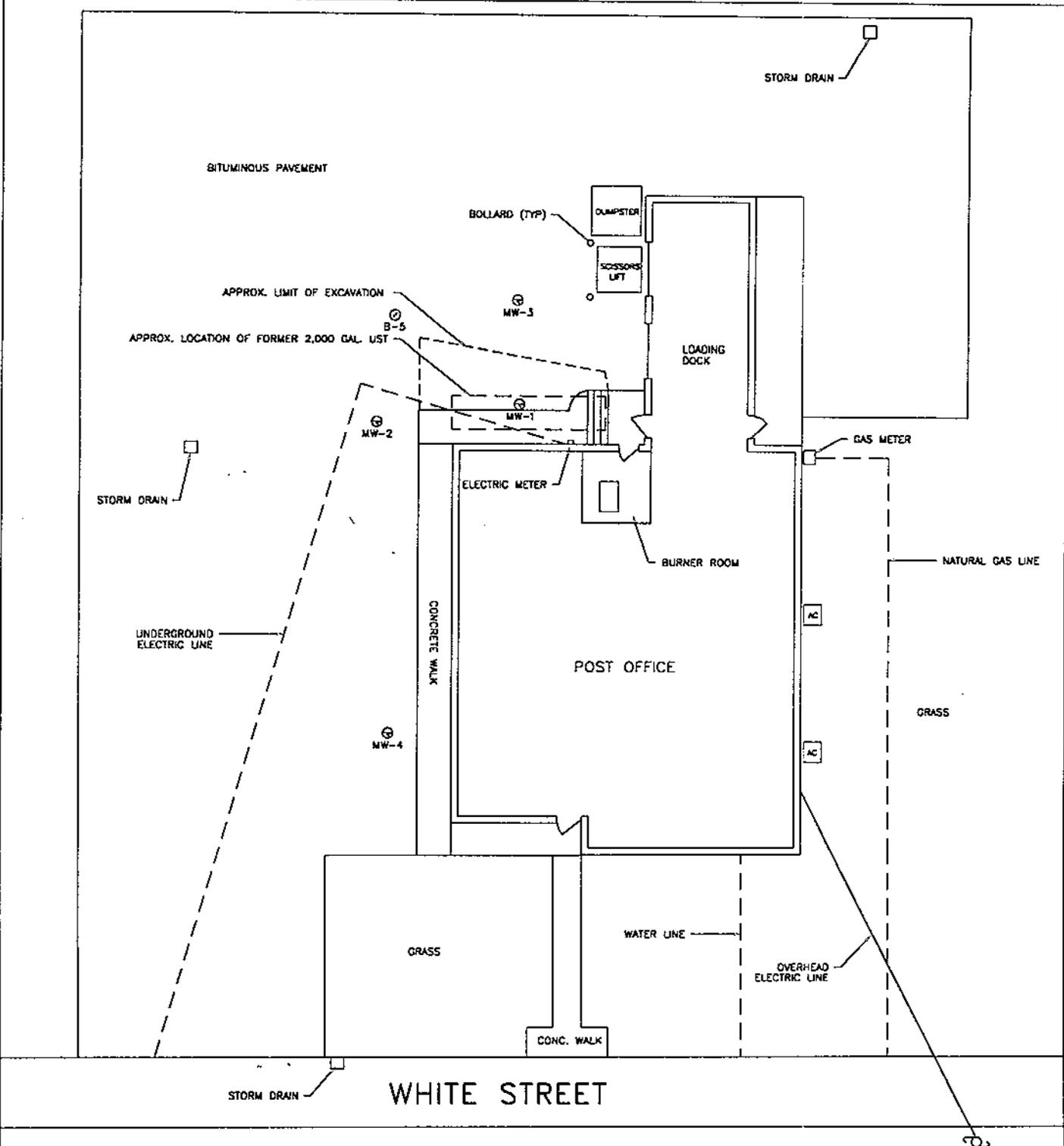
1.2 Scope of Services

The purpose of the site investigation was to gather some general information to document subsurface environmental conditions at the site. The following scope of services was performed as part of this investigation:

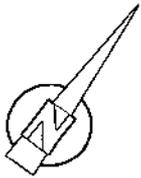
- 1) One day of test boring explorations was conducted at the site with the installation of five (5) test borings designated as B-1 through B-5. In addition four (4) of the test borings, B-1 through B-4, were completed as monitoring wells and designated as MW-1 through MW-4. The purpose of the test boring explorations and monitoring well installations was to obtain selected soil and groundwater samples for field screening and laboratory analysis.
- 2) Soil samples were collected in advance of the test boring auger using a split spoon sampler. Each soil sample was visually inspected and classified according to the Burmister soil classification system. A portion of each spoon sample was field screened and selected samples were placed in a glass jar and stored on ice for subsequent laboratory analysis.
- 3) Six (6) soil samples, and at least one from each test boring, were further analyzed for volatile organics using EPA method reference 8240. Each soil sample was also analyzed for Total Petroleum Hydrocarbons (TPH) using a Gas Chromatograph Flame Ionization Detection Method (GC-FID).
- 4) Groundwater samples from monitoring wells MW-1 through MW-4

were collected and analyzed for the volatile organics using EPA Method 8240 and for TPH using a GC-FID method. As part of S E A's QA/QC program one (1) duplicate were analyzed for aromatic hydrocarbons and TPH. Additionally a trip blank was analyzed for VOCs using EPA method 8240.

- 5) Monitoring wells were surveyed and water level measurements collected to assess groundwater flow direction on the property.
- 6) Available site information and site history was gathered from local offices.
- 7) This report was prepared to summarize our findings and data obtained in items 1 through 6 above.



- ⊕ MW-2 MONITORING WELL
- ⊕ B-5 BORING



APPROX. SCALE: 1" = 20'

G:\USPS95\95198\90REPLAN.DWG

Figure 3
MONITORING WELL LOCATIONS
 United States Post Office
 60 White Street
 South Burlington, VT 05403-9998

 SEA Consultants Inc.
 Scientists/Engineers/Architects

2.0 SUBSURFACE EXPLORATIONS

Subsurface explorations consisting of five (5) test borings designated B-1/MW-1 through B-4/MW-4 and B-5 were performed on the subject site as part of the current environmental site assessment in order to explore subsurface conditions and to collect soil samples for laboratory analysis. Groundwater monitoring wells were installed in test boring B-1 through B-4 and designated as MW-1 through MW-4, respectively. The locations and designations of the test borings and monitoring wells are shown on Figure 3.

2.1 Test Boring Method

Test borings were performed by Cushing and Sons of Lyndonville, VT on January 27, 1998 under the observation of S E A Consultants Inc. The sample collection locations are shown on Figure 3 and logs of test boring explorations prepared by S E A are enclosed in Attachment 1.

Test borings were performed using 4¼ inch inside diameter (I.D.) hollow stem augers. Borings were drilled without the introduction of drilling fluids. Split spoon samples were collected in advance of the auger at the surface and continually to below the water table. Soils obtained in split spoon samples were visually inspected and classified and a portion of each sample was placed in a glass jar for subsequent PID headspace screening. One sample from each borehole, from immediately above the water table, was placed in a teflon capped jar and stored on ice for subsequent laboratory analysis. Standard Penetration Tests (SPTs) were performed as part of the split spoon sampling to determine standard penetration resistance, which is a measure of in-situ soil density. The SPT consists of driving a split spoon sampler with a 140 pound hammer falling 30 inches. The blows required for each six inches of penetration were recorded for a total of 24 inches of penetration.

2.2 Monitoring Well Installation Method

Groundwater monitoring wells were constructed using two-inch outside diameter PVC well material consisting of a section of slotted well screen with 0.01 inch wide slots and a section of solid riser with an expandable locking well cap. PVC attachments were completed without the use of cement or other glues.

The annulus between the PVC well screen and the bore hole was backfilled with a clean filter sand. A 12 inch thick bentonite seal was installed above the sand pack and bentonite grout was used to backfill the remaining portion of the borehole to prevent surface runoff from traveling vertically downward along the well periphery. A road box with a steel protective sleeve was concreted over each PVC pipe to protect the wells from damage and vandalism.

3.0 SAMPLE COLLECTION AND ANALYSIS METHODS

3.1 Soil Collection and Analysis

Soil samples were collected from each split spoon sampler and screened for total ionizable volatile organic compounds (VOCs) using a MSA photoionization detector (PID) equipped with a 10.6 eV lamp. The PID was standardized on January 27, 1998 to a 100 ppm isobutylene reference gas. Selected soil samples were then sealed in precleaned 8-ounce glass jars and placed in a cooler on ice for transportation to the laboratory. Sample identification and PID screening results are presented on the test boring logs. Soil samples collected from B-1 @ 6-8 feet, B-1 @ 4-6 feet, B-2 @ 4-6 feet, B-3 @ 4-6, B-4 @ 4-6 feet and B-5 @ 4-6 feet were submitted to Complete Environmental Testing Inc. for analysis for TPH using a GC-FID methodology, and for volatile organic compounds (VOCs) using EPA Method 8240.

3.2 Groundwater Collection and Analysis

Groundwater samples were collected on February 20, 1998 from each of the four (4) monitoring wells. A disposable polyethylene bailer with a ball check valve was initially inserted into each of the monitoring wells and a groundwater sample was placed in a glass beaker to check for the presence of a petroleum product floating layer or sheen. Neither a floating layer or sheen was observed in any of the monitoring wells using this method.

After checking for a floating layer, a volume of water corresponding to approximately five (5) well volumes was evacuated from each monitoring well in order to remove stagnant water and to allow the wells to recharge with a representative flush of groundwater. The monitoring wells were evacuated using the above mentioned dedicated bailers.

Groundwater samples collected for the analysis were placed in laboratory-cleaned 40-milliliter glass vials with teflon septums and 1 liter amber glass jars. Samples were analyzed for aromatic hydrocarbons using EPA method 8240 and for TPH using a GC-FID methodology. All samples were stored in a cooler for transport to the laboratory. Samples were analyzed at Complete Environmental Testing Inc, in Shelton Connecticut.

4.0 RESULTS

4.1 Soil Sample Results

Soil samples collected during drilling operations from borings B-1 through B-5 were screened with the PID using a jar headspace method. VOCs were detected in only one test boring, B-1 @ 4-6 feet, at a concentration of 32 ppm. VOCs were not detected significantly above background levels in any of the other split spoon soil samples collected.

Soil samples B-1 @ 4-6 feet, B-1 @ 6-8 feet, B-2 @ 4-6 feet, B-3 @ 4-6 feet, B-4 @ 4-6 feet and B-5 @ 4-6 feet were further analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8240 and TPH. TPH was detected in one soil sample, B-1 @ 4-6 feet at 960 parts per million (ppm). Xylenes were detected in two soil samples, B-1 @ 4-6 feet and B-5 @ 4-6 feet at a concentration of 7.6 and 9.5 parts per billion (ppb) respectively.

TABLE 2
Summary of Soil Analyses Results

Parameter	Test Boring Locations					
	B-1 4-6'	B-1 6-8'	B-2 4-6'	B-3 4-6'	B-4 4-6'	B-5 4-6'
TPH (mg/Kg)	960	ND < 25.0				
VOCs (ug/Kg)		ND	ND	ND	ND	
Xylenes	7.6					9.5

ND- not detected

4.2 Groundwater Sample Results

Groundwater samples collected from monitoring wells MW-1, MW-2, MW-3 and MW-4 were analyzed by Complete Environmental Testing for the presence of aromatic hydrocarbons using EPA method 8240 and for TPH using a GC-FID methodology. No VOCs were detected in the groundwater samples submitted. Concentrations of TPH (1.1 ppm) slightly above detection levels were identified in groundwater samples collected from monitoring wells MW-3 and MW-4. Groundwater results are presented in Attachment 3 and are summarized in Table 3.

TABLE 3
Summary of Groundwater Analysis Results

Parameter	Monitoring Well Locations			
	MW-1	MW-2	MW-3	MW-4
TPH (mg/L)	ND < 1.0	ND < 1.0	1.1	1.1
VOCs (ug/L)	ND	ND	ND	ND

ND- not detected

4.3 QA/QC Results

As part of S E A's QA/QC program, a trip blank and a duplicate sample were utilized as part of the QA/QC protocol for the groundwater analyses conducted on site. The trip blank and duplicate groundwater sample collected from monitoring well MW-1 were analyzed for VOCs and for TPH. No VOCs or TPH was detected in either the trip blank or the duplicate sample. The results of the analysis of the duplicate sample and the are consistent with the results of the groundwater sample identified as MW-1.

5.0 SITE HYDROGEOLOGY

Soil samples obtained from the test boring explorations were visually classified in the field by S E A in accordance with the Burmister System. In general the surficial soils on site were comprised of compact to dense, tan medium to fine sand, trace silt. Bedrock was not encountered during test boring activities. The boring logs presented in Attachment 1 provide additional detail for each test boring.

Groundwater was encountered in monitoring wells MW-1, MW-2, MW-3 and MW-4 at depths of 5.67, 5.88, 5.57 and 6.77 feet below the top of the well casings, respectively. Groundwater elevations were measured to vary by a maximum of .06 feet across the site. This variation is insufficient to accurately determine a groundwater gradient. However, based on an evaluation of the surrounding topography and a current survey of well head elevations, the groundwater flow direction estimated to be in a southeasterly direction.

Table 4
Summary of Water Level Measurements

August 8, 1996

Location	Surveyed Top of Casing* (ft)	Water Table Elevation (ft)
MW-1	100	94.33
MW-2	100.19	94.31
MW-3	99.94	94.35
MW-4	101.055	94.285

* benchmark located at MW-1. Assumed elevation of 100 feet above MSL.

6.0 FINDINGS AND CONCLUSIONS

6.1 Findings

Based on the studies conducted and the observations made as part of these subsurface explorations, we have prepared the following findings:

- 1) A total of five (5) test borings were performed on site with the installation of Four (4) monitoring wells. Boring activities were limited to accessible portions of the site and in areas of the former tank grave.
- 2) Groundwater was encountered in the borings at depths of 5.59 to 6.77 feet below grade. Groundwater flow direction was measured to be in south-southeasterly direction.
- 3) Soil samples collected during test boring activities were screened in the field for total VOCs with a PID using a jar headspace screening method. VOCs were detected above background levels in only one of the soil samples collected.
- 4) Six (6) soil samples, were analyzed for aromatic and halogenated hydrocarbons per EPA method 8240 and for TPH using a GC-FID methodology. TPH was detected in the soil sample collected from within the tank grave excavation (B-1) at 960 ppm. Xylenes were detected in two soil samples, one collected from the tank grave and an adjacent boring at 7.6 and 9.5ppb respectively.
- 5) Groundwater samples were collected from each of the monitoring wells on site. Groundwater samples were analyzed for aromatic hydrocarbons using EPA method 8240 and for TPH using a GC-FID methodology. No VOCs were detected in any of the samples submitted. TPH was detected in two samples, the upgradient and downgradient wells at concentrations slightly above the detection limit of 1.1 ppm.

6.2 Conclusions

The results of tank grave sampling conducted at the time of the tank removal indicated the presence of petroleum impacted soil. The UST which was removed was the likely source for the petroleum compounds detected. Based on the findings of this investigation, it is S E A's opinion that while contaminated soil remains in the tank grave, hydrocarbon contamination has not migrated in the soil to the extent that significant groundwater impact exists. The low concentrations of TPH detected in the upgradient and downgradient wells may be attributed to background concentrations. Groundwater collected from the tank grave and the nearest adjacent well did not contain detectable concentrations of TPH or VOCs. It is therefor S E A's opinion that the contamination remaining appears to be concentrated within the soil in the former tank grave.

6.3 Recommendations

Based on the above conclusion S E A has prepared the following recommendation:

The results of this Site Investigation suggest that further excavation of the impacted soils are warranted to eliminate any future liability associated with the remaining impacted soils and to prevent possible migration of contaminants into the groundwater.

7.0 LIMITATIONS

The purpose of the work conducted by S E A was to assess the potential impact of former underground fuel oil storage tank to the subject site. The work reported herein summarizes the soil and groundwater sampling activities conducted. The sampling program was not intended to define vertical and horizontal limits of any impact. No specific attempt was made to check on the compliance of present or past owners or operators of the adjacent sites with Federal, State or local agencies as part of this investigation. No attempt was made to assess the general environmental condition of the property, except as indicated within this report.

The conclusions contained in this report are based on the observations of surficial and subsurface conditions, the results of field screening techniques, and analytical results of subsurface soil samples.

This assessment report was prepared for the exclusive use of the United States Postal Service. The conclusions drawn by S E A are based solely on information gathered to date. Information that may be gathered in the future may modify the conclusions and opinions reported herein. This report has been prepared in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.

**ATTACHMENT 1
BORING LOGS**

Project: SOUTH BURLINGTON POST OFFICE

Date Start: 1/27/98

Date Finish: 1/27/98

Boring Log B-1 / MW-1

Ref. No:

Contractor/Driller: CUSHING + SONS

Weather: SUNNY, -10°

Engineer/Geologist: JAF

Location: B-1

Casing Type/Size: 4 1/4" id HSA

Surface Elevation:

Sampler Type/Size: 2" id Split Spoon

Groundwater Elevation: APPROX. 6'

Depth (ft)	Sample					Sample Description	Remarks	Stratum Description
	PID (ppm)	No.	Pen./Rec.	Depth (ft)	Blows /6"			
						Asphalt/Subbase		
5	32	S-1	24"/18"	4.0-6.0	4-2	Brown Fine to Medium SAND, dense, moist	6 ft	SAND
					2-2			
	4	S-2	24"/24"	6.0-8.0	8-4	Brown Fine to Medium SAND, dense, moist		
					7-16			
10								
15								
20								
25								
30								
35								
40								

GRANULAR SOILS	
Blows/Ft.	Density
0-4	V. Loose
4-10	Loose
10-30	M. Dense
30-50	Dense
>50	V. Dense

NOTES:

1) WELL SET @ 14'

COHESIVE SOILS	
Blows/Ft.	Density
<2	V. Soft
2-4	Soft
4-8	M. Stiff
8-15	Stiff
15-30	V. Stiff
>30	Hard

PROPORTIONS USED:

trace (0-10%), little (10-20%), some (20-35%), and (35-50%), with (amount not included)



**SEA Consultants Inc.
Engineers / Architects**

Information on this log is a compilation of subsurface conditions and rock or soil classifications obtained from the field as well as laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines may be transitional and approximate. Water level measurements have been made in the open boreholes at the time and location indicated, and may vary with time, geologic condition or construction activity.

Project: SOUTH BURLINGTON POST OFFICE

Date Start: 1/27/98

Date Finish: 1/27/98

Boring Log B-1 / MW-2

Ref. No:

Contractor/Driller: CUSHING + SONS

Weather: SUNNY, -10°

Engineer/Geologist: JAF

Location: B-1

Casing Type/Size: 4 1/4" id HSA

Surface Elevation:

Sampler Type/Size: 2" id Split Spoon

Groundwater Elevation: APPROX. 6'

Depth (ft)	Sample					Sample Description	Remarks	Stratum Description
	PID (ppm)	No.	Pen. /Rec.	Depth (ft)	Blows /8'			
						Asphalt/Subbase		
								SAND
5	ND	S-1	24"/24"	4.0-6.0	5-7	Brown Fine to Medium SAND, dense, moist		
					6-7			
	ND	S-2	24"/24"	6.0-8.0	11-13	Brown Fine to Medium SAND, dense, moist	▽ 6.5 ft	
					12-22			
10								
15								
20								
25								
30								
35								
40								

GRANULAR SOILS	
Blows/Ft.	Density
0-4	V. Loose
4-10	Loose
10-30	M. Dense
30-50	Dense
>50	V. Dense

NOTES

1) WELL SET @ 14'

COHESIVE SOILS	
Blows/Ft.	Density
<2	V. Soft
2-4	Soft
4-8	M. Stiff
8-15	Stiff
15-30	V. Stiff
>30	Hard

Information on this log is a compilation of subsurface conditions and rock or soil classifications obtained from the field as well as laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines may be transitional and approximate. Water level measurements have been made in the open boreholes at the time and location indicated, and may vary with time, geologic condition or construction activity.

PROPORTIONS USED:

trace (0-10%), little (10-20%), some (20-35%), and (35-50%), with (amount not included)



SEA Consultants Inc.
Engineers / Architects

Project: SOUTH BURLINGTON POST OFFICE

Date Start: 1/27/98

Date Finish: 1/27/98

Boring Log
B-1 / MW-3

Ref. No:

Contractor/Driller: CUSHING + SONS

Weather: SUNNY, -10'

Engineer/Geologist: JAF

Location: B-1

Casing Type/Size: 4 1/4" id HSA

Surface Elevation:

Sampler Type/Size: 2' id Split Spoon

Groundwater Elevation: APPROX. 6'

Depth (ft)	Sample					Sample Description	Remarks	Stratum Description
	PID (ppm)	No.	Pen. /Rec.	Depth (ft)	Blows /6'			
						Asphalt/Subbase		
5	ND	S-1	24"/24"	4.0-6.0	7-9	Brown Fine to Medium SAND, dense, moist	▽ 6 ft	SAND
					7-6			
	ND	S-2	24"/24"	6.0-8.0	8-7	Brown Fine to Medium SAND, dense, moist		
					7-10			
10								
15								
20								
25								
30								
35								
40								

GRANULAR SOILS	
Blows/Ft.	Density
0-4	V. Loose
4-10	Loose
10-30	M. Dense
30-50	Dense
>50	V. Dense

NOTES:

1) WELL SET @ 14'

COHESIVE SOILS	
Blows/Ft.	Density
<2	V. Soft
2-4	Soft
4-8	M. Stiff
8-15	Stiff
15-30	V. Stiff
>30	Hard

Information on this log is a compilation of subsurface conditions and rock or soil classifications obtained from the field as well as laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines may be transitional and approximate. Water level measurements have been made in the open boreholes at the time and location indicated, and may vary with time, geologic condition or construction activity.

PROPORTIONS USED:

trace (0-10%), little (10-20%), some (20-35%), and (35-50%), with (amount not included)



SEA Consultants Inc.
Engineers / Architects

Project: SOUTH BURLINGTON POST OFFICE

Date Start: 1/27/98

Date Finish: 1/27/98

Boring Log
B-1 / MW-4

Ref. No:

Contractor/Driller: CUSHING + SONS

Weather: SUNNY, -10'

Engineer/Geologist: JAF

Location: B-1

Casing Type/Size: 4 1/4" id HSA

Surface Elevation:

Sampler Type/Size: 2" id Split Spoon

Groundwater Elevation: APPROX. 6'

Depth (ft)	Sample					Sample Description	Remarks	Stratum Description
	PID (ppm)	No.	Pen. /Rec.	Depth (ft)	Blows /8"			
						Asphalt/Subbase		
5	ND	S-1	24"/24"	4.0-6.0	4-5	Brown Fine to Medium SAND, dense, moist	▽ 6 ft	SAND
					8-9			
	ND	S-2	24"/24"	6.0-8.0	15-18	Brown Fine to Medium SAND, dense, moist		
					19-23			
10								
15								
20								
25								
30								
35								
40								

GRANULAR SOILS	
Blows/Ft.	Density
0-4	V. Loose
4-10	Loose
10-30	M. Dense
30-50	Dense
>50	V. Dense

NOTES:

1) WELL SET @ 15'

COHESIVE SOILS	
Blows/Ft.	Density
<2	V. Soft
2-4	Soft
4-8	M. Stiff
8-15	Stiff
15-30	V. Stiff
>30	Hard

Information on this log is a compilation of subsurface conditions and rock or soil classifications obtained from the field as well as laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines may be transitional and approximate. Water level measurements have been made in the open boreholes at the time and location indicated, and may vary with time, geologic condition or construction activity.

PROPORTIONS USED:

trace (0-10%), little (10-20%), some (20-35%), and (35-50%), with (amount not included)



SEA Consultants Inc.
Engineers / Architects

Project: SOUTH BURLINGTON POST OFFICE

Date Start: 1/27/98

Date Finish: 1/27/98

Boring Log B-1 / MW-5

Ref. No:

Contractor/Driller: CUSHING + SONS

Weather: SUNNY, -10°

Engineer/Geologist: JAF

Location: B-1

Casing Type/Size: 4 1/4" id HSA

Surface Elevation:

Sampler Type/Size: 2" id Split Spoon

Groundwater Elevation: APPROX. 6'

Depth (ft)	Sample					Sample Description	Remarks	Stratum Description
	PID (ppm)	No.	Pen./Rec.	Depth (ft)	Blows /6"			
						Asphalt/Subbase		
5	ND	S-1	24"/24"	4.0-6.0	8-8	Brown Fine to Medium SAND, dense, moist	▽ 6 ft	SAND
					9-11			
	ND	S-2	24"/24"	6.0-8.0	5-11	Brown Fine to Medium SAND, dense, moist		
					13-14			
10								
15								
20								
25								
30								
35								
40								

GRANULAR SOILS

Blows/Ft.	Density
0-4	V. Loose
4-10	Loose
10-30	M. Dense
30-50	Dense
>50	V. Dense

COHESIVE SOILS

Blows/Ft.	Density
<2	V. Soft
2-4	Soft
4-8	M. Stiff
8-15	Stiff
15-30	V. Stiff
>30	Hard

NOTES:

1) WELL SET @ 14'

PROPORTIONS USED:

trace (0-10%), little (10-20%), some (20-35%), and (35-50%), with (amount not included)



SEA Consultants Inc.
Engineers / Architects

Information on this log is a compilation of subsurface conditions and rock or soil classifications obtained from the field as well as laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines may be transitional and approximate. Water level measurements have been made in the open boreholes at the time and location indicated, and may vary with time, geologic condition or construction activity.

ATTACHMENT 2
SOIL LABORATORY RESULTS



911 Bridgeport Avenue
900 Shelton Plaza
Shelton, CT 06484

Tel: (203) 925-1133
Fax: (203) 925-1140
e-mail: comenvtst@aol.com

February 5, 1998

Mr. Scott Martin
SEA Consultants
750 Old Main Street
Suite 100
Rocky Hill, CT 06067

Re: Analysis of 6 soil samples collected 1/27/98.
PROJECT: 95198.02
CET #: 98-625

	<u>8015B</u>
B-1/MW-1(6-8')	<25
B-1/MW-1(4-6')	960
B-2/MW-2(4-6')	<25
B-3/MW-3(4-6')	<25
B-4/MW-4(4-6')	<25
B-5(4-6')	<25

RECEIVED

FEB - 9 1998

SEA
CONSULTANTS, INC.

Results are in ppm.

In addition, the samples were analyzed per EPA method 8240. The results are on the following pages in ppb.


David Ditta
Laboratory Director

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-625

MATRIX: soil
UNITS: ppb
DATE ANALYZED: 2/2/98

	B-1/ MW-1(6-8')	B-1/ MW-1(4-6')	B-2/ MW-2(4-6)	DETECTION LIMIT
ACETONE	ND	ND	ND	100
ACRYLONITRILE	ND	ND	ND	50
BENZENE	ND	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	ND	5.0
BROMOFORM	ND	ND	ND	10
BROMOMETHANE	ND	ND	ND	25
2-BUTANONE	ND	ND	ND	50
CARBON DISULFIDE	ND	ND	ND	10
CARBON TETRACHLORIDE	ND	ND	ND	5.0
CHLOROBENZENE	ND	ND	ND	5.0
CHLORODIBROMOMETHANE	ND	ND	ND	5.0
CHLOROETHANE	ND	ND	ND	25
2-CHLOROETHYL VINYL ETHER	ND	ND	ND	25
CHLOROMETHANE	ND	ND	ND	25
CHLOROFORM	ND	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	10
1,2-DIBROMOETHANE	ND	ND	ND	5.0
DIBROMOMETHANE	ND	ND	ND	10
1,4-DICHLORO-2-BUTANE	ND	ND	ND	10
DICHLORODIFLUOROMETHANE	ND	ND	ND	25
1,1-DICHLOROETHANE	ND	ND	ND	5.0
1,2-DICHLOROETHANE	ND	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	ND	5.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0
1,2-DICHLOROPROPANE	ND	ND	ND	5.0
cis-1,3-DICHLOROPROPYLENE	ND	ND	ND	5.0
trans-1,3-DICHLOROPROPYLENE	ND	ND	ND	5.0
ETHYL BENZENE	ND	ND	ND	5.0

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-625

MATRIX: soil
UNITS: ppb
DATE ANALYZED: 2/2/98

	B-1/ MW-1(6-8')	B-1/ MW-1(4-6')	B-2/ MW-2(4-6')	DETECTION LIMIT
ETHYL METHACRYLATE	ND	ND	ND	5.0
2-HEXANONE	ND	ND	ND	50
IODOMETHANE	ND	ND	ND	25
METHYLENE CHLORIDE	ND	ND	ND	10
METHYL METHACRYLATE	ND	ND	ND	5.0
4-METHYL-2-PENTANONE	ND	ND	ND	50
STYRENE	ND	ND	ND	5.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	5.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	5.0
TETRACHLOROETHYLENE	ND	ND	ND	5.0
TOLUENE	ND	ND	ND	5.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	5.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	5.0
TRICHLOROETHYLENE	ND	ND	ND	5.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	50
1,2,3-TRICHLOROPROPANE	ND	ND	ND	5.0
VINYL ACETATE	ND	ND	ND	25
VINYL CHLORIDE	ND	ND	ND	10
XYLENES	ND	7.6	ND	5.0
MTBE	ND	ND	ND	10

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-625

MATRIX: soil
UNITS: ppb
DATE ANALYZED: 2/2/98

	B-3/ MW-3(4-6')	B-4/ MW-4(4-6')	B-5 (4-6')	DETECTION LIMIT
ACETONE	ND	ND	ND	100
ACRYLONITRILE	ND	ND	ND	50
BENZENE	ND	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	ND	5.0
BROMOFORM	ND	ND	ND	10
BROMOMETHANE	ND	ND	ND	25
2-BUTANONE	ND	ND	ND	50
CARBON DISULFIDE	ND	ND	ND	10
CARBON TETRACHLORIDE	ND	ND	ND	5.0
CHLOROBENZENE	ND	ND	ND	5.0
CHLORODIBROMOMETHANE	ND	ND	ND	5.0
CHLOROETHANE	ND	ND	ND	25
2-CHLOROETHYL VINYL ETHER	ND	ND	ND	25
CHLOROMETHANE	ND	ND	ND	25
CHLOROFORM	ND	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	10
1,2-DIBROMOETHANE	ND	ND	ND	5.0
DIBROMOMETHANE	ND	ND	ND	10
1,4-DICHLORO-2-BUTANE	ND	ND	ND	10
DICHLORODIFLUOROMETHANE	ND	ND	ND	25
1,1-DICHLOROETHANE	ND	ND	ND	5.0
1,2-DICHLOROETHANE	ND	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	ND	5.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0
1,2-DICHLOROPROPANE	ND	ND	ND	5.0
cis-1,3-DICHLOROPROPYLENE	ND	ND	ND	5.0
trans-1,3-DICHLOROPROPYLENE	ND	ND	ND	5.0
ETHYL BENZENE	ND	ND	ND	5.0

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-625

MATRIX: soil
UNITS: ppb
DATE ANALYZED: 2/2/98

	B-3/ MW-3(4-6')	B-4/ MW-4(4-6')	B-5 (4-6')	DETECTION LIMIT
ETHYL METHACRYLATE	ND	ND	ND	5.0
2-HEXANONE	ND	ND	ND	50
IODOMETHANE	ND	ND	ND	25
METHYLENE CHLORIDE	ND	ND	ND	10
METHYL METHACRYLATE	ND	ND	ND	5.0
4-METHYL-2-PENTANONE	ND	ND	ND	50
STYRENE	ND	ND	ND	5.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	5.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	5.0
TETRACHLOROETHYLENE	ND	ND	ND	5.0
TOLUENE	ND	ND	ND	5.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	5.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	5.0
TRICHLOROETHYLENE	ND	ND	ND	5.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	50
1,2,3-TRICHLOROPROPANE	ND	ND	ND	5.0
VINYL ACETATE	ND	ND	ND	25
VINYL CHLORIDE	ND	ND	ND	10
XYLENES	ND	ND	9.5	5.0
MTBE	ND	ND	ND	10

ATTACHMENT 3
GROUNDWATER LABORATORY RESULTS



311 Bridgeport Avenue
900 Shelton Plaza
Shelton, CT 06484

Tel: (203) 925-1133
Fax: (203) 925-1140
e-mail: comenvtst@aol.com

March 4, 1998

Mr. John Figurelli
SEA Consultants
750 Old Main Street
Suite 100
Rocky Hill, CT 06067

RECEIVED

MAR 10 1998

RE: Analysis of 6 water samples collected 2/20/98.
PROJECT: 95198.02
CET #: 98-1093

SEA
CONSULTANTS, INC.

	<u>8015B (D.R.O.)</u>
MW-1	<1.0
MW-2	<1.0
MW-3	1.1
MW-4	1.1
MW-1 Dup.	<1.0

Results are in ppm.

In addition, the sample was analyzed per EPA method 8240. The results are on the following pages in ppb.

Please call us if you have any questions.

David Ditta
Laboratory Director

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-1093

MATRIX: water
UNITS: ppb
DATE ANALYZED: 2/24/98

	MW-1	MW-2	MW-3	DETECTION LIMIT
ACETONE	ND	ND	ND	50
ACRYLONITRILE	ND	ND	ND	25
BENZENE	ND	ND	ND	1.0
BROMODICHLOROMETHANE	ND	ND	ND	1.0
BROMOFORM	ND	ND	ND	5.0
BROMOMETHANE	ND	ND	ND	10
2-BUTANONE	ND	ND	ND	25
CARBON DISULFIDE	ND	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	ND	1.0
CHLOROETHANE	ND	ND	ND	1.0
CHLORODIBROMOMETHANE	ND	ND	ND	1.0
CHLOROETHANE	ND	ND	ND	10
2-CHLOROETHYL VINYL ETHER	ND	ND	ND	10
CHLOROMETHANE	ND	ND	ND	10
CHLOROFORM	ND	ND	ND	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	5.0
1,2-DIBROMOETHANE	ND	ND	ND	1.0
DIBROMOMETHANE	ND	ND	ND	5.0
1,4-DICHLORO-2-BUTANE	ND	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	10
1,1-DICHLOROETHANE	ND	ND	ND	1.0
1,2-DICHLOROETHANE	ND	ND	ND	1.0
1,1-DICHLOROETHYLENE	ND	ND	ND	1.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	1.0
1,2-DICHLOROPROPANE	ND	ND	ND	1.0
cis-1,3-DICHLOROPROPYLENE	ND	ND	ND	1.0
trans-1,3-DICHLOROPROPYLENE	ND	ND	ND	1.0
ETHYL BENZENE	ND	ND	ND	1.0

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-1093

MATRIX: water
UNITS: ppb
DATE ANALYZED: 2/24/98

	MW-1	MW-2	MW-3	DETECTION LIMIT
ETHYL METHACRYLATE	ND	ND	ND	1.0
2-HEXANONE	ND	ND	ND	25
IODOMETHANE	ND	ND	ND	10
METHYLENE CHLORIDE	ND	ND	ND	5.0
METHYL METHACRYLATE	ND	ND	ND	1.0
4-METHYL-2-PENTANONE	ND	ND	ND	25
STYRENE	ND	ND	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	1.0
TETRACHLOROETHYLENE	ND	ND	ND	1.0
TOLUENE	ND	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	1.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	1.0
TRICHLOROETHYLENE	ND	ND	ND	1.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	25
1,2,3-TRICHLOROPROPANE	ND	ND	ND	1.0
VINYL ACETATE	ND	ND	ND	10
VINYL CHLORIDE	ND	ND	ND	2.0
XYLENES	ND	ND	ND	1.0
MTBE	ND	ND	ND	10

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-1093

MATRIX: water
UNITS: ppb
DATE ANALYZED: 2/24/98

	MW-4	MW-1 Dup.	Trip Blank	DETECTION LIMIT
ACETONE	ND	ND	ND	50
ACRYLONITRILE	ND	ND	ND	25
BENZENE	ND	ND	ND	1.0
BROMODICHLOROMETHANE	ND	ND	ND	1.0
BROMOFORM	ND	ND	ND	5.0
BROMOMETHANE	ND	ND	ND	10
2-BUTANONE	ND	ND	ND	25
CARBON DISULFIDE	ND	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	ND	1.0
CHLOROBENZENE	ND	ND	ND	1.0
CHLORODIBROMOMETHANE	ND	ND	ND	1.0
CHLOROETHANE	ND	ND	ND	10
2-CHLOROETHYL VINYL ETHER	ND	ND	ND	10
CHLOROMETHANE	ND	ND	ND	10
CHLOROFORM	ND	ND	ND	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	5.0
1,2-DIBROMOETHANE	ND	ND	ND	1.0
DIBROMOMETHANE	ND	ND	ND	5.0
1,4-DICHLORO-2-BUTANE	ND	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	10
1,1-DICHLOROETHANE	ND	ND	ND	1.0
1,2-DICHLOROETHANE	ND	ND	ND	1.0
1,1-DICHLOROETHYLENE	ND	ND	ND	1.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	1.0
1,2-DICHLOROPROPANE	ND	ND	ND	1.0
cis-1,3-DICHLOROPROPYLENE	ND	ND	ND	1.0
trans-1,3-DICHLOROPROPYLENE	ND	ND	ND	1.0
ETHYL BENZENE	ND	ND	ND	1.0

EPA METHOD 8240
VOLATILE ORGANICS BY GC/MS

CLIENT: SEA Consultants
PROJECT #: 95198.02
CET #: 98-1093

MATRIX: water
UNITS: ppb
DATE ANALYZED: 2/24/98

	MW-4	MW-1 Dup.	Trip Blank	DETECTION LIMIT
ETHYL METHACRYLATE	ND	ND	ND	1.0
2-HEXANONE	ND	ND	ND	25
IODOMETHANE	ND	ND	ND	10
METHYLENE CHLORIDE	ND	ND	ND	5.0
METHYL METHACRYLATE	ND	ND	ND	1.0
4-METHYL-2-PENTANONE	ND	ND	ND	25
STYRENE	ND	ND	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	1.0
TETRACHLOROETHYLENE	ND	ND	ND	1.0
TOLUENE	ND	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	1.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	1.0
TRICHLOROETHYLENE	ND	ND	ND	1.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	25
1,2,3-TRICHLOROPROPANE	ND	ND	ND	1.0
VINYL ACETATE	ND	ND	ND	10
VINYL CHLORIDE	ND	ND	ND	2.0
XYLENES	ND	ND	ND	1.0
MTBE	ND	ND	ND	10



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

31 Bridgeport Avenue
 900 Shelton Plaza
 Shelton, CT 06484
 Tel (203) 925-1133
 FAX (203) 925-1140

COMPANY NAME AND ADDRESS SEA Consultants 750 Old Main St, Rocky Hill, CT 06067				REPORT TO: Joan Figueroa	PROJECT #: 95198.02	PROJECT LOCATION:	PURCHASE ORDER #:	SAMPLED BY: JAF
--	--	--	--	--------------------------------	------------------------	-------------------	-------------------	--------------------

ANALYSIS REQUIRED

RELINQUISHED BY: Jh Foubli	DATE 2/23/98	TIME 4:00	RECEIVED BY: W. C. Leuchs	DATE 2/23/98	TIME 1600
RELINQUISHED BY: W. C. Leuchs	DATE 2/23/98	TIME 17:55	RECEIVED BY: R Blake J	DATE 2/23/98	TIME 1800
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

ANALYSIS REQUIRED											
8240 TPH (6015B)											

SAMPLE #	SAMPLE LOCATION	DATE	TIME	SAMPLE MATRIX	PRIORITY YES / NO	# OF CONTAINERS												
Mw-1		2/20	11:55	water	N=	1-16.0ml 2-40ml	X	X										
Mw-2							X	X										
Mw-3							X	X										
Mw-4							X	X										
Mw-1 Dup							X	X										
Top Blank						2-40ml	X											

SPECIAL INSTRUCTIONS

COMMENTS