



JUL 17 11 22 AM '95

MAZDA MOTOR CORP  
1000 WASHINGTON ST  
ANN ARBOR MI 48106

July 14, 1995

Mr. Frank Trombetta  
Midway Oil Company  
PO Box 8  
Rutland, VT 05701

RE: Report on the Investigation of Subsurface Petroleum Contamination at  
West Street Mobil, Rutland, Vermont (VTDEC Site # 94-1760)

Dear Mr. Trombetta:

Enclosed, please find the report on the Investigation of Subsurface Petroleum Contamination at  
the above referenced site.

Griffin is pleased to have conducted this work for you. If you have any questions regarding the  
report or if we can be of assistance to you, please call.

Sincerely,

Laurie T. Reed,  
Project Geologist

c. Jason Feingold

**REPORT ON THE INVESTIGATION  
OF SUBSURFACE  
PETROLEUM CONTAMINATION**

**AT**

**WEST STREET MOBIL  
WEST STREET - ROUTE 4 BUSINESS  
RUTLAND, VERMONT**

**VTDEC SITE #95-1760**

**July, 1995**

**PREPARED FOR:**

**Midway Oil Company  
PO Box 8  
Rutland, Vermont**



**Griffin International Inc.  
PO Box 943 / 19 Commerce Street  
Williston, VT 05495  
(802) 865-4288**

**Griffin Project #5954673**

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## **I. INTRODUCTION**

This report describes the investigation of subsurface petroleum contamination at West Street Mobil located on West Street (Route 4, Business) at the corner of Ripley Road in the City of Rutland, Vermont. This investigation was conducted by Griffin International Inc. (Griffin) for Midway Oil Company of Rutland, Vermont, owner of the site.

This investigation was initiated because traces of gasoline were detected in an on-site monitoring well (MW1). The source of the free product is thought to have originated from a weeping valve which has been repaired.

This investigation was requested by the State of Vermont Department of Environmental Conservation (VTDEC) in a letter (dated April 5, 1995) to Frank Trombetta, Midway Oil Company, from Jason Feingold, VTDEC. Griffin prepared a Work Plan and Cost Estimate detailing the work performed in this assessment which was submitted to Midway Oil Company on April 24, 1995 and was submitted to the VTDEC on May 1, 1995. The Work Plan was approved by the VTDEC on May 18, 1995. Site investigation work began at West Street Mobil on May 24, 1995.

## **II. SITE DESCRIPTION**

The site is located in a mixed commercial, residential, and industrial area on West Street (Route 4 Business) in the City of Rutland, Vermont (See Site Location Map in Appendix A.). West Street Mobil is currently a filling station and convenience store. A service station and bulk petroleum storage facility have formerly operated at the site. Two buildings are located at the site. One of the buildings is the Mobil Station which is located off West Street. The other building was formerly an office and is currently used for storage. This building is located south of (behind) the filling station building. Several hundred cubic yards of clean fill are located southeast of the Mobil Station.

The site and surrounding area in front of the West Street Mobil building are gently sloping towards the north and west. This area of the site is at an approximate elevation of 630 feet above sea level. Retaining walls extend from the southeast (back) corner of the building to the northeast and from the southwest (back) corner of the building to the west. The area behind the Mobil Station is at an elevation about five feet lower than the area in front of the building, being on the south side of the retaining wall. Surface runoff on the northern portion of the site drains to storm sewers on West Street. Surface runoff behind the Mobil building drains off the property and on to a railroad area. Drainage of the general area flows towards the south to Otter Creek which is located approximately 400 feet south of the site.

Four single walled steel gasoline underground storage tanks (USTs) are currently in use at the site and are located on the east side of the Mobil Station building. An additional waste oil UST is located on the west side of the building. The waste oil UST is currently not in use.

The site is abutted to the north by West Street (Route 4 Business). Across West Street are residences and the G.E. Vermont Credit Union. The site is abutted to the west by Ripley Road. Across Ripley Road is the Carpet Warehouse. The site is abutted to the south by the Green Mountain Railroad. Southwest of the site across the railroad is Carris Plastics. South of the site across the railroad is Otter Valley Supply (a feed store), Rutland Plywood Company, and Village Car Wash.

The relative area is shown on the Area Map in Appendix A. The site and surrounding area are supplied by a municipal water system. The site is served by municipal sewer.

### **III. INVESTIGATIVE PROCEDURES**

Four monitoring wells (MW1 - MW4) were installed at the site in 1989. MW1 is located about 20 feet west of the pump island. MW2 is located north of the four on-site gasoline USTs. MW3 and MW4 are located south of the gasoline USTs, directly south of the retaining wall and east of the Mobil Station.

To better define the extent of subsurface petroleum contamination at the site, Griffin installed four additional monitoring wells and one additional soil boring on May 24, 1995. Well MW5 is located on the southern property boundary about 90 feet down gradient from the gasoline tank field. MW6 is located 65 feet south-southwest of the tank field and 80 feet south of the product dispensers, down gradient from both of these areas, to determine down-gradient groundwater conditions. MW7 was placed directly down-gradient from a used-oil UST which was discovered at the site. SB1 was installed between MW6 and MW7 to define the degree of contamination in this area. MW8 was installed on the southern property line about 55 feet down-gradient of MW6. The locations of the wells are indicated on the Site Map in Appendix A.

Depths to groundwater were measured in all on-site monitoring wells on June 1, 1995. Groundwater samples were collected from the monitoring wells for laboratory analysis. Soil samples collected from the boreholes were screened for volatile organic compounds (VOCs) with a photo ionization detector (PID).

#### **A. Monitoring Well Installation**

Monitoring wells (MW5, MW6, MW7, MW8, and SB1) were installed on May 24, 1995 by Tri State Drilling and Boring of West Burke, Vermont under the direct supervision of Griffin. The wells were installed using a truck mounted 4 1/4" hollow stem auger. The wells are constructed of two inch diameter, 0.010" slot, PVC well screen and attached solid PVC riser. The annulus between the borehole wall and the screened section of each well is filled with sand pack to filter fine sediments in groundwater from entering the well. Approximately one foot above the screened section of each well, the annulus between the borehole wall and the riser is filled with a bentonite clay seal to prevent surface water from entering the borehole. MW6 and MW8 are protected at the surface by locking stick-up well protectors. MW7 is protected by a flush mounted steel well head man-hole with a bolt down cover. Each well head protection stick-

up or man-hole is set in cement. Well construction details are listed on the well logs in Appendix B.

### B. Soil Boring and Screening

Undisturbed soil samples were collected at five foot intervals from the borings using a split spoon sampling device. Samples were screened for VOCs using an HNU Model PI-101 PID and were logged by the supervising Geologist. Prior to screening, the PID was calibrated with isobutylene with reference made to benzene. Detailed lithologic descriptions and VOC concentrations are listed on the well logs in Appendix B.

MW5 was drilled on the southern property boundary. The boring of MW5 intersected dry, light brown, well graded, fine sand from just below grade to 11.5 feet below grade. Wet, fine sand with some silt was intercepted at the bottom of the hole from 11.5 to 12.5 feet below grade. Auger refusal was encountered at 12.5 feet below grade. No significant VOC concentrations were detected by PID in soil samples collected from the boring of MW5. MW5 did not develop any water.

MW6 was drilled down-gradient from both the tank field and dispenser island. Petroleum staining of the surface was visible in the area of MW6. The boring of MW6 intersected dry, fine and medium grained sand with some silt and small gravel underlain by fine and very fine, well graded sand and subsequently by very fine sand with some silt. VOC concentrations recorded in samples collected from MW6 ranged from 2.5 ppm near the surface to 150 ppm from samples collected from just below the water table. A strong gasoline odor was observed in the sample collected from directly below the water table. VOC concentrations generally increased with depth. The water table was about 14 feet below grade at the time of the boring.

MW7 was drilled directly down gradient from a 500 gallon waste oil UST which was discovered at the site by magnetometer survey on June 1, 1995. The boring of MW6 intersected fine to coarse sand and gravel to a depth of about 6 feet, which are underlain by fine, well graded sand. PID screening of soil samples collected from the surface to 12 feet below grade indicated no significant petroleum contamination. Screening indicated VOC concentrations of 48 ppm in the sample collected from just below the water table, and a slight gasoline odor was observed in this sample. No waste oil contamination was evident by visual or olfactory observations in any of the soil samples collected from MW7. The water table was about 14 feet below grade at the time of the boring.

SB1 was drilled between MW6 and MW7, down-gradient of the product dispensers. The boring of SB1 intersected fine and medium grained sand near the surface, which are underlain by fine grained, well graded sand. No significant VOC concentrations were detected in soil samples collected from the surface to 12 feet below grade. Screening indicated VOC concentrations of 260 ppm in the soil sample collected from directly below the water table. Slight Petroleum staining and a strong gasoline odor were evident in this sample.

MW8 was drilled on the southern property boundary, down-gradient from MW6 and SB1. The boring of MW8 intersected fine and medium grained sand from directly below the surface to a depth of about seven feet below grade and subsequently fine grained, well sorted sand. No significant VOC concentrations were detected in soil samples collected from the surface to 12 feet below grade. Screening indicated VOC concentrations of 160 ppm in the soil sample collected from directly below the water table, and a gasoline odor was observed in this sample.

#### C. Water Table Measurements And Groundwater Flow

The water table elevations in all on-site monitoring wells were measured on June 1, 1995. Water table elevations are plotted on the Groundwater Contour Map in Appendix A. The map indicates that groundwater in the vicinity of the site flows south-southeast. The average hydraulic gradient at the site is calculated to be approximately 1/2 percent but is locally steeper at the northern portion of the site.

No free product was detected in any of the monitoring wells. All groundwater level data are recorded on the Liquid Level Table in Appendix C.

#### D. Groundwater Sampling and Analysis

On June 1, 1995, Griffin collected groundwater samples from all of the on-site monitoring wells except for MW5 which was dry. Laboratory results are summarized below in Table 1. BTEX and MTBE concentrations detected are plotted and contoured on the respective Contaminant Distribution Maps in Appendix A. Laboratory report forms are presented in Appendix D. All collected samples were analyzed according to EPA Method 602 which tests for the presence of VOCs including the petroleum compounds benzene, toluene, ethyl benzene, xylenes, and methyl tertiary butyl ether (MTBE) which is an octane boosting additive. All samples were collected according to Griffin's groundwater sampling protocol. Duplicate, trip blank, and equipment blank samples collected during the sampling indicate that adequate quality assurance/quality control was maintained during sample collection and analysis.

Analysis of the groundwater sample collected from MW1, located west of the dispenser island, indicates the presence of relatively low concentrations of BTEX (433 micrograms per liter (ug/l)). No petroleum compounds were detected in concentration above the Vermont Groundwater Enforcement Standard (VGES) or Health Advisory Levels (HALS) of the targeted petroleum compounds. Traces of free phase gasoline had previously been detected in MW1 in January, 1995.

Analysis of the groundwater sample collected from MW2, located up-gradient from the tank field, indicates the presence of benzene in concentration of 80.9 ug/l which is above the VGES for the compound of 5.0 ug/l. MTBE was detected in concentrations of 388 ug/l which is above the HAL for the compound of 40 ug/l. Ethyl benzene, toluene and xylenes were detected in the groundwater sample collected from MW2 in concentrations below VGES.

TABLE 1.

**Groundwater Quality Summary  
West Street Mobil  
Rutland, Vermont**

Monitoring Date: 6/1/95

All Values Reported in ug/L (ppb)

PARAMETER								VGES
	MW1	MW2	MW3	MW4	MW6	MW7	MW8	
Benzene	ND>20	80.9	6,640.	486.	3,700.	ND>20	862.	5.0*
Chlorobenzene	ND>20	ND>5	ND>1000	ND>10	ND>100	ND>20	ND>50	100**
1,2-DCB	ND>20	ND>5	ND>1000	ND>10	ND>100	ND>20	ND>50	600*
1,3-DCB	ND>20	ND>5	ND>1000	ND>10	ND>100	ND>20	ND>50	600**
1,4-DCB	ND>20	ND>5	ND>1000	ND>10	ND>100	ND>20	ND>50	75*
Ethylbenzene	60.0	20.2	TBQ<1000	39.9	1,710.	731.	1,420.	700**
Toluene	23.7	55.2	3,630.	48.0	13,900.	47.2	6,420.	1,000**
Xylenes	349.	84.6	5,090.	77.2	8,300.	4,150.	9,830.	10,000**
Total BTEX	433.	241.	15,360.	651.	27,610.	4,928.	18,532.	-
MTBE	ND>200	388.	168,000.	2,420.	10,700.	ND>200	ND>500	40**
BTEX+MTBE	433.	629.	183,360.	3,071.	38,310.	4,928.	18,532.	-

VGES - Vermont Groundwater Enforcement Standards

\* - EPA Maximum Contaminant Level ND> - None Detected Above Stated Limits

\*\* - VT Health Advisory Level TBQ - Trace, below quantitation limits

ANALYSIS BY EPA METHOD 602

Analysis of the groundwater sample collected from MW3, located directly down-gradient from the tank field, indicates the presence of benzene (6,640 ug/l), toluene (3,630 ug/l), and MTBE (168,000 ug/l) in concentrations exceeding VGES and/or HALs for the compounds. Ethyl benzene and xylenes were detected in concentrations below VGES for the compounds.

Analysis of the groundwater sample collected from MW4, located down-gradient from the UST field and east of MW3, indicates benzene (486 ug/l) and MTBE (2,420 ug/l) in concentrations exceeding VGES and/or HALs for the compounds. Ethyl benzene, toluene, and xylenes were detected in concentrations below VGES for the compounds.

Analysis of the groundwater sample collected from MW6, located down-gradient from MW3, indicates the presence of benzene (3,700 ug/l), ethyl benzene (1,710 ug/l), toluene (13,900 ug/l), and MTBE (10,700 ug/l) in concentrations exceeding VGES and/or HALs for the compounds. Xylenes were detected in concentration below VGES for the compound.

Analysis of the groundwater sample collected from MW7, located near the western edge of the site, indicates toluene in concentration of 731 ug/l, which exceeds the HAL for the compound. Ethyl benzene and xylenes were also detected in concentration below the VGES for the compounds.

Analysis of the groundwater sample collected from MW8, located down-gradient from MW6 on the southern property boundary, indicates the presence of benzene (862 ug/l), ethyl benzene (1,420 ug/l), and toluene (6,420 ug/l) in concentration exceeding VGES. Xylenes were detected in concentration of 9,830 ug/l which is slightly less than the HAL for the compound of 10,000 ug/l. MTBE is likely present but was not detected in concentration above the method detection limit of 500 ug/l for this sample.

#### **IV. RECEPTOR SURVEY AND RISK ASSESSMENT**

Griffin conducted a visual survey of the site to identify local potential receptors of subsurface petroleum contaminants.

The West Street Mobil building has not been reported to have been impacted by petroleum vapors. Residences and commercial buildings with basements, located north of the site across West Street, are not at risk of impact from petroleum vapors from West Street Mobil, since all of these buildings are up-gradient from the site.

All of the industrial buildings located down-gradient from the site are of slab-on-grade construction. Considering the buildings construction, the distance from the contaminant source, and the depth of the water table in the vicinity of the site, it is not likely that the buildings or occupants of the buildings will be effected by petroleum vapors originating from West Street Mobil or from groundwater contamination originating from the site.

Municipal water and sewer serves the area including the subject property. The water source is not at risk of impact from subsurface petroleum contamination at the subject property. No supply wells were identified in the vicinity of the site. Because the water and sewer lines are located above the water table near the site, it is not possible for the lines to be conduits for or receptors of contaminated groundwater.

The Otter Creek is located about 400 feet down-gradient from the site. Groundwater from the site may flow to the Otter Creek. However, it is likely that dilution and dispersion of dissolved petroleum compounds act to dissipate contaminants to levels significantly below VGES by the time groundwater from West Street Mobil reaches the creek.

## **V. CONCLUSIONS**

On the basis of this investigation, Griffin has concluded the following:

- 1) There has been a release or releases of petroleum (gasoline) at this site. The amounts and duration of the release(s) are unknown.
- 2) The release(s) have resulted in contamination of groundwater at the site. Groundwater in the vicinity of the tank field is impacted by petroleum compounds in concentration above VGES and/or HALs. The groundwater contaminant plume extends down-gradient from the tank field and dispenser island to the south-southeast.
- 3) The source of the release(s) may be from a weeping valve at the dispenser island. The leak has been repaired. Other possible sources may have been from UST overfills.
- 4) Soils at the site consist generally of fine and medium grained sand underlain by fine, well graded sand. The water table at the site ranges in depth from about 12 to 14 feet below grade. Groundwater apparently flows south-southeast at a average hydraulic gradient of about 1/2 percent.
- 5) A 500 gallon UST was discovered at the site. The UST is located west of the building. The tank was opened on June 1, 1995, and 6 1/2 inch of used oil was measured in the tank. No water was observed to be present in the tank.
- 6) No signs of used oil contamination was evident in soil samples collected from MW7 which is located about 8 feet south of the used oil UST.
- 7) No sensitive receptors other than groundwater were found to have been impacted from subsurface contamination at the West Street Mobil.
- 8) If no additional releases occur, dissolved petroleum compounds in groundwater and adsorbed petroleum compounds in soil will be gradually reduced by the natural processes of dilution, dispersion, and biodegradation.

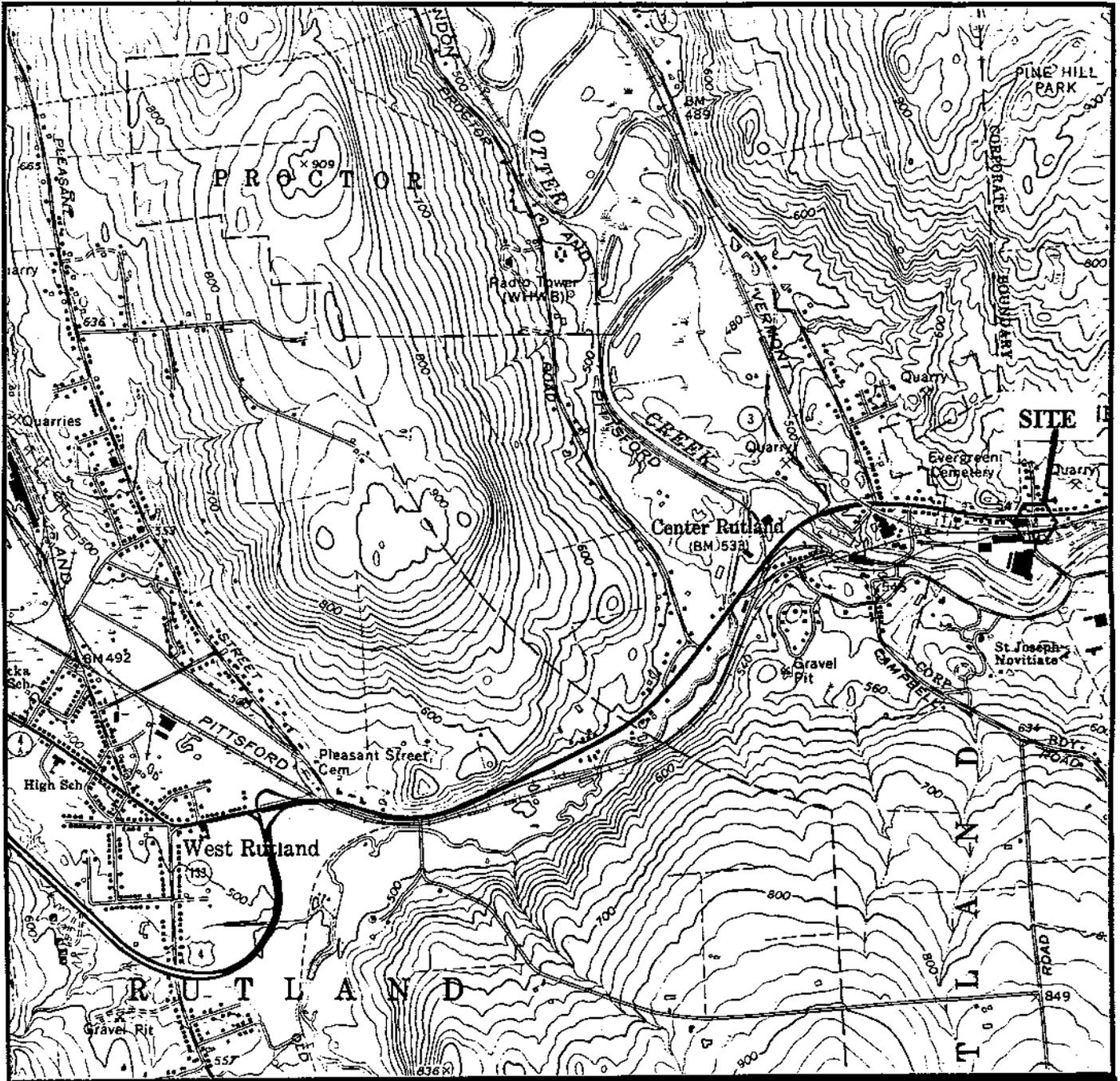
## **VI RECOMMENDATIONS**

On the basis of the above conclusions, Griffin recommends the following:

- 1) Since no sensitive receptors (except groundwater) appear to be impacted, and since there does not appear to be any significant risk to human health or the environment from the subsurface petroleum contamination at West Street Mobil, active remediation is not recommended at the site.
  
- 2) Because of the presence of petroleum compounds which exceed VGES in monitoring wells at the site, the monitoring wells should be sampled bi-annual basis to establish a trend of groundwater quality improvement at West Street Mobil.

**APPENDIX A**

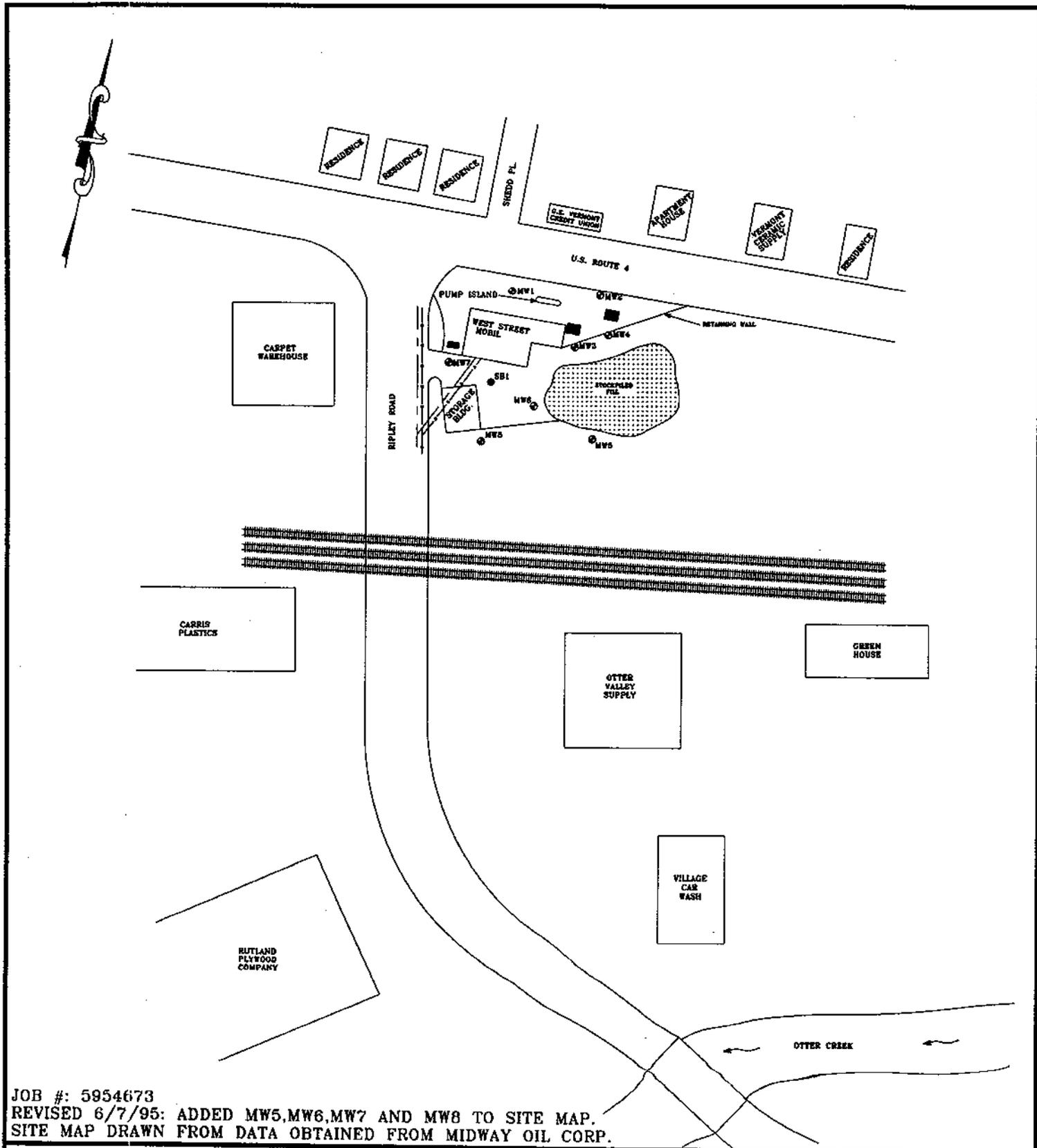
SITE LOCATION MAP  
AREA MAP  
SITE MAP  
GROUNDWATER CONTOUR MAP  
BTEX DISTRIBUTION MAP  
MTBE DISTRIBUTION MAP



Site Location Map  
**WEST STREET MOBIL**  
 West Street - Route 4 Buisness  
 Rutland, Vermont



Source: USGS West Rutland, Vermont Quadrangle  
 1:24,000 Dated 1964, Photo Revised 1972



JOB #: 5954673  
 REVISED 6/7/95: ADDED MW5, MW6, MW7 AND MW8 TO SITE MAP.  
 SITE MAP DRAWN FROM DATA OBTAINED FROM MIDWAY OIL CORP.



**MIDWAY OIL CORP.**

WEST STREET RUTLAND, VERMONT

**AREA MAP**

DATE: 6/14/95	DWG.#: 2	SCALE: NONE	DRN.:SB	APP.:LR
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RIPLY ROAD



U.S. ROUTE 4

PUMP ISLAND

WEST STREET MOBIL

STORAGE BLDG.

STOCKPILED FILL

RETAINING WALL

MW1

MW2

MW4

MW3

MW7

SB1

MW6

MW8

MW5

**LEGEND**

MW2

MONITORING WELL

SB1

SOIL BORING



EXISTING UST LOCATIONS

--- EXISTING WATER LINE

-s- EXISTING SEWER LINE

JOB #: 5954673  
REVISED 6/7/95: ADDED MW5, MW6, MW7 AND MW8 TO SITE MAP.  
SITE MAP DRAWN FROM DATA OBTAINED FROM MIDWAY OIL CORP.



**MIDWAY OIL CORP.**

WEST STREET RUTLAND, VERMONT

SITE MAP

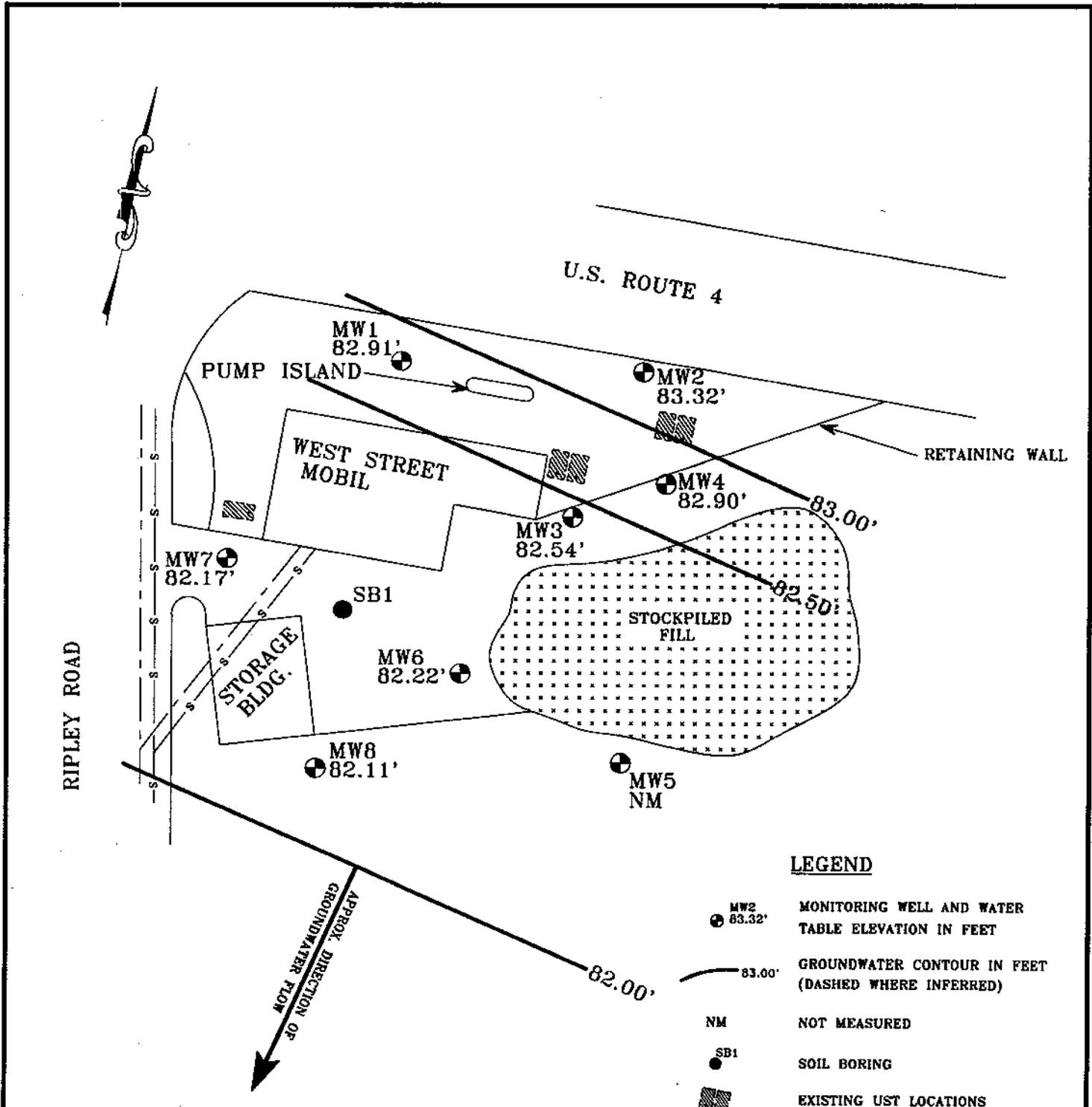
DATE: 6/7/95

DWG.#: 3

SCALE: 1"=40'

DRN.:SB

APP.:LR



**LEGEND**

- MONITORING WELL AND WATER TABLE ELEVATION IN FEET
- GROUNDWATER CONTOUR IN FEET (DASHED WHERE INFERRED)
- NOT MEASURED
- SOIL BORING
- EXISTING UST LOCATIONS
- EXISTING WATER LINE
- EXISTING SEWER LINE

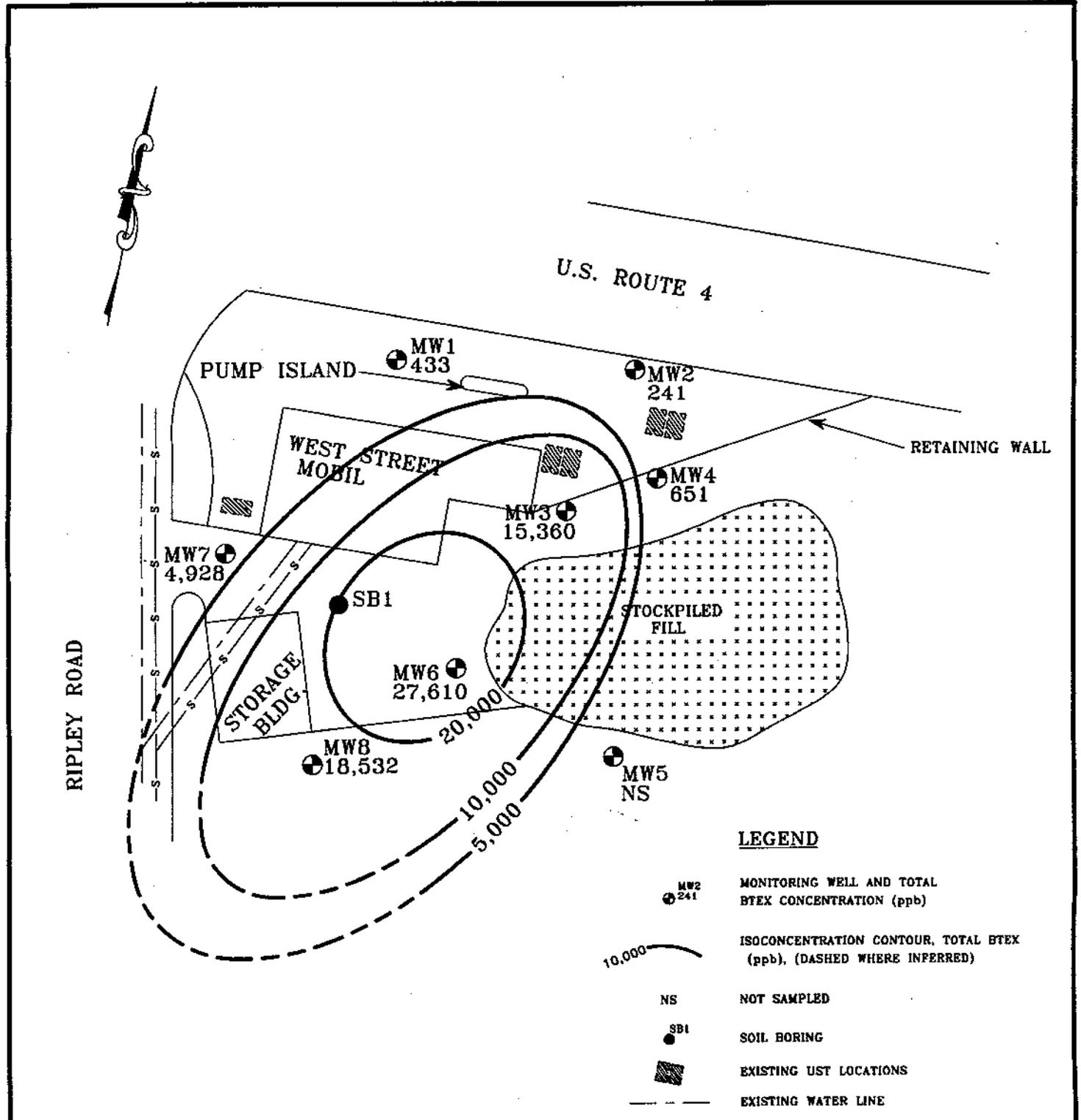
JOB #: 5954673  
 DATE MEASURED: 6/1/95  
 REVISED 6/7/95: ADDED MW5, MW6, MW7 AND MW8 TO SITE MAP.  
 SITE MAP DRAWN FROM DATA OBTAINED FROM MIDWAY OIL CORP.



**MIDWAY OIL CORP.**

WEST STREET RUTLAND, VERMONT  
 GROUNDWATER CONTOUR MAP

DATE: 6/27/95	DWG.#: 4	SCALE: 1"=40'	DRN.:SB	APP.:LR
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**LEGEND**

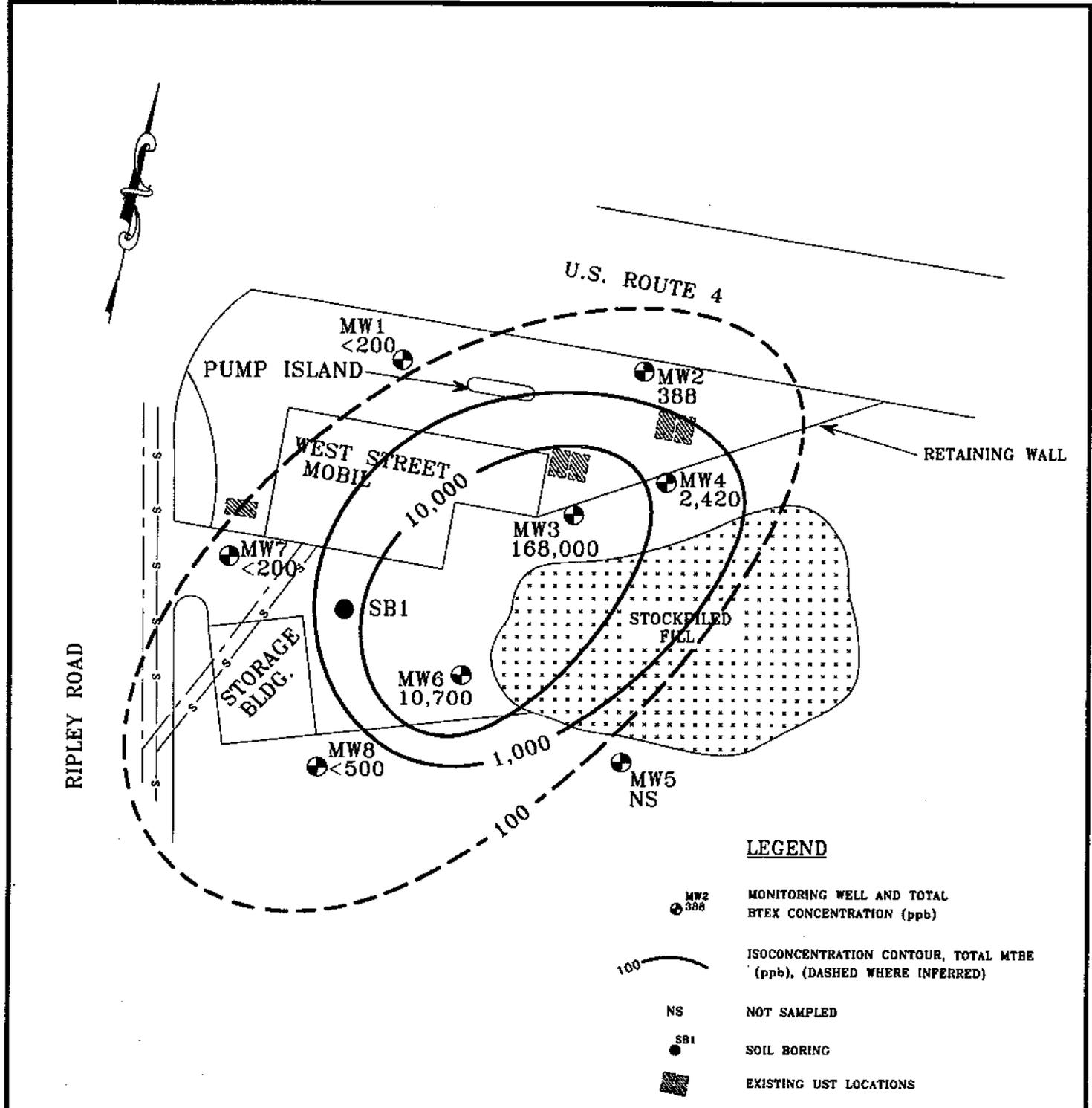
- MW2 241 MONITORING WELL AND TOTAL BTEX CONCENTRATION (ppb)
- 10,000 ISOCONCENTRATION CONTOUR, TOTAL BTEX (ppb), (DASHED WHERE INFERRED)
- NS NOT SAMPLED
- SB1 SOIL BORING
- EXISTING UST LOCATIONS
- EXISTING WATER LINE
- EXISTING SEWER LINE

JOB #: 5954673  
 DATE SAMPLED: 6/1/95  
 REVISED 6/7/95: ADDED MW5, MW6, MW7 AND MW8 TO SITE MAP.  
 SITE MAP DRAWN FROM DATA OBTAINED FROM MIDWAY OIL CORP.



**MIDWAY OIL CORP.**  
 WEST STREET RUTLAND, VERMONT  
**BTEX DISTRIBUTION MAP**

DATE: 6/27/95	DWG.#: 5	SCALE: 1"=40'	DRN.:SB	APP.:LR
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**LEGEND**

-  MONITORING WELL AND TOTAL BTEX CONCENTRATION (ppb)
-  ISOCONCENTRATION CONTOUR, TOTAL MTBE (ppb), (DASHED WHERE INFERRED)
-  NOT SAMPLED
-  SOIL BORING
-  EXISTING UST LOCATIONS
-  EXISTING WATER LINE
-  EXISTING SEWER LINE

JOB #: 5954673  
 DATE SAMPLED: 6/1/95  
 REVISED 6/7/95: ADDED MW5, MW6, MW7 AND MW8 TO SITE MAP.  
 SITE MAP DRAWN FROM DATA OBTAINED FROM MIDWAY OIL CORP.



<b>MIDWAY OIL CORP.</b>			
WEST STREET RUTLAND, VERMONT			
<b>MTBE DISTRIBUTION MAP</b>			
DATE: 6/27/95	DWG.#: 6	SCALE: 1"=40'	DRN.:SB APP.:LR

**APPENDIX B**

**DRILLING LOGS**

PROJECT WEST STREET MOBIL  
 LOCATION WEST STREET RUTLAND, VERMONT

WELL NUMBER MW5

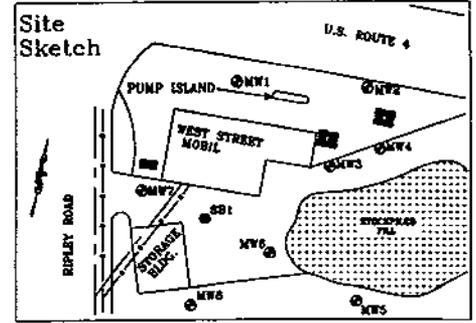
DATE DRILLED 5/24/95 TOTAL DEPTH OF HOLE 12.5'  
 DIAMETER 4.5"

SCREEN DIA. 2" LENGTH 5' SLOT SIZE 0.010"

CASING DIA. 2" LENGTH 10' TYPE sch 40 pvc

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB MANN LOG BY L. REED

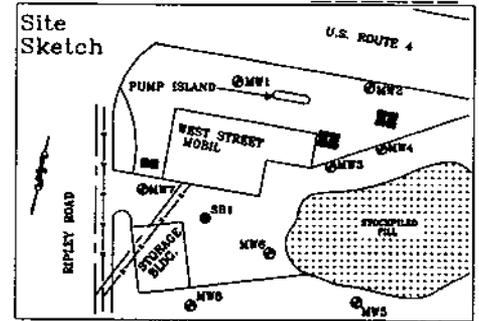


GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
3		LOCKING WELL CAP			3
2					2
1					1
0					0
1		NATIVE BACKFILL		Topsoil	1
2		BENTONITE		Dry, brown fine SAND.	2
3					3
4		WELL RISER			4
5					5
6		SAND PACK	5'-7'- 3/4/4/3 1.7 ppm	Light brown dry, well sorted, fine SAND, no odor.	6
7					7
8					8
9		WELL SCREEN			9
10					10
11		BOTTOM CAP	10'-12'- 4/4/8/12 1.2 ppm	Light brown dry, well sorted, fine SAND to 11.5'. Wet silty fine SAND to 12'.	11
12					12
13		BEDROCK REFUSAL		BASE OF WELL AT 12' BEDROCK REFUSAL AT 12.5'	13
14					14
15					15
16					16
17					17
18					18
19					19
20					20

PROJECT WEST STREET MOBIL  
 LOCATION WEST STREET RUTLAND, VERMONT  
 DATE DRILLED 5/24/95 TOTAL DEPTH OF HOLE 18.0'  
 DIAMETER 4.5"  
 SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.010"  
 CASING DIA. 2" LENGTH 21' TYPE sch 40 pvc  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB MANN LOG BY L. REED

WELL NUMBER MW6



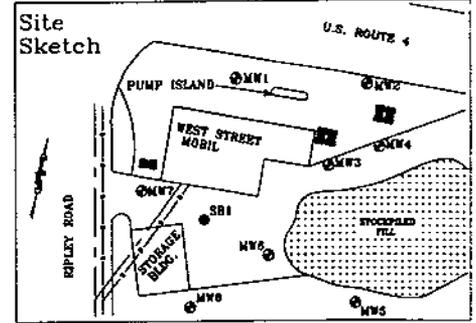
GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
3		LOCKING WELL CAP			3
2		STICK UP PROTECTOR			2
1					1
0					0
1		CONCRETE			1
2		NATIVE BACKFILL	0'-5' 2.5 ppm	Dark brown, dry, fine and medium SAND with some silt and small gravel.	2
3		WELL RISER			3
4		BENTONITE			4
5					5
6		SAND PACK	5'-7'- 3/4/5/6 7.0 ppm	Light brown fine under coarse SAND BED very slight odor.	6
7					7
8					8
9					9
10					10
11			10'-12'- 1/2/2/1 9.8 ppm	Light brown damp, very fine SAND, well graded, very faint odor.	11
12					12
13		WELL SCREEN			13
14				14.0' WATER TABLE	14
15					15
16			15'-17'- 1/2/2/2 150 ppm	Wet, gray, very fine SAND with some silt, strong petroleum odor.	16
17		BOTTOM CAP			17
18		UNDISTURBED NATIVE SOIL		BASE OF WELL AT 18' END OF EXPLORATION AT 18'	18
19					19
20					20

PROJECT WEST STREET MOBIL  
 LOCATION WEST STREET RUTLAND, VERMONT

WELL NUMBER MW7

DATE DRILLED 5/24/95 TOTAL DEPTH OF HOLE 19.0'  
 DIAMETER 4.5"



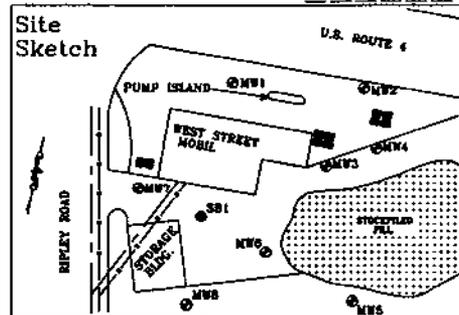
SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.010"  
 CASING DIA. 2" LENGTH 8.75' TYPE sch 40 pvc  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB MANN LOG BY L. REED

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 LOCKING WELL CAP			0
1		CONCRETE	0'-5' 0.8 ppm	Dark brown, dry, fine to medium SAND with some gravel, no odor.	1
2		NATIVE BACKFILL			2
3					3
4		WELL RISER			4
5					5
6		BENTONITE	5'-7'- 6/3/3/3 0.5 ppm	Brown, dry, medium to coarse SAND with gravel over brown fine sand, dry, no odor.	6
7					7
8					8
9		SAND PACK			9
10					10
11			10'-12'- 3/3/3/3 0.4 ppm	Dry, light brown, fine SAND, no odor.	11
12					12
13					13
14				14.0' WATER TABLE	14
15		WELL SCREEN			15
16			15'-17'- 5/6/9/10 48 ppm	Wet, light grayish brown fine SAND, mild gas odor.	16
17					17
18		BOTTOM CAP			18
19		UNDISTURBED NATIVE SOIL		BASE OF WELL AT 19' END OF EXPLORATION AT 19'	19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT WEST STREET MOBIL  
 LOCATION WEST STREET RUTLAND, VERMONT  
 DATE DRILLED 5/24/95 TOTAL DEPTH OF HOLE 17.0'  
 DIAMETER 4.5"  
 SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.010"  
 CASING DIA. 2" LENGTH 8.5' TYPE sch 40 pvc  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB MANN LOG BY L. REED

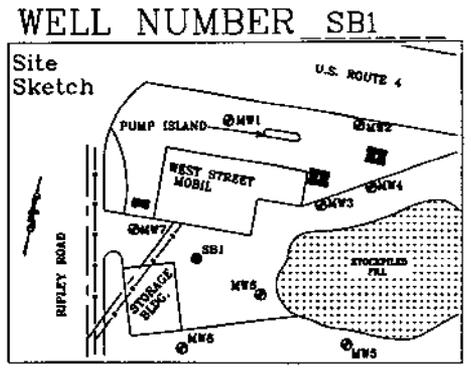
WELL NUMBER MW8



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
3		LOCKING WELL CAP			3
2		STICK UP PROTECTOR			2
1					1
0					0
1		CONCRETE		Topsoil	1
2		NATIVE BACKFILL			2
3		WELL RISER			3
4		BENTONITE	2'-5' 0.8 ppm	Brown medium and fine SAND, dry, no odor.	4
5					5
6			5'-7'- 5/8/9/5 0.4 ppm	Damp, light brown fine SAND, with some medium SAND, no odor.	6
7		SAND PACK			7
8					8
9					9
10					10
11			10'-12'- 5/4/3/1 0.3 ppm	Light brown, fine SAND, damp at 10' moist at 11', wet at 12', slight odor.	11
12				12.0' WATER TABLE	12
13		WELL SCREEN			13
14					14
15		BOTTOM CAP			15
16			15'-17'- 5/6/9/6 160 ppm	Wet, gray fine SAND, petroleum odor.	16
17		UNDISTURBED NATIVE SOIL		BASE OF WELL AT 16' END OF EXPLORATION AT 17'	17
18					18
19					19
20					20

PROJECT WEST STREET MOBIL  
 LOCATION WEST STREET RUTLAND, VERMONT  
 DATE DRILLED 5/24/95 TOTAL DEPTH OF HOLE 16.0'  
 DIAMETER 4.5"  
 SCREEN DIA. NA LENGTH NA SLOT SIZE 0.010"  
 CASING DIA. NA LENGTH NA TYPE NA  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB MANN LOG BY L REED



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				Asphalt	0
1					1
2			0.3'-5'	3' dark brown, dry fine and medium SAND with some silt and gravel.	2
3			1.0 ppm		3
4					4
5					5
6			5'-7'-	Light brown and tan, well graded, fine SAND, dry, dry no odor.	6
7		NATIVE BACKFILL	4/5/8/9		7
8			0.5 ppm		8
9					9
10					10
11			10'-12'-	Light to medium brown, dry, fine SAND iron oxide stained bands, no odor.	11
12			5/6/6/5		12
13			0.4 ppm		13
14				14.0' WATER TABLE	14
15		BENTONITE	14'-17'-	Wet, brown, very fine SAND, some petroleum staining, strong odor.	15
16			5/5/5/4		16
17		UNDISTURBED NATIVE SOIL	260 ppm		17
18				END OF EXPLORATION AT 17'	18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

**APPENDIX C**

WATER LEVEL DATA

**Liquid Level Monitoring Data  
West Street Mobil  
Rutland, Vermont**

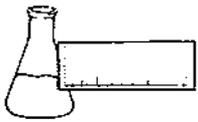
**Monitoring Date: 6/1/95**

Well I.D.	Well Depth	Top of Casing Elevation	Depth To Product	Depth To Water	Corrected Water Table Elevation
MW1		99.30	-	16.39	82.91
MW2		100.00	-	16.68	83.32
MW3		95.71	-	13.17	82.54
MW4		95.69	-	12.79	82.90
MW5	12.00	97.73	-	DRY	
MW6	18.00	97.52	-	15.30	82.22
MW7	19.00	95.45	-	13.28	82.17
MW8	16.00	96.20	-	14.09	82.11

Elevations are based on Arbitrary Datum - MW2 top of casing at 100.00'

**APPENDIX D**

LABORATORY RESULTS



**ENDYNE, INC.**

Laboratory Services

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Williston, Vermont 05495  
(802) 879-4333  
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,277 - 75,286

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated samples were preserved 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.

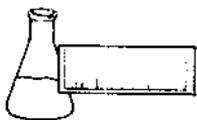
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

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



**ENDYNE, INC.**

**Laboratory Services**

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FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 12, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,283  
STATION: MW #1  
TIME SAMPLED: 12:06  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	20	ND <sup>2</sup>
Chlorobenzene	20	ND
1,2-Dichlorobenzene	20	ND
1,3-Dichlorobenzene	20	ND
1,4-Dichlorobenzene	20	ND
Ethylbenzene	20	60.0
Toluene	20	23.7
Xylenes	20	349.
MTBE	200	ND

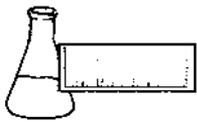
Bromobenzene Surrogate Recovery: 95%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 5% dilution.

2 None detected



**ENDYNE, INC.**

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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 8, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,282  
STATION: MW #2  
TIME SAMPLED: 11:49  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	5	80.9
Chlorobenzene	5	ND <sup>2</sup>
1,2-Dichlorobenzene	5	ND
1,3-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND
Ethylbenzene	5	20.2
Toluene	5	55.2
Xylenes	5	84.6
MTBE	50	388.

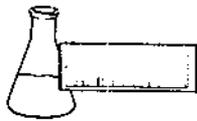
Bromobenzene Surrogate Recovery: 118%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 5

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 20% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 12, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,284  
STATION: MW #3  
TIME SAMPLED: 12:19  
SAMPLER: Don Tourangeau

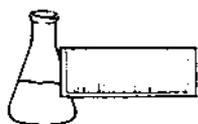
<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	1,000	6,640.
Chlorobenzene	1,000	ND <sup>2</sup>
1,2-Dichlorobenzene	1,000	ND
1,3-Dichlorobenzene	1,000	ND
1,4-Dichlorobenzene	1,000	ND
Ethylbenzene	1,000	TBQ <sup>3</sup>
Toluene	1,000	3,630.
Xylenes	1,000	5,090.
MTBE	10,000	168,000.

Bromobenzene Surrogate Recovery: 98%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 5

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 0.1% dilution.
- 2 None detected
- 3 Trace below quantitation limit



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 8, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,281  
STATION: MW #4  
TIME SAMPLED: 11:36  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	10	486.
Chlorobenzene	10	ND <sup>2</sup>
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
Ethylbenzene	10	39.9
Toluene	10	48.0
Xylenes	10	77.2
MTBE	100	2,420.

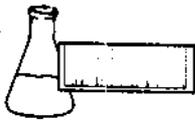
Bromobenzene Surrogate Recovery: 103%

NUMBER OF UNIDENTIFIED PEAKS FOUND: > 10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 10% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 9, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,279  
STATION: MW# 6  
TIME SAMPLED: 11:08  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	100	3,700.
Chlorobenzene	100	ND <sup>2</sup>
1,2-Dichlorobenzene	100	ND
1,3-Dichlorobenzene	100	ND
1,4-Dichlorobenzene	100	ND
Ethylbenzene	100	1,710.
Toluene	100	13,900.
Xylenes	100	8,300.
MTBE	1,000	10,700.

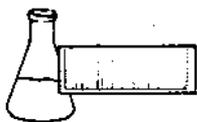
Bromobenzene Surrogate Recovery: 98%

NUMBER OF UNIDENTIFIED PEAKS FOUND: > 10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 1% dilution.

2 None detected



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**Laboratory Services**

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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 12, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,280  
STATION: MW #7  
TIME SAMPLED: 11:19  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	20	ND <sup>2</sup>
Chlorobenzene	20	ND
1,2-Dichlorobenzene	20	ND
1,3-Dichlorobenzene	20	ND
1,4-Dichlorobenzene	20	ND
Ethylbenzene	20	731.
Toluene	20	47.2
Xylenes	20	4,150.
MTBE	200	ND

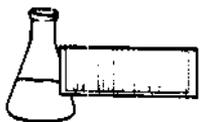
Bromobenzene Surrogate Recovery: 100%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 5% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 9, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,278  
STATION: MW #8  
TIME SAMPLED: 10:54  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	50	862.
Chlorobenzene	50	ND <sup>2</sup>
1,2-Dichlorobenzene	50	ND
1,3-Dichlorobenzene	50	ND
1,4-Dichlorobenzene	50	ND
Ethylbenzene	50	1,420.
Toluene	50	6,420.
Xylenes	50	9,830.
MTBE	500	ND

Bromobenzene Surrogate Recovery: 96%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 2% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 8, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,285  
STATION: Duplicate / mwy  
TIME SAMPLED: 11:36  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	10	499.
Chlorobenzene	10	ND <sup>2</sup>
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
Ethylbenzene	10	41.2
Toluene	10	50.6
Xylenes	10	79.4
MTBE	100	2,420.

Bromobenzene Surrogate Recovery: 101%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 10% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 8, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,277  
STATION: Trip Blank  
TIME SAMPLED: 7:40  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND <sup>1</sup>
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 102%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



**ENDYNE, INC.**

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FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: West Street Mobil  
REPORT DATE: June 13, 1995  
DATE SAMPLED: June 1, 1995  
DATE RECEIVED: June 1, 1995  
DATE ANALYZED: June 8, 1995

PROJECT CODE: GIWS1287  
REF.#: 75,286  
STATION: Equipment Blank  
TIME SAMPLED: 12:21  
SAMPLER: Don Tourangeau

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND <sup>1</sup>
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 103%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

**CHAIN-OF-CUSTODY RECORD**

14563

Project Name: <u>WEST STREET MOBILE</u>	Reporting Address: <u>Griffin</u>	Billing Address: <u>Griffin</u>
Site Location: <u>ROULMUND</u>		
Endyne Project Number: <u>GIWS1287</u>	Company: <u>LAURIE ROY</u>	Sampler Name: <u>Don Tompkins</u>
	Contact Name/Phone #: <u>LAURIE ROY</u>	Phone #:

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				
75277	TRIP BLANK	1420	✓		6-1-95 07:40	2	40ml		20	HCL	
75278	MW#8	↓	↓		10:54	↓	↓		↓	↓	
75279	MW#6	↓	↓		11:08	↓	↓		↓	↓	
75280	MW#7	↓	↓		11:19	↓	↓		↓	↓	
75281	MW#4	↓	↓		11:36	↓	↓		↓	↓	
75282	MW#2	↓	↓		11:49	↓	↓		↓	↓	
75283	MW#1	↓	↓		12:06	↓	↓		↓	↓	
75284	MW#3	↓	↓		12:19	↓	↓		↓	↓	
75285	DUPLICATE	↓	↓		11:36	↓	↓		↓	↓	
75286	EQUIPMENT BLANK	↓	↓		12:21	↓	↓		↓	↓	

Relinquished by: Signature <u>[Signature]</u>	Received by: Signature <u>[Signature]</u>	Date/Time <u>6/1/95 3:55 PM</u>
Relinquished by: Signature	Received by: Signature	Date/Time

 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 698 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCPLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										