INVESTIGATION OF PETROLEUM CONTAMINATION AT THE ABANDONED GAS STATION ROUTE 15 WOLCOTT, VERMONT (VERMONT DEC SITE #98-2450) KAS # 410040042

AUGUST 2005

Prepared for:

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EXECUTIVE SUMMARY

This report summarizes the results of the initial investigation of subsurface petroleum impact conducted at the abandoned gas station in Wolcott, Vermont, performed June 24, 2005. The work was performed by KAS, Inc., (KAS) of Williston, Vermont for Champlain Oil Company. KAS conducted this environmental work pursuant to the May 13, 2005 work plan and cost estimate (WP/CE) for *Subsurface Investigation of Petroleum Contamination*, approved by the Vermont Department of Environmental Conservation (VTDEC) in a letter dated June 7, 2005.

Test Pit Excavation

Three test pits, designated TP-1, TP-2, and TP-3 were dug on June 29, 2005. During the excavations, soil samples were collected from the pits, and they were logged by the supervising geologist and screened for the presence of VOCs. VOCs were measured from a range of 0.7 to 49.8 ppmv in the headspace of soil samples collected from TP-1. The highest reading was obtained from a depth of 5.7'-5.8'. VOC's measured in the headspace of soil samples collected from TP-2 ranged from 0.2 to 1.2 ppmv, and from 0.5-1.1 ppmv in TP-3. Bedrock was encountered at a depth of 6' in TP-1, at a depth of 4' in TP-2, and a depth of 3' in TP-3. A perched groundwater table was encountered at the very top of the bedrock in each of the test pits. Free product was not observed in the test pits. The excavated soil was backfilled into the test pits.

Soil/Supply Well Quality

KAS collected soil samples from TP-1 through TP-3 on June 28, 2005, and these samples were analyzed for petroleum-related VOCs by EPA Method 8260 B with Method 5035 (Methanol) preservation. The soil sample from TP-1 was the only sample to contain detectable levels of contaminants, and these concentrations were all well below the EPA Region IX preliminary remediation goals. Drinking water samples were collected from the Wolcott Post Office and Buck's Furniture during the UST closures in June 1998 and they were analyzed for common gasoline constituents via EPA method 602. Both samples contained non detectable levels of contaminants. Another drinking water sample was obtained from the Wolcott Post Office on June 24, 2005, and was analyzed for contaminants via EPA Method 524.2. The laboratory reports indicate no detectable levels of contamination were present in the drinking water sample.

Sensitive Receptor Risk Assessment

A receptor risk assessment was conducted to identify known and potential receptors of petroleum impact from the site. No buildings currently exist on the site property. The Wolcott Post Office is located approximately 50 feet to the east of the former UST locations. There is also the town clerk's office located approximately 100 feet east of the source, and a residence approximately 150 feet east of the source. Buck's Furniture is located approximately 80 feet north of the former UST locations. The nearest surface water to the source area is the Lamoille River, which is located approximately 150 feet to the south of the former UST excavations. The tributary to the Lamoille River is located approximately 200 feet to the west of the excavation. The low levels of contamination are not expected to affect these surface waters. The property and surrounding residences are serviced by private supply wells and septic systems. Two supply wells are located cross-gradient of the former UST location. The Wolcott Post Office supply well was sampled on June 24, 2005, and no detectable levels of contaminants were found. The Wells residence could not be sampled, due to the fact that KAS could not obtain access to the water. Given the low concentrations of petroleum VOCs observed in TP-1, the non-detect results in the closest supply well, and the distance to the nearby buildings and supply wells, there is minimal possibility of impact to sensitive receptors resulting from the contamination.

Recommendations

Based on the data collected, KAS recommends that no further investigation be conducted. Therefore, the abandoned gas station in Wolcott, Vermont should be considered for Sites Management Activity Complete (SMAC) status and be removed from the VTDEC Active Hazardous Waste Sites List.

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APPENDICES

1.0 INTRODUCTION

This report summarizes the results of the investigation of petroleum contamination conducted at the abandoned gas station in Wolcott, Vermont (the Site; see Site Location Map in Appendix A). The work was performed by KAS, Inc., (KAS) of Williston, Vermont for Champlain Oil Company of South Burlington, Vermont. Excavation of the test pits was performed by St. Hilaire Trucking, Inc, of Essex Junction, Vermont. The laboratory analytical work was performed by Endyne, Inc., Laboratory Services (Endyne) of Williston, Vermont.

KAS conducted this environmental work pursuant to the May 13, 2005 work plan and cost estimate (WP/CE) for *Subsurface Investigation of Petroleum Contamination*, approved by the Vermont Department of Environmental Conservation (VTDEC) in a letter dated June 7, 2005.

2.0 SITE BACKGROUND

2.1 Site History

Petroleum impact to subsurface soils was detected at the site during an inspection of the closure of two 1,000 gallon gasoline USTs in June 1998, performed by Griffin International. Soil samples collected during the UST closure were screened for volatile organic compounds (VOCs) using a properly calibrated H-Nu Systems PI-101 photoionization detector (PID). Soils collected from the UST excavations had a maximum VOC reading of 190 parts per million volume (ppmv). Groundwater and bedrock was observed at six feet below grade during the UST excavation in 1998 [1].

As a result of the petroleum impact detected in the subsurface in the vicinity of the gasoline USTs, a site investigation was conducted in order to determine the extent and degree of petroleum impact.

2.2 Site Description

The abandoned gas station is located on Route 15 in Wolcott, Vermont. No structures currently exist on the site. According to a local resident and former employee of the gas station, a fire destroyed the station in the late 1950's. Topography in the immediate vicinity of the site is generally flat, with a steeply sloping river bank on the southern border of the subject property. The site is bordered to the east by the Wolcott Post Office, a forested area and the Lamoille River to the south, and a small forested area and gravel parking lot to the west. Buck's Furniture is located to the north of the subject property, across Route 15. The surrounding properties are served by private supply wells and septic systems.

The site is underlain by Glaciofluvial Outwash, which is composed of horizontally bedded glaciofluvial gravel, and Post-Glacial recent alluvium according to the *Surficial Geologic Map of Vermont* [2]. The bedrock underlying the site is mapped as the Moretown Member of the middle Ordovician Missisquoi formation, which is primarily composed of Quartzite and quartz-plagioclase Granulite, in layers 1/8" to several inches in thickness, separated by pinstripe partings containing muscovite, chlorite, epidote, biotite, and locally garnet, as well as

greenish quartz-sericite-chlorite Phyllite and Schist, and minor carbonaceous Phyllite according to the *Centennial Geologic Map of Vermont* [3]. No bedrock exposures were observed in the immediate vicinity of the site, but bedrock was observed in the test pits.

3.0 TEST PITS

Three test pits, designated TP-1,.TP-2, and TP-3 were dug on June 29, 2005, by St. Hilaire Trucking, Inc of Essex Junction, Vermont, under the direct supervision of a KAS geologist. The test pits were excavated according to KAS's Test Pit protocol. Only three test pits could be excavated, due to the space constraints of the site property. This constraint is evident in the photographs in Appendix E.

During the excavations, soil samples were collected from the pits, and they were logged by the supervising geologist and screened for the presence of VOCs using a MiniRAE Plus Classic portable photoionization detector (PID) equipped with a 10.6 eV lamp. Prior to screening, the PID was calibrated with isobutylene referenced to benzene. Soils were screened using the KAS Jar/Polyethylene Bag Headspace Screening Protocol, which conforms to state and industry standards. Soil characteristics and contaminant concentrations were recorded by the geologist in test pit logs, which are presented in Appendix B. TP-1 was dug in a presumed upgradient or crossgradient direction of the former UST pits. TP-2 and TP-3 were installed in the presumed downgradient direction from of the former UST pits.

The materials encountered in the three test pits consisted of silts and clay, with varying amounts of sand and gravel below top soil. Evidence of fill was noted in each of the test pits. VOCs were measured from a range of 0.7 to 49.8 ppmv in the headspace of soil samples collected from TP-1. The highest reading was obtained from a depth of 5.7'-5.8'. VOC's measured in the headspace of soil samples collected from TP-2 ranged from 0.2 to 1.2 ppmv, and from 0.5-1.1 ppmv in TP-3. Bedrock was encountered at a depth of 6' in TP-1, at a depth of 4' in TP-2, and a depth of 3' in TP-3. A perched groundwater table was encountered at the very top of the bedrock in each of the test pits. Free product was not observed in the test pits. The excavated soil was backfilled into the test pits.

4.0 SOIL/GROUNDWATER QUALITY

KAS collected soil samples from TP-1 through TP-3 on June 28, 2005. The samples were taken from the saturated layer of soil just above the bedrock. These samples were collected according to KAS' Soil Sampling Protocol, which complies with industry and state standards. Endyne analyzed the samples for petroleum-related VOCs by EPA Method 8260 B with Method 5035 (Methanol) preservation. Drinking water samples were collected from the Wolcott Post Office and Buck's Furniture during the UST closures in June 1998 and they were analyzed for common gasoline constituents via EPA Method 602. Endyne also analyzed the drinking water sample obtained from the Wolcott Post Office supply well on June 24, 2005 for contaminants via EPA Method 524.2. These results are summarized in the Soil and Drinking

Water Quality Summary tables in Appendix C. The laboratory analytical reports are included in Appendix D.

The laboratory reports indicate no detectable levels of contamination were present in the drinking water samples. The soil sample from TP-1 was the only sample to contain detectable levels of contaminants. These concentrations were below the EPA Region IX preliminary remediation goals by 10^2 to 10^5 orders of magnitude. The sample from TP-1 contained more than 10 UIP's, which led to the slightly elevated detection data in the laboratory report.

5.0 SENSTIVE RECEPTOR RISK ASSESSMENT

A receptor risk assessment was conducted to identify known and potential receptors of petroleum impact from the site. A visual survey was conducted during the test pit excavation. Based on these observations, a determination of the potential risk to identified receptors was made based on proximity to the expected source area (i.e., the UST system), probable groundwater flow direction, and contaminant concentration levels in soil, and groundwater.

On-site Soils and Building

No buildings were located on the site property.

Off-site Buildings

The nearest off-site building is the Wolcott Post Office, which is located approximately 50 feet to the east of the former UST location. The town clerk's office is located approximately 100 feet east of the source, and a residence is located approximately 150 feet east of the source. Buck's Furniture is located approximately 80 feet north of the former UST location.

Surface Water

The nearest surface water to the source area is the Lamoille River, which is located approximately 150 feet to the south of the former UST excavations. The tributary to the Lamoille River is located approximately 200 feet to the west of the excavation. The low levels of contaminants are not expected to affect these surface waters.

Utilities

The surrounding properties are serviced by private supply wells and septic systems. According to the Vermont Agency of Natural Resources Private Well Locations, two supply wells are located up or cross-gradient of the former UST location. The Wolcott Post Office supply well is located approximately 100 east of the former UST location, and the Wells Residence supply well is located approximately 250 east of the former UST location. The supply well at the post office was sampled on June 24, 2005. KAS attempted to collect a sample for the Wells residence supply well on June 24 and June 29, 2005 but no one was home, and the water could not be accessed. Endyne analyzed the supply well sample for the Wolcott Post Office via EPA Method 524.2. Drinking water samples were also obtained from the Post Office and Buck's Furniture during the UST closures, in June 1998, and the samples were analyzed via EPA Method 602. No detectable levels of contaminants were reported for the samples. Based on

this information, the supply well is not expected to be at risk of petroleum impact from the former USTs.

6.0 SITE CONCEPTUAL MODEL

The abandoned gas station is located in the town of Wolcott, on the south side of Route 15, between Town Hill Road and Jones Road. No buildings currently exist on the site. The former UST location is approximately 150 feet to the north of the Lamoille River, and 200 feet east of a tributary of the Lamoille River. The topography at the site is generally flat, but then slopes steeply to the south at the edge of the property, toward the Lamoille River. The surrounding land is used by the Wolcott post office, town clerk, a furniture store, and a residence. The area surrounding the abandoned gas station is served by private supply wells and septic systems.

A perched groundwater table was observed on the bedrock in each of the 3 test pits (see test pit logs in Appendix B). This layer was approximately 2"-3" wide. It is feasible to conclude that the groundwater flows along the top of bedrock, west-northwest from the site, parallel to the Lamoille River.

According to the *Surficial Geologic Map of Vermont* [2], subsurface material in the region of the Site is composed of Glaciofluvial Outwash, which is composed of horizontally bedded glaciofluvial gravel, and Post-Glacial recent alluvium. Based on a review of the *Centennial Geologic Map of Vermont* [3], the Site and vicinity are mapped as the Moretown Member of the middle Ordovician Missisquoi formation, which is primarily composed of Quartzite and quartz-plagioclase Granulite, in layers 1/8" to several inches in thickness, separated by pinstripe partings containing muscovite, chlorite, epidote, biotite, and locally garnet, as well as greenish quartz-sericite-chlorite Phyllite and Schist, and minor carbonaceous Phyllite.

Based on the boring logs for test pits TP-1 through TP-3, soils beneath the site consist of mostly silt and clay, with varying amounts of sand and gravel. Soils encountered during drilling were a mixture of fine-grained and coarse-grained material. Moist to wet soils were encountered during the test pit excavations at a depth of 3'-6' below grade.

The source of subsurface petroleum contamination at the Site is from two 1000 gallon gasoline USTs, removed in June 1998. Soils collected from the UST excavations had a maximum VOC reading of 190 ppmv.

The Post Office supply well is located approximately 100 feet east of the former USTs, and the Wells residence supply well is located approximately 250 feet east of the former USTs. The supply well for the Post Office was sampled on June 24, 2005 and no detectable levels of contaminants were reported for these samples (see summary in Appendix C). KAS attempted to collect a sample for the Wells residence supply well on June 24 and June 29, 2005 but no one was home, and the water could not be accessed. Both supply wells are located cross-gradient of the former USTs. Based on the non-detectable levels of contaminants at all Post Office supply well, it is unlikely that either supply well is at risk.

7.0 CONCLUSIONS

The following conclusions are derived from the results of this subsurface investigation:

1. Soils collected from the USTs excavation in June 1998 had a maximum VOC reading of 190 ppmv.

2. The apparent source of contamination (2 former gasoline USTs) were located approximately 10-30 feet south of route 15.

3. Three test pits were dug on June 29, 2005 to evaluate the degree and extent of subsurface petroleum contamination. Elevated VOC concentrations were detected in the headspace of the soil samples from TP-1, at the bedrock/groundwater interface.

4. Perched groundwater was observed on the bedrock at the three test pits. The bedrock ranged from 3'-6' below grade.

5. No free product was observed during the test pit excavation.

6. Given the low concentrations of petroleum VOCs observed in TP-1, the non-detect results in the closest supply well, and the distance to the nearby buildings and supply wells, there is minimal possibility of impact to sensitive receptors resulting from the contamination.

8.0 RECOMMENDATIONS

Based on the results of the initial site investigation, KAS recommends that the Abandoned Gas Station site in Wolcott, Vermont be considered for Sites Management Activity Complete (SMAC) status and be removed from the VTDEC Active Hazardous Waste Sites List. This recommendation is offered based upon achievement of the VTDEC October 2001 closure criteria presented below:

1. The source(s), nature, degree, and extent of the contamination have been adequately defined.

The sources of the contamination (two 1,000 gallon gasoline USTs) were removed from the site in June 1998.

2. *The site has been evaluated to verify that the source of contamination has been removed, remediated, or adequately contained.*

Through laboratory analysis of drinking samples collected from nearby supply wells, it was verified no detectable VOC contamination is present at those locations. Test Pit TP-1 demonstrated low levels of contamination concentrations, below the EPA's Region IX Preliminary Remediation Goals (PRGs). The soil samples from the other test pits did not contain any detectable levels of contaminants. The sources of contamination (two Gasoline USTs) were removed in June 1998.

3. *Levels of contaminants are stable, falling, or non-detectable as monitored over a reasonable period of time.*

   Test results indicate levels are below detection at the supply wells tested. The contamination concentrations from the test pit samples are lower than the Region IX PRGs, and the concentrations are expected to decrease further with time.

4. *Groundwater Enforcement Standards as listed in the Groundwater Protection Rule and Strategy have been met at compliance points established for the Site.*

   No VOCs were detected above the state VGES in the drinking water samples. Contaminant concentrations in the soil samples are below the Region IX PRGs.

5. *Risk-based guideline concentrations have been met at compliance/exposure points established for any site where exposure to contaminated soils has been determined to pose a threat to human health or the environment.*

   Human contact with the any residual contamination in the UST pit would be limited, based on the fact that the pit has been closed.

6. *The site has been evaluated to verify that migration of contaminants from soil to groundwater is not occurring at concentrations which will result in an exceedence of the Groundwater Enforcement Standards beyond the established compliance boundary.*

   Migration of contaminants from soil to groundwater is not deemed to be an issue due to the low or non-detect levels of contamination being reported in the soil and drinking water samples.

7. *Risk-based contaminant concentrations must be met for indoor air, if applicable.*

   Not Applicable

8. *Vermont Water Quality Standards and Air Pollution Control Emission Standards must also be met, if applicable.*

No impact to air quality or surface water was noted during site investigations conducted at the site.

9. *All groundwater monitoring wells used during the site investigation must be properly closed in accordance with Section 12.3.5 in Appendix A of the Vermont Water Supply Rule-Chapter 21, unless a plan has been developed and approved by the Sites Management Section for maintaining the monitoring wells.*

   No monitoring wells exist on the site.

10. *No unacceptable threat to human health or the environment exists at the site from exposure to hazardous materials.*

    The absence of VOC contamination reported in the drinking water samples, and the low and non-detect levels of contamination in the soil has given no indication of contaminating area sensitive receptors.

11. *Sites subject to Corrective Action provisions contained in the Vermont Hazardous Waste Management Regulations will have met the requirements of those provisions.*

    The Site is not subject to Corrective Action provisions contained in the Vermont Hazardous Waste Management Regulations.

12. *Sites subject to regulation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) will have met the requirements of 40 CFR 300-399.*

    The Site is not subject to regulation under CERCLA.

13. *Any outstanding or overdue balances owed to the state have been paid to the satisfaction of the Waste Management Division.*

    No outstanding or overdue balances are owed to the state.

9.0 REFERENCES

1. Griffin International, July 21, 1998, *UST Permanent Closure Inspection at the Abandoned Gasoline Station in Wolcott, Vermont.*

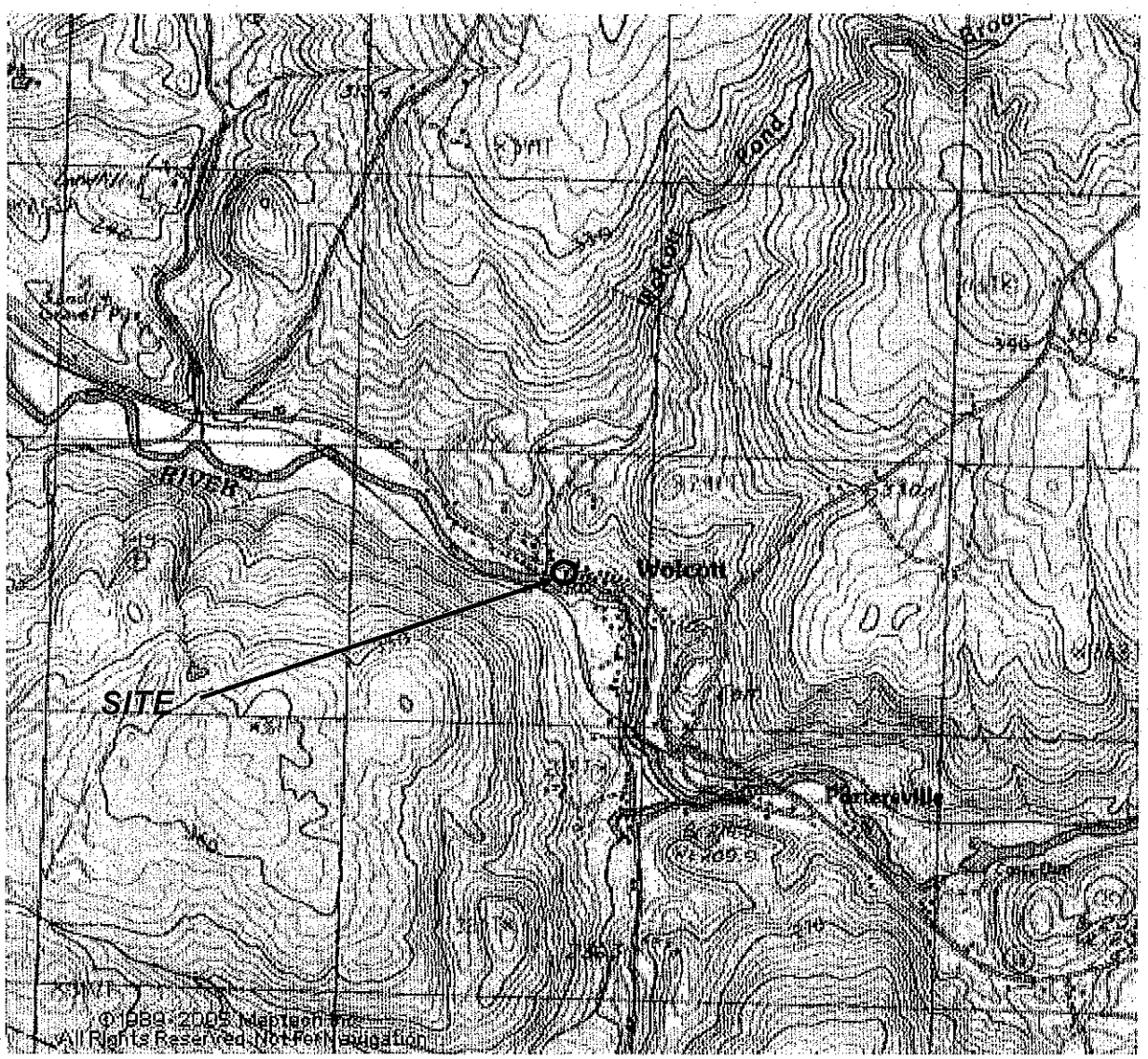
2. Doll, Chuck G., D.P. Stewart, and P. MacClintock, eds., 1970, *Surficial Geologic Map of Vermont*, State of Vermont.

3. Doll, Chuck G., W.M. Cady, J. B. Thompson, Jr., and M.P. Billings eds., 1961, *Centennial Geologic Map of Vermont*, State of Vermont.

APPENDIX A

Maps

Site Location Map
Site Sketch



North

Source: http://mapserver.maptech.com

KAS INC

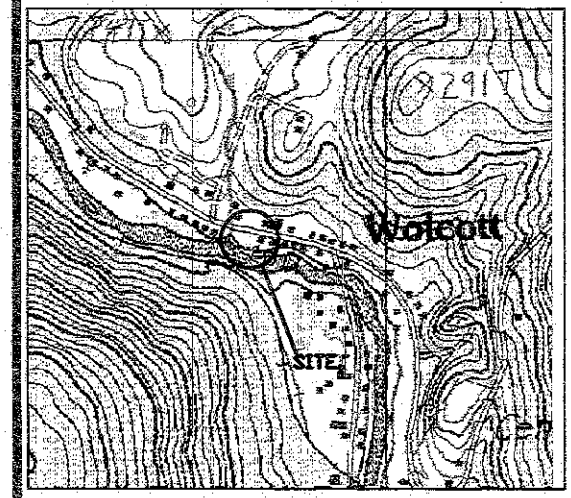
Wolcott Abandoned Gas Station
Wolcott, Vermont

Site Location Map
not to scale

KAS Project # 410040042
VTDEC Site #1998-2450

Date: August 2005

Drawing No. 1



SITE LOCATION MAP
NTS

BUCKS FURNITURE (PAVED)

ROUTE 15

FORMER GAS STATION
(CONCRETE FOUNDATION)

FORMER UST LOCATION

TP-1

POST OFFICE

GRAVEL LOT

TP-2

TP-3

WOLCOTT POND BROOK

LAMOILLE RIVER

LEGEND

TP-3 TEST PIT LOCATION

ESPC #: 20054146
KAS #: 410040042
VTDEC #: 98-2450

KAS

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ABANDONED GAS STATION

ROUTE 15
WOLCOTT, VERMONT

SITE SKECTH

DATE: 8/9/05	DWG #: 1	SCALE: NTS	DRN.: DM	APP.: AR

APPENDIX B

Test Pit Logs

TEST PIT LOG

Test Pit No: TP-1

Site: Abandoned Gas Station

Town, State: Wolcott, Vermont

KAS

KAS Project #:	410040042	Date:	6/29/2005
VTDEC Site #:	1998-2450	Drilling Method:	N/A
Excavated by :	St. Hilaire Trucking, Inc	Boring Diameter.:	N/A
Excavator:	Alcid St. Hilaire	Development Method:	N/A
Logged by:	AR	Screened Length:	N/A

Grade = 0	Well Construction	Pen/Rec(')	Interval (')	Soil Characteristics	Letter Symbol	Graphic Symbol
	N/A	BlowCounts	PID (ppm)	Top Soil Surface		
0.3	Ft<Grade	N/A	0-1	Silt with Sand (ML)	ML	
0.5		N/A	2.2	Dry, medium brown. Gravel, asphalt, and top soil to approximately 9"		
0.8						
1.0						
1.3		N/A	1-2	Silt with Sand (ML)	ML	
1.5		N/A	1.9	Dry, medium brown. Evidence of fill (broken glass)		
1.8						
2.0						
2.3		N/A	2-2.8	Silt with Sand (ML)	ML	
2.5		N/A	0.7	Dry, medium brown. Evidence of fill (broken glass and brick fragments)		
2.8						
3.0		N/A	2.8-4	Silt with Sand (ML)	ML	
3.3		N/A	1.7	Dry, medium brown. Evidence of fill (broken glass and brick fragments)		
3.5						
3.8						
4.0						
4.3		N/A	4-5.7	Silt with Sand (ML)	ML	
4.5		N/A	1.8	Dry, brown. Strong weathered gasoline/fuel odor. Evidence of fill (rusted pipe and brick fragments)		
4.8						
5.0						
5.3						
5.5						
5.8	~5.7' 6/29/05 ▼	N/A	5.7-5.8	Lean Clay with Sand (CL); Bedrock at 6'	CL	
6.0		N/A	49.8	Wet, dark brown and blue. Strong gasoline/fuel odor.		
6.3				Base of Exploration at 6.0'		
6.5						
6.8						
7.0						
7.3						
7.5						

Legend

- Road Box with Bolt Down Cover, Set In Cement.
- Existing Surface.
- Bentonite Seal Placed In Annulus.
- Grade #1 Silica Sand Pack Placed In Annulus.
- Drill Cuttings Placed In Annulus.
- Locking Plug.
- 1" ID, Schedule 40 PVC Riser.
- 1" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen
- Plug Point
- Approximate Water Level During Drilling, below grade
- Static Water Level, below top of casing

TEST PIT LOG

Test Pit No: TP-2

Site: Abandoned Gas Station

Town, State: Wolcott, Vermont

KAS

KAS Project #:	410040042	Date:	6/29/2005
VTDEC Site #:	1998-2450	Drilling Method:	N/A
Excavated by :	St. Hilaire Trucking, Inc	Boring Diameter.:	N/A
Excavator:	Alcid St. Hilaire	Development Method:	N/A
Logged by:	AR	Screened Length:	N/A

Grade = 0	Well Construction N/A	Pen/Rec(') BlowCounts	Interval (') PID (ppm)	Soil Characteristics Top Soil Surface	Letter Symbol	Graphic Symbol
0.3	Ft<Grade	N/A	0-1	Sandy Silt with Gravel (ML)	ML	
0.5		N/A	0.2	Dry, medium brown. Asphalt to 6", top soil from 6" to 12"		
0.8						
1.0						
1.3		N/A	1-2	Sandy Silt with Gravel (ML)	ML	
1.5		N/A	0.2	Dry, medium brown. Evidence of fill (glass bottle)		
1.8						
2.0						
2.3		N/A	2-3	Silt with Sand (ML)	ML	
2.5		N/A	0.3	Dry, orange- brown.		
2.8						
3.0						
3.3		N/A	3-4	Silt with Sand (ML)	ML	
3.5		N/A	1.2	Wet, orange-brown. Bedrock and groundwater at 4'		
3.8						
4.0						
4.3	~4.0' 6/29/05 ▼			Base of Exploration at 4.0'		
4.5						
4.8						
5.0						
5.3						
5.5						
5.8						
6.0						
6.3						
6.5						
6.8						
7.0						
7.3						
7.5						

Legend

- Road Box with Bolt Down Cover, Set in Cement.
- Existing Surface.
- Bentonite Seal Placed in Annulus.
- Grade #1 Silica Sand Pack Placed in Annulus.
- Drill Cuttings Placed in Annulus.
- Locking Plug.
- 1" ID, Schedule 40 PVC Riser.
- 1" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen
- Plug Point
- ▼ Approximate Water Level During Drilling, below grade
- Static Water Level, below top of casing

TEST PIT LOG

Test Pit No: TP-3

Site: Abandoned Gas Station

Town, State: Wolcott, Vermont

KAS Project #:	410040042	Date:	6/29/2005
VTDEC Site #:	1998-2450	Drilling Method:	N/A
Excavated by :	St. Hilaire Trucking, Inc	Boring Diameter.:	N/A
Excavator:	Alcid St. Hilaire	Development Method:	N/A
Logged by:	AR	Screened Length:	N/A

Grade = 0	Well Construction	Pen/Rec(')	Interval (')	Soil Characteristics	Letter Symbol	Graphic Symbol
	N/A	BlowCounts	PID (ppm)	Top Soil Surface		
0.3	Ft<Grade	N/A	0-1	Sandy Silt (ML)	ML	
0.5		N/A	0.7	Dry, brown. Top soil from 0" to 6"		
0.8						
1.0						
1.3		N/A	1-2	Sandy Silt with Gravel (ML)	ML	
1.5		N/A	0.5	Dry, brown.		
1.8						
2.0						
2.3		N/A	2-3	Silt with Sand (ML)	ML	
2.5		N/A	1.1	Moist, dark brown. Bedrock at 3'. Large brick found on bedrock (fill)		
2.8						
3.0	~3.0' 6/29/05 ▼					
3.3				Base of Exploration at 3.0'		
3.5						
3.8						
4.0						
4.3						
4.5						
4.8						
5.0						
5.3						
5.5						
5.8						
6.0						
6.3						
6.5						
6.8						
7.0						
7.3						
7.5						

Legend

- Road Box with Bolt Down Cover, Set In Cement.
- Existing Surface.
- Bentonite Seal Placed In Annulus.
- Grade #1 Silica Sand Pack Placed in Annulus.
- Drill Cuttings Placed In Annulus.
- Locking Plug.
- 1" ID, Schedule 40 PVC Riser.
- 1" ID, Schedule 40 PVC, 0.010"-Slotted Well Screen
- Plug Point
- ▼ Approximate Water Level During Drilling, below grade
- Static Water Level, below top of casing

APPENDIX C

Soil/Drinking Water Quality Summary

Soil Quality Summary
Wolcott Abandoned Gas Station
Wolcott, Vermont

8260 B Parameter	Sampling Date 7/29/05				
	TP-1	TP-2	TP-3	Region IX Residental	Region IX Industrial
MTBE	ND<12.0	ND<20.0	ND<22.0	32000	70000
Benzene	**45.0**	ND<10.0	ND<11.0	6400	1400
Toluene	**74.7**	ND<20.0	ND<22.0	520000	520000
Ethylbenzene	ND<6.0	ND<10.0	ND<11.0	400000	400000
Xylenes, Total	**25.9**	ND<20.0	ND<22.0	270000	420000
1,3,5-Trimethylbenzene	ND<6.0	ND<10.0	ND<11.0	21000	70000
1,2,4-Trimethylbenzene	**7.5**	ND<10.0	ND<11.0	52000	170000
1,2 Dichloroethane	**5.9**	ND<10.0	ND<11.0	280	600
Naphthalene	**149.**	ND<20.0	ND<22.0	-	-
Total Targeted VOCs	**308.**	ND	ND	-	-

NOTES:
All values reported in ug/l (ppb) unless otherwise noted
Results reported above detection limits are indicated in bold
Values greater than the Region IX are shaded.
ND<X - Not Detected (Detection Limit); TBQ < X Trace Below Quantitation Limit

Water Quality Summary
Wolcott Abandoned Gas Station
Wolcott, Vermont

Post Office Supply Well

PARAMETER	Sample Date: / Analytical Method: / Laboratory:	6/19/1998 602 Endyne	6/24/2005 524.2 Endyne	VAL (ppb)	VHA (ppb)	MCL (ppb)
Benzene		ND<1	ND<0.5	1.	-	5.
Toluene		ND<1	ND<0.5	-	-	1,000.
Ethylbenzene		ND<1	ND<0.5	-	-	700.
Xylenes		ND<1	ND<1.0	-	-	10,000.
Total BTEX		ND	ND		-	-
MTBE		ND<10	ND<1.0	-	40.	-
1,3,5-Trimethylbenzene		-	ND<0.5	-	4.	-
1,2,4-Trimethylbenzene		-	ND<0.5	-	5.	-
Naphthalene		-	ND<1.0	-	20.	-
1,2-Dichloroethane		-	ND<0.5	0.5	-	5.
* Total Targeted VOCs		ND	ND	-	-	-

Buck's Furniture Supply Well

PARAMETER	Sample Date: / Analytical Method: / Laboratory:	6/19/1998 602 Endyne		VAL (ppb)	VHA (ppb)	MCL (ppb)
Benzene		ND<1		1.	-	5.
Toluene		ND<1		-	-	1,000.
Ethylbenzene		ND<1		-	-	700.
Xylenes		ND<1		-	-	10,000.
Total BTEX		ND			-	-
MTBE		ND<10		-	40.	-
1,3,5-Trimethylbenzene		-		-	4.	-
1,2,4-Trimethylbenzene		-		-	5.	-
Naphthalene		-		-	20.	-
1,2-Dichloroethane		-		0.5	-	5.
* Total Targeted VOCs		ND		-	-	-

NOTES:

All values reported in ug/l (ppb) unless otherwise noted

Results reported above detection limits are indicated in bold

ND<X - Not Detected (Detection Limit); TBQ < X Trace Below Quantitation Limit

VAL- Vermont Action Level, *Vermont Department of Health Drinking Water Guidance*, October 2000

VHA - Vermont Health Advisory, *Vermont Department of Health Drinking Water Guidance*, October 2000

MCL - EPA Maximum Contaminant Level, *Vermont Department of Health Drinking Water Guidance*, Octob

Exceeds applicable standard

APPENDIX D

Laboratory Reports

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

KAS, Inc.
PO Box 787
Williston, VT 05495
Attn: Angela Rogers

PROJECT: Wolcott Gas Station/410040042
ORDER ID: 38155
RECEIVE DATE: June 30, 2005
REPORT DATE: July 20, 2005

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ACCREDITED IN ACCORDANCE WITH nelac
ELAP 11263

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260B

CLIENT: KAS, Inc.
PROJECT: Wolcott Gas Station/410040042
SITE: TP01-SS6
DATE RECEIVED: June 30, 2005
REPORT DATE: July 20, 2005
ANALYSIS DATE: July 10, 2005

ORDER ID: 38155
REFERENCE NUMBER: 255052
DATE SAMPLED: June 29, 2005
TIME SAMPLED: 10:10 AM
SAMPLER: AR
ANALYST: 725

Parameter	Result ug/kg, as received
Acetone	< 60.0
Benzene	45.0
Bromobenzene	< 6.0
Bromochloromethane	< 12.0
Bromodichloromethane	< 6.0
Bromoform	< 6.0
Bromomethane	< 30.0
2-Butanone	< 60.0
n-Butylbenzene	< 6.0
sec-Butylbenzene	< 6.0
tert-Butylbenzene	< 6.0
Carbon Disulfide	< 30.0
Carbon Tetrachloride	< 6.0
Chlorobenzene	< 6.0
Chloroethane	< 30.0
2-Chloroethyl Vinyl Ether	< 120.
Chloroform	< 6.0
Chloromethane	< 18.0
4-Chlorotoluene	< 6.0
2-Chlorotoluene	< 6.0
Dibromochloromethane	< 6.0
1,2-Dibromo-3-Chloropropane	< 12.0
1,2-Dibromoethane	< 12.0
Dibromomethane	< 12.0
1,2-Dichlorobenzene	< 6.0
1,3-Dichlorobenzene	< 6.0
1,4-Dichlorobenzene	< 6.0
Dichlorodifluoromethane	< 30.0
1,1-Dichloroethane	< 6.0
1,2-Dichloroethane	5.9
1,1-Dichloroethene	< 6.0
cis-1,2-Dichloroethene	< 6.0
trans-1,2-Dichloroethene	< 6.0
1,2-Dichloropropane	< 6.0
1,3-Dichloropropane	< 6.0
2,2-Dichloropropane	< 6.0

Parameter	Result ug/kg, as received
1,1-Dichloropropene	< 6.0
cis-1,3-Dichloropropene	< 6.0
trans-1,3-Dichloropropene	< 6.0
Diethyl Ether	< 30.0
Ethylbenzene	< 6.0
Hexachlorobutadiene	< 12.0
2-Hexanone	< 60.0
Isopropylbenzene	< 6.0
p-Isopropyltoluene	< 6.0
Methylene Chloride	< 30.0
4-Methyl-2-Pentanone	< 60.0
MTBE	< 12.0
Naphthalene	149.
n-Propylbenzene	< 6.0
Styrene	< 6.0
1,1,1,2-Tetrachloroethane	< 12.0
1,1,2,2-Tetrachloroethane	< 12.0
Tetrachloroethene	< 6.0
Tetrahydrofuran	< 60.0
Toluene	74.7
1,2,3-Trichlorobenzene	< 12.0
1,2,4-Trichlorobenzene	< 12.0
1,1,1-Trichloroethane	< 6.0
1,1,2-Trichloroethane	< 6.0
Trichloroethene	< 6.0
Trichlorofluoromethane	< 12.0
1,2,3-Trichloropropane	< 12.0
1,2,4-Trimethylbenzene	7.5
1,3,5-Trimethylbenzene	< 6.0
Vinyl Chloride	< 12.0
Xylenes, Total	25.9
Surrogate 1	101.%
Surrogate 2	104.%
Surrogate 3	103.%
UIP's	> 10.
Percent Solids	

ACCREDITED IN ACCORDANCE WITH NELAC
ELAP 11263

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260B

CLIENT: KAS, Inc.
PROJECT: Wolcott Gas Station/410040042
SITE: TP02-SS4
DATE RECEIVED: June 30, 2005
REPORT DATE: July 20, 2005
ANALYSIS DATE: July 10, 2005

ORDER ID: 38155
REFERENCE NUMBER: 255053
DATE SAMPLED: June 29, 2005
TIME SAMPLED: 10:35 AM
SAMPLER: AR
ANALYST: 725

Parameter	Result ug/kg, as received	Parameter	Result ug/kg, as received
Acetone	< 100.	1,1-Dichloropropene	< 10.0
Benzene	< 10.0	cis-1,3-Dichloropropene	< 10.0
Bromobenzene	< 10.0	trans-1,3-Dichloropropene	< 10.0
Bromochloromethane	< 20.0	Diethyl Ether	< 50.0
Bromodichloromethane	< 10.0	Ethylbenzene	< 10.0
Bromoform	< 10.0	Hexachlorobutadiene	< 20.0
Bromomethane	< 50.0	2-Hexanone	< 100.
2-Butanone	< 100.	Isopropylbenzene	< 10.0
n-Butylbenzene	< 10.0	p-Isopropyltoluene	< 10.0
sec-Butylbenzene	< 10.0	Methylene Chloride	< 50.0
tert-Butylbenzene	< 10.0	4-Methyl-2-Pentanone	< 100.
Carbon Disulfide	< 50.0	MTBE	< 20.0
Carbon Tetrachloride	< 10.0	Naphthalene	< 20.0
Chlorobenzene	< 10.0	n-Propylbenzene	< 10.0
Chloroethane	< 50.0	Styrene	< 10.0
2-Chloroethyl Vinyl Ether	< 200.	1,1,1,2-Tetrachloroethane	< 20.0
Chloroform	< 10.0	1,1,2,2-Tetrachloroethane	< 20.0
Chloromethane	< 30.0	Tetrachloroethene	< 10.0
2-Chlorotoluene	< 10.0	Tetrahydrofuran	< 100.
4-Chlorotoluene	< 10.0	Toluene	< 20.0
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 20.0
1,2-Dibromo-3-Chloropropane	< 20.0	1,2,4-Trichlorobenzene	< 20.0
1,2-Dibromoethane	< 20.0	1,1,1-Trichloroethane	< 10.0
Dibromomethane	< 20.0	1,1,2-Trichloroethane	< 10.0
1,2-Dichlorobenzene	< 10.0	Trichloroethene	< 10.0
1,3-Dichlorobenzene	< 10.0	Trichlorofluoromethane	< 20.0
1,4-Dichlorobenzene	< 10.0	1,2,3-Trichloropropane	< 20.0
Dichlorodifluoromethane	< 50.0	1,2,4-Trimethylbenzene	< 10.0
1,1-Dichloroethane	< 10.0	1,3,5-Trimethylbenzene	< 10.0
1,2-Dichloroethane	< 10.0	Vinyl Chloride	< 20.0
1,1-Dichloroethene	< 10.0	Xylenes, Total	< 20.0
cis-1,2-Dichloroethene	< 10.0	Surrogate 1	104.%
trans-1,2-Dichloroethene	< 10.0	Surrogate 2	104.%
1,2-Dichloropropane	< 10.0	Surrogate 3	105.%
1,3-Dichloropropane	< 10.0	UIP's	0.
2,2-Dichloropropane	< 10.0	Percent Solids	N/A

ACCREDITED IN ACCORDANCE WITH NELAC
ELAP 11263

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260B

CLIENT: KAS, Inc.
PROJECT: Wolcott Gas Station/410040042
SITE: TP03-SS3
DATE RECEIVED: June 30, 2005
REPORT DATE: July 20, 2005
ANALYSIS DATE: July 10, 2005

ORDER ID: 38155
REFERENCE NUMBER: 255054
DATE SAMPLED: June 29, 2005
TIME SAMPLED: 10:50 AM
SAMPLER: AR
ANALYST: 725

Parameter	Result ug/kg, as received
Benzene	< 11.0
Acetone	< 110.
Bromobenzene	< 11.0
Bromochloromethane	< 22.0
Bromodichloromethane	< 11.0
Bromoform	< 11.0
Bromomethane	< 55.0
2-Butanone	< 110.
n-Butylbenzene	< 11.0
sec-Butylbenzene	< 11.0
tert-Butylbenzene	< 11.0
Carbon Disulfide	< 55.0
Carbon Tetrachloride	< 11.0
Chlorobenzene	< 11.0
Chloroethane	< 55.0
2-Chloroethyl Vinyl Ether	< 220.
Chloroform	< 11.0
Chloromethane	< 33.0
4-Chlorotoluene	< 11.0
2-Chlorotoluene	< 11.0
Dibromochloromethane	< 11.0
1,2-Dibromo-3-Chloropropane	< 22.0
1,2-Dibromoethane	< 22.0
Dibromomethane	< 22.0
1,2-Dichlorobenzene	< 11.0
1,3-Dichlorobenzene	< 11.0
1,4-Dichlorobenzene	< 11.0
Dichlorodifluoromethane	< 55.0
1,1-Dichloroethane	< 11.0
1,2-Dichloroethane	< 11.0
1,1-Dichloroethene	< 11.0
cis-1,2-Dichloroethene	< 11.0
trans-1,2-Dichloroethene	< 11.0
1,2-Dichloropropane	< 11.0
1,3-Dichloropropane	< 11.0
2,2-Dichloropropane	< 11.0

Parameter	Result ug/kg, as received
1,1-Dichloropropene	< 11.0
cis-1,3-Dichloropropene	< 11.0
trans-1,3-Dichloropropene	< 11.0
Diethyl Ether	< 55.0
Ethylbenzene	< 11.0
Hexachlorobutadiene	< 22.0
2-Hexanone	< 110.
Isopropylbenzene	< 11.0
p-Isopropyltoluene	< 11.0
Methylene Chloride	< 55.0
4-Methyl-2-Pentanone	< 110.
MTBE	< 22.0
Naphthalene	< 22.0
n-Propylbenzene	< 11.0
Styrene	< 11.0
1,1,1,2-Tetrachloroethane	< 22.0
1,1,2,2-Tetrachloroethane	< 22.0
Tetrachloroethene	< 11.0
Tetrahydrofuran	< 110.
Toluene	< 22.0
1,2,3-Trichlorobenzene	< 22.0
1,2,4-Trichlorobenzene	< 22.0
1,1,1-Trichloroethane	< 11.0
1,1,2-Trichloroethane	< 11.0
Trichloroethene	< 11.0
Trichlorofluoromethane	< 22.0
1,2,3-Trichloropropane	< 22.0
1,2,4-Trimethylbenzene	< 11.0
1,3,5-Trimethylbenzene	< 11.0
Vinyl Chloride	< 22.0
Xylenes, Total	< 22.0
Surrogate 1	100.%
Surrogate 2	101.%
Surrogate 3	101.%
UIP's	0.
Percent Solids	N/A

ACCREDITED IN ACCORDANCE WITH
ELAP 11263

≡ ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

#410040042

74074

Special Reporting Instructions: Vermont Pricing Schedule

Project Name: Abandoned Gas Station / 410040042 Wolcott	Reporting Address: KAS	Billing Address: KAS
Endyne Order ID: (Lab Use Only) 38155 -O -I -S	Company: KAS Contact Name/Phone #: Angela Rogers	Sampler Name: AR Phone #:

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	TP01-SS6	Soil	X		10:10	1	40mL	Strong odor	#24 8260B	MeOH	
	TP02-SS4	↓	↓		10:35	↓	↓		↓	↓	
	TP03-SS3	↓	↓		10:50	↓	↓		↓	↓	

Relinquished by: Angela Rogers Date/Time 6/29 13:40

Received by: Matt McClain Date/Time 6/30/05 10:00 Received by: Date/Time 6/30/05 11:24AM

New York State Project: Yes _____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

LAB USE ONLY
Delivery:
Temp: 7.8°C
Comment:

(White, Yellow - Laboratory / Pink - Client)

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

KAS, Inc.
PO Box 787
Williston, VT 05495
Attn: Angela Rogers

PROJECT: Wolcott Gas Station/410040042
ORDER ID: 38059
RECEIVE DATE: June 27, 2005
REPORT DATE: July 8, 2005

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA 524.2

CLIENT: KAS, Inc.
PROJECT: Wolcott Gas Station/410040042
SITE: Post Office SW
DATE RECEIVED: June 27, 2005
REPORT DATE: July 8, 2005
ANALYSIS DATE: July 6, 2005

ORDER ID: 38059
REFERENCE NUMBER: 254826
DATE SAMPLED: June 24, 2005
TIME SAMPLED: 10:05 AM
SAMPLER: AR
ANALYST: 725

Parameter	Result ug/L
Benzene	< 0.5
Bromobenzene	< 0.5
Bromochloromethane	< 0.5
Bromomethane	< 0.5
n-Butylbenzene	< 0.5
sec-Butylbenzene	< 0.5
tert-Butylbenzene	< 0.5
Carbon tetrachloride	< 0.5
Chlorobenzene	< 0.5
Chloroethane	< 0.5
Chloromethane	< 0.5
4-Chlorotoluene	< 1.0
2-Chlorotoluene	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 0.5
1,3-Dichlorobenzene	< 0.5
1,4-Dichlorobenzene	< 0.5
Dichlorodifluoromethane	< 0.5
1,1-Dichloroethane	< 0.5
1,2-Dichloroethane	< 0.5
1,1-Dichloroethene	< 0.5
cis-1,2-Dichloroethene	< 0.5
trans-1,2-Dichloroethene	< 0.5
Dichloromethane	< 1.0
1,2-Dichloropropane	< 0.5
1,3-Dichloropropane	< 0.5
2,2-Dichloropropane	< 0.5
1,1-Dichloropropene	< 0.5
cis-1,3-Dichloropropene	< 0.5
trans-1,3-Dichloropropene	< 0.5
Ethylbenzene	< 0.5

Parameter	Result ug/L
Hexachlorobutadiene	< 0.5
Isopropylbenzene	< 0.5
4-Isopropyltoluene	< 0.5
MTBE	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 0.5
Styrene	< 0.5
1,1,1,2-Tetrachloroethane	< 0.5
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.5
Toluene	< 0.5
1,2,3-Trichlorobenzene	< 0.5
1,2,4-Trichlorobenzene	< 0.5
1,1,1-Trichloroethane	< 0.5
1,1,2-Trichloroethane	< 0.5
Trichloroethene	< 0.5
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 0.5
1,2,4-Trimethylbenzene	< 0.5
1,3,5-Trimethylbenzene	< 0.5
Vinyl Chloride	< 0.5
Xylenes, Total	< 1.0
Bromodichloromethane	< 0.5
Bromoform	< 0.5
Chloroform	< 0.5
Dibromochloromethane	< 0.5
Total Trihalomethanes	< 0.5
Surrogate 1	91.%
Surrogate 2	84.%
UIP's	0.

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

74053

Special Reporting Instructions: Vermont PCF Pricing Schedule

Project Name: ABANDONED GAS STATION WOLCOTT, VT 4160400492	Reporting Address: KAS	Billing Address: KAS
Endyne Order ID: (Lab Use Only) 38059 -O -I -S	Company: KAS Contact Name/Phone #: Angela Rogers	Sampler Name: AR Phone #:

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	Post Office SW	H_2O	X		6/24 10:05	2	40mL		29	HCL	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Angela Rogers	6/24/05 12:50	Gail McCann	6/27/05 10:15AM		6/27/05 10:15AM

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	524.2
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn	
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)	33
34	Other	

LAB USE ONLY
Delivery:
Temp: 10.5°C
Comment:

(White, Yellow - Laboratory / Pink - Client)

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International
PROJECT NAME: Aband. Gas Station/Wolcott
REPORT DATE: July 1, 1998
DATE SAMPLED: June 19, 1998

PROJECT CODE: GIAG1308
REF.#: 122,969 - 122,970

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Aband. Gas Station/Wolcott
CLIENT PROJ. #: 69841278

DATE RECEIVED: June 22, 1998
REPORT DATE: July 1, 1998
PROJECT CODE: GIAG1308

Ref. #:	122,969	122,970			
Site:	Post Office SW	Buck's Furniture			
Date Sampled:	6/19/98	6/19/98			
Time Sampled:	11:55	12:30			
Sampler:	E. Sandblom	E. Sandblom			
Date Analyzed:	6/30/98	6/30/98			
UIP Count:	0	0			
Dil. Factor (%):	100	100			
Surr % Rec. (%):	108	108			
Parameter	Conc. (ug/L)	Conc. (ug/L)			
Benzene	<1	<1			
Chlorobenzene	<1	<1			
1,2-Dichlorobenzene	<1	<1			
1,3-Dichlorobenzene	<1	<1			
1,4-Dichlorobenzene	<1	<1			
Ethylbenzene	<1	<1			
Toluene	<1	<1			
Xylenes	<1	<1			
MTBE	<10	<10			

Note: UIP = Unidentified Peaks TBQ = Trace Below Quantitation NI = Not Indicated

ENDYNE, INC.

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

LAB 41278

CHAIN-OF-CUSTODY RECORD

27234

Project Name: ABANDONED GAS STATION Site Location: WOLCOTT	Reporting Address: GRIFFIN	Billing Address: GRIFFIN
Endyne Project Number: 61A61308	Company: GRIFFIN Contact Name/Phone #: E. SANDBLOM	Sampler Name: E. SANDBLOM Phone #: (802) 865-4288

Lab #	Sample Location	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
122969	POST OFFICE SW	H_2O	X		11:55 6/19/98	2	40ml		EPA 602	HCl	
122970	BULKS FURNITURE SW	"			12:30	2	"		"	"	

Relinquished by: Signature [signature] — Received by: Signature Tina DeSorbo — Date/Time 6/19/98 15:30

Relinquished by: Signature Tina DeSorbo — Received by: Signature [signature] — Date/Time 6/22/98 10:00am

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD_5	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										

APPENDIX E

Photographs

PHOTOGRAPHIC DOCUMENTATION
Abandoned Gas Station
Wolcott, VT
6/24/2005

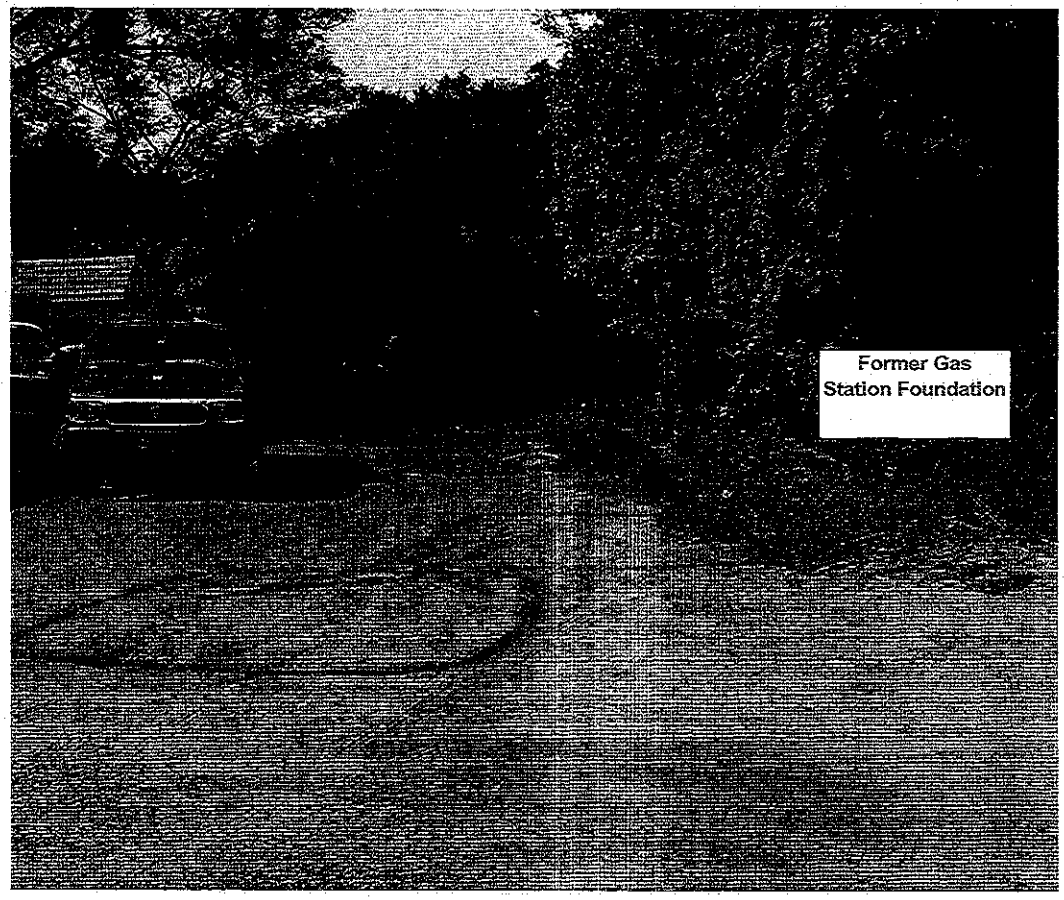


Plate 1: Site property looking south, toward the Lamoille River. The Post Office is located in the left portion of the photograph.

KAS

PHOTOGRAPHIC DOCUMENTATION
Abandoned Gas Station
Wolcott, VT
6/29/2005

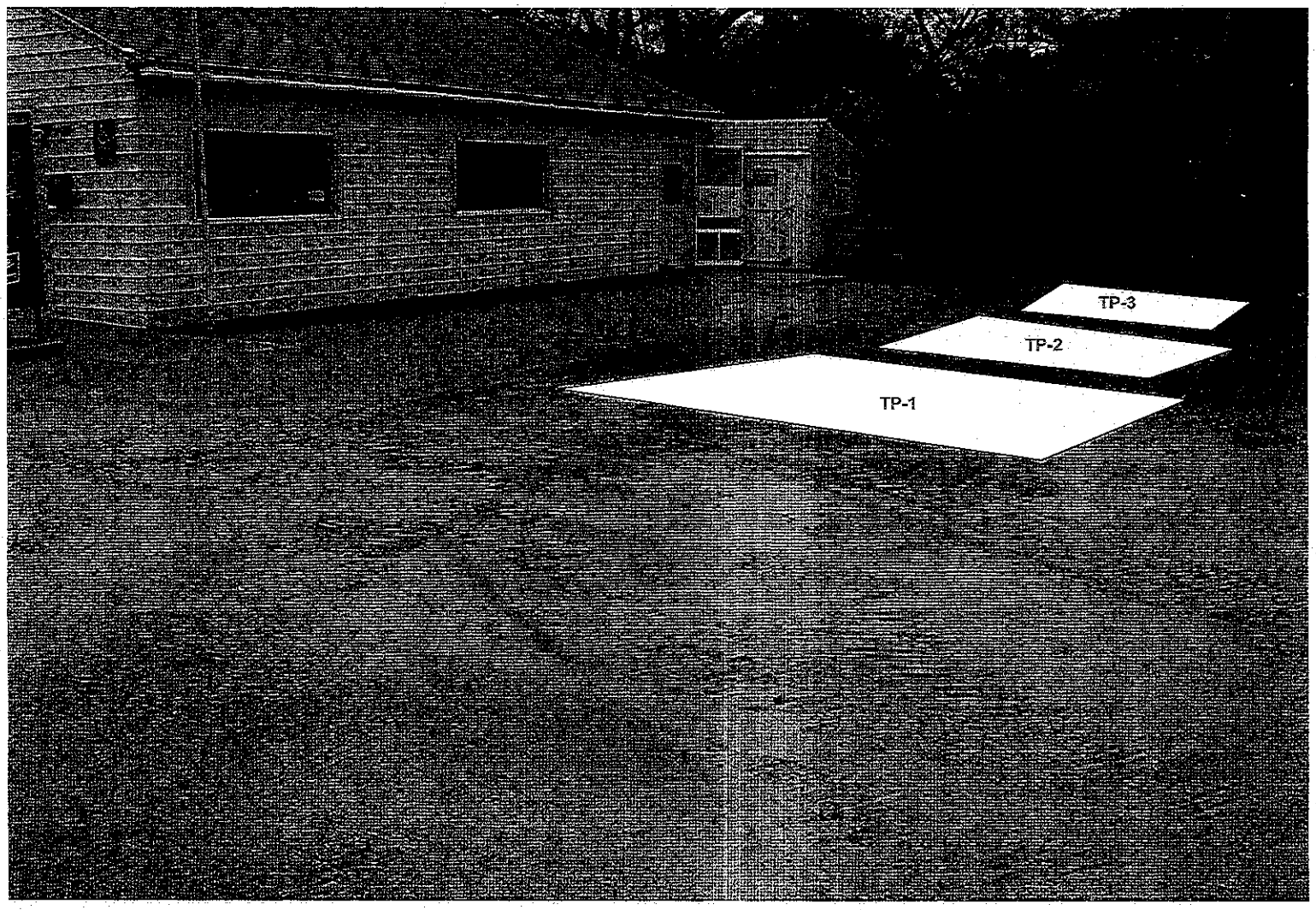


Plate 2: View of test pits, looking south. Only three test pits could be installed due to the space constraints of the property.

APPENDIX F

Field Notes

PROJECT #: 41004042 SITE NAME: Wolcott - Abandoned Gas Station

BORING #: Test Pit #1 Run # SS-1 Time 09:45 Depth range 0-12"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 70
Type:

Dilatancy: none / ~~slow~~ / rapid
Toughness: low / medium / high
Plasticity: nonplastic / low / medium / high
Dry Strength: none / low / medium / high / very high
Consistency: very soft / soft / firm / hard / very hard

Group Name ~~Sandy Silt with Gravel~~ Silt w/ Sand
Group Symbol ML

Coarse
Sand % 15: fine / medium / coarse
Gravel % 15: fine / coarse

Angularity
Sand: angular / subangular / subrounded / rounded
Gravel: angular / subangular / subrounded / rounded

Gradation: well / poor / bimodal
Cementation: weak / moderate / strong
Density: very loose / loose / dense / medium dense / very dense

Moisture: dry / ~~moist~~ / wet
Color Medium Brown PID 2.2

Remarks Top 9" Asphalt - Gravel

Blow Counts ~~Penetr/Recovery~~

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

BORING #: TP #1 Run SS-2 Time 09:50 Depth range 12-24"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 70
Type:

Dilatancy: none / ~~slow~~ / rapid
Toughness: low / medium / high
Plasticity: nonplastic / low / medium / high
Dry Strength: none / low / medium / high / very high
Consistency: very soft / soft / firm / hard / very hard

Group Name ~~Sandy Silt with Gravel~~ Silt w/ Sand
Group Symbol ML

Coarse
Sand % 15: fine / medium / coarse
Gravel % 15: fine / coarse

Angularity
Sand: angular / subangular / subrounded / rounded
Gravel: angular / subangular / subrounded / rounded

Gradation: well / poor / bimodal
Cementation: weak / moderate / strong
Density: very loose / loose / dense / medium dense / very dense

Moisture: dry / ~~moist~~ / wet
Color Medium Brown PID 1.9

Remarks Evidence of fill - broken glass

Blow Counts ~~Penetr/Recovery~~

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

PROJECT #: TP 4 loo2042 SITE NAME: Walcott - Abandoned Gas Station

BORING #: 1 Run SS-3 Time 09:55 Depth range 1'-2' 10"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 70 Type:

Group Name Sandy Silt w/Sand

Group Symbol ML

Dilatancy	none / slow / (rapid)	Coarse Sand % 15	fine / (medium) / coarse
Toughness	low / medium / high		
Plasticity	nonplastic / low / medium / high	Gravel % 15	fine / (coarse)
Dry Strength	none / low / medium / high / very high	Angularity	angular / subangular / subrounded / (rounded)
Consistency	very soft / soft / firm / hard / very hard	Angularity	angular / subangular / (subrounded) / rounded

Gradation: well / poor / bimodal

Cementation: weak / moderate / strong

Density: very loose / loose / dense / medium dense / very dense

Moisture: (dry) / moist / wet

Color Medium brown PID 0.7

Remarks Fill - glass, brick fragments

Blow Counts

Penetr/Recovery

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

BORING #: 1 Run SS-4 Time 10:00 Depth range 2.5'-4'

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 70 Type:

Group Name Sandy Silt with Sand

Group Symbol ML

Dilatancy	none / slow / (rapid)	Coarse Sand % 30	fine / medium / coarse
Toughness	low / medium / high		
Plasticity	nonplastic / low / medium / high	Gravel %	fine / coarse
Dry Strength	none / low / medium / high / very high	Angularity	angular / subangular / subrounded / rounded
Consistency	very soft / soft / firm / hard / very hard		

Gradation: well / poor / bimodal

Cementation: weak / moderate / strong

Density: very loose / loose / dense / medium dense / very dense

Moisture: (dry) / moist / wet

Color Medium Brown PID 1.7

Remarks Fill - glass - brick fragments

Blow Counts

Penetr/Recovery

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

PROJECT #: 4f0040042 SITE NAME: Wolcott - Abandoned Gas Station

~~BORING #:~~ TP 1 Run # SS-5 Time 10:05 Depth range ~~5-8"~~ 4' - 5.7'

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 70 Type: Silt

Group Name Sandy silt with Gravel Silt w/ Sand

Group Symbol ML

Dilatancy	none / slow / ~~rapid~~	Coarse Sand	% 15	Angularity: angular / subangular / subrounded / rounded
Toughness	low / medium / high	Gravel	% 15	angular / subangular / subrounded / rounded
Plasticity	nonplastic / low / medium / high	Gradation	well / poor / bimodal	
Dry Strength	none / low / medium / high / very high	Cementation	weak / moderate / strong	
Consistency	very soft / soft / firm / hard / very hard	Density	very loose / loose / dense / medium dense / very dense	

Blow Counts

~~Penetr/Recovery~~

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

Moisture: dry / moist / wet

Color Brown PID 1.8

Remarks Strong odor - Old rusted pipe (4ill) & bricks
Gasoline

~~BORING #:~~ TP 1 Run SS-6 Time 10:10 Depth range ~~5.5-10"~~ 5.7' - 5.8'

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 80 Type: Clay Silt

Group Name Lean Clay w/ Sand

Group Symbol CL

Dilatancy	none / slow / rapid	Coarse Sand	% 20	Angularity: angular / subangular / ~~fine~~ / ~~medium~~ / subrounded / coarse / rounded
Toughness	low / medium / high	Gravel	%	angular / subangular / subrounded / rounded
Plasticity	nonplastic / low / ~~medium~~ / ~~high~~	Gradation	well / poor / bimodal	
Dry Strength	none / low / medium / high / very high	Cementation	weak / moderate / strong	
Consistency	very soft / soft / firm / hard / very hard	Density	very loose / loose / dense / medium dense / very dense	

Blow Counts

~~Penetr/Recovery~~

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

Moisture: dry / moist / wet

Color Dark Brown - Blue PID 49.8

Remarks Groundwater at 5'10" ; Bedrock at 6'
Strong odor

PROJECT #: 4100400 92 SITE NAME: Wolcott - Abandoned Gas Station

BORING #: TP 1 Run # SS-1 Time 10:20 Depth range 0"-12"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 100
Type: Silt

Dilatancy: none / slow / rapid
Toughness: low / medium / high
Plasticity: nonplastic / low / medium / high
Dry Strength: none / low / medium / high / very high
Consistency: very soft / soft / firm / hard / very hard

Group Name Sandy Silt w/Gravel
Group Symbol ML

Coarse
Sand % 25 — fine / medium / coarse
Gravel % 15 — fine / coarse

Angularity: angular / subangular / subrounded / rounded

Gradation: well / poor / bimodal
Cementation: weak / moderate / strong
Density: very loose / loose / dense / medium dense / very dense

Moisture: dry / moist / wet
Color Medium Brown PID 0.2
Remarks 6" Asphalt - Top Soil 6"-12"

Blow Counts / **Penetr/Recovery**

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

BORING #: TP 2 Run # SS-2 Time 10:25 Depth range 12"-24"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 60
Type: Silt

Dilatancy: none / slow / rapid
Toughness: low / medium / high
Plasticity: nonplastic / low / medium / high
Dry Strength: none / low / medium / high / very high
Consistency: very soft / soft / firm / hard / very hard

Group Name Sandy Silt w/Gravel
Group Symbol ML

Coarse
Sand % 25 — fine / medium / coarse
Gravel % 15 — fine / coarse

Angularity: angular / subangular / subrounded / rounded

Gradation: well / poor / bimodal
Cementation: weak / moderate / strong
Density: very loose / loose / dense / medium dense / very dense

Moisture: dry / moist / wet
Color Medium Brown PID 0.2
Remarks Fill - bottles

Blow Counts / **Penetr/Recovery**

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

PROJECT #: 41004042 SITE NAME Wolcott - Abandoned Gas Station

~~BORING~~ TP #: 2 Run #5-3 Time 10:30 Depth range 24"-36"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 80 *Type:* Silt

Dilatancy: none / slow / (rapid)

Toughness: low / medium / high

Plasticity: nonplastic / low / medium / high

Dry Strength: none / low / medium / high / very high

Consistency: very soft / soft / firm / hard / very hard

Group Name Silt with Sand

Group Symbol ML

Coarse		Angularity
Sand	% 20	angular
	~~fine~~	subangular
	(medium)	subrounded
	coarse	rounded
Gravel	% ~~20~~ 0	angular
	~~fine~~	subangular
	~~coarse~~	subrounded
		rounded

Gradation: well / poor / bimodal

Cementation: weak / moderate / strong

Density: very loose / loose / medium dense / dense / very dense

Moisture: dry / moist / wet

Color orang-brown PID 0.3

Remarks old [illegible] 8mm (fill)

Blow Counts / **Penetr/Recovery**

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

TP

BORING #: 2 Run SS4 Time 10:35 Depth range 3'-4'

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 75% *Type:* Silt

Dilatancy: none / ~~slow~~ / (rapid)

Toughness: low / medium / high

Plasticity: nonplastic / low / medium / high

Dry Strength: none / low / medium / high / very high

Consistency: very soft / soft / firm / hard / very hard

Group Name Silt w/ Sand

Group Symbol ML

Coarse		Angularity
Sand	% 15	angular
	fine	subangular
	medium	subrounded
	coarse	rounded
Gravel	% 10	angular
	fine	subangular
	coarse	subrounded
		rounded

Gradation: well / poor / bimodal

Cementation: weak / moderate / strong

Density: very loose / loose / medium dense / dense / very dense

Moisture: dry / moist / (wet)

Color Orange-brown PID 1.2

Remarks Groundwater at 4' (Bedrock)

Blow Counts / **Penetr/Recovery**

HCl Reaction: none / weak / strong

Structure: stratified / laminated / slickensided / fissured / lensed / blocky / homogenous

PROJECT #: 410040042 SITE NAME

TP
BORING #: 3 Run SS 1 Time 10:40 Depth range 0-12"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 50
Type: silt

Dilatancy: none, ~~slow~~, rapid
Toughness: low, medium, high
Plasticity: nonplastic, low, medium, high
Dry Strength: none, low, medium, high, very high
Consistency: very soft, soft, firm, hard, very hard

Group Name Sandy Silt
Group Symbol ML

Coarse
Sand % 45: fine, medium, coarse
Gravel % 5: fine, coarse

Angularity
Sand: angular, subangular, subrounded, rounded
Gravel: angular, subangular, subrounded, rounded

Gradation: well, poor, bimodal
Cementation: weak, moderate, strong
Density: very loose, loose, dense, medium dense, very dense

Moisture: dry, moist, wet
Color Brown PID 0.7

Remarks Top Soil 0"-6"

Blow Counts

Penetr/Recovery

HCl Reaction: none, weak, strong

Structure: stratified, laminated, slickensided, fissured, lensed, blocky, homogenous

---

TP
BORING #: 3 Run SS 2 Time 10:45 Depth range 12-24"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ ~~Rock Core (RC)~~

Fines: % 50
Type: silt

Dilatancy: none, ~~slow~~, rapid
Toughness: low, medium, high
Plasticity: nonplastic, low, medium, high
Dry Strength: none, low, medium, high, very high
Consistency: very soft, soft, firm, hard, very hard

Group Name Sandy Silt w/Gravel
Group Symbol ML

Coarse
Sand % 45: fine, medium, coarse
Gravel % 5: fine, coarse

Angularity
Sand: angular, subangular, subrounded, rounded
Gravel: angular, subangular, subrounded, rounded

Gradation: well, poor, bimodal
Cementation: weak, moderate, strong
Density: very loose, loose, dense, medium dense, very dense

Moisture: dry, moist, wet
Color Brown PID 0.5

Remarks

Blow Counts

Penetr/Recovery

HCl Reaction: none, weak, strong

Structure: stratified, laminated, slickensided, fissured, lensed, blocky, homogenous

PROJECT #: 410048042 SITE NAME: Wolcott-Abandoned Gas Station

BORING #: 3 Run # 553 Time 10:50 Depth range 24'-36"

Sample Type: ~~Split Spoon (SS)~~ ~~Auger Flight (AF)~~ ~~Shelby Tube (ST)~~ Rock Core (RC)

Fines: % 80% Silt
Type: Sandy

Dilatancy	none / slow / (rapid)	**Group Name**	Silt w/ Sand			**Blow Counts** ~~X~~
Toughness	low / medium / high	**Group Symbol**	ML			**Penetr/Recovery** ~~X~~
Plasticity	nonplastic / low / medium / high	**Coarse** *Sand*	% 10 / fine / (medium) / coarse		**Angularity** angular / subangular / subrounded / (rounded)	
Dry Strength	none / low / medium / high / very high	*Gravel*	% / fine / coarse		angular / subangular / subrounded / rounded	**HCl Reaction** none / weak / strong
Consistency	very soft / soft / firm / hard / very hard	*Gradation*	well	poor	bimodal	**Structure** stratified / laminated / slickensided / fissured / lensed / blocky / homogenous
		Cementation	weak	moderate	strong	
		Density	very loose	loose / dense	medium dense / very dense	
		Moisture	dry	(moist)	~~X~~ wet	
		Color	Dark Brown		PID 1.1	
		Remarks	Bedrock ledge at 36" - Large brick found on bedrock			

BORING #: **Run** **Time** **Depth range**

Sample Type: Split Spoon (SS) Auger Flight (AF) Shelby Tube (ST) Rock Core (RC)

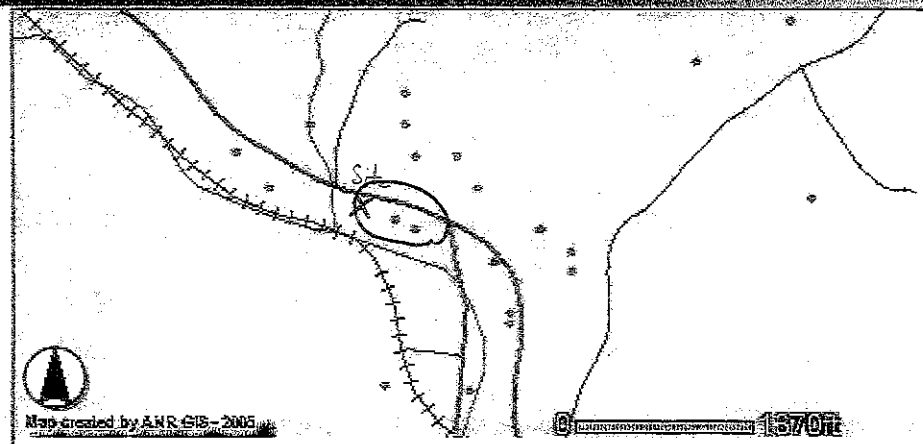
Fines: %
Type:

Dilatancy	none / slow / rapid	**Group Name**				**Blow Counts**
Toughness	low / medium / high	**Group Symbol**				**Penetr/Recovery**
Plasticity	nonplastic / low / medium / high	**Coarse** *Sand*	% / fine / medium / coarse		**Angularity** angular / subangular / subrounded / rounded	
Dry Strength	none / low / medium / high / very high	*Gravel*	% / fine / coarse		angular / subangular / subrounded / rounded	**HCl Reaction** none / weak / strong
Consistency	very soft / soft / firm / hard / very hard	*Gradation*	well	poor	bimodal	**Structure** stratified / laminated / slickensided / fissured / lensed / blocky / homogenous
		Cementation	weak	moderate	strong	
		Density	very loose	loose / dense	medium dense / very dense	
		Moisture	dry	moist	wet	
		Color			PID	
		Remarks				

Vermont Agency of Natural Resources

Private Well Locations

Legend/Overview
Zoom In
Zoom Out
Zoom Full Extent
Zoom Active Layer
Pan to Next Extent
Pan
Identify Features
Query Active Layer
Find in Active Layer
Measure Distance
Set Units
Buffer
Select by Rectangle
Select by Line/Poly
Clear Selection
Print Map



Layers

Visible Active

- private well
- interstate highway
- major road
- minor road
- railroad
- stream, river, shoreline
- lake or pond
- Lake Champlain
- town labels
- towns

Refresh Map

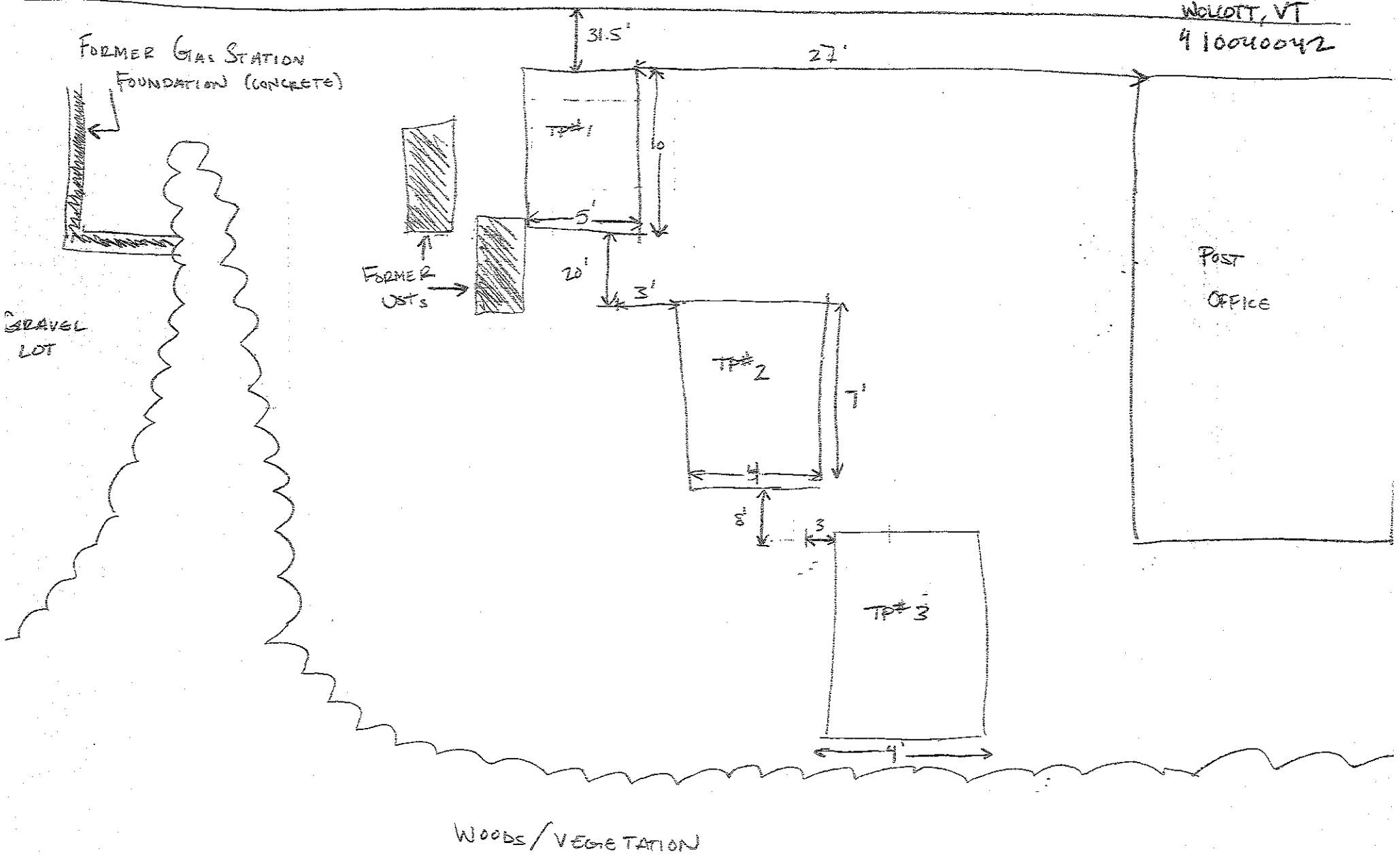
private well
Selection cleared.

HELP | ANR GIS HOME | WELL ATTRIBUTE CODES

01/09/05

ABANDONED GAS STATION
WOLCOTT, VT
4 10040042

ROUTE 15



LAMOILLE RIVER ~150' South of Removed USTs