



December 15, 1997

Mr. Donald Robisky  
Vermont ANR/DEC  
Waste Management Division  
103 South Main St. /West Building  
Waterbury, VT 05671-0404

RE: Initial Investigation of Suspected Subsurface Petroleum Contamination  
Wiggins Concrete, Winooski, Vermont (VTDEC Site #97-2193)

Dear Mr. Robisky:

Enclosed please find the summary report for the site investigation conducted at the above referenced site.

Please contact me if you have any questions or comments.

Sincerely,

Christine Ward  
Hydrogeologist

Enclosure

c.: Mr. John Follett  
GI#99741105

Dec 17 10 02 AM '97

**INITIAL INVESTIGATION OF  
SUSPECTED SUBSURFACE PETROLEUM  
CONTAMINATION REPORT**

**WIGGINS CONCRETE  
2 EAST STREET  
WINOOSKI, VERMONT**

(VTDEC SITE #97-2193)  
GI #99741105

December 1997

*Prepared for*

Ironwill Inc.  
P.O. Box 241  
North Springfield, VT 05750

*Prepared by*



P.O. Box 943  
Williston, Vermont 05495  
(802) 865-4288

DEC 17 10 02 AM '97

**TABLE OF CONTENTS**

**I. INTRODUCTION.....1**

**II. SITE BACKGROUND.....1**

A. SITE HISTORY .....1

B. SITE DESCRIPTION.....2

C. SITE GEOLOGY .....2

**III. INVESTIGATIVE PROCEDURES.....3**

A. MONITORING WELL INSTALLATION .....3

B. GROUNDWATER FLOW DIRECTION AND GRADIENT.....4

C. GROUNDWATER SAMPLING AND ANALYSES.....5

D. SENSITIVE RECEPTOR SURVEY.....6

**IV. CONCLUSIONS.....6**

**V. RECOMMENDATION.....8**

**REFERENCES.....8**

**APPENDICES**

**Appendix A - Maps**

Site Location Map

Site Map

Groundwater Contour Map

Contaminant Concentration Map

**Appendix B - Soil Logs and Monitoring Well Specifications**

**Appendix C - Liquid Level Monitoring Data**

**Appendix D - Water Quality Data**

## **I. INTRODUCTION**

This report summarizes the initial investigation of suspected subsurface petroleum contamination at Wiggins Concrete on East Street in Winooski, Vermont (see Site Location Map, Appendix A). This work was requested by Mr. Donald Robisky of the Vermont Department of Environmental Conservation (VTDEC) in a letter to Mr. John Follett of Ironwill, Inc. dated August 21, 1997. This work was performed in accordance with the September 15, 1997, *Work Plan and Cost Estimate for Subsurface Investigation of Suspected Petroleum Contamination* for the site prepared by Griffin. The Work Plan was approved by Mr. Donald Robisky (VTDEC) in a letter to Mr. Follett dated October 3, 1997.

## **II. SITE BACKGROUND**

### **A. Site History**

On July 29, 1997, petroleum contamination was detected at the Wiggins Concrete site during soil field screening at a routine removal of a No. 2 fuel oil underground storage tank (UST). The UST was located at the northeast corner of the Wiggins Concrete building (see Site Map, Appendix A). The former UST had a capacity of 1,000 gallons and was constructed of single wall steel. The age of the UST was unknown, but assumed to be less than 20 years. The UST was reported to be in fair condition with minor pitting and rusting at the time of closure. The UST was not replaced.

Soil samples collected during the UST removal were screened for volatile organic compounds (VOCs) using an HNu™ systems Model PI-101 photo ionizing detector (PID). Readings of up to 150 parts per million (ppm) were detected in soils excavated from the UST pit.

A 500-gallon No. 2 fuel oil UST, which was located at the northwest corner of the Wiggins building, was removed in 1994. This UST was not replaced. There is no report of subsurface petroleum contamination in the vicinity of this former UST at the time of this removal.

As a result of the petroleum contamination detected in the subsurface beneath the former 1,000-gallon UST and concerns held by the VTDEC about the former 500-gallon UST, the VTDEC requested that additional work be conducted at the site in order to determine the extent and degree of petroleum contamination.

**B. Site Description**

There are one building located in the southeast corner of the Wiggins property, and three open-front storage sheds located close to the south, the west, and the north property boundaries. Most of the yard is paved.

The site is bounded to the north by railroad tracks, and beyond the tracks is a driveway and a parking lot. Northeast of the site, across the railroad tracks, is a large brick apartment building. To the east, across East Street, the site is bounded by Beverage Warehouse and a Citgo station. Southeast of the site is New England Video, which formerly had been a gasoline station. South of the site, along the north side of East Allen Street, are two houses that have been converted to apartments (based on the gas meters, there are likely three apartments in each house). Continuing west along East Allen Street there is an auto glass repair shop and a doctor's office. West of the site is the Winooski Senior Citizens Center.

Topographically, the Wiggins Concrete site is relatively level, with a slight slope toward the west. The area around the Wiggins site reportably had been a ravine that was filled in several decades ago, according to Mr. John Follett.

The area is served by municipal water and sewer systems. The nearest surface water is the Winooski River, located approximately 1,000 feet south of the site.

**C. Site Geology**

Soils in the vicinity of the UST pit during the removal inspection consisted of brown to gray fine sand and silt with some gravel to a depth of 8 feet, then grading to a red-brown clay at a depth of 10 feet. According to the Surficial Geologic Map of Vermont (Doll, 1970), the site is underlain by pebbly marine sand that had been deposited in the Champlain Sea. Bedrock below the site is mapped as Winooski Dolomite, a buff-weathered, pink, buff, and gray dolomite (Doll, 1961).

### III. INVESTIGATIVE PROCEDURES

To further define the extent of subsurface petroleum contamination in the area of the former USTs, the following investigative tasks were undertaken: soil borings; monitoring well installations; determination of groundwater flow direction and gradient; groundwater sample collection and analyses for petroleum related constituents; and a sensitive receptor survey.

#### A. Monitoring Well Installation

Five monitoring wells, MW-1 through MW-5, were installed on October 28 and 29, 1997, by Adams Engineering, under the direct supervision of a Griffin hydrogeologist. The soil borings were advanced with a truck mounted vibratory soil core sampler. The soil boring logs and monitoring well as-built specifications are presented in Appendix B. The monitoring well locations are indicated on the Site Map (Appendix A).

Monitoring well MW-1 was located approximately 15 feet east of the former 1,000-gallon UST, in a presumed upgradient direction with respect to shallow groundwater flow. Monitoring well MW-2 was located approximately five feet northeast of the former 500-gallon UST, in a presumed crossgradient to downgradient location. Monitoring well MW-3 was located approximately five feet north of the 1,000-gallon UST, close to the source area. Monitoring well MW-4 was located southeast of the two former USTs, in a presumed upgradient direction. Monitoring well MW-5 was located northwest of the two former USTs, in a presumed downgradient direction.

Undisturbed soil samples were collected from the borings with the core sampler. The soil samples were logged by the supervising hydrogeologist and screened for the presence of volatile organic compounds (VOCs) using an HNu™ systems Model HW-101 PID. Prior to screening, the PID was calibrated with isobutylene referenced to benzene. Soils were screened using the Griffin Jar/Polyethylene Bag Headspace Screening Protocol, which conforms to state and industry standards.

Very low concentrations of VOCs were detected in the soils from the borings for monitoring wells MW-2, MW-4, and MW-5. VOC readings up to 200 parts per million (ppm) were detected from the soils from the borings for MW-1 and MW-3.

Soil encountered during drilling consisted primarily of sand and gravel from grade to approximately 6 feet below grade. This was underlain by orange-brown stiff clay to approximately 10 feet below grade, followed by gray plastic clay to approximately 15 feet below grade, marking the vertical extent of the deepest borings.

During drilling, the water table was encountered at approximately 7 feet below grade in MW-1, approximately 8 feet below grade in MW-2, approximately 8 feet below grade in

MW-3, approximately 5.2 feet below grade in MW-4, and approximately 7 feet below grade in MW-5. Free product was not observed in any of the soil borings drilled for the new monitoring wells.

The monitoring wells are constructed of 1.5 inch diameter, schedule 40 PVC, with a 10 foot length of 0.010 inch slotted screen, except for MW-5 which had a 7 foot length of screen. A sandpack was placed in the annulus between the monitoring well screen and the borehole wall. Above the sand pack, the annulus was filled with a bentonite clay grout seal to prevent surface water from entering the borehole. The wells are protected at the surface by a flush mounted steel roadbox with a bolt down cover. The well head protective roadboxes are set in cement. The monitoring wells were developed immediately following installation with a peristaltic pump and dedicated tubing.

## **B. Groundwater Flow Direction and Gradient**

Water table elevation measurements were collected from the five on-site monitoring wells on November 5, 1997. The top of casing elevations were determined relative to MW-1, which was arbitrarily set at 100 feet. The depth to water in each well was subtracted from the top of casing elevation to obtain the relative water table elevation. Water level data are presented in Appendix C. No free phase product was detected in the wells on November 5, 1997. Water table elevations were plotted on the site map to generate the Groundwater Contour Map figure presented in Appendix A.

The relative water table elevations measured on November 5, 1997, suggest that groundwater flow at the site exhibits a radial pattern directed generally toward the north at a hydraulic gradient of approximately 5.6%. The groundwater flow direction from the 1,000-gallon UST is directed generally toward the northeast. The depth to groundwater measured on November 5, 1997, was approximately 4 to 5 feet below ground surface.

Due to the shallow depth of groundwater, the groundwater flow direction in the vicinity of the site may be influenced locally by higher permeability deposits located around subsurface utilities or structures (e.g. building foundations). The stormwater catchbasin located near the northeast corner of the property reportedly connects to another catchbasin, not shown on the site map, located near the Senior Citizens Center, west-northwest of the site. The connecting culvert would run approximately parallel to the railroad tracks. The stormwater catchbasin shown on the Site Map near the western property boundary, reportedly is the eastern extent of that drain. This information regarding the stormwater piping was obtained from Mr. Ed Willenbaker of the Winooski Housing Department in a conversation with Mr. John Follett of Ironwill, Inc. on October 28, 1997. A representative of the Winooski Water and Sewer Department was contacted on October 23, 1997, regarding the stormwater culverts. The representative stated that he believes the stormwater culvert on the western side of the site runs east toward Barlow Street. The Winooski Water and Sewer Department was not sure if the stormwater

catchbasin near the northeast corner of the property was connected to any culverts under the site. The representative stated that this catchbasin may possibly just be a dry well.

### **C. Groundwater Sampling and Analyses**

Griffin collected groundwater samples from the five on-site monitoring wells on November 5, 1997. The groundwater samples were analyzed by Endyne, Inc. of Williston, Vermont, by EPA Method 8020 for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE), and by modified EPA Method 8100 for total petroleum hydrocarbons (TPH). Samples containing detectable concentrations of TPH were additionally fingerprint analyzed. Petroleum in each sample was identified by comparison of the chromatographic fingerprint of the sample with a laboratory generated library of chromatographic fingerprints of assorted petroleum standards.

Results of the laboratory analyses for the monitoring wells are summarized in Appendix D. The laboratory analysis report is also contained in Appendix D. Analytical results of the trip blank and duplicate samples indicate that adequate quality assurance and control were maintained during sample collection and analysis.

Analysis of the groundwater sample collected from MW-1 indicates concentrations of benzene and ethylbenzene exceeding the Vermont Groundwater Enforcement Standards (VGES) for these compounds. Concentrations of toluene and xylenes, below the VGES for these compounds, were also detected in the groundwater sample from MW-1. A trace concentration of MTBE was detected in the groundwater sample from MW-1, however the quantitation limit of 200 parts per billion (ppb) exceeded the VGES of 40 ppb for MTBE. TPH was detected in the groundwater sample collected from MW-1 at a concentration of 14.7 parts per million (ppm). The petroleum in this sample was identified as gasoline.

Analysis of the groundwater sample collected from MW-3 indicates concentrations of benzene, ethylbenzene, toluene, and xylenes exceeding VGES for these compounds. A trace concentration of MTBE was detected in the groundwater sample from MW-3, however the quantitation limit of 2000 ppb exceeded the VGES of 40 ppb for MTBE. TPH was detected in the groundwater sample collected from MW-3 at a concentration of 80.9 ppm. The petroleum in this sample was identified as gasoline.

The groundwater samples collected from monitoring wells MW-2, MW-4, and MW-5 had no detectable levels of petroleum compounds.

#### **D. Sensitive Receptor Survey**

A qualitative risk assessment was conducted to identify known and potential receptors of the contamination detected at Wiggins Concrete. A visual survey was conducted at the time of the UST removal inspection on July 29, 1997, as well as during the monitoring well installation on October 28 and 29, 1997. Based on these observations, a determination of the potential risk to identified receptors was made.

The entire area is served by municipal water. No in-use public or private water supply wells were identified in the vicinity of the site, based on visual observation and interviews with site representatives. The nearest surface water is the Winooski River located approximately 1,000 feet south of the site, which flows toward the west.

The soil and groundwater in the immediate vicinity of the former 1,000-gallon UST are potential sensitive receptors. The risk to these sensitive receptors is considered minimal, based on the relatively low BTEX and TPH concentrations in the groundwater samples collected at the site.

While the exact locations and orientations of the stormwater culverts are not known, there are no receptors along the suspected utility corridors that appear to be at significant risk of impact from the subsurface petroleum contamination detected at the site.

#### **IV. CONCLUSIONS**

Based on the results of this investigation, Griffin presents the following conclusions:

- 1) There was a release(s) of petroleum to the subsurface in the vicinity of the northeast corner of the Wiggins Concrete facility. The source, amounts and duration of the release(s) are unknown and are likely from gasoline usage at the site prior to 1982 when the site was acquired by Wiggins Concrete. There is no evidence that the contamination is from the 1,000-gallon fuel oil UST removed in July 1997.
- 2) Fingerprint analysis of the groundwater samples collected on November 5, 1997, from the on-site monitoring wells indicates the dissolved groundwater contamination to most likely be of gasoline origin.
- 3) There are no remaining sources of petroleum contamination at the site.
- 4) The depth to groundwater measured on November 5, 1997, was approximately 4 to 5 feet below the ground surface. The shallow groundwater flow beneath the site is estimated to be directed toward the north at a hydraulic gradient of

approximately 5.6%. Due to the shallow depth of groundwater, the groundwater flow direction in the vicinity of the site may be influenced locally by subsurface utilities.

- 5) The regional groundwater flow direction is estimated to be west to southwest based on the surface topography and the relative location of the Winooski River.
- 6) Field screening results for VOCs indicate that adsorbed petroleum compounds exist in the soils in the immediate vicinity of the former 1,000-gallon UST pit. It is expected that adsorbed petroleum compound concentrations will decrease over time with the progressive action of natural mitigative processes, including biodegradation, volatilization, and diffusion.
- 7) Relatively low levels of dissolved VOCs exist in the groundwater in the immediate vicinity of the former 1,000-gallon UST pit. It is expected that dissolved petroleum compound concentrations will decrease over time with the progressive action of natural mitigative processes, including dilution, dispersion, and biodegradation.
- 8) Petroleum compounds were not detected in the groundwater collected from monitoring wells MW-2, MW-4, and MW-5 on November 5, 1997.
- 9) A 500-gallon UST that contained No. 2 fuel oil for heating purposes was removed in 1994. There is no evidence of a release from this UST based on the field soil screening results from the boring for MW-2 and based on the laboratory analytical results of the groundwater collected from MW-2 and MW-5, located downgradient of this former UST.
- 10) There appear to be no significant potential risks to identified sensitive receptors, at this time, based on currently available data.

## V. RECOMMENDATION

Based on the above conclusions, Griffin recommends that one additional round of groundwater samples be collected from the five on-site monitoring wells, and analyzed for BTEX and MTBE via EPA Method 8020. The depth to water should be measured in the five monitoring wells to reconfirm the groundwater flow direction. The next sampling event should be scheduled for April/May 1998. Recommendations regarding future site monitoring will be made following the April/May 1998 sampling.

## REFERENCES

USGS 7.5 Minute Topographic Map, Burlington quadrangle, Vermont, dated 1948 and photorevised in 1987.

Doll, Charles G., ed., 1961, *Centennial Geologic Map of Vermont*, Vermont Geological Survey.

Doll, Charles G., ed., 1970, *Surficial Geologic Map of Vermont*, Vermont Geological Survey.

Griffin International, July 31, 1997, *Wiggins Concrete UST Closure Inspection letter report to Ms. Sue Thayer, Vermont ANR/DEC, Waste Management Division.*

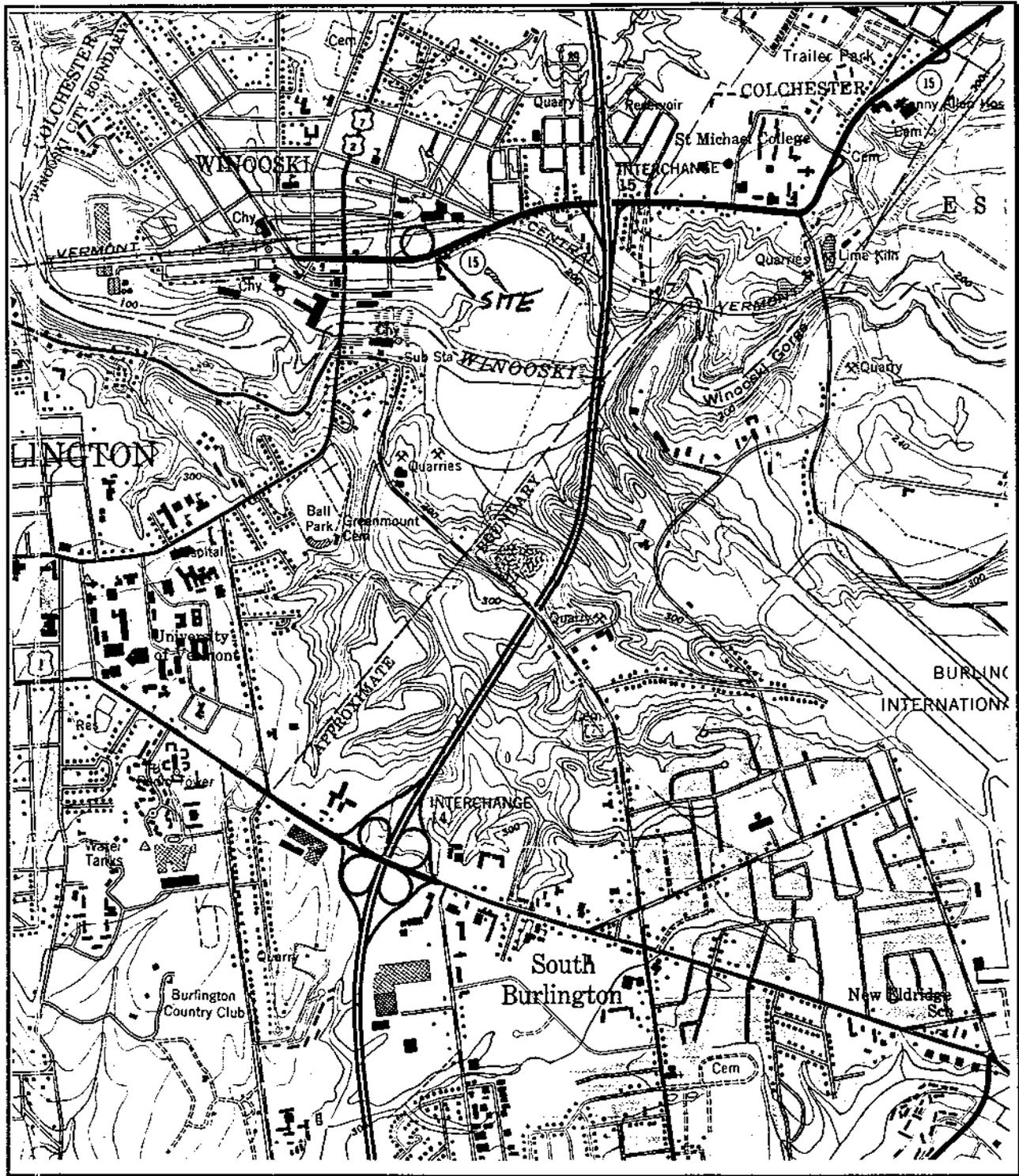
**APPENDIX A**

**Site Location Map**

**Site Map**

**Groundwater Contour Map**

**Contaminant Concentration Map**



**SITE LOCATION MAP - WIGGIN'S CONCRETE.**

**Winooski, Vermont**

Source: USGS 7.5 minute Burlington VT quadrangle, dated 1948, photorevised 1987.

Scale: 1:24,000





## State of Vermont

Department of Fish and Wildlife  
Department of Forests, Parks and Recreation  
Department of Environmental Conservation  
State Geologist  
RELAY SERVICE FOR THE HEARING IMPAIRED  
1-800-253-0191 TDD>Voice  
1-800-253-0195 Voice>TDD

AGENCY OF NATURAL RESOURCES  
Department of Environmental Conservation  
Waste Management Division  
103 South Main Street / West Building  
Waterbury, Vermont 05671-0404  
802-241-3877  
Fax 802-241-3296  
don.robisky@anrmail.anr.state.vt.us

February 23, 1998

Christine Ward  
Griffin International  
P.O. Box 943  
Williston, Vermont 05495

Re: Initial Site Investigation Report  
Wiggins Concrete  
Winooski 97-2193

Ms. Ward:

I have reviewed the Initial Investigation of Suspected Subsurface Petroleum Contamination Report, dated December 1997, for the Wiggins Concrete site in Winooski. The investigation and report found gasoline contaminated soils and groundwater in the vicinity of the location of the 1000 gallon underground storage tank removed in July 1997. No contamination was found near the location of a 500 gallon underground tank removed in 1994.

The results of the investigation to date warrant further sampling of groundwater from the five monitoring wells installed at the end of October, and measurement of the depth of groundwater in all those wells. I agree with your recommendation that the next round of measurement and sampling be conducted during spring groundwater conditions. It is important that the presence of contamination be confirmed and that the groundwater contour in the area be established. It would also be useful to check with the City of Winooski to find out if a storm drain passes under the yard at the site. If one does, downstream access should be found and a sample of the flow in it taken. Present data implies that a contaminated groundwater plume extends to the North. We need to know if it has or can reach any receptors. Please proceed with your plan to conduct spring sampling and to document your findings in a report with conclusions and recommendations.

Please contact me if you have any questions.

Sincerely,

Donald Robisky  
Environmental Engineer

cc: John Folett



Lang Associates  
 360 Main Street, Burlington, VT 05401  
 (802) 864-0541 or (800) 864-6226  
 (802) 864-1910 fax  
 (802) 864-1905 X-16 personal voice mail  
 E-Mail: Staige@Together.Net

Don  
 Jan 27 10 12 AM '98

January 23, 1998

George Desch  
 Agency of Natural Resources  
 103 South Main St.  
 West Building  
 Waterbury, VT 05671-0404

Re: Follett Property, 2 East Street, Winooski

Dear George:

As I indicated to you on the phone today, I want to express my appreciation for the energy and high degree of professionalism provided by your department, especially the efforts of June Middleton, Don Robisky and Chuck Schwer.

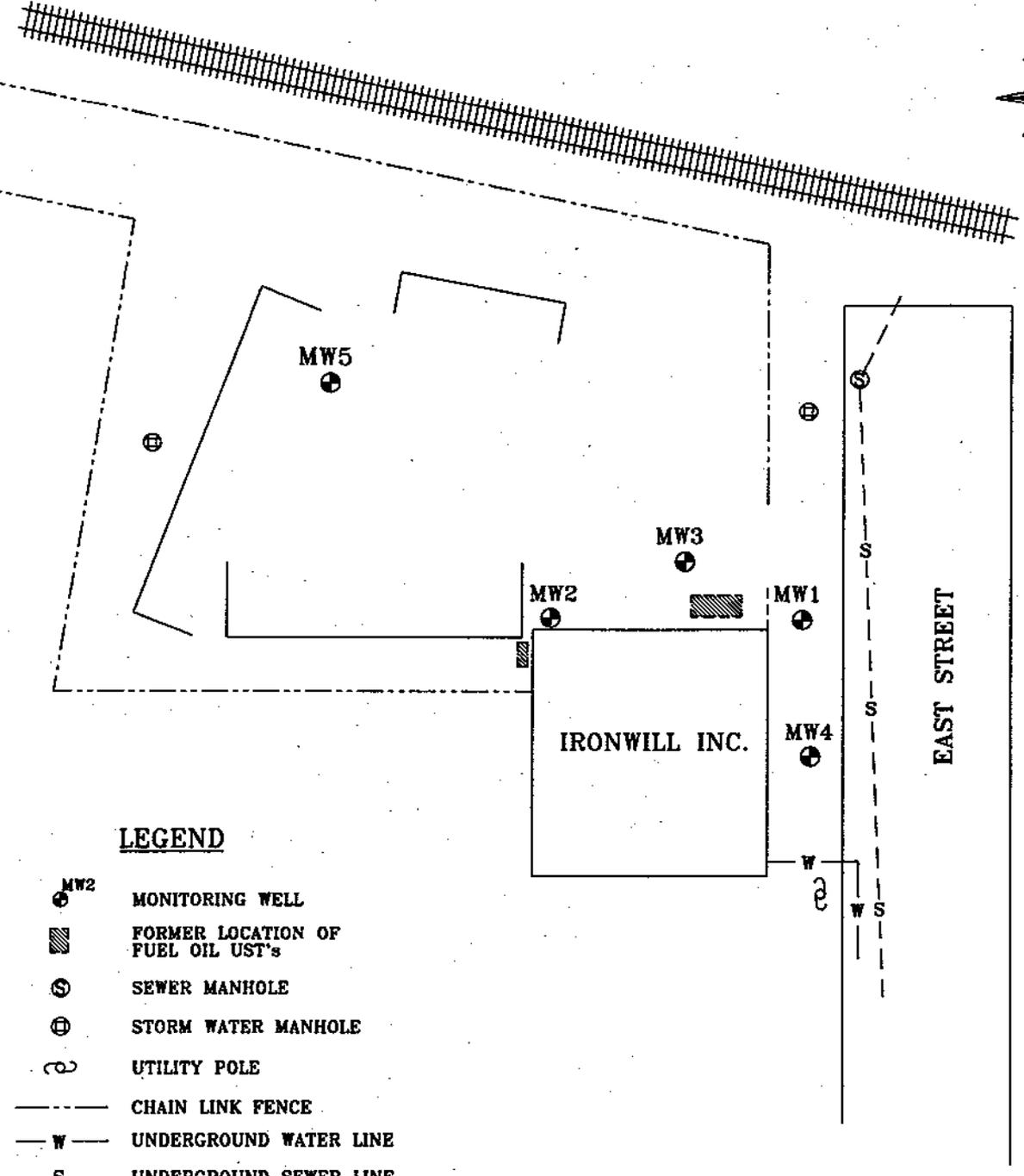
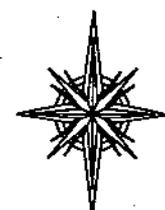
In representing not only the public's interest but our desire to inform the prospective property buyer of the process he can expect in managing the contamination, each of your associates has been extremely professional, patient and informative. I realize that, all too often, those in public service do not receive commendations for work which is carried out in a professional manner. As such, I want to acknowledge to you our gratitude for the outstanding efforts of June, Don and Chuck. Please pass on to them my thanks.

Sincerely,

*Robert Hawley*  
 Robert (Bud) Hawley

*Forwarded to Commissioner & Director  
 Peter Marshall  
 [Signature]*

N



**LEGEND**

- MW2 MONITORING WELL
- FORMER LOCATION OF FUEL OIL UST's
- SEWER MANHOLE
- STORM WATER MANHOLE
- UTILITY POLE
- CHAIN LINK FENCE
- W UNDERGROUND WATER LINE
- S UNDERGROUND SEWER LINE

JOB #: 99741105

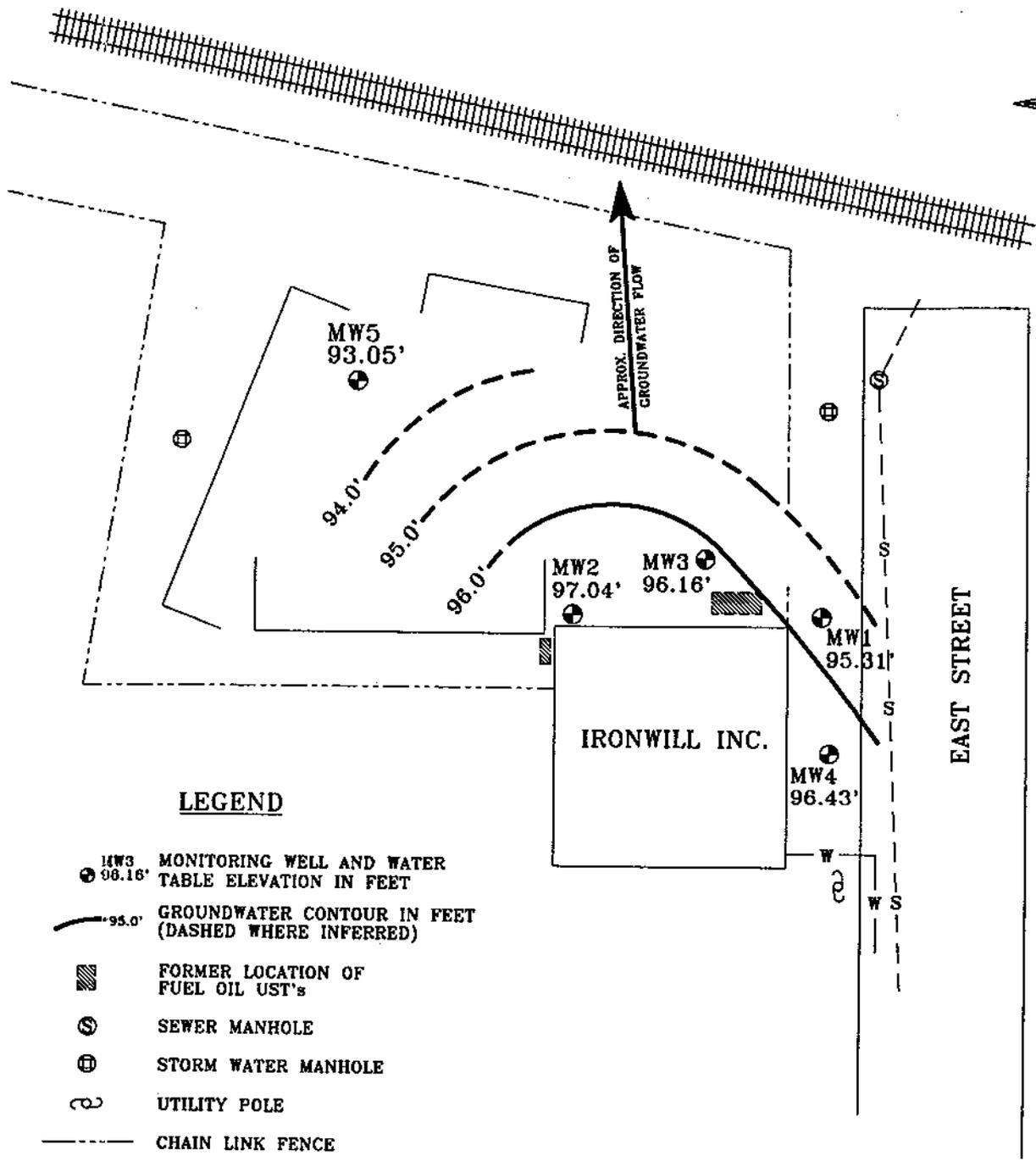
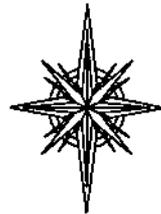


**IRONWILL INC.**  
**D/B/A WIGGINS CONCRETE**  
 2 EAST ST., WINOOSKI, VERMONT

**SITE MAP**

DATE: 11/24/97	DWG.#:2	SCALE: 1"=40'	DRN.:SB	APP.:CW
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N



**LEGEND**

- MW3 MONITORING WELL AND WATER TABLE ELEVATION IN FEET
- 95.0' GROUNDWATER CONTOUR IN FEET (DASHED WHERE INFERRED)
- FORMER LOCATION OF FUEL OIL UST's
- SEWER MANHOLE
- STORM WATER MANHOLE
- UTILITY POLE
- CHAIN LINK FENCE
- UNDERGROUND WATER LINE
- UNDERGROUND SEWER LINE

JOB #: 99741105  
MEASUREMENT DATE: 11/5/97

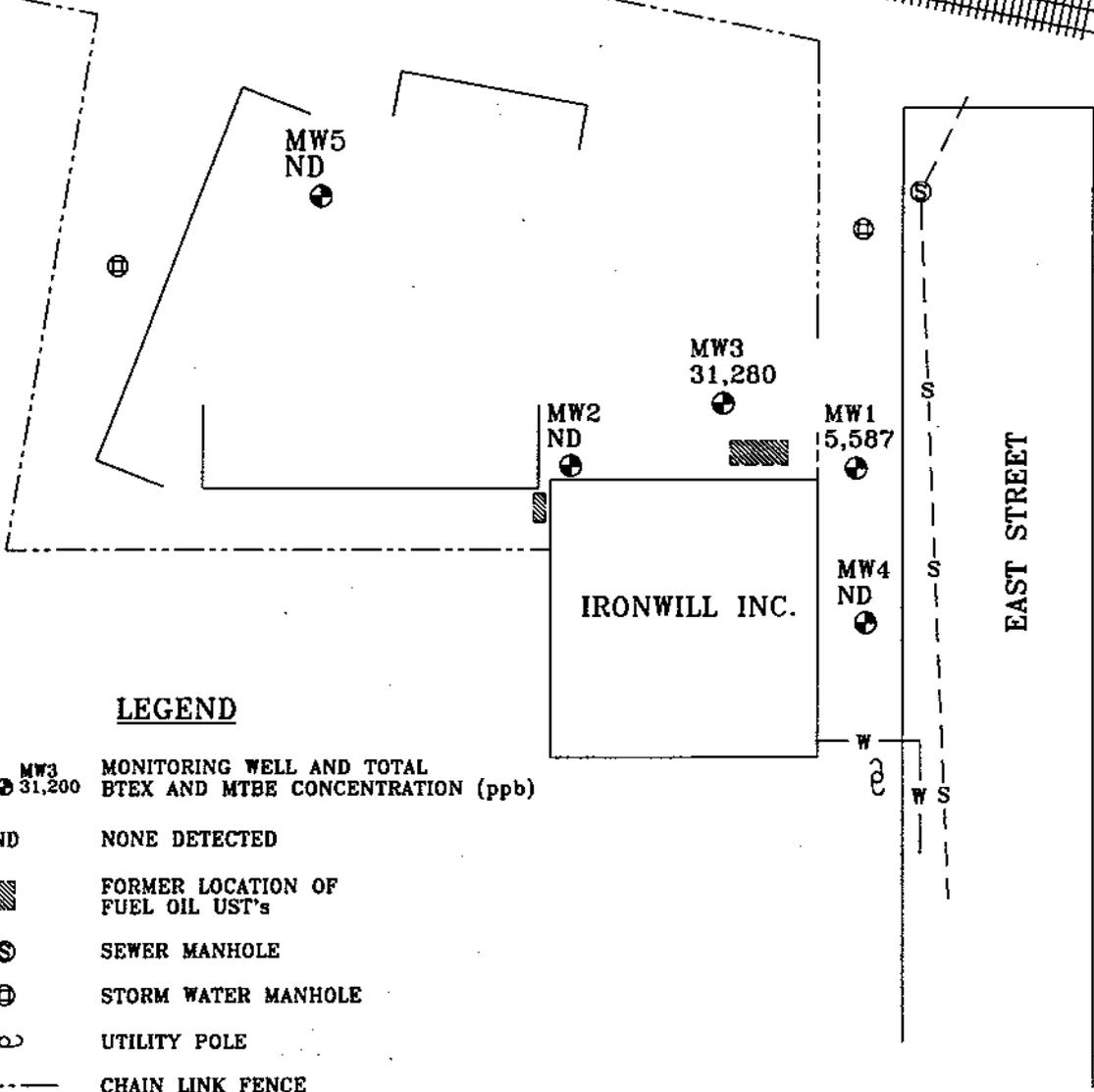
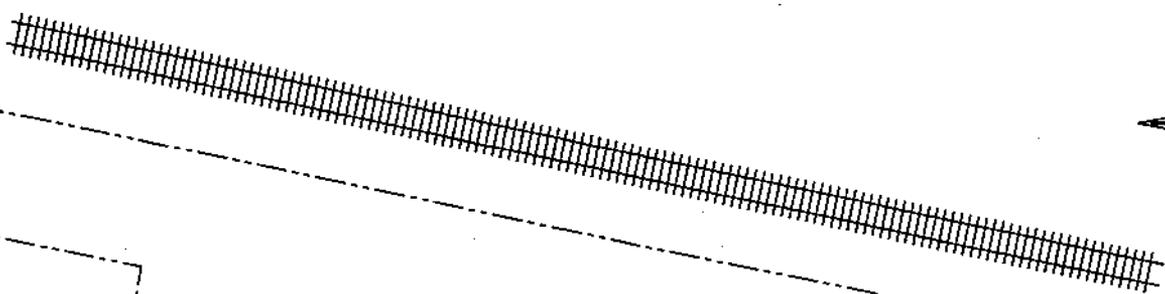
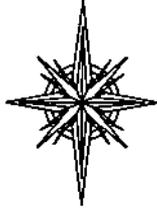


**IRONWILL INC.**  
**D/B/A WIGGINS CONCRETE**  
2 EAST ST., WINOOSKI, VERMONT

**GROUNDWATER CONTOUR MAP**

DATE: 11/24/97	DWG.#:3	SCALE: 1"=40'	DRN.:SB	APP.:CW
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N



**LEGEND**

- MW3 31,200 MONITORING WELL AND TOTAL BTEX AND MTBE CONCENTRATION (ppb)
- ND NONE DETECTED
- ▨ FORMER LOCATION OF FUEL OIL UST's
- ⊙ SEWER MANHOLE
- ⊕ STORM WATER MANHOLE
- ⊝ UTILITY POLE
- CHAIN LINK FENCE
- W- UNDERGROUND WATER LINE
- S-- UNDERGROUND SEWER LINE

JOB #: 99741105  
SAMPLE DATE: 11/5/97



**IRONWILL INC.**  
**D/B/A WIGGINS CONCRETE**  
2 EAST ST., WINOOSKI, VERMONT

**CONTAMINANT CONCENTRATION MAP**

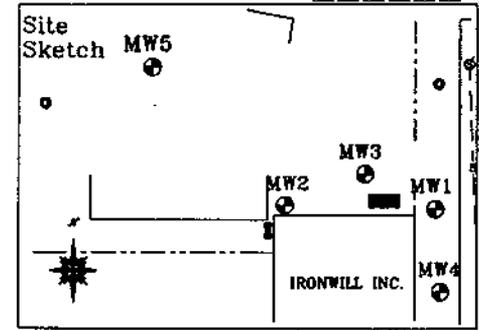
DATE: 11/24/97	DWG.#:4	SCALE: 1"=40'	DRN.:SB	APP.:CW
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**APPENDIX B**

**Soil Logs and Monitoring Well Specifications**

PROJECT IRONWILL INC.  
 LOCATION 2 EAST STREET, WINOOSKI, VERMONT  
 DATE DRILLED 10/28/97 TOTAL DEPTH OF HOLE 15'  
 DIAMETER 2.75"  
 SCREEN DIA. 1.5" LENGTH 10' SLOT SIZE 0.010"  
 CASING DIA. 1.5" LENGTH 2.5' TYPE sch 40 pvc  
 DRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORY  
 DRILLER GERRY ADAMS LOG BY C. WARD

WELL NUMBER MW1



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX			Asphalt	0
0	GRIPPER CAP				
0	CONCRETE				
1	BENTONITE		0.5'-3.5'		1
2	WELL RISER		3 ppm	Gray/brown, fine GRAVEL and SAND.	2
3			3.5'-4.0'		3
4			40 ppm	Black SAND, some silt, trace gravel, odor.	4
5			4.0'-5.0'	Gray SAND, some silt, trace gravel, odor.	5
6	SAND PACK		40 ppm	Gray SAND and GRAVEL, some silt, wet, black staining at top of sample.	6
7			5.0'-6.0'		7
7				7.0' WATER TABLE	7
8			6.0'-10.0'		8
9	WELL SCREEN		40 ppm	Orange/brown CLAY, stiff, platy when broken.	9
10					10
11					11
12	BOTTOM CAP		10.0'-15.0'		12
13			50 ppm	Gray/brown CLAY, plastic, soft, wet.	13
14					14
15	UNDISTURBED NATIVE SOIL				15
16				BASE OF WELL AT 13' END OF EXPLORATION AT 15'	16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT IRONWILL INC.

LOCATION 2 EAST STREET, WINOOSKI, VERMONT

DATE DRILLED 10/28/97 TOTAL DEPTH OF HOLE 15'

DIAMETER 2.75"

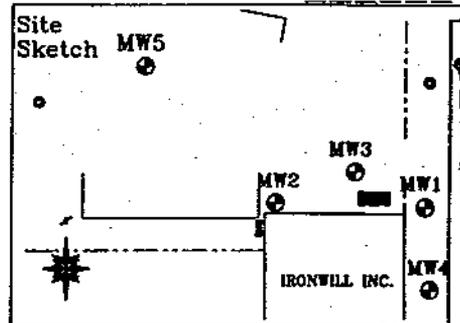
SCREEN DIA. 1.5" LENGTH 10' SLOT SIZE 0.010"

CASING DIA. 1.5" LENGTH 3.5' TYPE sch 40 pvc

DRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORY

DRILLER GERRY ADAMS LOG BY C. WARD

WELL NUMBER MW2

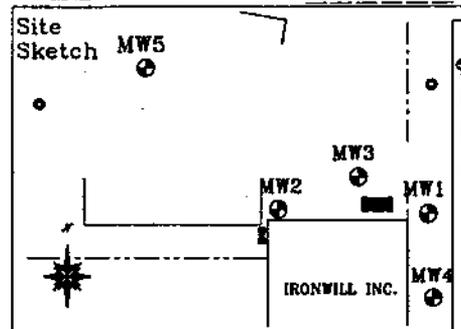


GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		ROAD BOX			0
0		GRIPPER CAP			0
0		CONCRETE			0
1		BENTONITE	0'-3.0' 3 ppm	Brown SAND, fine GRAVEL and SILT. (piece of automotive air filter)	1
2					2
3		WELL RISER	3.0'-4.0' 2.7 ppm	Buff colored, very fine GRAVEL	3
4			4.0'-5.0' 3 ppm	Gray/orange brown, patchy CLAY, stiff, Black, very fine GRAVEL at sample bottom.	4
5		SAND PACK			5
6				No recovery.	6
7		WELL SCREEN			7
8				8.0' WATER TABLE	8
9					9
10			10.0'-11.0' 3.6 ppm	Gray SILT and CLAY, some fine gravel, wet. Some small pieces of red brick at 11.0'	10
11					11
12					12
13		BOTTOM CAP	11.0'-15.0' 3.6 ppm	Gray CLAY, plastic, soft, wet.	13
14					14
15		UNDISTURBED NATIVE SOIL		BASE OF WELL AT 14' END OF EXPLORATION AT 15'	15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT IRONWILL INC.  
 LOCATION 2 EAST STREET, WINOOSKI, VERMONT  
 DATE DRILLED 10/28/97 TOTAL DEPTH OF HOLE 15'  
 DIAMETER 2.75"  
 SCREEN DIA. 1.5" LENGTH 10' SLOT SIZE 0.010"  
 CASING DIA. 1.5" LENGTH 3.5' TYPE sch 40 pvc  
 DRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORY  
 DRILLER GERRY ADAMS LOG BY C. WARD

WELL NUMBER MW3



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX				0
0	GRIPPER CAP				0
0	CONCRETE				0
1	BENTONITE		0'-3.0' 8 ppm	Light brown, fine SAND and fine GRAVEL, little silt, trace clay, damp.	1
2	BENTONITE				2
3	WELL RISER		3.0'-3.5' 90 ppm	Gray to black SILT and CLAY, trace gravel.	3
4	WELL RISER		3.5'-5.0' 140 ppm	Gray/brown to black, fine GRAVEL, some sand, trace silt, several concrete chunks.	4
5	WELL RISER				5
6	SAND PACK		5.0'-6.0' 180 ppm	Same as above.	6
7	SAND PACK				7
8	WELL SCREEN		6.0'-10.0' >200 ppm	8.0' WATER TABLE 	8
9	WELL SCREEN			Orange/brown CLAY, stiff.	9
10	WELL SCREEN			Same as above.	10
11	WELL SCREEN		10.5'-11.0' >200 ppm	Dark gray, SAND and SILT, wet, loose.	11
12	WELL SCREEN				12
13	BOTTOM CAP		11.0'-15.0' 80 ppm	Gray CLAY, plastic, soft, wet.	13
14	BOTTOM CAP				14
15	UNDISTURBED NATIVE SOIL			BASE OF WELL AT 14' END OF EXPLORATION AT 15'	15
16	UNDISTURBED NATIVE SOIL				16
17	UNDISTURBED NATIVE SOIL				17
18	UNDISTURBED NATIVE SOIL				18
19	UNDISTURBED NATIVE SOIL				19
20	UNDISTURBED NATIVE SOIL				20
21	UNDISTURBED NATIVE SOIL				21
22	UNDISTURBED NATIVE SOIL				22
23	UNDISTURBED NATIVE SOIL				23
24	UNDISTURBED NATIVE SOIL				24
25	UNDISTURBED NATIVE SOIL				25

PROJECT IRONWILL INC.

LOCATION 2 EAST STREET, WINOOSKI, VERMONT

DATE DRILLED 10/28/97 TOTAL DEPTH OF HOLE 12'

DIAMETER 2.75"

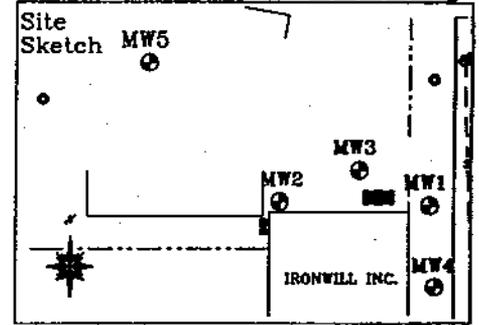
SCREEN DIA. 1.5" LENGTH 10' SLOT SIZE 0.010"

CASING DIA. 1.5" LENGTH 1.5' TYPE sch 40 pvc

DRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORY

DRILLER GERRY ADAMS LOG BY C. WARD

WELL NUMBER MW4



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		ROAD BOX			0
0		GRIPPER CAP		Asphalt	0
1		CONCRETE			1
1		BENTONITE	0.5'-2.5' 2.9 ppm	Gray, fine GRAVEL, SAND and SILT.	2
2		WELL RISER			3
3			2.5'-3.5' 2.8 ppm	Brown SAND and fine GRAVEL	4
4			3.5'-4.5' 3.4 ppm	Brown SILT and SAND, trace gravel.	5
5			4.5'-5.0' 2.9 ppm	Yellow/brown, coarse to medium SAND, some silt.	6
6		SAND PACK	5.0'-6.0' 3 ppm	5.2' WATER TABLE	7
7				Same as above with some fine gravel.	8
8		WELL SCREEN	6.0'-10.0' 3.4 ppm		9
9				Brown/gray CLAY, stiff.	10
10		BOTTOM CAP	10.0'-12.0' 3.4 ppm		11
11				Gray/brown CLAY, plastic.	12
12		UNDISTURBED NATIVE MATERIAL		BASE OF WELL AT 12' END OF EXPLORATION AT 12'	13
13					14
14					15
15					16
16					17
17					18
18					19
19					20
20					21
21					22
22					23
23					24
24					25

PROJECT IRONWILL INC.

LOCATION 2 EAST STREET, WINOOSKI, VERMONT

DATE DRILLED 10/28/97 TOTAL DEPTH OF HOLE 10.3'

DIAMETER 2.75"

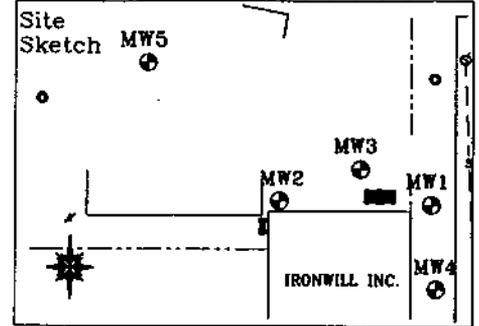
SCREEN DIA. 1.5" LENGTH 7.0' SLOT SIZE 0.010"

CASING DIA. 1.5" LENGTH 2.5' TYPE sch 40 pvc

DRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORY

DRILLER GERRY ADAMS LOG BY C. WARD

WELL NUMBER MW5



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		ROAD BOX			0
0		GRIPPER CAP			0
0		CONCRETE		Asphalt	0
1		BENTONITE	0.5'-2.5'	Buff to light gray SAND and GRAVEL, little silt, dense.	1
2		WELL RISER	0.4 ppm	Black SAND and SILT, little gravel, loose.	2
3			2.5'-3.0'	Yellow/gray SILT, some clay, trace gravel, dense.	3
4			2.2 ppm	Brown to dark brown SAND and GRAVEL, some silt.	4
5			3.0'-4.0'		5
6		SAND PACK	2.2 ppm	Brown GRAVEL, some silt, loose, wet.	6
7		WELL SCREEN	4.0'-5.0'	7.0' WATER TABLE	7
8			2.8 ppm		8
9		BOTTOM CAP	5.0'-10.0'		9
10		UNDISTURBED NATIVE MATERIAL	2.4 ppm	Gray CLAY, soft, plastic.	10
11				BASE OF WELL AT 10'	11
12				REFUSAL AT 10.3'	12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

**APPENDIX C**

**Liquid Level Monitoring Data**

**LIQUID LEVEL MONITORING DATA**

**IRONWILL, INC. d/b/a WIGGINS CONCRETE  
WINOOSKI, VERMONT**

11/5/97

Well I.D.	Well Depth btoc	Top of Casing Elevation	Depth To Product btoc	Depth To Water btoc	Product Thickness	Specific Gravity Of Product	Water Equivalent	Corrected Depth To Water	Corrected Water Table Elevation
MW-1	13.0	100.00	-	4.69	-	-	-	-	95.31
MW-2	14.0	100.49	-	3.45	-	-	-	-	97.04
MW-3	14.0	99.71	-	3.55	-	-	-	-	96.16
MW-4	12.0	100.72	-	4.29	-	-	-	-	96.43
MW-5	10.0	97.03	-	3.98	-	-	-	-	93.05

All Values Reported in Feet

btoc - Below Top of Casing

Elevations determined relative to top of casing of MW-1, which was arbitrarily set at 100'

**APPENDIX D**

**Water Quality Data**

# GROUNDWATER QUALITY SUMMARY

## IRONWILL, INC. d/b/a WIGGINS CONCRETE WINOOSKI, VERMONT

### MW-1

PARAMETER	Date of Sample Collection				VGES (ppb)
	11/5/97				
Benzene	466.				5.
Chlorobenzene	ND > 20				100.
1,2-DCB	ND > 20				600.
1,3-DCB	ND > 20				600.
1,4-DCB	ND > 20				75.
Ethylbenzene	886.				700.
Toluene	555.				1,000.
Xylenes	3,680.				10,000.
Total BTEX	5,587.				-
MTBE	TBQ < 200				40.
BTEX+MTBE	5,587.				-
TPH (mg/L)	14.7				

### MW-2

PARAMETER	Date of Sample Collection				VGES (ppb)
	11/5/97				
Benzene	ND > 1				5.
Chlorobenzene	ND > 1				100.
1,2-DCB	ND > 1				600.
1,3-DCB	ND > 1				600.
1,4-DCB	ND > 1				75.
Ethylbenzene	ND > 1				700.
Toluene	ND > 1				1,000.
Xylenes	ND > 1				10,000.
Total BTEX	ND				-
MTBE	ND > 10				40.
BTEX+MTBE	ND				-
TPH (mg/L)	ND > 0.8				

BTEX Analysis by EPA 8020, TPH Analysis by Modified EPA 8100

All Values Reported in ug/L (ppb) except TPH in mg/L (ppm)

ND>1 - None Detected above Detection Limit

TBQ<1 - Trace Below Quantitation Limit

NA - Not Analyzed

VGES - Vermont Groundwater Enforcement Standard

> VGES

# GROUNDWATER QUALITY SUMMARY

## IRONWILL, INC. d/b/a WIGGINS CONCRETE WINOOSKI, VERMONT

### MW-3

PARAMETER	Date of Sample Collection				VGES (ppb)
	11/5/97				
Benzene	6,460				5.
Chlorobenzene	ND > 200				100.
1,2-DCB	ND > 200				600.
1,3-DCB	ND > 200				600.
1,4-DCB	ND > 200				75.
Ethylbenzene	2,420				700.
Toluene	11,700				1,000.
Xylenes	10,700				10,000.
Total BTEX	31,280.				-
MTBE	TBQ < 2000				40.
BTEX+MTBE	31,280.				-
TPH (mg/L)	80.9				

### MW-4

PARAMETER	Date of Sample Collection				VGES (ppb)
	11/5/97				
Benzene	ND > 1				5.
Chlorobenzene	ND > 1				100.
1,2-DCB	ND > 1				600.
1,3-DCB	ND > 1				600.
1,4-DCB	ND > 1				75.
Ethylbenzene	ND > 1				700.
Toluene	ND > 1				1,000.
Xylenes	ND > 1				10,000.
Total BTEX	ND				-
MTBE	ND > 10				40.
BTEX+MTBE	ND				-
TPH (mg/L)	ND > 0.8				

BTEX Analysis by EPA 8020, TPH Analysis by Modified EPA 8100

All Values Reported in ug/L (ppb) except TPH in mg/L (ppm)

ND>1 - None Detected above Detection Limit

TBQ<1 - Trace Below Quantitation Limit

NA - Not Analyzed

VGES - Vermont Groundwater Enforcement Standard

- VGES

# GROUNDWATER QUALITY SUMMARY

## IRONWILL, INC. d/b/a WIGGINS CONCRETE WINOOSKI, VERMONT

MW-5

PARAMETER	Date of Sample Collection				VGES (ppb)
	11/5/97				
Benzene	ND > 1				5.
Chlorobenzene	ND > 1				100.
1,2-DCB	ND > 1				600.
1,3-DCB	ND > 1				600.
1,4-DCB	ND > 1				75.
Ethylbenzene	ND > 1				700.
Toluene	ND > 1				1,000.
Xylenes	ND > 1				10,000.
Total BTEX	ND				-
MTBE	ND > 10				40.
BTEX+MTBE	ND				-
TPH (mg/L)	ND > 0.8				

BTEX Analysis by EPA 8020, TPH Analysis by Modified EPA 8100

All Values Reported in ug/L (ppb) except TPH in mg/L (ppm)

ND>1 - None Detected above Detection Limit

TBQ<1 - Trace Below Quantitation Limit

NA - Not Analyzed

VGES - Vermont Groundwater Enforcement Standard

> VGES

**GROUNDWATER QUALITY SUMMARY  
QA/QC SAMPLES**

**IRONWILL, INC. d/b/a WIGGINS CONCRETE  
WINOOSKI, VERMONT**

11/5/97

PARAMETER	Trip Blank	Equipment Blank	Duplicate of MW-1	VGES (ppb)
Benzene	ND > 1	No.	416.	5.
Chlorobenzene	ND > 1	Sample	ND > 20	100.
1,2-DCB	ND > 1		ND > 20	600.
1,3-DCB	ND > 1	Disposable	ND > 20	600.
1,4-DCB	ND > 1	Bailers	ND > 20	75.
Ethylbenzene	ND > 1	Used	922.	700.
Toluene	ND > 1		580.	1,000.
Xylenes	ND > 1		3,830.	10,000.
Total BTEX	ND		5,748.	-
MTBE	ND > 10		TBQ < 200	40.
BTEX+MTBE	ND		5,748.	-
TPH (mg/L)	NA		NA	

BTEX Analysis by EPA 8020, TPH Analysis by Modified EPA 8100

All Values Reported in ug/L (ppb) except TPH in mg/L (ppm)

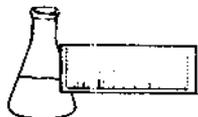
ND>1 - None Detected above Detection Limit

TBQ<1 - Trace Below Quantitation Limit

NA - Not Analyzed

VGES - Vermont Groundwater Enforcement Standard

VGES



≡ **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: Iron Will, Inc.  
REPORT DATE: November 13, 1997  
DATE SAMPLED: November 5, 1997

PROJECT CODE: GIIW1247  
REF.#: 112,893 - 112,899

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

enclosures



### EPA METHOD 8020--PURGEABLE AROMATICS

CLIENT: Griffin International

DATE RECEIVED: November 6, 1997

PROJECT NAME: Iron Will, Inc.

REPORT DATE: November 13, 1997

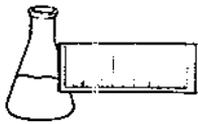
CLIENT PROJ. #: NI

PROJECT CODE: GIW1247

Ref. #:	112,893	112,894	112,895	112,896	112,897
Site:	Trip Blank	MW1	MW1 Duplicate	MW2	MW3
Date Sampled:	11/5/97	11/5/97	11/5/97	11/5/97	11/5/97
Time Sampled:	10:29	11:46	11:49	13:09	12:10
Sampler:	Steve	Steve	Steve	Steve	Steve
Date Analyzed:	11/12/97	11/13/97	11/13/97	11/12/97	11/13/97
UIP Count:	0	>10	>10	0	>10
Dil. Factor (%):	100	5	5	100	0.5
Surr % Rec. (%):	86	83	86	90	92
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)
Benzene	<1	466.	416.	<1	6,460.
Chlorobenzene	<1	<20	<20	<1	<200
1,2-Dichlorobenzene	<1	<20	<20	<1	<200
1,3-Dichlorobenzene	<1	<20	<20	<1	<200
1,4-Dichlorobenzene	<1	<20	<20	<1	<200
Ethylbenzene	<1	886.	922.	<1	2,420.
Toluene	<1	555.	580.	<1	11,700.
Xylenes	<1	3,680.	3,830.	<1	10,700.
MTBE	<10	TBQ <200	TBQ <200	<10	TBQ <2000

Ref. #:	112,898	112,899			
Site:	MW4	MW5			
Date Sampled:	11/5/97	11/5/97			
Time Sampled:	12:27	12:54			
Sampler:	Steve	Steve			
Date Analyzed:	11/13/97	11/13/97			
UIP Count:	0	1			
Dil. Factor (%):	100	100			
Surr % Rec. (%):	90	85			
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.**

Laboratory Services

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

REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International  
PROJECT NAME: Ironwill, Inc.  
DATE REPORTED: November 24, 1997  
DATE SAMPLED: November 5, 1997

PROJECT CODE: GIIW1248  
REF. #: 112,901, 112,903 - 112,906

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody indicated sample preservation with HCl.

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.

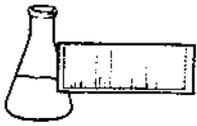
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy were 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.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures



**ENDYNE, INC.**

Laboratory Services

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

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8100

DATE: November 24, 1997  
CLIENT: Griffin International  
PROJECT: Ironwill, Inc.  
PROJECT CODE: GIW1248  
COLLECTED BY: Steve  
DATE SAMPLED: November 5, 1997  
DATE RECEIVED: November 6, 1997

Reference #	Sample ID	Concentration (mg/L) <sup>1</sup>	Fuel ID <sup>2</sup>
112,901	MW1; 11:46	14.7	Gasoline
112,903	MW2; 13:09	ND <sup>3</sup>	
112,904	MW3; 12:10	80.9	Gasoline
112,905	MW4; 12:27	ND	
112,906	MW5; 12:54	ND	

Notes:

- 1 Method detection limit is 0.8 mg/L.
- 2 Petroleum identification is determined by comparison of the chromatographic fingerprint of the sample with a laboratory generated library of chromatographic fingerprints of assorted Petroleum standards.
- 3 None Detected

GIW 1248

**CHAIN-OF-CUSTODY RECORD**  
 112,893 — 112,906

23988

Project Name: <b>IRONWILL INC</b>	Reporting Address: <b>P.O. Box 943</b>	Billing Address: <b>Same as Reporting</b>
Site Location: <b>WINDSKI, VT</b>	<b>19 COMMERCE ST. WILLISTON VT</b>	
Endyne Project Number: <b>GIW 1247</b>	Company: <b>GRAFFIN INTERNATIONAL</b>	Sampler Name: <b>STEVE</b>
	Contact Name/Phone #: <b>CHRIS WARD</b>	Phone #: <b>865-4288</b>

Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
112,893	TRIP Blank	H <sub>2</sub> O	X		11/5/97 10:29	2	40ml	8020/8100 MOD w/ FUEL IP		HCL	
112,894	MW1				11:46						
112,895	MW1 Duplicate				11:49						
112,896	MW2				13:09						
112,897	MW3				12:10						
112,898	MW4				12:27						
112,899	MW5				12:54						

Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>[Signature]</i>
Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time <b>11/6/97 10:40</b>

 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 <sub>5</sub>	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):										

*Ironwill, Fire and/or*

**John H. and Patricia J. Follett  
266 Barlow Road  
Springfield, VT 05156  
Phone (802) 885-5312  
FAX (802) 885-5305**

***fax transmittal***

**Date:** *9/11/97*  
**To:** *Mr. Donald Kobitsky*  
**fax number:** *1-802-241-3296*  
**From:** *John E. Follett, Pres.*  
**number of pages, including this page:**

**Message:** *Ref: 97-2193*

*Dear Sir:*  
*just an update on the above referenced matter:*

*1) On 8/29/97 I authorized Griffen International to go with a proposal and to use the Expressway Procedure.*

*2) This morning, Griffen told me I should receive a proposal by the first of next week.*

*Yours Truly*

*John E. Follett*

**Confidential:** *the material transmitted here may be confidential. If you receive this transmittal error, please call (802) 885-5312 immediately.*