

JAN 17 1994



January 13, 1994

Mr. Chuck Schwer
VT Department of Environmental Conservation
Hazardous Materials Management Division
103 South Main St.
Waterbury, VT 05676

RE: Site Assessment at the Kingsbury Service Station, Warren, VT (VTDEC Site #93-1447)

Dear Mr. Schwer:

Enclosed please find for your review a copy of the *Report on the Investigation of Suspected Subsurface Petroleum Contamination* at the Kingsbury Service Station in Warren, Vermont. Mr. Bryan Kingsbury has reviewed the report and requested that Griffin forward a copy to you.

If you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in cursive script that reads "Kristen Underwood".

Kristen Underwood
Hydrogeologist

Enc.

cc: Mr. Bryan Kingsbury w/o report
GI 9934438

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

AT

**KINGSBURY SERVICE STATION
WARREN, VERMONT**

**VTDEC SITE #93-1447
GRIFFIN PROJECT #9934438**

JANUARY 1994

Prepared For:

**Kingsbury Service Station
Route 100
Warren, VT 05674**

Prepared By:

GRIFFIN INTERNATIONAL, INC.
2B Dorset Lane
Williston, Vermont 05495
(802) 879-7708

TABLE OF CONTENTS

I. INTRODUCTION	1
II. SITE BACKGROUND	1
A. Site Description	1
B. Site History	1
III. INVESTIGATIVE PROCEDURES	2
A. Free Product Recovery	2
B. Determination of Groundwater Flow Direction	2
C. Groundwater Sampling and Analysis	2
D. Soil Vapor Survey	3
E. Tank Tightness Test	4
III. RISK ASSESSMENT	4
IV. CONCLUSIONS	5
V. RECOMMENDATIONS	5
APPENDIX A - Site Maps	
APPENDIX B - Liquid Level Data	
APPENDIX C - Groundwater Quality Data	

I. INTRODUCTION

This report provides a summary of the tasks completed for the preliminary investigation of suspected subsurface petroleum contamination at the Kingsbury Country Store in Warren, Vermont (see Site Location Map in Appendix A). Results of the following investigative tasks performed by Griffin International, Inc., (Griffin) are presented: free product recovery in onsite leak detection monitoring wells; October 29, 1993 groundwater sampling and analyses; determination of groundwater flow direction. In addition, an assessment of sensitive receptors in the vicinity of the Kingsbury site is provided along with recommendations for further investigation. This work is being performed based on requests from the Vermont Department of Environmental Conservation (VTDEC) in a letter to Mr. Bryan Kingsbury dated October 1, 1993.

II. SITE BACKGROUND

The Kingsbury Country Store is located approximately 2.5 miles north of Warren on the west side of Route 100. A description of the site and a history of petroleum product storage are presented in the sections below.

A. Site Description

The Kingsbury Country Store is located in a narrow alluvial valley on the edge of the flood plain of the Mad River. Ground surface in the vicinity of the site slopes gently westward toward the river (see Site Location Map in Appendix A). Four underground storage tanks are currently in place at the site on the south side of the Country Store building (see Site Map in Appendix A). Specifically, these tanks include:

- 1) 4,000-gallon gas tank (unleaded Plus) - age: 12 years
- 2) 10,000-gallon gas tank (unleaded regular) - age: 8 years
- 3) 10,000-gallon gas tank (unleaded super) - age: 8 years
- 4) 10,000-gallon diesel tank - age: 8 years

Underground pipelines connect these tanks to a single pump island located off the east side of the building.

B. Site History

Tank No.'s 2, 3, and 4 were installed in 1985 and replaced tanks which were approximately 20 years old. No leakage from these previous tanks or odor in excavated soils was observed at the time of tank removal according to Mr. Bryan Kingsbury, owner of Kingsbury Country Store.

Monitoring wells, MW-1, MW-2, MW-3, and MW-4, were installed circa 1991 for leak detection purposes. These wells have been monitored weekly since their installation. Free product was first

detected during a weekly monitoring event in the Summer of 1993. At about the same time, a leak was detected in the pipeline leading from Tank No. 2 to the pump island; the leakage rate was estimated at approximately 2 gallons per day. The leaking pipeline was repaired in late September 1993. An excavation down to this pipe was open at the time of the Griffin site visit on October 29, 1993. Total organic vapor concentrations were at background levels as measured with a portable photoionization detector directly above the soils in the excavated hole on this date.

Daily monitoring of MW-1 through MW-4 has been conducted since the second week of October, 1993. Free product, if present, is bailed from the monitoring well. Free product has been detected in each of the four wells at least once.

III. INVESTIGATIVE PROCEDURES

A. Free Product Recovery

Upon initial detection of free product in onsite monitoring wells in the late Summer of 1993, weekly bailing was initiated by representatives of Kingsbury General Store under the direction of Griffin and at the request of VTDEC. On October 29, 1993, the date of the site visit by Griffin, free product was present in and had been bailed from monitoring wells, MW-1, MW-2, and MW-3 by representatives of Kingsbury General Store. These wells contained 1/16 inch, 1/32 inch, and 1/32 inch free product, respectively.

B. Determination of Groundwater Flow Direction

Depth to free phase product, where present, and depth to water were measured in each of the four onsite monitoring wells on October 29, 1993. Results are tabulated as Liquid Level Monitoring Data in Appendix B. Monitoring wells, MW-1, MW-2, and MW-3 contained 1/16 inch, 1/32 inch, and 1/32 inch free product, respectively. Presence of a free product lens can depress the water table slightly. By taking into account the specific gravity of the free product substance, a corrected depth to water can be calculated which would theoretically be true if the pure product lens was absent. Corrected values for depth to water in MW-1, MW-2, and MW-3, and the measured depth to water for MW-4 were each subtracted from the surveyed elevations of their respective well, to determine the water table elevation in each well. Water table elevations were plotted on the site map to generate the Groundwater Contour Map presented in Appendix A. From this figure it can be seen that the water table is virtually level in the vicinity of the Kingsbury site. A very slight gradient is evident directed to the north.

C. Groundwater Sampling and Analysis

A groundwater sample was collected from one of the four monitoring wells (MW-4) on October 29, 1993. Presence of free product precluded groundwater sample collection in MW-1,

MW-2, and MW-3. The groundwater sample from MW-4 was analyzed by EPA Method 602. Quality control (QC) samples (trip blank, equipment blank, and duplicate sample) were also collected. Results are summarized in tabular form in Appendix C. Original laboratory data sheets are also provided. Analyses of the trip blank, equipment blank, and duplicate samples indicate that adequate Quality Assurance/ Quality Control was maintained throughout sample collection and analyses.

Relatively low concentrations of ethylbenzene (41.6 ppb) and total xylenes (62.9 ppb) were detected in MW-4; detected concentrations were well below the respective EPA Maximum Contaminant Levels for these constituents.

D. Soil Vapor Survey

The intent of the reconnaissance survey of vapor concentrations in the four onsite monitoring wells, as originally proposed in the September 17, 1993 *Preliminary Work Plan and Cost Estimate for Subsurface Investigation of Suspected Petroleum Contamination*, was to identify potential areas of elevated petroleum contamination in the unsaturated zone. Since the monitoring wells were partially screened in the overburden materials at the site, they were proposed for use as soil vapor extraction points. In addition, two temporary vapor extraction points were installed on October 12, 1993, to a depth of approximately five feet below grade off the southwest corner of the Kingsbury Country Store (see Site Map in Appendix A).

A soil vapor survey was conducted using an HnuTM Model HW-101 Photoionization Detector (PID) connected to a positive displacement air pump. After allowing the pump to operate for approximately five minutes, the following measurements of total organic vapors were noted at each of the monitoring points:

MW-1	240	ppm
MW-2	270	ppm
MW-3	220	ppm
MW-4	11.5	ppm
SV1	0	ppm
SV2	0	ppm

Total volatile organic concentrations (TVOCs) detected in MW-1, MW-2, and MW-3 were one order of magnitude higher than TVOCs detected in MW-4. This finding is consistent with the fact that pure product was encountered in these three wells. No organic vapors above background concentrations were detected in either soil vapor point. This indicates that contaminants have not migrated a significant distance from the USTs toward the river.

E. Tank Tightness Test

A tank tightness test using the Tracer Tight™ leak detection method was performed in November 1993. This test involves inoculation of the subject tank with a tracer constituent (a highly volatile liquid chemical). If the subject tank or associated pipelines are leaking, the tracer compound will volatilize through the breached tank or pipe and disperse into the surrounding soil, or into the interstitial space of a double-walled tank, by molecular diffusion. The area surrounding the tank is tested for the presence of the tracer compound by extracting a sample of soil vapor from temporary probes installed in the vicinity of the tanks and pipelines. Soil vapor extraction points are installed in the ground around the tanks and pipelines within two to four weeks of tank inoculation. A sample of soil vapor is extracted from each point and sent to a laboratory for analysis. Presence of tracer constituent(s) in one or more of the soil vapor samples indicates that the integrity of a tank(s) or pipeline has been compromised, and a leak has occurred. If multiple tanks are to be tested, multiple tracer compounds are utilized, each able to be individually identified.

Each of the four tanks at Kingsbury General Store was inoculated with an individual tracer compound on November 3, 1993, by C/P Utility Services Company of Hamden, Connecticut. On November 12, 1993, temporary vapor extraction points were installed around the tanks and pipelines and soil vapor samples were extracted and containerized for submission to the analytical laboratory. None of the tracer constituents were detected in the soil vapor samples, indicating that the current tanks and lines are structurally intact. This finding suggests that the repairs to the leaking pipeline discovered in September 1993 were effective.

III. RISK ASSESSMENT

The area surrounding the Kingsbury Country Store was evaluated during the site visit conducted on October 29, 1993, to identify potentially sensitive receptors in the vicinity of the site. There are no groundwater supply wells or springs in the immediate vicinity of the Kingsbury General Store. According to Mr. Bryan Kingsbury, the nearest well is located approximately 0.25 mile from the store. This well, which supplies water for household use, is approximately 50 feet deep and is located approximately 100 feet in elevation above the Kingsbury site. As this well is likely upgradient from the site, the potential for impact of site-related contamination problems on this well is likely to be minimal.

The water source for Kingsbury General Store is located approximately 1.5 to 2 miles southeast of the store on the eastern river valley hill slope. Given the distance to this spring and its higher elevation with respect to the site, potential risk to this drinking water source is likely to be minimal.

Mad River flows in a northeasterly direction past the site approximately 400 feet northwest of the Kingsbury General Store. The river sits approximately 20 feet lower than the Kingsbury site. The

river was visually inspected on October 29, 1993 for signs of petroleum contamination such as iridescent sheens, stained soils, or petroleum odors. Also, the soils along the river bank were assessed for presence of organic vapors using the PID. No elevated levels of volatile organic constituents or other signs of petroleum contamination were detected. While petroleum constituents have apparently not reached the river, there is a potentially significant risk posed to the river by petroleum releases at the Kingsbury site, given the relatively minimal distance of the river to the site, and given that the river exists down topographic gradient from the site. Continued visual and PID monitoring of the river for presence of petroleum constituents would be prudent.

Buildings present on the site consist of the Kingsbury General Store. This building is constructed on a concrete slab; no floor drains are present. No organic vapors were detected with the PID inside the building on October 29, 1993. Due to the absence of petroleum vapors inside the building and the absence of a basement, there appears to be negligible risk to the Kingsbury General Store building posed by petroleum releases from the adjacent tank pipelines.

A farm house with barns exists approximately 700 feet southwest of the site. There is a residential building located approximately 500 feet to the northeast of the site. These structures are a sufficient distance from the site that risk posed by soil or groundwater contamination at the Kingsbury site is likely to be minimal.

IV. CONCLUSIONS

Based upon the results of the above investigative tasks, Griffin presents the following conclusions:

- 1) Free phase product is present in three of the four onsite monitoring wells in close vicinity to the current UST locations.
- 2) Dissolved petroleum contamination was evident in the remaining onsite well; concentrations were relatively low and below applicable EPA Maximum Contaminant Levels.
- 3) Petroleum contamination at the Kingsbury site poses a potential risk to water quality in the nearby Mad River.

V. RECOMMENDATIONS

Based upon the above conclusions, Griffin recommends the following actions:

- 1) Groundwater should be sampled quarterly from onsite wells and analyzed by EPA Method 602 for presence of BTEX compounds and MTBE.

2) Onsite wells should continue to be monitored for the presence of free phase product at a weekly frequency. Where present, free product should be bailed from the wells.

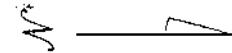
3) Soil vapor points, SV1 and SV2, should be monitored quarterly for presence of organic vapors to determine if free phase or dissolved phase petroleum constituents are migrating toward the river.

4) The Mad River adjacent to the site should be monitored quarterly, visually and with a PID, for presence of petroleum constituents.

APPENDIX A

Site Maps

MAD RIVER APPROX.
1000 FEET WEST.



SV1 SV2

MW4 MW3

MW2

KINGSBURY'S
COUNTRY STORE

#4 DIESEL
#3 SNL
#2 NL
#1 NL

MW1

UNDERGROUND
PIPING

PUMP ISLAND

U.S. ROUTE 100 NORTH →

LEGEND

-  MW2 MONITORING WELL
-  VAPOR EXTRACTION POINT
-  UNDERGROUND STORAGE TANK
-  UST FILL PIPE

JOB #: 9934438
REVISED 11/12/93: ADDED SOIL VENT POINTS 1&2



KINGSBURY'S COUNTRY STORE

WARREN,

VERMONT

SITE MAP

DATE: 11/4/93

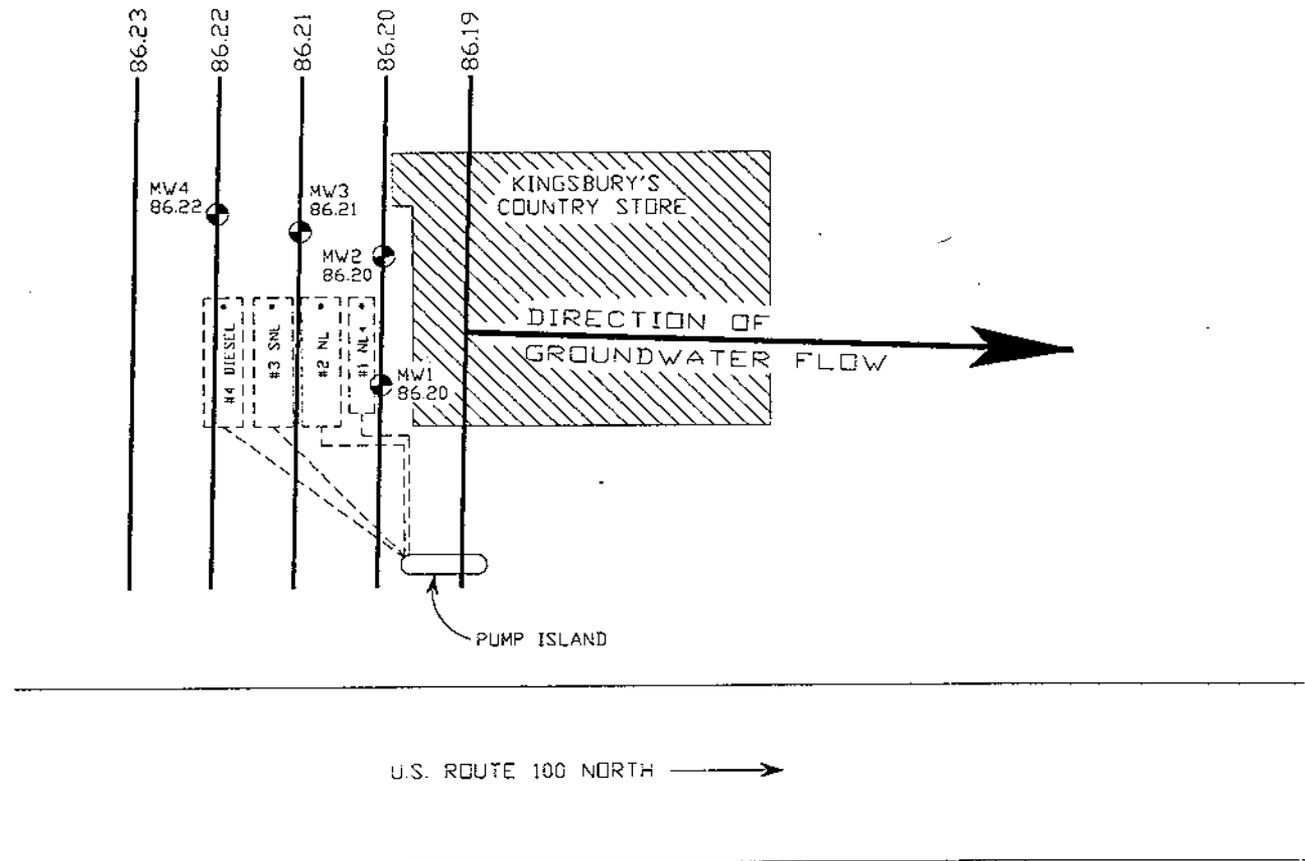
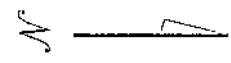
DWG.#: 2

SCALE: 1"=40'

DRN: S3

APP: PM

MAD RIVER APPROX.
1000 FEET WEST.



LEGEND

- MW2 86.20 MONITORING WELL AND WATER TABLE ELEV. IN FEET
- UNDERGROUND STORAGE TANK
- UST FILL PIPE
- 86.20 GROUNDWATER CONTOUR IN FEET

JOB #: 9934438
SAMPLE DATE: 10/29/93

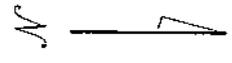


KINGSBURY'S COUNTRY STORE
WARREN, VERMONT

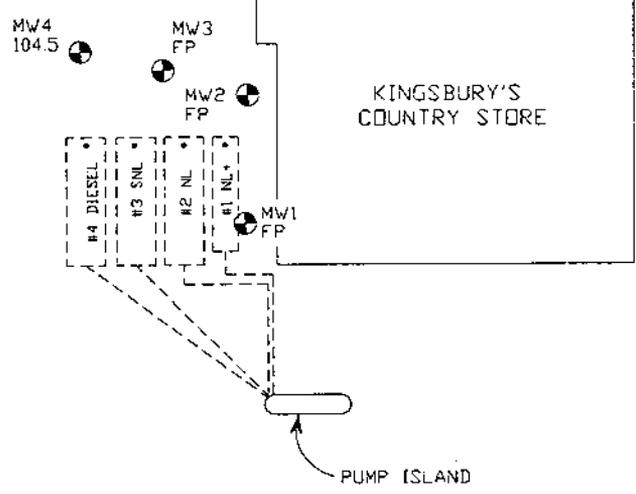
GROUNDWATER CONTOUR MAP

DATE: 11/4/93	DWG.# 3	SCALE: 1"=40'	DRN: SB	APP: PM
---------------	---------	---------------	---------	---------

MAD RIVER APPROX.
1000 FEET WEST.



SV1 SV2



U.S. ROUTE 100 NORTH →

LEGEND

- MW4 104.5 MONITORING WELL AND TOTAL BTEX + MTBE CONCENTRATION (ppb)
- FP FREE PRODUCT
- VAPOR EXTRACTION POINT
- UNDERGROUND STORAGE TANK
- UST FILL PIPE

JOB #: 9934438
REVISED 11/12/93: ADDED SOIL VENT POINTS 1&2
SAMPLE DATE: 10/29/93



KINGSBURY'S COUNTRY STORE

WARREN, VERMONT

CONTAMINANT DISTRIBUTION MAP

DATE: 11/4/93	DWG #: 3	SCALE: 1"=40'	DRN: SB	APP: <
---------------	----------	---------------	---------	--------

APPENDIX B

Liquid Level Data

**Liquid Level Monitoring Data
Kingsbury Country Store
Warren, Vermont**

Monitoring Date: October 29, 1993

Well I.D.	Well Depth (ft)	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Specific Gravity of Product	Hydro Equivalent (ft)	Corrected Depth To Water (ft)	Corrected Water Table Elevation (ft)
MW-1	-	99.77	13.56	13.57	0.005	0.88	0.005	13.57	86.20
MW-2	-	99.80	13.60	13.60	0.003	0.88	0.002	13.60	86.20
MW-3	-	99.97	13.76	13.76	0.003	0.88	0.002	13.76	86.21
MW-4	-	100.00	-	13.78	-	-	-	-	86.22

APPENDIX C

Groundwater Quality Data

**Groundwater Quality Summary
Kingsbury Country Store
Warren, Vermont**

Sample Date: October 29, 1993

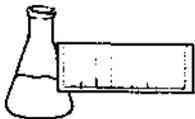
PARAMETER	MW-1	MW-2	MW-3	MW-4	Quality Control Samples		Drinking Water Standards
					Trip Blank	Duplicate (MW-4)	
Benzene	Not	Not	Not	ND	ND	ND	5.0 *
Chlorobenzene	Sampled	Sampled	Sampled	ND	ND	ND	100 *
1,2-DCB				ND	ND	ND	600 *
1,3-DCB	0.005 ft	0.003 ft	0.003 ft	ND	ND	ND	600 **
1,4-DCB	Free	Free	Free	ND	ND	ND	75 *
Ethylbenzene	Product	Product	Product	41.6	ND	36.0	700 *
Toluene				ND	ND	ND	1,000 *
Xylenes				62.9	ND	55.2	10,000 *
Total BTEX				104.5	ND	91.2	-
MTBE				ND	ND	ND	40 **
BTEX+MTBE				104.5	ND	91.2	-

All values reported in ug/L (ppb)

ND - None Detected

* - EPA Maximum Contaminant Level

** - VT Health Advisory Levels



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: Kingsbury's Country Store
REPORT DATE: November 11, 1993
DATE SAMPLED: October 29, 1993

PROJECT CODE: GIKC1121
REF.#: 53,426 - 53,428

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.

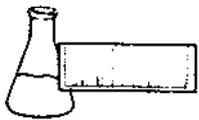
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

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

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

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Kingsbury's Country Store
REPORT DATE: November 11, 1993
DATE SAMPLED: October 29, 1993
DATE RECEIVED: October 29, 1993
ANALYSIS DATE: November 10, 1993

PROJECT CODE: GIKC1121
REF.#: 53,426
STATION: Trip Blank
TIME SAMPLED: 6:45
SAMPLER: Peter Murray

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND ¹
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: 106%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Kingsbury's Country Store
REPORT DATE: November 11, 1993
DATE SAMPLED: October 29, 1993
DATE RECEIVED: October 29, 1993
ANALYSIS DATE: November 11, 1993

PROJECT CODE: GIKC1121
REF.#: 53,427
STATION: MW-4
TIME SAMPLED: 13:10
SAMPLER: Peter Murray

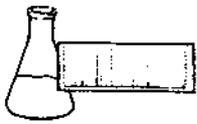
<u>Parameter</u>	<u>Detection Limit (ug/L)¹</u>	<u>Concentration (ug/L)</u>
Benzene	2	ND ²
Chlorobenzene	2	ND
1,2-Dichlorobenzene	2	ND
1,3-Dichlorobenzene	2	ND
1,4-Dichlorobenzene	2	ND
Ethylbenzene	2	41.6
Toluene	2	ND
Xylenes	2	62.9
MTBE	20	ND

Bromobenzene Surrogate Recovery: 84%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >25

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 50% dilution.
- 2 None detected



ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Kingsbury's Country Store
REPORT DATE: November 11, 1993
DATE SAMPLED: October 29, 1993
DATE RECEIVED: October 29, 1993
ANALYSIS DATE: November 11, 1993

PROJECT CODE: GIKC1121
REF.#: 53,428
STATION: MW-4 Duplicate
TIME SAMPLED: 13:10
SAMPLER: Peter Murray

<u>Parameter</u>	<u>Detection Limit (ug/L)¹</u>	<u>Concentration (ug/L)</u>
Benzene	2	ND ²
Chlorobenzene	2	ND
1,2-Dichlorobenzene	2	ND
1,3-Dichlorobenzene	2	ND
1,4-Dichlorobenzene	2	ND
Ethylbenzene	2	36.0
Toluene	2	ND
Xylenes	2	55.2
MTBE	20	ND

Bromobenzene Surrogate Recovery: 81%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >25

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 50% dilution.

2 None detected



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

008432

CHAIN-OF-CUSTODY RECORD

Project Name: <i>Kingsbury's County Store</i>	Reporting Address: <i>Griffin International</i>	Billing Address:
Site Location: <i>Warren, VT</i>	<i>28 Dorset Lane, Williston, VT</i>	<i>IME</i>
Endyne Project Number: <i>6IKC1121</i>	Company: <i>Griffin</i>	Sampler Name: <i>P. Murray</i>
	Contact Name/Phone #: <i>Peter Murray</i>	Phone #: <i>802 77708</i>

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				
<i>53,426</i>	<i>Trip Blank</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>6:45</i>	<i>2</i>	<i>40mL</i>		<i>602</i>	<i>HCL</i>	
<i>53,427</i>	<i>MW-4</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>13:10</i>	<i>2</i>	<i>40mL</i>		<i>602</i>	<i>HCL</i>	
<i>53,428</i>	<i>MW4 Duplicate</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>13:10</i>	<i>2</i>	<i>40mL</i>		<i>602</i>	<i>HCL</i>	

Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>10/23 4:10 pm</i>
Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time

Requested Analyses

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



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

008432

CHAIN-OF-CUSTODY RECORD

Project Name: <i>Kingsbury County State</i>	Reporting Address: <i>GRIFFIN INTERNATIONAL</i>	Billing Address: <i>SIAME</i>
Site Location: <i>Williston VT</i>	<i>28 Dorsset Lane, Williston, VT</i>	
Endyne Project Number:	Company: <i>GRIFFIN</i>	Sampler Name: <i>Peter Mullaney</i>
	Contact Name/Phone #: <i>Peter Mullaney</i>	Phone #: <i>802 579 7783</i>

Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time <i>10/29/93</i>	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
	<i>Trip Skwk</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>6:45</i>	<i>2</i>	<i>40ML</i>		<i>602</i>	<i>HCL</i>	
	<i>MW-4</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>13:10</i>	<i>2</i>	<i>40ML</i>		<i>602</i>	<i>HCL</i>	
	<i>MW4 Duplicate</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>13:10</i>	<i>2</i>	<i>40ML</i>		<i>602</i>	<i>HCL</i>	

Relinquished by: Signature <i>Peter Mullaney</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>10/29/93 4:10 pm</i>
Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time

Requested Analyses

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