2011 ANNUAL GROUNDWATER MONITORING REPORT

for the
Clarendon General Store Site
East Clarendon, Vermont
VTDEC Site #90-0532

August 2011

Prepared for:

Clarendon General Store
Box 314A - Route 103
East Clarendon, Vermont 05759

PREPARED BY

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I. INTRODUCTION

This report summarizes the results of the August 3, 2011 annual groundwater monitoring performed at the Clarendon General Store in East Clarendon, Vermont (the Site; see Site Location Map in Appendix A). The work was designed and performed for Mrs. Judith A. Webster of East Clarendon, Vermont by KAS, Inc. (KAS) of Williston, Vermont.

This work was conducted in accordance with the recommendations made in the *July 2010 Annual Groundwater Monitoring Report* for the site. The recommendation was approved by the Vermont Department of Environmental Conservation (VTDEC).

II. GROUNDWATER FlOW DIRECTION AND GRADIENT

Water table elevation measurements were collected from six of the eight on-site monitoring wells (MW-6, MW-7, MW-8, MW-12, MW-13, and MW-16) on August 3, 2011. Monitoring wells MW-15 and MW-17 could not be located on this date. The depth to groundwater in the wells on this date ranged from 4.88 (MW-16) to 9.23 (MW-8) feet below top-of-casing. The top-of-casing elevations were determined relative to the top of the building foundation slab, which was arbitrarily set at 100.00 feet. The depth to water in each well was subtracted from the top of casing elevation to obtain the relative water table elevation. No free phase product was gauged in the wells on August 3, 2011. Water level data are presented in Appendix B. Water table elevations were plotted on the Site Map to generate the Groundwater Contour Map (Appendix A). The water table elevations of this sampling event are consistent with previous results.

The water table elevations measured on August 3, 2011 suggest that groundwater flow at the site is directed generally toward the northwest at an approximate hydraulic gradient of 2.8% This flow direction and gradient are consistent with previous results.

III. GROUNDWATER SAMPLING AND ANALYSIS

KAS collected groundwater samples from two of the site monitoring wells (MW-7 and MW-16) on August 3, 2011. A sample was not collected from monitoring wells MW-15 and MW-17 since these wells could not be located. The remaining monitoring wells have been removed from the sampling schedule. The groundwater samples were collected according to KAS' groundwater sampling protocol, stored on ice in the field, and submitted to Endyne, Inc. of Williston, Vermont under proper chain-of-custody procedures. The groundwater samples were analyzed for the major petroleum related VOCs by EPA Method 8260B.

One trip blank and one duplicate sample (MW-7) were collected for quality assurance/quality control (QA/QC). The results of the duplicate sample analysis were analyzed using a relative percent difference (RPD) method. The RPD is defined as 100 times the difference between the sample result and the duplicate result, divided by the mean of the sample and duplicate result. The RPD calculations are presented in the Groundwater Quality Summary in Appendix C. The overall RPD was 8.7%, indicating good precision. The effect of spurious influences on sample quality was

insignificant, as none of the tested compounds were reported above detection limits in the trip blank collected on August 3, 2011.

One petroleum compound (naphthalene) was reported above applicable Vermont Groundwater Enforcement Standard (VGES) in the groundwater sample collected from MW-7. The total VOC concentrations in MW-7 remain at low levels and the results are very consistent to previous years. Overall, contaminant concentrations have declined significantly in groundwater collected from MW-7 since monitoring began in June 1992. No VOCs were reported above the laboratory detection limits in the sample collected from MW-16 on August 3, 2011. Contaminant concentrations have remained at non-detectable levels in groundwater collected from MW-16 since July 2004. Although not sampled during the August 3, 2011 monitoring event, monitoring well MW-17 has contained the highest levels of VOCs recently. Levels have previously been observed to remain rather stagnant at this location.

The analytical results were plotted to show the concentration of dissolved contamination across the site (see Contaminant Concentration Map, Appendix A). Analytical results of the groundwater samples collected on August 3, 2011 from the monitoring wells are summarized and graphed in Appendix C along with the applicable VGES for the target petroleum compounds. The laboratory analysis report for the August 3, 2011 sampling event is included in Appendix D.

IV. SENSITIVE RECEPTOR RISK ASSESSMENT

A sensitive receptor risk assessment of the area surrounding the Site is provided below, and a determination of the potential risk to identified receptors has been made based on proximity to the contaminant plume, groundwater flow direction, contaminant mobility and volatility, and contaminant concentration levels in subsurface soils and groundwater. To date only one sensitive receptor (nearby drinking water supply wells) other than site soil and groundwater has been identified as being impacted from the subsurface petroleum contamination originating from the Site.

The Site and nearby properties are serviced by private drinking water supply wells. Several of the nearby supply wells have been identified as being impacted from subsurface petroleum contamination and these wells are monitored on a periodic basis. A report on the monitoring of these supply wells is submitted under separate cover. Monitoring of the on site drinking water supply well is no longer being conducted at the request of the property owner due to the continued low to non-detecatable levels of VOCs in the water.

A Class II wetland is located approximately 300-400 feet southeast of the site property. An unnamed stream flows to this wetland area. An additional Class II wetland is located aproximatley 600-700 feet west of the site property. Based on the documented groundwater flow and/or the lack of VOCs reported in the downgradient monitoring well MW-16, risk to these surface waters and wetland areas appears to be low at this time. No other wetlands or surface water bodies are located in close proximity to the Site.

There are no known buried utilities in the vicinity of the site property. One main structure is present on the property, the convenience store building. The building is built on slab and lies in an upgradient location to the reported contamination. Based on the August 2011 findings it does not appear that the on site building or nearby buildings are at risk to vapor intrusion.

Based on the data collected in August 2011 no new sensitive receptors, other than nearby drinking water supply wells, soil and groundwater, have been identified as being at risk to petroleum contamination originating from the Site.

V. CONCLUSIONS

Based on the results of the August 3, 2011 sampling event at the Clarendon General Store, KAS has reached the following conclusions:

1. Direction of groundwater flow on August 3, 2011 was estimated to be directed towards the northwest at an approximate hydraulic gradient of 2.8%, which is consistent with previous estimates;

2. Groundwater in the vicinity of site monitoring well MW-7 remains contaminated with one dissolved gasoline compound (naphthalene) at a concentration exceeding the Vermont Groundwater Enforcement Standard. No VOCs were reported above the laboratory detection limit in the sample collected from MW-16;

3. Total VOC concentrations remain at low levels in MW-7 and within historical range. VOC concentrations have remained at non-detectable levels in MW-16 since July 2004. Monitoring well MW-17 has historically contained the highest levels of VOCs; however, this well could not be located on August 3, 2011;

4. Quarterly and annual monitoring of nearby water treatment systems is being conducted to monitor identified sensitive receptors in the vicinity of the Site; and,

5. Contaminant concentrations in Site monitoring wells are expected to continue to decrease as natural attenuation proceeds to breakdown the contaminants.

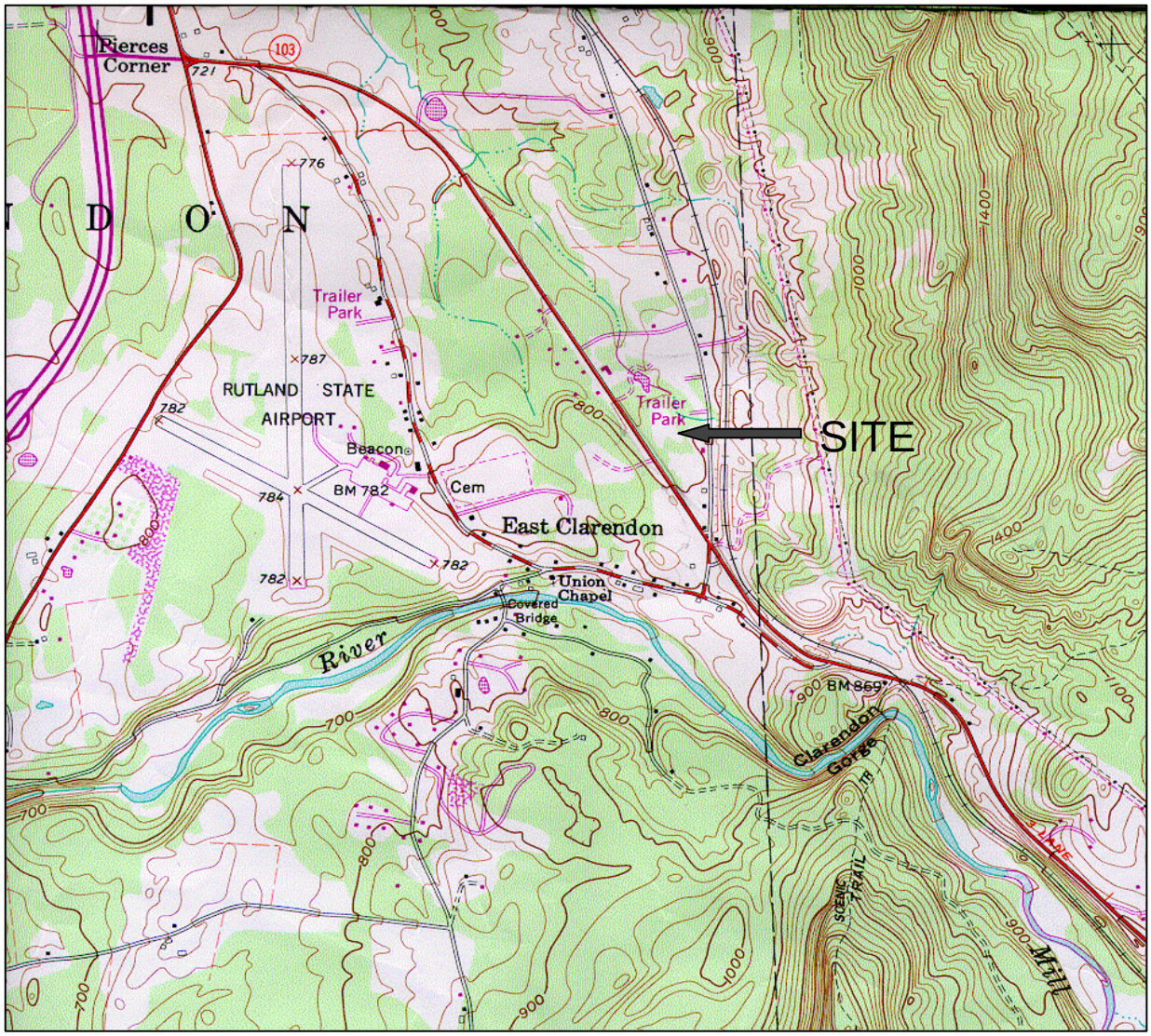
VI. RECOMMENDATIONS

Based upon the continued presence of petroleum contamination at levels exceeding the VGES in MW-7 and historically in MW-17, KAS recommends that groundwater monitoring continues on an annual basis to determine the effect that natural attenuation is having on contaminant levels.

The next round of groundwater monitoring should be scheduled for the July 2012. Monitoring wells MW-7, MW-15, MW-16, and MW-17 should be sampled and analyzed for petroleum compounds via EPA method 8021B. All eight monitoring wells should be gauged to determine groundwater flow.

APPENDIX A
Maps

Site Location Map
Site Map
Groundwater Contour Map
Contaminant Concentration Map



KAS Job Number: *410040082 & 410040083*

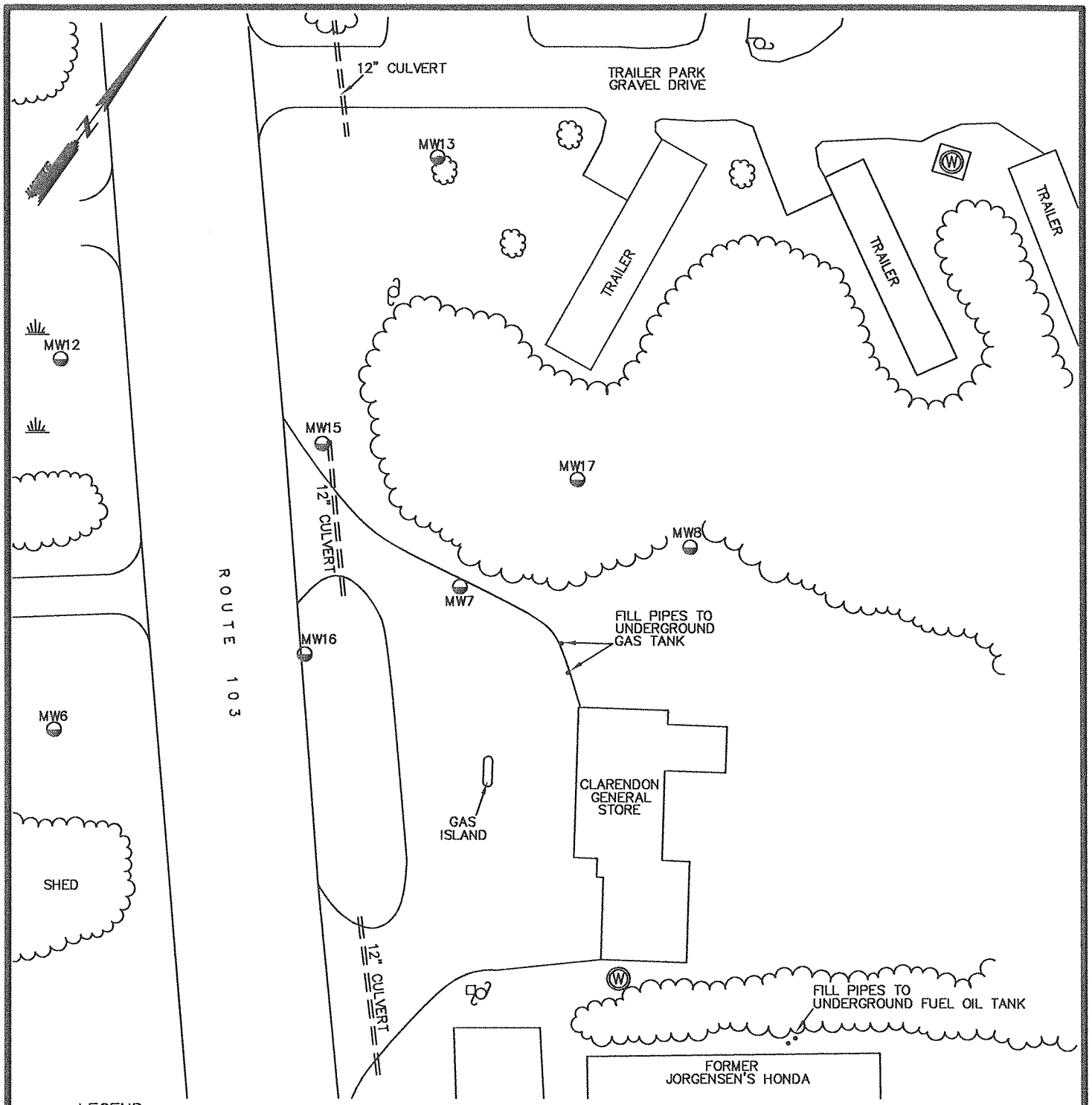
Source: *USGS Mapping Rutland 7.5' Quadrangle 1961, Revised 1998*

KAS INC

Former Jorgensen's Honda
Clarendon General Store

Site Location Map
USGS Mapping

Date: 02/01/07	Drawing No. 0	Scale: 1:24,000	By: KR



LEGEND

MW8 MONITORING WELL

W WATER SUPPLY WELL

FENCE

POWER POLE

SITE MAP TAKEN FROM REVISED SITE PLAN DRAWN BY LAMOUREUX, STONE & O'LEARY DATED 5/6/94.

VTDEC #: 90-0532
ESPC #: 20054158
KAS #: 410040082

KAS

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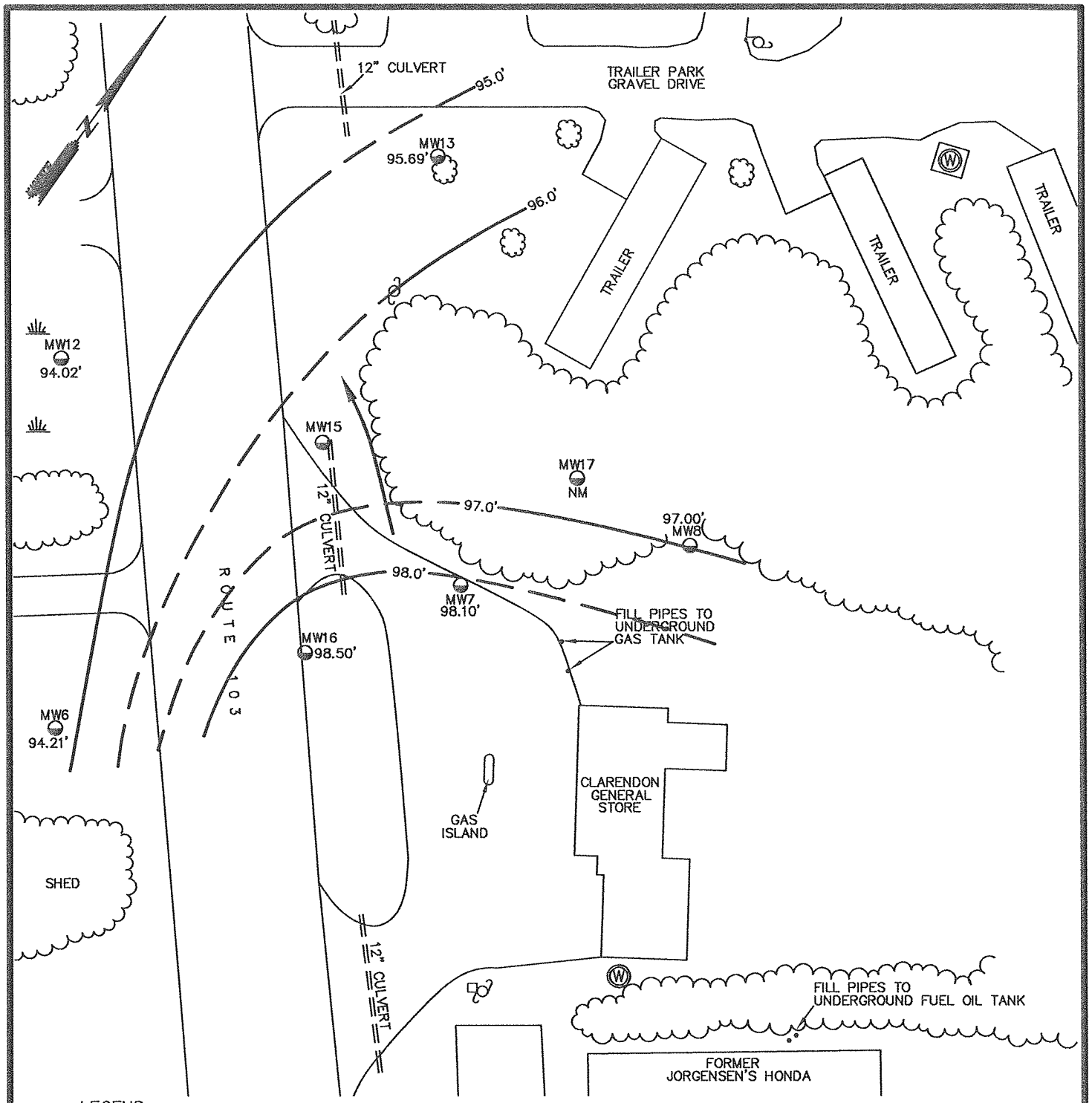
CLARENDON GENERAL STORE
EAST CLARENDON, VERMONT

SITE MAP

DATE: 8/22/11	DWG.#: 1	SCALE: 1"=40'	DRN.: DM	APP.: JR



LEGEND

MW8 97.00' — MONITORING WELL WITH GROUNDWATER ELEVATION (ft)

98.0' — GROUNDWATER ELEVATION CONTOUR (ft) (DASHED WHERE INFERRED)

W — WATER SUPPLY WELL

FENCE

POWER POLE

APPROXIMATE GROUNDWATER FLOW DIRECTION

SITE MAP TAKEN FROM REVISED SITE PLAN DRAWN BY LAMOUREUX, STONE & O'LEARY DATED 5/6/94.

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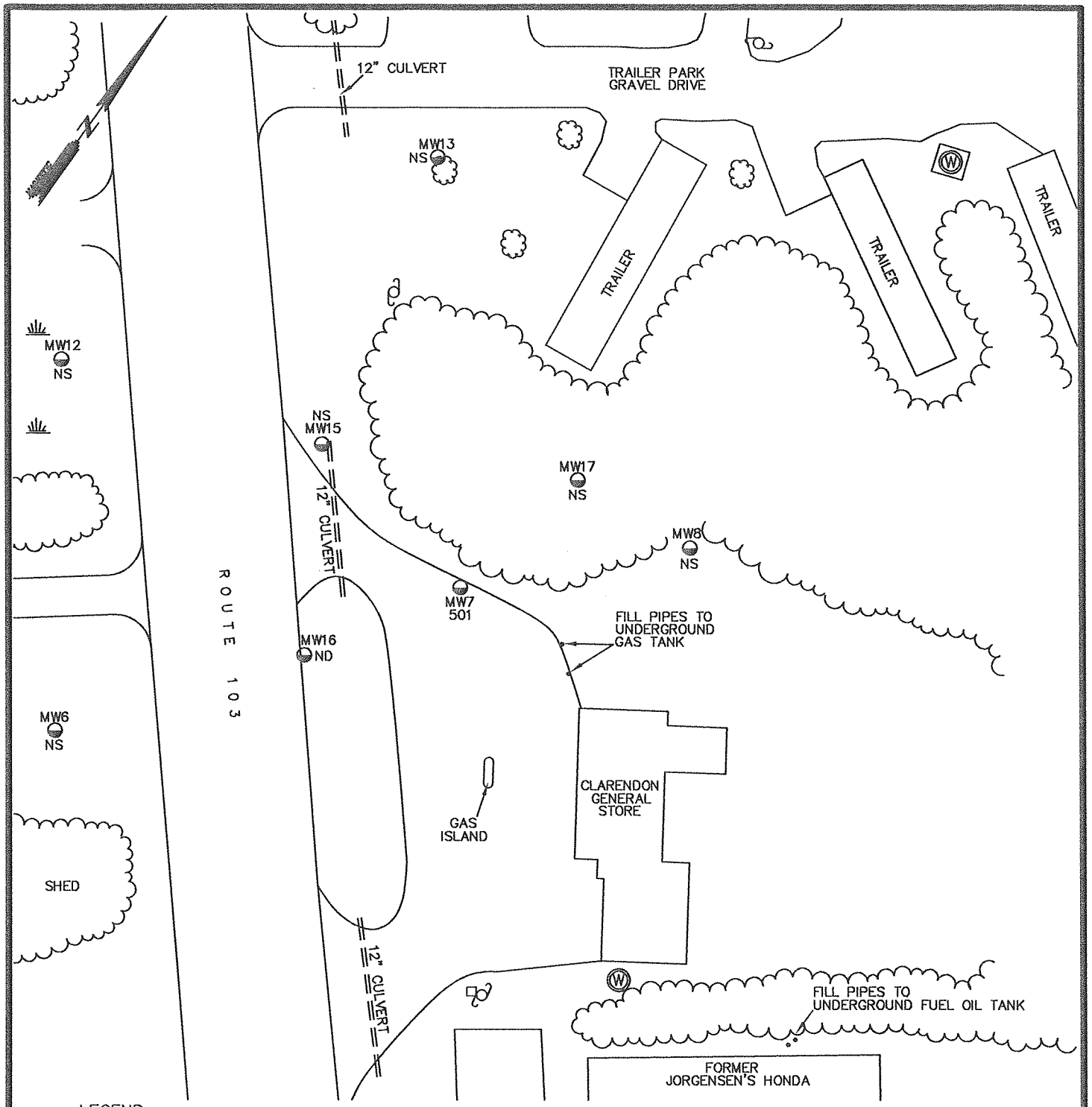
CLARENDON GENERAL STORE
EAST CLARENDON, VERMONT

GROUNDWATER CONTOUR MAP

MEASURED: 8/3/11

DATE: 8/22/11	DWG.#: 2	SCALE: 1"=40'	DRN.: DM	APP.: JR



LEGEND

MW7 501 — MONITORING WELL WITH TOTAL TARGETED VOC CONTAMINANT CONCENTRATION (ppb) (M=8021B)

NS — NOT SAMPLED

ND — NONE DETECTED

W — WATER SUPPLY WELL

FENCE

POWER POLE

SITE MAP TAKEN FROM REVISED SITE PLAN DRAWN BY LAMOUREUX, STONE & O'LEARY DATED 5/6/94.

VTDEC #: 90-0532
ESPC #: 20054158
KAS #: 410040082

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CLARENDON GENERAL STORE
EAST CLARENDON, VERMONT

CONTAMINANT CONCENTRATION MAP

SAMPLED: 8/3/11

DATE: 8/22/11	DWG.#: 3	SCALE: 1"=40'	DRN.: DM	APP.: JR

APPENDIX B

Liquid Level Monitoring Data

KAS, Inc.

Liquid Level Monitoring Data

East Clarendon Store
and Jorgensen's Honda
East Clarendon, Vermont

Monitoring Date: 8/3/11

Well I.D.	Top of Casing Elevation	Depth To Product	Depth To Water	Product Thickness	Specific Gravity Of Product	Hydro Equivalent	Corrected Depth To Water	Corrected Water Table Elevation
MW-1	105.70		3.96					101.74
MW-2	106.23		2.79					103.44
MW-3	108.01		6.32					101.69
MW-4	107.13		4.37					102.76
MW-6	102.39		8.18					94.21
MW-7	105.53		7.43					98.10
MW-8	106.23		9.23					97.00
MW-9	106.38		2.16					104.22
MW-12	99.68		5.66					94.02
MW-13	100.76		5.07					95.69
MW-15	102.44		NM					NM
MW-16	103.38		4.88					98.50
MW-17	105.58		NM					NM
MW-18	107.91		5.14					102.77
MW-19	106.87		3.18					103.69
MW-20	105.74		3.14					102.60

All Values Reported in feet
NA - Not Applicable
NM - Not Measured
Top of casing elevations surveyed by Griffin International, Inc.

APPENDIX C

Groundwater Monitoring Results Summary

Monitoring Well MW-7

M602 PARAMETER	Sampling Date												VGES
	6/18/1992	*7/20/1992*	*8/19/1992*	*9/18/1992*	*10/30/1992*	*11/24/1992*	*1/22/1993*	*2/25/1993*	*3/18/1993*	*4/16/1993*	*5/12/1993*	*6/11/1993*	
Benzene	**1,120.**	**1,940.**	**3,670.**		**4,540.**	**4,030.**	**1,240.**	**3,110.**	**3,000.**	**TBQ**	**TBQ**	**1,480.**	5.0
Chlorobenzene	ND	ND	ND	*No*	ND	ND	ND	ND	ND	ND	ND	ND	100.
1,2-DCB	ND	ND	ND	*Sample*	ND	ND	ND	ND	ND	ND	ND	ND	620.
1,3-DCB	ND	ND	ND	*Collected*	ND	ND	ND	ND	ND	ND	ND	ND	620.
1,4-DCB	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	75.
Ethylbenzene	**3,900.**	**2,260.**	**3,400.**		**3,860.**	**3,510.**	**TBQ**	**4,000.**	**2,330.**	**2,340.**	**1,680.**	**3,920.**	620.
Toluene	**8,360.**	**12,200.**	**20,100.**		**22,600.**	**30,100.**	**3,600.**	**21,900.**	**17,900.**	**7,900.**	**4,020.**	**12,300.**	2,420.
Xylenes	**9,950.**	**16,000.**	**18,400.**		**21,500.**	**31,600.**	**8,560.**	**24,600.**	**15,000.**	**13,000.**	**10,900.**	**23,300.**	400.
Total BTEX	**23,330.**	**32,400.**	**45,570.**		**52,500.**	**69,240.**	**13,400.**	**53,610.**	**38,230.**	**23,240.**	**16,600.**	**41,000.**	--
MTBE	**772.**	**4,140.**	**TBQ**		ND	ND	ND	**9,560.**	ND	ND	ND	ND	--
Ground Water Elevation						99.17	100.36	99.20	100.05	102.11	101.33	100.24	--

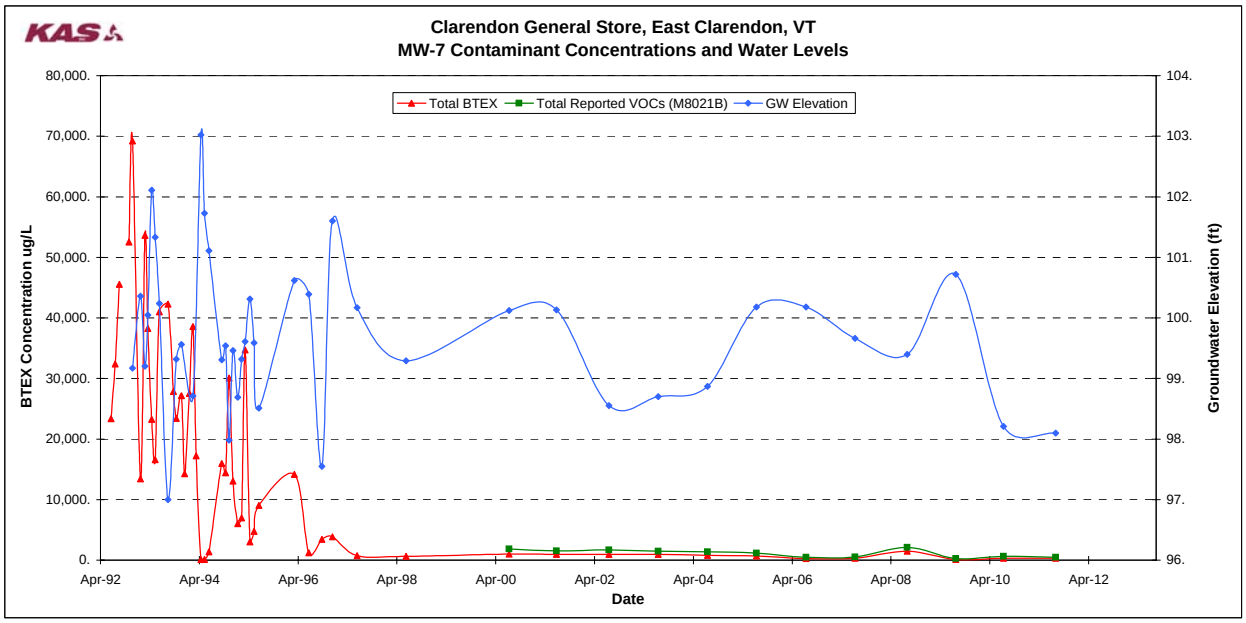
M602 PARAMETER	Sampling Date												VGES
	7/22/1993	*8/13/1993*	*9/24/1993*	*10/14/1993*	*11/22/1993*	*12/16/1993*	*1/19/1994*	*2/15/1994*	*3/11/1994*	*4/14/1994*	*5/10/1994*	*6/14/1994*	
Benzene	**6,550.**	**2,110.**	**1,380.**	**1,060.**	**1,510.**	**728.**	**1,150.**	**1,600.**	**1,160.**	ND	**8.3**	**132.**	5.0
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100.
1,2-DCB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	620.
1,3-DCB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	620.
1,4-DCB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.
Ethylbenzene	**4,690.**	**3,470.**	**1,710.**	**1,860.**	**2,270.**	**903.**	**2,470.**	**3,500.**	**1,130.**	**TBQ**	**13.7**	**186.**	620.
Toluene	**25,600.**	**16,000.**	**9,970.**	**7,400.**	**8,790.**	**4,120.**	**7,530.**	**9,180.**	**5,200.**	ND	**5.0**	**107.**	2,420.
Xylenes	**36,800.**	**20,700.**	**14,800.**	**13,100.**	**14,600.**	**8,500.**	**16,400.**	**24,300.**	**9,740.**	**102.**	**89.5**	**962.**	400.
Total BTEX	**73,640.**	**42,280.**	**27,860.**	**23,420.**	**27,170.**	**14,251.**	**27,550.**	**38,580.**	**17,230.**	**102.**	**117.**	**1,387.**	--
MTBE	**10,500.**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Ground Water Elevation	97.32	97.00		99.32	99.56			98.71		103.02	101.73	101.11	--

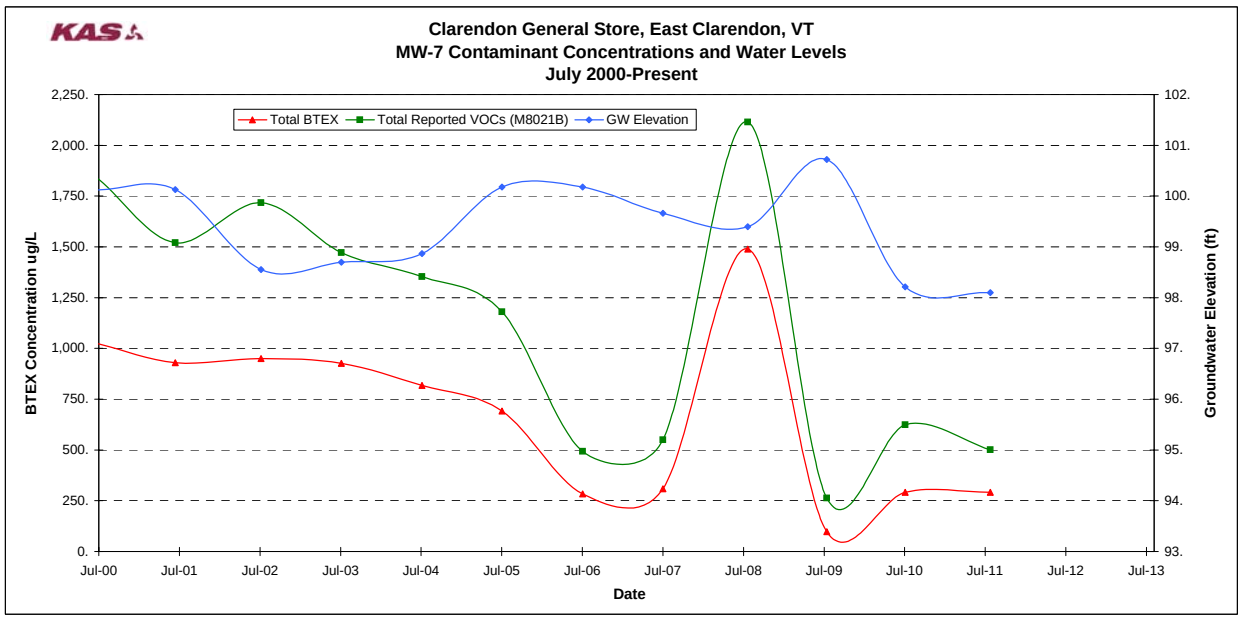
M602 PARAMETER	Sampling Date												VGES
	7/15/1994	*8/12/1994*	*9/15/1994*	*10/13/1994*	*11/8/1994*	*12/7/1994*	*1/12/1995*	*2/9/1995*	*3/8/1995*	*4/12/1995*	*5/12/1995*	*6/16/1995*	
Benzene	**483.**	**1,030.**	**881.**	**712.**	**1,560.**	**734.**	**260.**	**249.**	ND	ND	**126.**	**532.**	5.0
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100.
1,2-DCB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	620.
1,3-DCB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	620.
1,4-DCB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.
Ethylbenzene	**694.**	**2,070.**	**1,880.**	**1,340.**	**3,130.**	**1,130.**	**598.**	**806.**	**4,050.**	**508.**	**585.**	**1,090.**	620.
Toluene	**388.**	**1,860.**	**2,520.**	**2,690.**	**5,460.**	**2,270.**	**657.**	**920.**	**2,850.**	ND	**308.**	**847.**	2,420.
Xylenes	**3,750.**	**11,800.**	**10,700.**	**9,690.**	**19,900.**	**8,920.**	**4,500.**	**5,000.**	**27,800.**	**2,520.**	**3,740.**	**6,550.**	400.
Total BTEX	**5,315.**	**16,760.**	**15,981.**	**14,432.**	**30,050.**	**13,054.**	**6,015.**	**6,975.**	**34,700.**	**3,028.**	**4,759.**	**9,019.**	--
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Ground Water Elevation	99.27	100.16	99.31	99.54	97.98	99.46	98.69	99.32	99.61	100.31	99.59	98.51	

M602 PARAMETER	Sampling Date												VGES
	7/14/1995	*8/10/1995*	*12/4/1995*	*3/6/1996*	*6/21/1996*	*9/25/1996*	*12/13/1996*	*6/12/1997*	*6/8/1998*				
Benzene	**6.4**	**132.**	**265.**	**557.**	**38.6**	**283.**	**186.**	**TBQ(10.)**	**40.0**				5.0
Chlorobenzene	ND	ND	ND	ND	ND(10.)	ND(50.)	ND(50.)	ND(10.)	ND(10.)				100.
1,2-DCB	ND	ND	ND	ND	ND(10.)	ND(50.)	ND(50.)	ND(10.)	ND(10.)				620.
1,3-DCB	ND	ND	ND	ND	ND(10.)	ND(50.)	ND(50.)	ND(10.)	ND(10.)				620.
1,4-DCB	ND	ND	ND	ND	ND(10.)	ND(50.)	ND(50.)	ND(10.)	ND(10.)				75.
Ethylbenzene	**38.2**	**738.**	**774.**	**1,260.**	**173.**	**661.**	**504.**	**142.**	**182.**				620.; 700.
Toluene	**24.2**	**487.**	**2,490.**	**3,970.**	**68.0**	**399.**	**606.**	**38.1**	**15.9**				2,420.; 1,000.
Xylenes	**223.**	**5,220.**	**7,730.**	**8,390.**	**939.**	**2,070.**	**2,570.**	**582.**	**399.**				400.; 10,000.
Total BTEX	**292.**	**6,577.**	**11,259.**	**14,177.**	**1,219.**	**3,413.**	**3,866.**	**762.**	**637.**				--
MTBE	ND	ND	ND	ND	ND(100.)	ND(500.)	ND(500.)	ND(100.)	ND(100.)				none; 40.
Ground Water Elevation	95.78	97.29	99.13	100.62	100.39	97.55	101.60	100.17	99.29				--

M8021B PARAMETER	Sampling Date												VGES
	7/11/2000	*6/25/2001*	*7/18/2002*	*7/17/2003*	*7/16/2004*	*7/13/2005*	*7/13/2006*	*7/12/2007*	*7/31/2008*	*7/24/2009*	*7/13/2010*	*8/3/2011*	
MTBE	ND(50.0)	ND(100.)	ND(10.0)	ND(20.0)	ND(20.0)	ND(40.0)	ND(10.0)	ND(10.0)	ND(40.0)	ND(2.0)	ND(10.0)	ND(4.0)	40.
Benzene	**27.2**	ND(10.0)	**6.6**	ND(10.0)	ND(10.0)	ND(20.0)	ND(5.0)	ND(5.0)	ND(20.0)	**1.0**	**1.9**	**3.0**	5.
Toluene	**54.4**	**30.2**	**49.4**	**39.9**	**17.3**	**33.8**	**10.7**	**11.9**	**59.2**	**3.9**	**11.0**	**8.0**	1,000.
Ethylbenzene	**253.**	**206.**	**203.**	**177.**	**230.**	**182.**	**82.5**	**108.**	**339.**	**36.0**	**144**	**93.8**	700.
Xylenes	**688.**	**693.**	**691.**	**709.**	**571.**	**476.**	**191.0**	**189.**	**1,090.**	**57.5**	**134**	**187**	10,000.
1,3,5-Trimethylbenzene	**19.0**	**34.0**	**66.0**	**48.9**	**97.6**	ND(20.0)	**8.4**	ND(5.0)	**66.4**	**32.1**	**12.1**	**2.5**	350.
1,2,4-Trimethylbenzene	**636.**	**442.**	**550.**	**387.**	**370.**	**384.**	**156.**	**190.**	**410.**	**95.8**	**258**	**162**	
Naphthalene	**157.**	**115.**	**151.**	**110.**	**66.8**	**105.**	**44.1**	**50.4**	**150.**	**37.3**	**62.5**	**44.6**	20.
Total BTEX	**1,023.**	**929.**	**950.**	**926.**	**818.**	**692.**	**284.**	**309.**	**1,488.**	**98.4**	**291**	**292**	--
Total Reported VOCs (M8021B)	**1,835.**	**1,520.**	**1,717.**	**1,472.**	**1,353.**	**1,181.**	**493.**	**549.**	**2,115.**	**263.6**	**624**	**501**	--
Ground Water Elevation	100.12	100.13	98.55	98.70	98.87	100.18	100.18	99.66	99.40	100.72	98.21	98.10	--

NOTES:
Results reported above detection limits are indicated in **bold**.
VGES - Vermont Groundwater Enforcement Standards
VGES values are time specific; where two values are given, the first is pre-11/97 and the second is post-11/97.
Values greater than the VGES (Table 1 of the Groundwater Protection Rule and Strategy) are shaded. **>VGES**
EPA Method 602 used for laboratory analysis through 6/98
EPA Method 8021B used for laboratory analysis 7/99 and later
All values reported in ug/l (ppb) unless otherwise noted
ND(X) - Not Detected (Detection Limit)
TBQ(X) - Trace Below Quantitation Limit (Quantitation Limit)
NA - Not analyzed for this parameter
NS - Not Sampled
FP - Free Product
Data from 9/24/93 to 7/16/04 was collected by Griffin International, Inc.


Clarendon General Store, East Clarendon, VT
MW-7 Contaminant Concentrations and Water Levels
Total BTEX
Total Reported VOCs (M8021B)
GW Elevation
BTEX Concentration ug/L
Groundwater Elevation (ft)
Date
80,000.
70,000.
60,000.
50,000.
40,000.
30,000.
20,000.
10,000.
0.
104.
103.
102.
101.
100.
99.
98.
97.
96.
Apr-92
Apr-94
Apr-96
Apr-98
Apr-00
Apr-02
Apr-04
Apr-06
Apr-08
Apr-10
Apr-12


Clarendon General Store, East Clarendon, VT
MW-7 Contaminant Concentrations and Water Levels
July 2000-Present
Total BTEX
Total Reported VOCs (M8021B)
GW Elevation
BTEX Concentration ug/L
Groundwater Elevation (ft)
Date
2,250.
2,000.
1,750.
1,500.
1,250.
1,000.
750.
500.
250.
0.
102.
101.
100.
99.
98.
97.
96.
95.
94.
93.
Jul-00
Jul-01
Jul-02
Jul-03
Jul-04
Jul-05
Jul-06
Jul-07
Jul-08
Jul-09
Jul-10
Jul-11
Jul-12
Jul-13

Groundwater Monitoring Results Summary
Clarendon General Store
East Clarendon, Vermont
Monitoring Well MW-16

M602 PARAMETER	Sampling Date										VGES (1)
	3/8/1995	6/16/1995	12/4/1995	6/21/1996	12/13/1996	6/12/1997	6/8/1998				
Benzene	ND	**158.0**	**51.5**	**32.5**	**TBQ<1**	**TBQ<10**	ND<10				5.0
Chlorobenzene	ND	ND	ND	ND<20	ND<1	ND<10	ND<10				100
1,2-DCB	ND	ND	ND	ND<20	ND<1	ND<10	ND<10				620
1,3-DCB	ND	ND	ND	ND<20	ND<1	ND<10	ND<10				620
1,4-DCB	ND	ND	ND	ND<20	ND<1	ND<10	ND<10				75
Ethylbenzene	ND	**373.**	**352.**	**277.**	**1.6**	**323.**	**311.**				620; 700
Toluene	ND	**958.**	**944.**	**339.**	**1.1**	**315.**	**200.**				2,420; 1,000
Xylenes	ND	**1,580.**	**1,740.**	**1,090.**	**6.5**	**1,250.**	**1,570.**				400.0; 10,000
Total BTEX	ND	**3,069.**	**3,088.**	**1,739.**	**9.2**	**1,888.**	**2,081.**				--
MTBE	ND	ND	ND	ND<200	ND<10	ND<100	ND<100				none; 40
GW Elevation	99.92	97.75	98.93	99.34	101.23	98.74	99.99				--

M8021B PARAMETER	Sampling Date										VGES (1)
	7/11/2000	6/23/2001	7/18/2002	7/17/2003	7/16/2004	7/13/2005	7/13/2006	8/3/2011			
MTBE	ND<10.0	ND<10.0	ND<8.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0			40
Benzene	ND<1.0	ND<1.0	ND<4.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0			5
Toluene	ND<1.0	ND<1.0	**9.0**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0			1000
Ethylbenzene	ND<1.0	ND<1.0	**41.4**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0			700
Xylenes	ND<1.0	**2.0**	**271.**	ND<2.0	**19.2**	ND<2.0	ND<2.0	ND<2.0			10000
1,3,5-Trimethylbenzene	ND<1.0	ND<1.0	**23.5**	ND<1.0	**7.3**	ND<1.0	ND<1.0	ND<1.0			4
1,2,4-Trimethylbenzene	ND<1.0	**1.3**	**139.**	ND<1.0	**10.8**	ND<1.0	ND<1.0	ND<1.0			5
Naphthalene	ND<1.0	ND<1.0	**46.5**	ND<1.0	**3.0**	ND<1.0	ND<1.0	ND<1.0			20
Total BTEX	ND	**2.0**	**321.**	ND	**19.2**	ND	ND	ND			--
Total Reported VOCs (M8021b)	ND	**3.3**	**530.**	ND	**40.3**	ND	ND	ND			--
GW Elevation	98.74	99.97	98.42	99.63	99.11	100.24	101.53	98.50			--

NOTES:

Results reported above detection limits are indicated in bold

Data from 3/8/95 to 7/16/04 was collected by Griffin International, Inc.

(1) VGES = Vermont Groundwater Enforcement Standards

Values greater than the VGES (Table 1 of the Groundwater Protection Rule and Strategy) are shaded.

EPA Method 602 used for laboratory analysis through 6/98

EPA Method 8021B used for laboratory analysis 7/99 and later

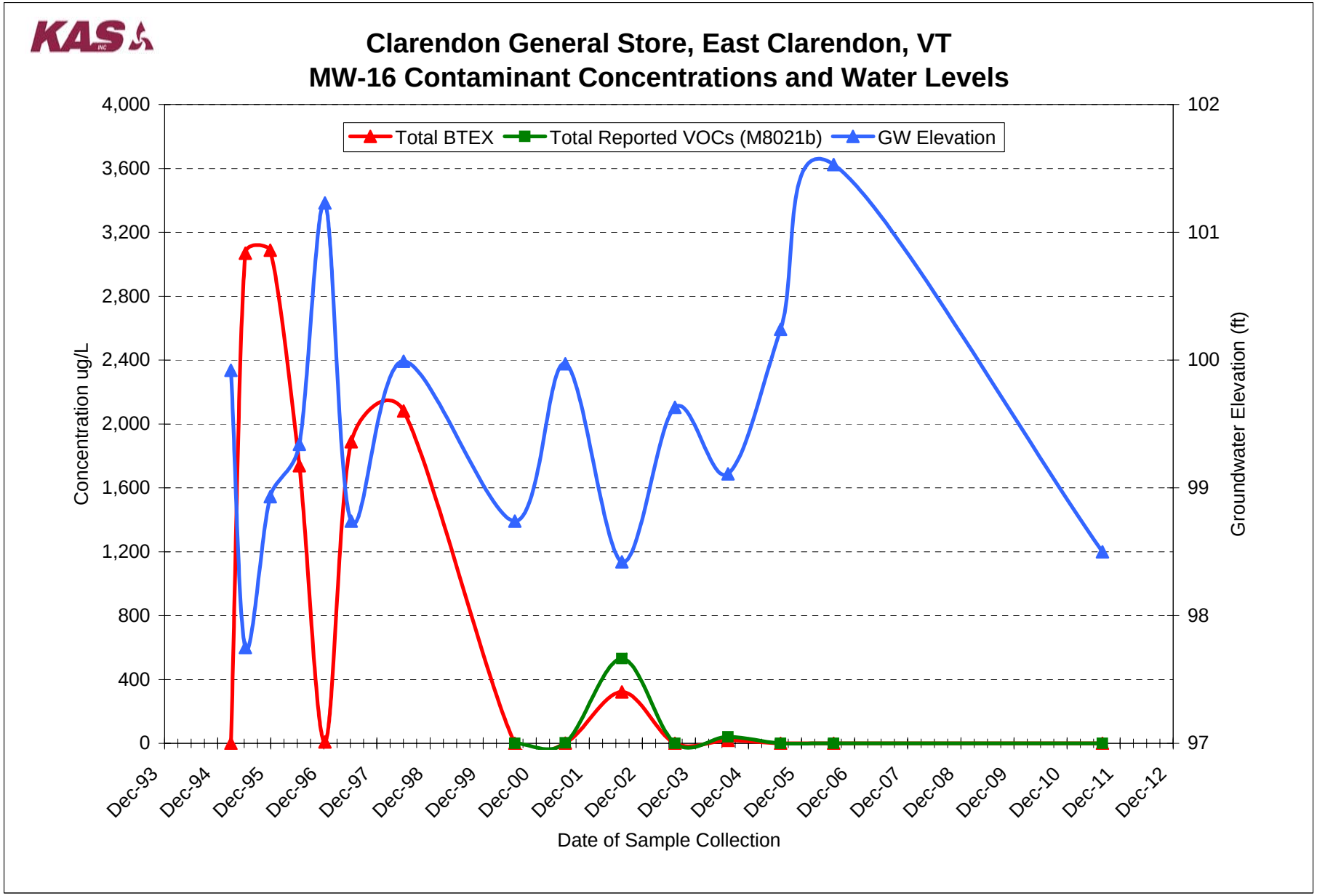
All values reported in ug/l (ppb) unless otherwise noted

ND<X - Not Detected (Detection Limit)

TBQ <X = Trace Below Quantitation Limit

NS - Not Sampled

FP - Free Product


Clarendon General Store, East Clarendon, VT
MW-16 Contaminant Concentrations and Water Levels
Total BTEX
Total Reported VOCs (M8021b)
GW Elevation
Concentration ug/L
Groundwater Elevation (ft)
Date of Sample Collection
4,000
3,600
3,200
2,800
2,400
2,000
1,600
1,200
800
400
0
102
101
100
99
98
97
Dec-93
Dec-94
Dec-95
Dec-96
Dec-97
Dec-98
Dec-99
Dec-00
Dec-01
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12

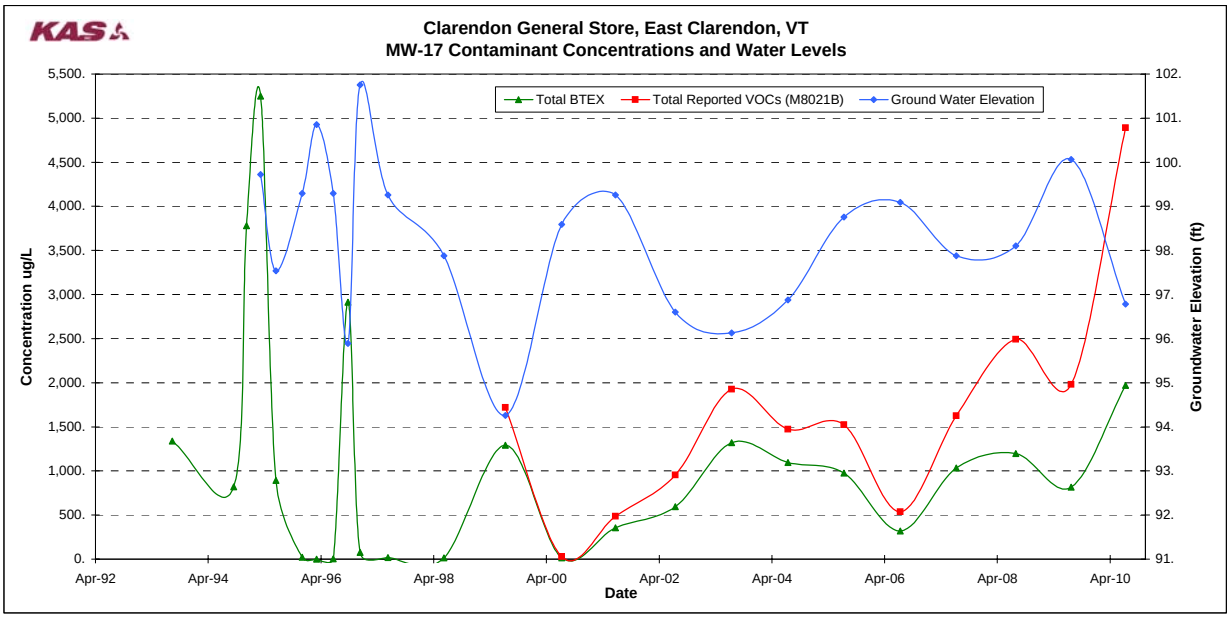
Monitoring Well MW-17

M602 PARAMETER	Sampling Date												VGES
	8/13/1993	*9/15/1994*	*12/8/1994*	*3/8/1995*	*6/16/1995*	*12/4/1995*	*3/6/1996*	*6/21/1996*	*9/25/1996*	*12/13/1996*	*6/12/1997*	*6/8/1998*	
Benzene	**TBQ**	**158.**	ND	**158.**	**25.6**	ND	ND	ND(1.)	**TBQ(20.)**	**TBQ(1.)**	ND(1.)	**1.1**	5.0
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND(1.)	ND(20.)	ND(1.)	ND(1.)	ND(1.)	100.
1,2-DCB	ND	ND	ND	ND	ND	ND	ND	ND(1.)	ND(20.)	ND(1.)	ND(1.)	ND(1.)	620.
1,3-DCB	ND	ND	ND	ND	ND	ND	ND	ND(1.)	ND(20.)	ND(1.)	ND(1.)	ND(1.)	620.
1,4-DCB	ND	ND	ND	ND	ND	ND	ND	ND(1.)	ND(20.)	ND(1.)	ND(1.)	ND(1.)	75.
Ethylbenzene	**299.**	**24.9**	**2,220.**	**433.**	**506.**	**13.8**	ND	**2.3**	**1,550.**	**44.2**	**11.2**	**7.8**	620.; 700.
Toluene	**20.6**	**116.**	ND	**1,640.**	**10.1**	ND	ND	ND(1.)	**22.5**	**1.1**	ND(1.)	ND(1.)	2,420.; 1,000.
Xylenes	**1,020.**	**520.**	**1,560.**	**3,020.**	**352.**	**9.4**	ND	**3.1**	**1,340.**	**31.3**	**7.9**	**4.0**	400.; 10,000.
Total BTEX	**1,340.**	**819.**	**3,780.**	**5,251.**	**894.**	**23.2**	ND	**5.4**	**2,913.**	**76.6**	**19.1**	**12.9**	--
MTBE	**131.**	ND	ND	ND	ND	ND	ND	ND(10.)	**TBQ(200.)**	**15.6**	ND(10.)	ND(10.)	none; 40.
Ground Water Elevation				99.72	97.54	99.29	100.85	99.29	95.89	101.75	99.26	97.88	--

M8021B PARAMETER	Sampling Date												VGES
	7/13/1999	*7/11/2000*	*6/25/2001*	*7/18/2002*	*7/17/2003*	*7/16/2004*	*7/13/2005*	*7/13/2006*	*7/12/2007*	*7/31/2008*	*7/24/2009*	*7/13/2010*	
MTBE	ND(100.)	ND(10.0)	ND(40.0)	**4.4**	ND(100.)	ND(40.0)	**10.7**	ND(20.0)	ND(10.0)	ND(20.0)	ND(20.0)	ND(40.0)	40.
Benzene	**25.7**	ND(1.0)	**7.1**	**61.8**	**253.**	**174.**	**42.8**	ND(10.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(20.0)	5.
Toluene	**56.2**	ND(1.0)	**15.6**	**52.7**	**111.**	**23.2**	**32.4**	**10.9**	**19.2**	**19.4**	ND(10.0)	ND(20.0)	1,000.
Ethylbenzene	**724.**	**9.1**	**200.**	**227.**	**286.**	**473.**	**426.**	**135.**	**454.**	**518.**	**318.**	**881.**	700.
Xylenes	**484.**	**6.7**	**132.**	**253.**	**672.**	**425.**	**473.**	**173.**	**561.**	**660.**	**499.**	**1,090.**	10,000.
1,3,5-Trimethylbenzene	ND(10.0)	**1.1**	**19.6**	**50.9**	**111.**	ND(20.0)	**36.1**	**33.7**	**72.6**	**277.**	**208.**	**491.**	350.
1,2,4-Trimethylbenzene	**165.**	**3.4**	**43.5**	**171.**	**360.**	**247.**	**343.**	**124.**	**367.**	**722.**	**771.**	**1,980.**	
Naphthalene	**263.**	**8.9**	**67.6**	**133.**	**132.**	**130.**	**159.**	**58.9**	**152.**	**295.**	**184.**	**448.**	20.
Total BTEX	**1,290.**	**15.8**	**355.**	**595.**	**1,322.**	**1,095.**	**974.**	**319.**	**1,034.**	**1,197.**	**817.**	**1,971.**	--
Total Reported VOCs (M8021B)	**1,718.**	**29.2**	**485.**	**954.**	**1,925.**	**1,472.**	**1,523.**	**536.**	**1,626.**	**2,491.**	**1,980.**	**4,890.**	--
Ground Water Elevation	94.26	98.59	99.26	96.60	96.13	96.88	98.76	99.09	97.88	98.10	100.06	96.78	--

M8021B PARAMETER	Sampling Date												VGES
	8/3/2011												
MTBE													40.
Benzene	No												5.
Toluene	Sample												1,000.
Ethylbenzene	Collected												700.
Xylenes													10,000.
1,3,5-Trimethylbenzene	Well												350.
1,2,4-Trimethylbenzene	Not												
Naphthalene	Located												20.
Total BTEX													--
Total Reported VOCs (M8021B)													--
Ground Water Elevation													--

NOTES:
Results reported above detection limits are indicated in **bold**.
VGES - Vermont Groundwater Enforcement Standards
VGES values are time specific; where two values are given, the first is pre-11/97 and the second is post-11/97.
Values greater than the VGES (Table 1 of the Groundwater Protection Rule and Strategy) are shaded. **>VGES**
EPA Method 602 used for laboratory analysis through 6/98
EPA Method 8021B used for laboratory analysis 7/99 and later
All values reported in ug/l (ppb) unless otherwise noted
ND(X) - Not Detected (Detection Limit)
TBQ(X) - Trace Below Quantitation Limit (Quantitation Limit)
NA - Not analyzed for this parameter
NS - Not Sampled
FP - Free Product
Data from 9/24/93 to 7/16/04 was collected by Griffin International, Inc.


KAS
Clarendon General Store, East Clarendon, VT
MW-17 Contaminant Concentrations and Water Levels
Total BTEX
Total Reported VOCs (M8021B)
Ground Water Elevation
Concentration ug/L
Groundwater Elevation (ft)
Date
5,500.
5,000.
4,500.
4,000.
3,500.
3,000.
2,500.
2,000.
1,500.
1,000.
500.
0.
102.
101.
100.
99.
98.
97.
96.
95.
94.
93.
92.
91.
Apr-92
Apr-94
Apr-96
Apr-98
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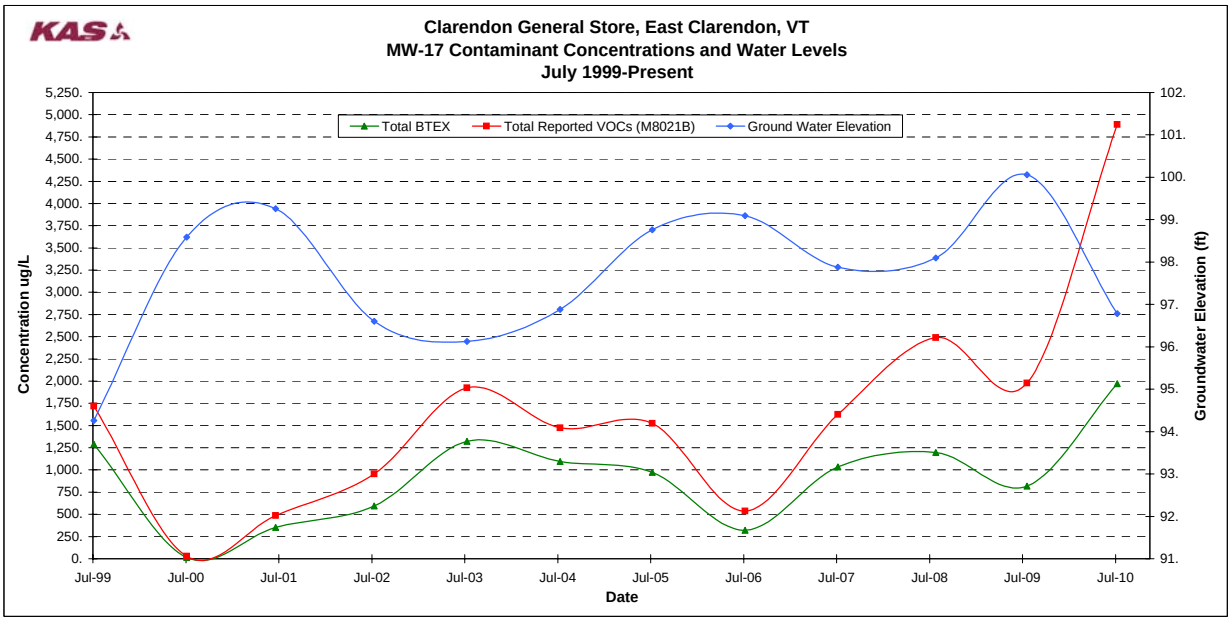
Apr-04
Apr-06
Apr-08
Apr-10


KAS
Clarendon General Store, East Clarendon, VT
MW-17 Contaminant Concentrations and Water Levels
July 1999-Present
Total BTEX
Total Reported VOCs (M8021B)
Ground Water Elevation
Concentration ug/L
Groundwater Elevation (ft)
Date
5,250.
5,000.
4,750.
4,500.
4,250.
4,000.
3,750.
3,500.
3,250.
3,000.
2,750.
2,500.
2,250.
2,000.
1,750.
1,500.
1,250.
1,000.
750.
500.
250.
0.
102.
101.
100.
99.
98.
97.
96.
95.
94.
93.
92.
91.
Jul-99
Jul-00
Jul-01
Jul-02
Jul-03
Jul-04
Jul-05
Jul-06
Jul-07
Jul-08
Jul-09
Jul-10

Monitoring Date: 8/3/11

PARAMETER	Trip Blank	MW-7	Duplicate (MW-7)	RPD (%)
MTBE	NA	ND(4.0)	ND(4.0)	**n/a**
Benzene	NA	**3.0**	**2.6**	**14.3**
Toluene	NA	**8.0**	**7.1**	**11.9**
Ethylbenzene	NA	**93.8**	**81.3**	**14.3**
Xylenes	NA	**187**	**177**	**5.5**
1,3,5-TMB*	NA	**2.5**	**2.7**	**-7.7**
1,2,4-TMB*	NA	**162**	**148**	**9.0**
Naphthalene	NA	**44.6**	**40.3**	**10.1**
Total Reported VOCs (M8021B)	NA	**501**	**459**	**8.7**

The results of the laboratory analysis of the duplicate sample were analyzed using a relative percent difference (RPD) analysis. The RPD is defined as 100 times the difference in reported concentration between sample and duplicate, divided by the mean of the two samples. A small RPD indicates good correlation between sample and duplicate.

NOTES:

Results reported above detection limits are indicated in **bold**.

VGES - Vermont Groundwater Enforcement Standards (Table 1 of the GW Protection Rule and Strategy)

Values greater than the VGES are shaded. **>VGES**

EPA Method 8021B used for laboratory analysis 7/99 and later

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

ND(X) - Not Detected (Detection Limit)

TBQ(X) - Trace Below Quantitation Limit (Quantitation Limit)

NA - Not analyzed for this parameter

n/a - Not Applicable

NS - Not Sampled

APPENDIX D

Laboratory Analytical Report

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

KAS, Inc.	100306
PO Box 787	
Williston, VT 05495	
Atten: Sam Driver	

PROJECT: 410040082 Clarendon Gen Store
WORK ORDER: **1108-11054**
DATE RECEIVED: August 04, 2011
DATE REPORTED: August 15, 2011
SAMPLER: Sam Driver

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

CLIENT: KAS, Inc.
PROJECT: 410040082 Clarendon Gen Store
REPORT DATE: 8/15/2011

WORK ORDER: **1108-11054**
DATE RECEIVED: 08/04/2011

TEST METHOD: EPA 8021B

001 Site: MW-16 Date Sampled: 8/3/11 12:10 Analysis Date: 8/11/11 W RBF

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	N		Benzene	< 1.0	ug/L	N	
Toluene	< 1.0	ug/L	N		Ethylbenzene	< 1.0	ug/L	N	
Xylenes, Total	< 2.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	N	
1,2,4-Trimethylbenzene	< 1.0	ug/L	N		Naphthalene	< 2.0	ug/L	N	
Surr. 1 (Bromobenzene)	98	%	N		Unidentified Peaks	0		N	

TEST METHOD: EPA 8021B

002 Site: MW-7 Date Sampled: 8/3/11 12:26 Analysis Date: 8/11/11 W RBF

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 4.0	ug/L	N		Benzene	3.0	ug/L	N	
Toluene	8.0	ug/L	N		Ethylbenzene	93.8	ug/L	N	
Xylenes, Total	187	ug/L	N		1,3,5-Trimethylbenzene	2.5	ug/L	N	
1,2,4-Trimethylbenzene	162	ug/L	N		Naphthalene	44.6	ug/L	N	
Surr. 1 (Bromobenzene)	92	%	N		Unidentified Peaks	> 10		N	

TEST METHOD: EPA 8021B

003 Site: Duplicate (MW-7) Date Sampled: 8/3/11 12:26 Analysis Date: 8/11/11 W RBF

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 4.0	ug/L	N		Benzene	2.6	ug/L	N	
Toluene	7.1	ug/L	N		Ethylbenzene	81.3	ug/L	N	
Xylenes, Total	177	ug/L	N		1,3,5-Trimethylbenzene	2.7	ug/L	N	
1,2,4-Trimethylbenzene	148	ug/L	N		Naphthalene	40.3	ug/L	N	
Surr. 1 (Bromobenzene)	91	%	N		Unidentified Peaks	> 10		N	

TEST METHOD: EPA 8021B

004 Site: Trip Blank Date Sampled: 8/3/11 08:15 Analysis Date: 8/10/11 W RBF

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	N		Benzene	< 1.0	ug/L	N	
Toluene	< 1.0	ug/L	N		Ethylbenzene	< 1.0	ug/L	N	
Xylenes, Total	< 2.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	N	
1,2,4-Trimethylbenzene	< 1.0	ug/L	N		Naphthalene	< 2.0	ug/L	N	
Surr. 1 (Bromobenzene)	100	%	N		Unidentified Peaks	0		N	

TEST METHOD: EPA 524.2

005 Site: Corey-Influent Date Sampled: 8/3/11 14:20 Analysis Date: 8/10/11 W RBF

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 0.5	ug/L	A		Benzene	< 0.5	ug/L	A	
Toluene	< 0.5	ug/L	A		Ethylbenzene	< 0.5	ug/L	A	
Xylenes, Total	< 1.0	ug/L	A		Isopropylbenzene	< 0.5	ug/L	A	
n-Propylbenzene	< 0.5	ug/L	A		1,3,5-Trimethylbenzene	< 0.5	ug/L	A	
1,2,4-Trimethylbenzene	< 0.5	ug/L	A		s-Butylbenzene	< 0.5	ug/L	A	
4-Isopropyltoluene	< 0.5	ug/L	A		n-Butylbenzene	< 0.5	ug/L	A	
Naphthalene	< 0.5	ug/L	N		Surr. 1 (4-Bromofluorobenzene)	92	%	A	
Surr. 2 (1,2-Dichlorobenzene d4)	84	%	A		Unidentified Peaks	0		U	

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

CHAIN-OF-CUSTODY-RECORD

52103

Special Reporting Instructions/PO#: KAS # 410040082

Project Name: Clarendon General Store	Client/Contact Name: KAS, Inc Phone #: 802-383-0486	Sampler Name: Sam Driver Phone #: 802-383-0486
State of Origin: (VT) NY NH Other	Mailing Address: Williston, VT	Billing Address: Williston, VT
Endyne WO # 1108-11054		

Sample Location	Matrix	GRAB	COMP	Date/Time Sampled	Sample Containers No.	Sample Containers Type/Size	Sample Preservation	Analysis Required	FieldResults/Remarks	Due Date
MW-16	H_2O	X		8/3/2011 12:10	2	40mL	HCl	19		
MW-7	H_2O	X		8/3/2011 12:26	2	40mL	HCl	19		
Duplicate (MW-7)	H_2O	X		8/3/2011 12:26	2	40mL	HCl	19		
Trip Blank	H_2O	X		8/3/2011 8:15	2	40mL	HCl	19		
Corey - Influent	H_2O	X		8/3/2011 14:20	SD 1	40mL	HCl	33		
Corey - Midpoint	H_2O	X		8/3/2011 14:20	SD 1	40mL	HCl	33		
Corey - Effluent	H_2O	X		8/3/2011 14:20	1	40mL	HCl	37		
Ward - Influent	H_2O	X		8/3/2011 14:49	1	40mL	HCl	33		
Ward - Midpoint	H_2O	X		8/3/2011 14:49	1	40mL	HCl	33		
Ward - Effluent	H_2O	X		8/3/2011 14:49	1	40mL	HCl	37		

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Sam D	8/3/2011 18:30	Jolene M Thum	8/4/11 1035	[illegible]	8/4/11 1050

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	(19)	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					(33)	Other Method 503.1				
34	Corrosivity	35	Ignitability	36	Reactivity	(37)	Other Method 524.2				
38	Other										

LAB USE ONLY
Delivery: Client
Temp: 3.8
Comment:

(White - Laboratory / Yellow - Client)

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

CHAIN-OF-CUSTODY-RECORD

52104

Special Reporting Instructions/PO#: KAS # 4110410082

Project Name: Clarendon General Store	Client/Contact Name: KAS, Inc Phone #: 802-383-0486	Sampler Name: Sam Driver Phone #: 802-383-0486
State of Origin: (VT) __ NY __ NH __ Other __	Mailing Address: Williston, VT	Billing Address: Williston, VT
Endyne WO # 1108-11054		

Sample Location	Matrix	GRAB	COMP	Date/Time Sampled	Sample Containers No.	Sample Containers Type/Size	Sample Preservation	Analysis Required	FieldResults/Remarks	Due Date
Whispering Pines- Influent	H_2O	X		8/3/2011 / 15:15	1	40mL	HCl	33		
Whispering Pines- Effluent	H_2O	X		8/3/2011 / 15:15	1	40mL	HCl	37		
Trip Blank	H_2O	X		8/3/2011 / 8:15	1	40mL	HCl	37		

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
S. D.	8/3/2011 18:32	John M Turner	8/4/11 1035	Julie Parker	8/4/11 1050

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	19	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					(33)	Other Method 503.1				
34	Corrosivity	35	Ignitability	36	Reactivity	(37)	Other Method 524.2				
38	Other										

LAB USE ONLY
Delivery: Client
Temp: 3.8°C
Comment:

(White - Laboratory / Yellow - Client)