

ROSS ENVIRONMENTAL ASSOCIATES, INC.

Hydrogeology, Water Quality, GIS Planning, Remediation, Regulatory
Compliance & Permitting, Environmental Site Assessments, Petroleum
Investigations, and Radon Mitigation



16 July 2012

Mr. Gilles Desjarlais
Desjarlais Fuels
P.O. Box 99
Troy, Vermont 05868

RE: *Groundwater Quality Monitoring Report – June 2012*
Former Newport Center Corner Store (SMS site # 2007-3636)

Dear Mr. Desjarlais,

On 8 June 2012, Ross Environmental Associates, Inc. (**R.E.A.**) completed groundwater quality sampling at the Former Newport Center Corner Store located on the corner of Vermont Route 105 and Cross Road in Newport Center, Vermont (**Figure 1 & Figure 2**, Attachment A). This annual sampling event was completed as outlined in a letter from the state project manager, Gerold Noyes, dated 1 November 2011. The sampling event was completed in accordance with the Vermont Department of Environmental Conservation (VT DEC) guidelines.

Contaminant concentrations in groundwater beneath the site continue to remain above the Vermont Groundwater Enforcement Standard (VGES). The highest concentration of petroleum contamination was detected in the sample collected from MW-3, which is located on the eastern side of the building parking lot in the vicinity of the former pump island (**Figure 3**, Attachment A). In accordance with the VT DEC's request, MW-4 and MW-5 were not sampled based on previous non-detect sampling events.

The findings of this sampling event are summarized below:

- Samples were not collected from MW-4, and MW-5.
- The VGES for naphthalene was exceeded in the groundwater sample collected from MW-2a.
- The VGES for methyl-tert-butyl-ether (MtBE), benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene were exceeded in the MW-3 sample.
- The VGES for benzene was exceeded in sample MW-8R.
- Toluene, ethylbenzene, and total xylenes were detected below their corresponding VGESs in the MW-2a, MW-3 and MW-8R samples.
- MtBE, benzene, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene were detected below the corresponding VGES in the MW-2a sample.
- 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and naphthalene were detected below the corresponding VGESs in the MW-8R sample.
- No volatile petroleum compounds were detected above laboratory method detection limits in the groundwater samples collected from MW-6 and MW-7.
- MW-1 was not sampled during the May 2012 sampling event because it was unable to be located and possibly destroyed with the addition of a mulched area in the vicinity of the well.
- Groundwater flow in the unconfined surficial aquifer at the site was generally toward the south.

A copy of site maps showing approximate monitoring well locations (**Figure 3**), ground water flow direction (**Figure 4**), and contaminant distribution (**Figure 5**) are included in Attachment A. Tables summarizing ground-water elevation data (**Table 1**), groundwater analytical results (**Table 2**) and field measurement data (**Table 3**) are included in Attachment B. Time-series graphs summarizing historical water quality data are included in Attachment C, and laboratory analytical reports are included in Attachment D.

Ground-Water Elevations and Flow Direction

On 8 June 2012, the ground-water flow in the unconfined surficial aquifer at the site was toward the south-southwest, with an average estimated hydraulic gradient of approximately seven percent (between MW-3 and MW-2A). Water-level measurements were collected from the monitoring wells to assist in determining an accurate groundwater flow direction. Water-level measurements and elevation calculations for 8 June 2012 and are presented in **Table 1**, Attachment B. On 8 June 2012, ground-water depths ranged from 4.02 (MW-2A) to 7.80 (MW-7) feet below the top of casing (TOC). Static water-table elevations were computed for each monitoring well by subtracting the corrected or measured depth-to-water readings from the surveyed top-of-casing (TOC) elevations, which are relative to an arbitrary site datum of 100.00 feet.

Ground-Water Sampling and Analysis

Contaminant concentrations in groundwater beneath the site continue to remain above the Vermont Groundwater Enforcement Standards (VGESs)¹ for several volatile petroleum compounds. Total petroleum contaminant concentrations in MW-2a showed a decrease from 670 micrograms per Liter (ug/L) during the June 2011 sampling event to 261 ug/L during the June 2012 sampling event. Total contaminant concentrations in MW-8R showed an increase from 89.6 ug/L in the June 2011 sampling event, to 115.1 ug/L in the June 2012 sampling event. Total contaminant concentrations in MW-3 increased significantly from 3,187 ug/L in June 2011 to 6,454 ug/L in June 2012.

Benzene was detected at 4,300 and 22 micrograms per liter ($\mu\text{g/L}$) in MW-3 and MW-8R, respectively, which exceed the corresponding VGES of 5.0 $\mu\text{g/L}$. Naphthalene was detected at 43 and 80 $\mu\text{g/L}$ in MW-2a and MW-3, respectively, which exceed the corresponding VGES of 20 $\mu\text{g/L}$. Methyl-tert-Butyl-Ether (MtBE) was detected at 1,200 $\mu\text{g/L}$ in MW-3, which exceeds the corresponding VGES of 40 $\mu\text{g/L}$. 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene were detected at 48 and 410 $\mu\text{g/L}$, respectively, in MW-3 which when combined exceed the combined VGES of 350 $\mu\text{g/L}$.

Contaminant concentrations for toluene, ethylbenzene, total xylenes, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene were detected below their corresponding VGESs in the MW-2a, and MW-8R samples. Contaminant concentrations for MtBE were detected below the corresponding VGES in the MW-2a sample. 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene were detected below the corresponding VGES in the MW-2a sample. 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and naphthalene were detected below the corresponding VGESs in the MW-8R sample. Contaminant concentrations for MW-6 and MW-7 were all below laboratory method detection limits.

No volatile petroleum compounds were detected above laboratory method detection limits in the trip-blank sample and analytical results for the blind field duplicate, collected from MW-3, were within the EPA's acceptable difference of 30% of the original sample. The groundwater analytical results are presented in **Table 2**, Attachment B and time-series graphs summarizing historical water quality data are included in Attachment C. Copies of the laboratory analytical reports are included as Attachment D.

Prior to sample collection, **R.E.A** field personnel measured the product thickness/water level in each monitoring well and purged approximately three to five standing volumes of water from each well prior to

¹The Vermont DEC has established groundwater enforcement standards for eight petroleum related VOCs, as follows: benzene - 5 ug/L; toluene - 1,000 ug/L; ethylbenzene - 700 ug/L; xylenes - 10,000 ug/L; MtBE - 40 ug/L; naphthalene - 20 ug/L and 1,3,5-trimethyl benzene & 1,2,4-trimethyl benzene - 350 ug/L combined .

recharge and sampling. Monitoring well samples were collected either by pumping water through dedicated Teflon tubing directly from the well using a peristaltic pump or pouring water directly from dedicated bailer into 40-milliliter glass vials with Teflon-lined septum lids. Each sample vial was preserved with hydrochloric acid to reduce the pH to less than 2 standard units (su). Immediately after sample collection, field measurements were obtained for pH, specific conductivity, temperature, total dissolved solids (TDS) and oxidation reduction potential (ORP). A summary of the field measurement data is included on **Table 3**, in Attachment B.

This sampling event included the collection of groundwater samples from four onsite monitoring wells (MW-2A, MW-3, MW-6, and MW-8R) and one adjacent off-site well (MW-7). MW-4 and MW-5 were not sampled per the VT DEC request to not sample off-site wells with five consecutive sampling rounds being non-detect (ND). This sampling event was the fifth consecutive ND for the adjacent, off-site MW-7. MW-1 was not sampled because it could not be located, due to excessive landscaping in the vicinity. The well may have been destroyed. All samples were analyzed for the possible presence of volatile petroleum compounds in accordance with U.S. EPA Method 8021B. All samples were shipped under chain-of-custody in an ice-filled cooler to AMRO Laboratories, Inc. of Merrimack, New Hampshire for laboratory analysis.

Recommendations

Based on the enclosed data, **R.E.A.** recommends the following:

1. Groundwater monitoring should continue on an annual basis with the next sampling event being conducted in June 2013. Samples should be collected from monitoring wells MW-1 (if possible), MW-2a, MW-3, MW-6, and MW-8R and analyzed for the possible presence of volatile petroleum compounds in accordance with U.S. EPA Method 8021B.
2. MW-7 should be removed from the list of sampled wells due to the fifth consecutive sampling event with no volatile petroleum compounds detected.
3. Depth to water (DTW) measurements should be collected from the off-site MW-4, MW-5, and MW-7 during the June 2013 sampling event to aid in groundwater flow calculations.
4. A summary report should be completed following the completion of the next groundwater sampling event, which should include a summary of significant field observations, appropriate figures depicting ground water flow and contaminant distribution, and recommendations for future monitoring.

Please call me if you have any questions or concerns regarding the enclosed data or recommendations.

Sincerely,
Ross Environmental Associates, Inc.

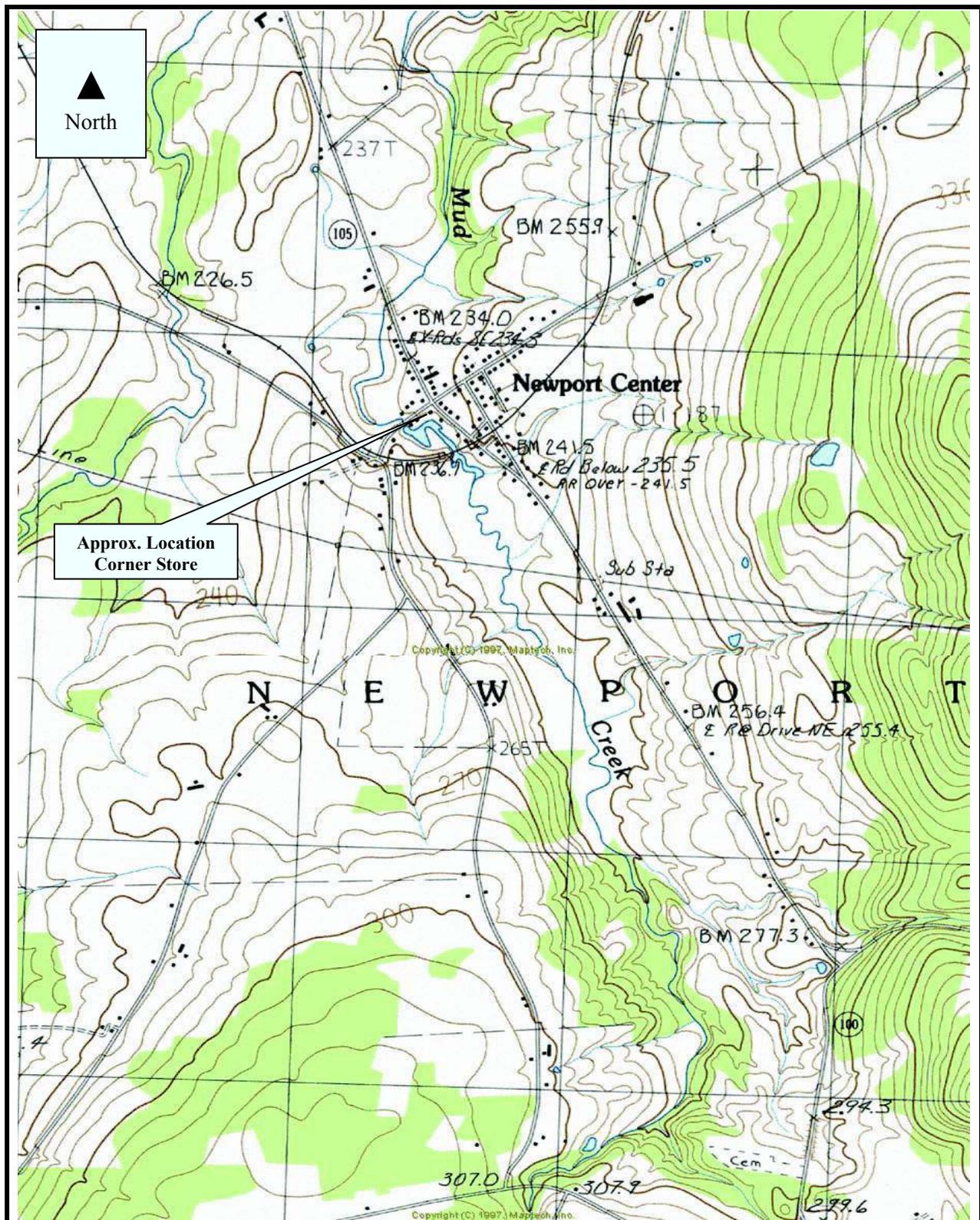


James Gascoyne
Senior Scientist

Attachments

Cc. Mr. Gerold Noyes - VT DEC
Mr. Roland Brassuer – Property Owner

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Approximate Scale: 1 inch = 1,400 feet

Site Coordinates: 44° 59' 42.0" N, 72° 23' 47.3" W

Source: USGS 1981. Newport Center Quadrangle, VT.
 Provisional Edition 1986. (7.5 minute series)
 Topographic map. Maptech, Inc. 1998.
 R.E.A. Project No. 26-136

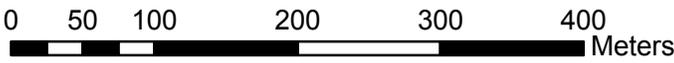
Figure 1
 Site Location Map
 Newport Center Corner Store
 Newport Center, Vermont

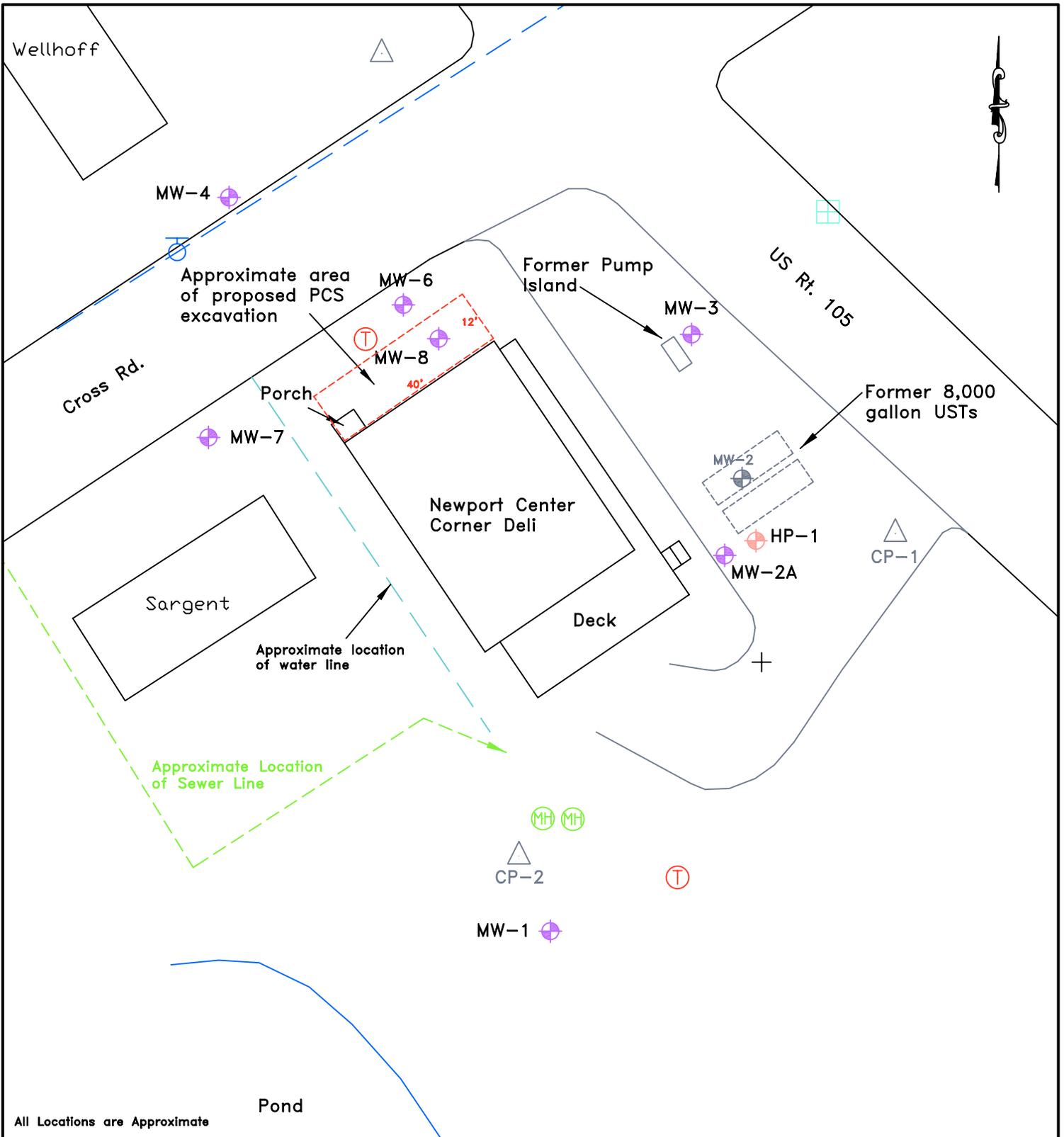


Former Newport Center Corner Store

Figure 2
Former Newport Center Corner Store
Intersection of VT Route 105/Cross Road
Newport Center, VT

Map Source:
Orthophotograph # 4407206
USDA. Photo Date. 2003





All Locations are Approximate

	Monitoring Well Location		Utility Pole
	Underground Grease Trap		Catch Basin
	Water Line Curb Stop		Sewer Manhole
	Survey Point		Hand point
	Former Monitoring Well Location (destroyed during excavation)		

Scale: 1" = 30'

Date: 10 January 2009

File Name: 26-136fig

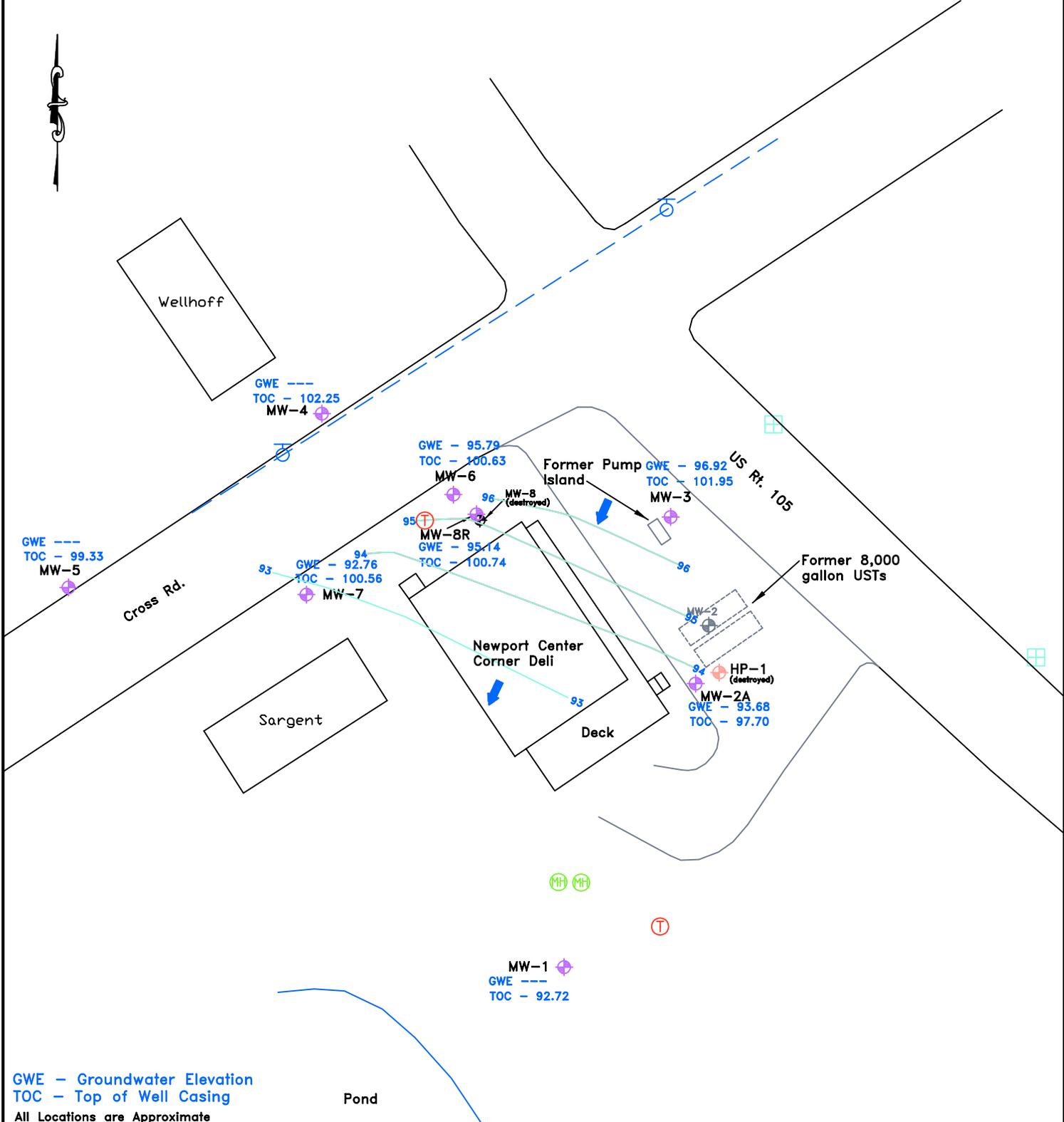
Drawn By: MBM

FIGURE 3.
PROPOSED AREA OF EXCAVATION
 (with monitoring well locations)

Newport Center Corner Deli - Newport Center, VT



Ross Environmental Associates, Inc.
 P.O. Box 1533 Stowe, Vt 05672
 (802) 253-4280



GWE - Groundwater Elevation
 TOC - Top of Well Casing
 All Locations are Approximate

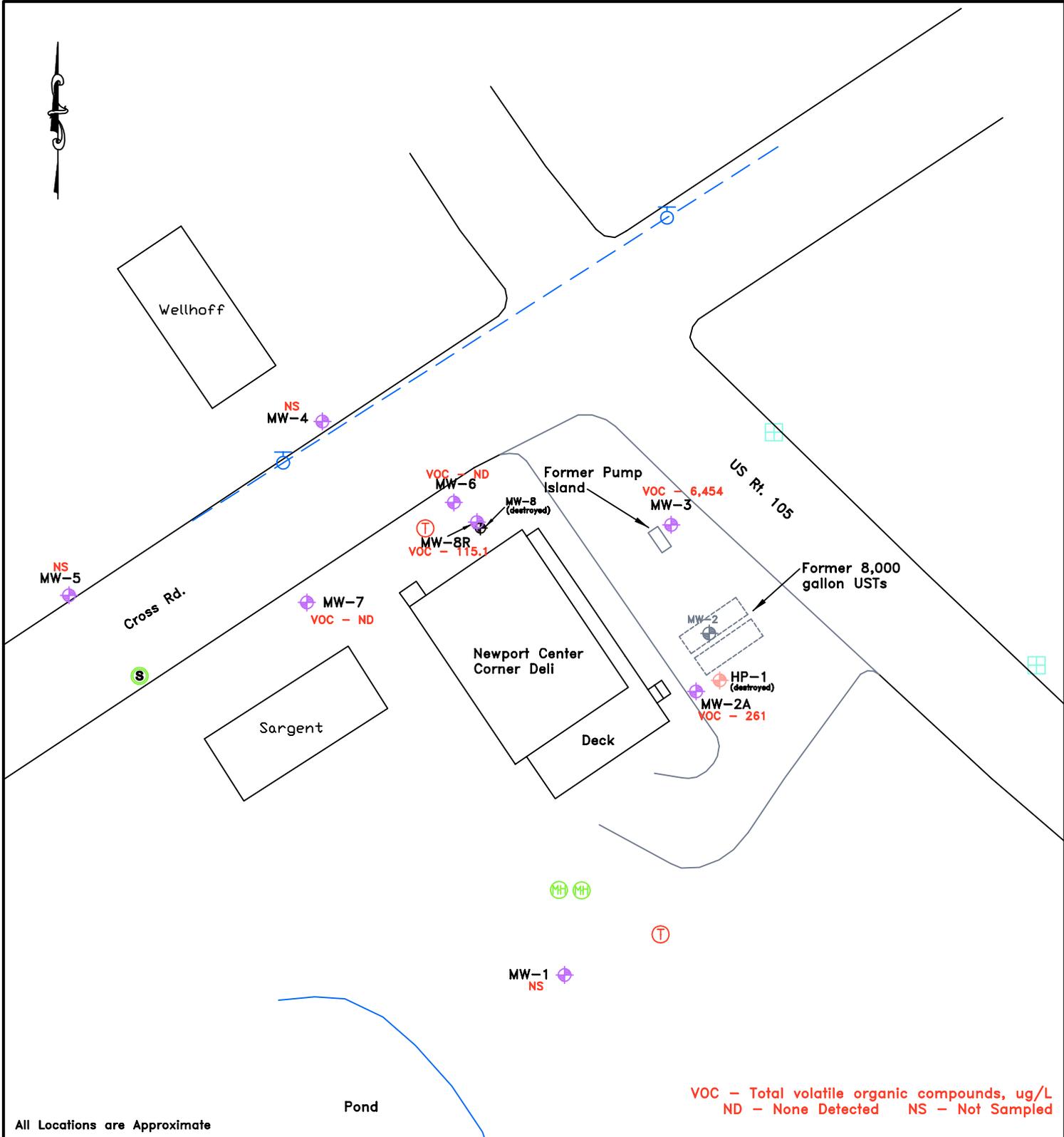
<ul style="list-style-type: none"> Monitoring Well Location Underground Grease Trap Water Line Curb Stop Survey Point Former Monitoring Well Location (destroyed during excavation) 	<ul style="list-style-type: none"> Utility Pole Catch Basin Sewer Manhole Hand point
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Scale: 1" = 40'	Date: 8 July 2009
File Name: 26-136fig	Drawn By: MBM

FIGURE 4.
GROUND WATER DISTRIBUTION
 (Monitoring Date: 8 June 2012)
 Newport Center Corner Deli - Newport Center, VT



Ross Environmental Associates, Inc.
 P.O. Box 1533 Stowe, Vt 05672
 (802) 253-4280



All Locations are Approximate

	Monitoring Well Location		Utility Pole
	Underground Grease Trap		Catch Basin
	Water Line Curb Stop		Sewer Manhole
	Survey Point		Hand point
	Former Monitoring Well Location (destroyed during excavation)		

Scale: 1" = 40' Date: 8 July 2009

File Name: 26-136fig Drawn By: MBM

FIGURE 5.
CONTAMINANT DISTRIBUTION
 (Monitoring Date: 8 June 2012)
 Newport Center Corner Deli - Newport Center, VT



Ross Environmental Associates, Inc.
 P.O. Box 1533 Stowe, Vt 05672
 (802) 253-4280

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TABLE 1
GROUND WATER ELEVATION CALCULATIONS

Former Newport Center Corner Store
Newport Center, Vermont

Monitoring Date: 8 June 2012

Well I.D.	Top of Casing Elevation (ft)	Depth to Water (feet, TOC)	Water Table Elevation (ft)
MW-1	92.72	Unable to locate	
MW-2A	97.70	4.02	93.68
MW-3	101.95	5.03	96.92
MW-4	102.25	-	-
MW-5	99.33	-	-
MW-6	100.63	4.84	95.79
MW-7	100.56	7.80	92.76
MW-8R	100.74	5.60	95.14

All values reported in feet relative to arbitrary site datum of 100.00 feet
Site resurveyed after excavation activities near MW-8, (now MW-8R) on 8 July 2009

**TABLE 2
GROUND-WATER ANALYTICAL RESULTS**

Former Newport Center Corner Store
Newport Center, Vermont

Monitoring Date: 8 June 2012

Parameter	MtBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	1,3,5-TMB	1,2,4-TMB	Naphtha-lene	Total VOCs
MW-2A	7.8	3.2	17	33	108	7.6	41	43	261
MW-3	1200	4,300	27	680	909	48	410	80	6,454
MW-6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND
MW-7	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND
MW-8R	ND<1.0	22	17	11	56	8.1	11.0	6.1	125.1
VGES	40	5.0	1,000	700	10,000	350		20	--
QA/QC Samples									
MW-3	1,200	4,300	27	680	909	48	410	80	7,654
Dup (MW-3)	1,200	4,000	19	650	721	27	340	64	7,021
% Difference	0.0	7.0	29.6	4.4	20.7	43.8	17.1	20.0	8.3
Trip Blank	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND

Notes: All results reported as micrograms per liter (µg/L), unless indicated otherwise.
 ND: None detected at indicated detection limit.
 Shaded values indicate exceedance of Vermont Groundwater Enforcement standard (VGES).

**TABLE 3
FIELD MEASUREMENT DATA**

Former Newport Center Corner Store
Newport Center, VT

Monitoring Date: 8 June 2012

Well ID	pH (su)	temperature (°C)	Specific conductivity (µS/cm)	ORP (mV)	TDS (ppm)	Comments
MW-1	Unable to locate due to new playground mulching, possibly destroyed					
MW-2A	7.52	14.1	746	135	366	very mild odor and sheening, purged dry, fair recharge
MW-3	7.96	15.2	693	49	347	mild odor, no sheening
MW-6	7.88	14.3	430	105	215	no odor
MW-7	7.96	15.5	429	149	211	no odor, purged dry, poor recharge, heavy silt present
MW-8R	7.49	14.3	432	116	217	no odor

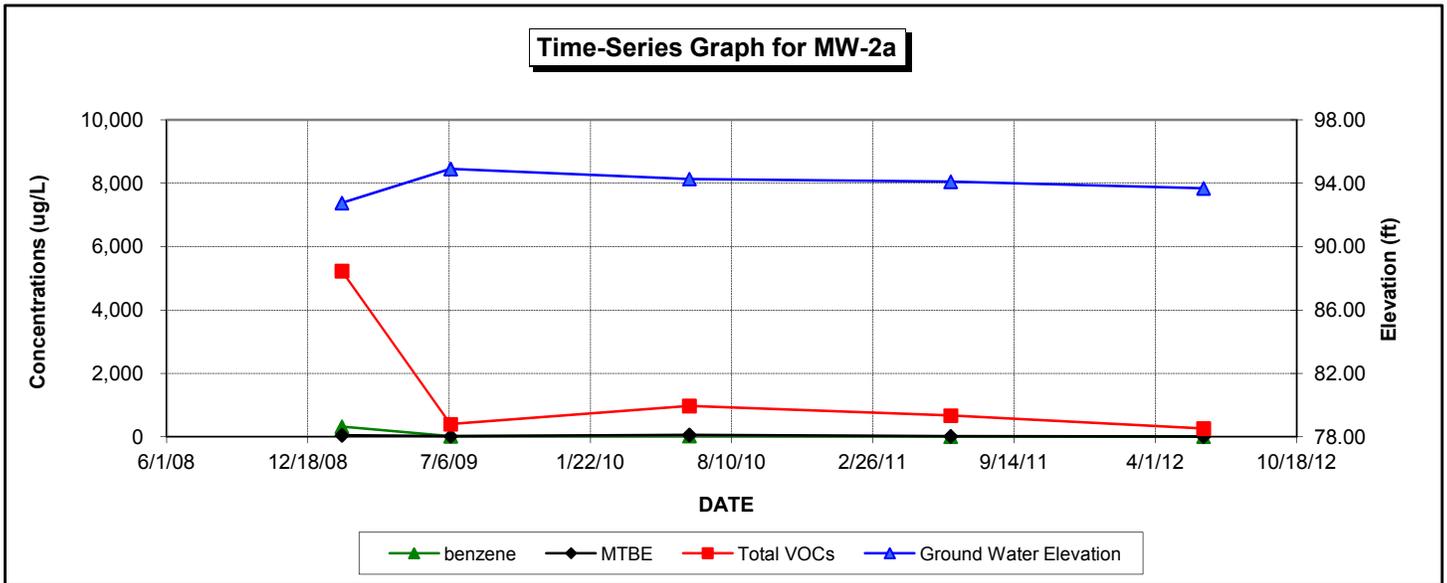
pH reported in standard units (s.u.).

Specific conductivity reported in microsiemens per centimeter (µS/cm) or millisiemens per centimeter (mS/cm).

Oxidation-reduction potential (ORP) reported in millivolts (mV).

Total dissolved solids (TDS) reported in parts per million (ppm) or parts per (ppt) thousand.

ATTACHMENT

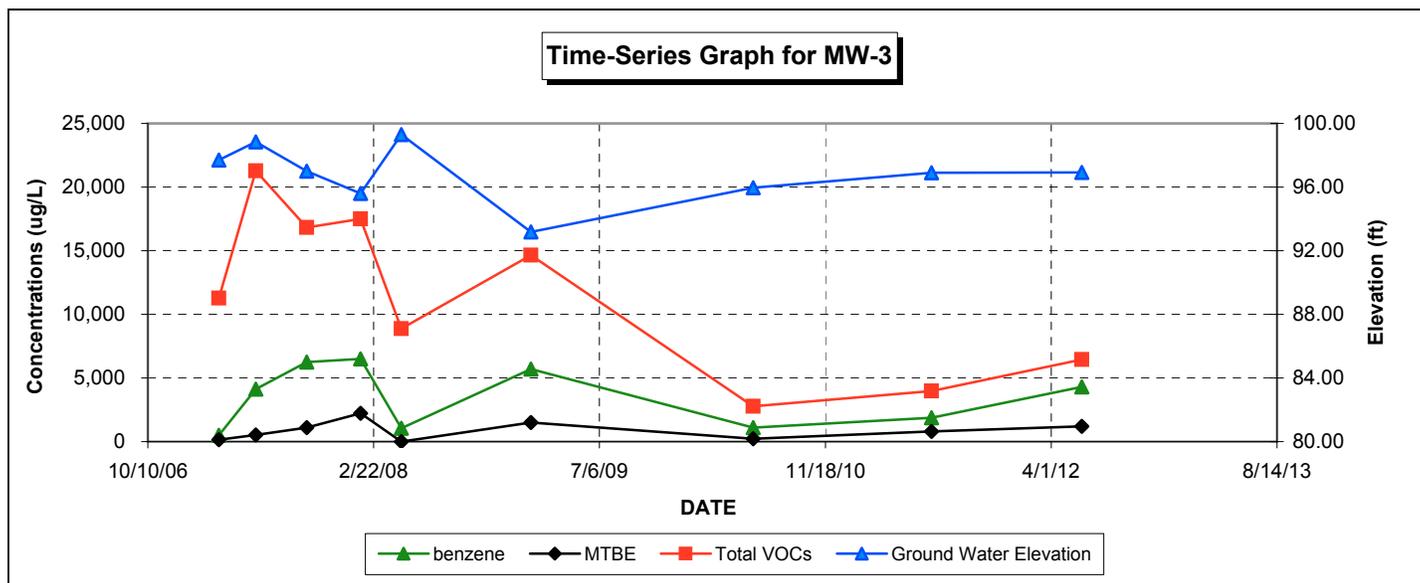


Summary of Ground Water Analytical Results for MW-2a

Former Newport Center Corner Store
Newport Center, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
2/4/2009	47	320	86	1,300	1,980	170	890	440	5,233	92.76
7/8/2009	18	20	120	41	145	14	21	19	398	94.91
6/11/2010	60	26	76	160	420	35	100	95	972	94.27
6/16/2011	17	5.8	78	87	288	32	98	64	670	94.10
6/8/2012	7.8	3.2	17	33	108	7.6	41	43	261	93.68
VGES	40	5.0	1,000	700	10,000	350	20	---	---	---

Notes: Results given in micrograms per liter (µg/L), unless indicated otherwise.
 ND- None detected at indicated detection limit.
 UIP: Unidentified Peaks.
 VGES - Vermont Groundwater Enforcement Standards

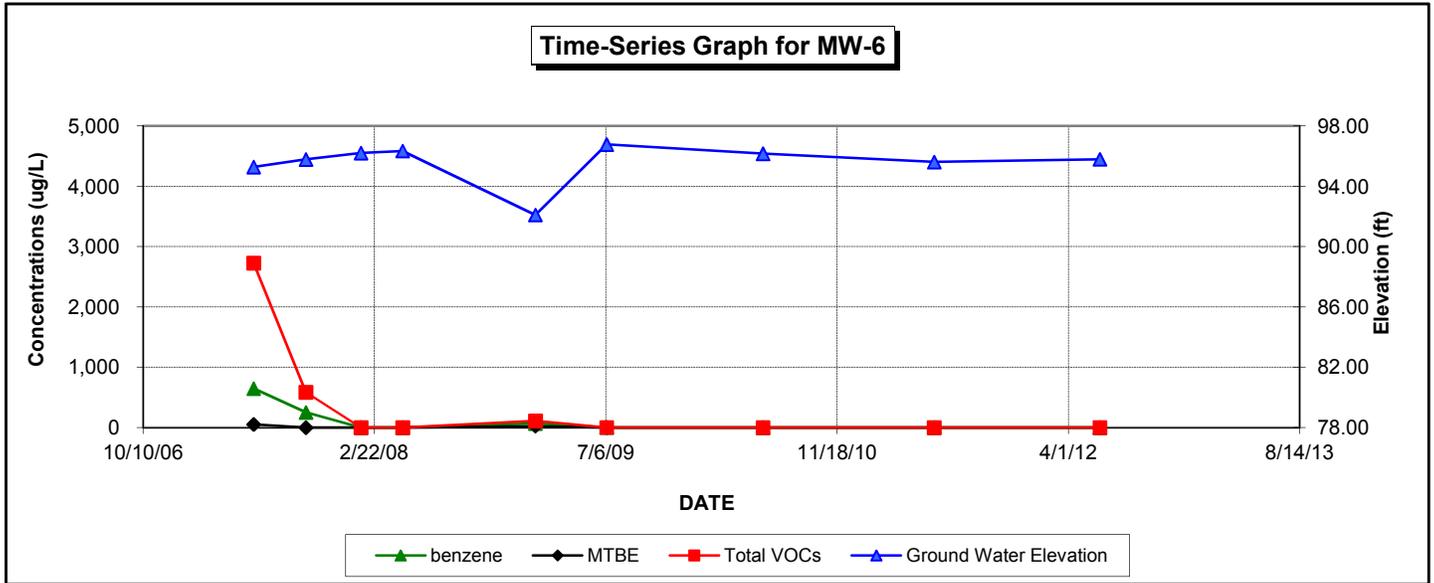


Summary of Ground Water Analytical Results for MW-3

Former Newport Center Corner Store
Newport Center, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
3/16/2007	160	490	1,100	420	5,900	680	2,300	230	11,280	97.71
6/6/2007	519	4,120	4,800	1,800	7,480	649	1,420	479	21,267	98.85
9/27/2007	1,100	6,250	834	1,510	4,430	666	1,670	366	16,826	97.00
1/24/2008	2,220	6,510	1,170	1,500	3,990	547	1,280	283	17,500	95.60
4/23/2008	ND<400	1,050	1,080	871	4,190	605	1,080	ND<400	8,876	99.30
2/4/2009	1,500	5,700	1,700	1,400	3,020	350	800	190	14,660	93.17
6/11/2010	230	1,100	13	330	744	82	230	56	2,785	95.97
7/11/2011	790	1,880	23	352	560	76	241	55	3,977	96.90
6/8/2012	1200	4,300	27	680	909	48	410	80	6,454	96.92
VGES	40	5.0	1,000	700	10,000	350	20	---	---	---

Notes: Results given in micrograms per liter ($\mu\text{g/L}$), unless indicated otherwise.
 ND- None detected at indicated detection limit.
 UIP: Unidentified Peaks.
 VGES - Vermont Groundwater Enforcement Standards

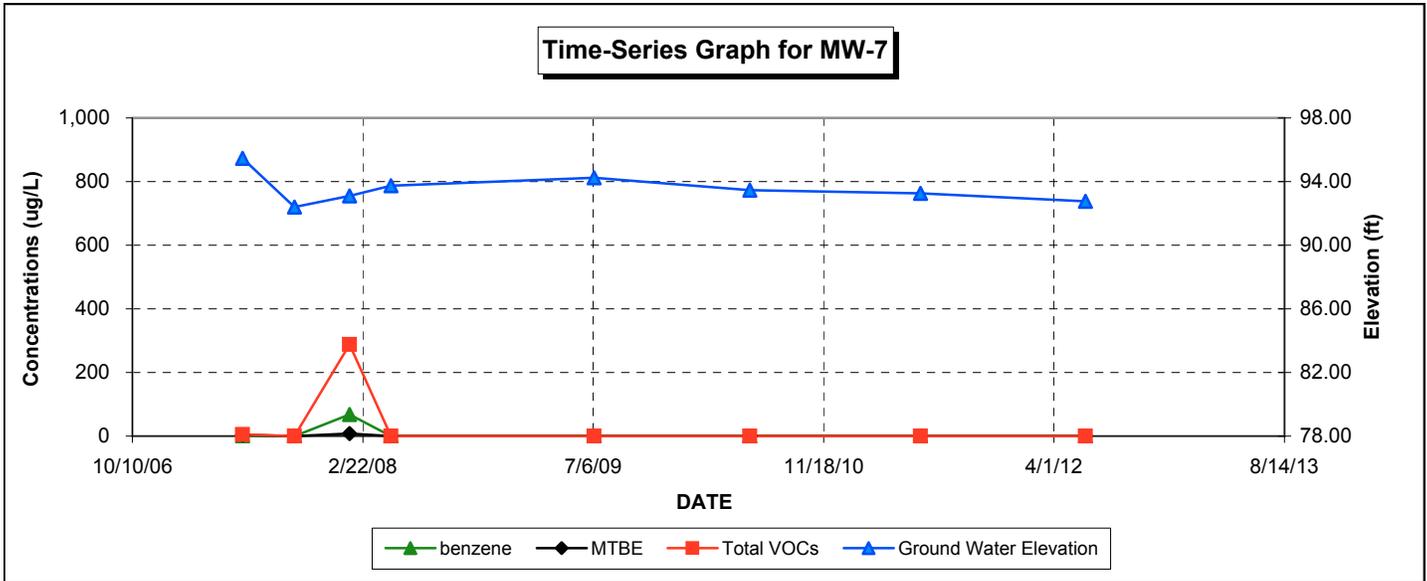


Summary of Ground Water Analytical Results for MW-6

Former Newport Center Corner Store
Newport Center, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
6/6/2007	53	647	128	790	653	134	172	150	2,727	95.28
9/27/2007	<20	251	33.4	129	93.1	22.2	18.8	37.5	585	95.78
1/24/2008	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND	96.21
4/23/2008	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND	96.34
2/4/2009	23	69	3.2	3.4	7.9	ND<1.0	1.6	2.5	111	92.10
7/8/2009	ND<1.0	2.6	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	2.6	96.77
6/11/2010	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	96.16
6/16/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	95.61
6/8/2012	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND	95.79
VGES	40	5.0	1,000	700	10,000	350	20	---	---	---

Notes: Results given in micrograms per liter (µg/L), unless indicated otherwise.
 ND- None detected at indicated detection limit.
 UIP: Unidentified Peaks.
 VGES - Vermont Groundwater Enforcement Standards

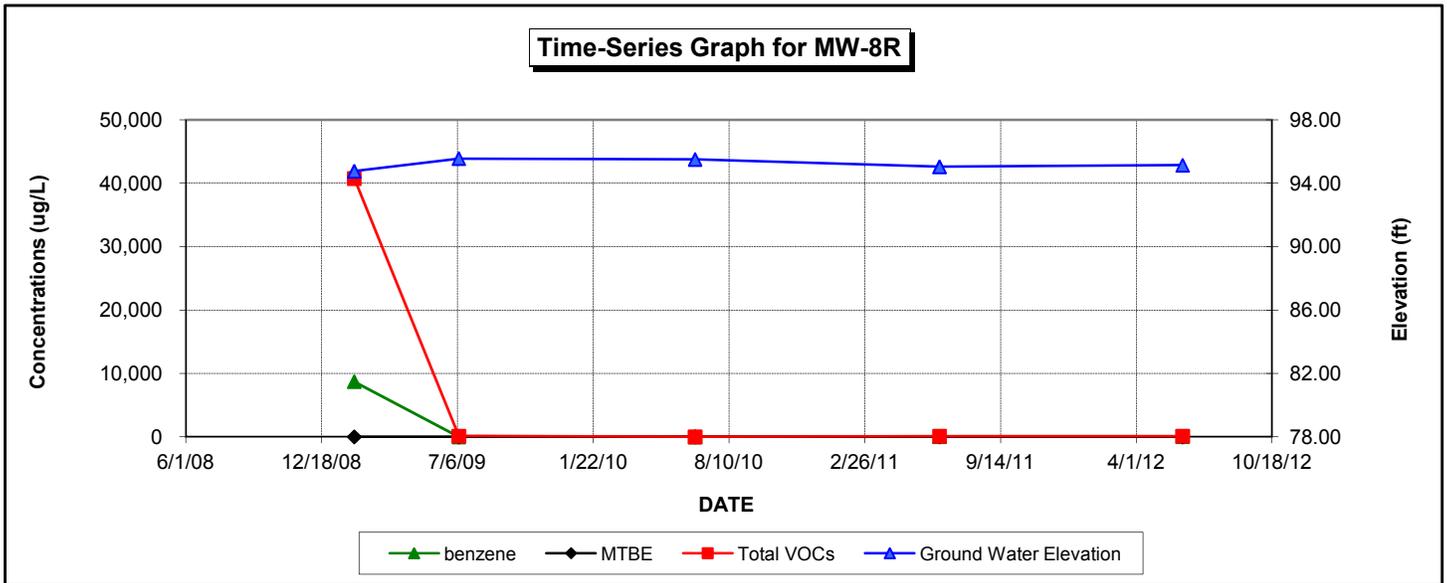


Summary of Ground Water Analytical Results for MW-7

Former Newport Center Corner Store
Newport Center, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
6/6/2007	3.9	1.1	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	5.0	95.46
9/27/2007	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND	92.41
1/24/2008	7.8	67.6	17.2	76.9	68.8	17.4	13.0	19.2	288	93.10
4/23/2008	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND	93.73
7/8/2009	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	94.23
6/11/2010	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	93.45
6/16/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	93.26
6/8/2012	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND	92.76
VGES	40	5.0	1,000	700	10,000	350	20	---	---	---

Notes: Results given in micrograms per liter (ug/L), unless indicated otherwise.
 ND- None detected at indicated detection limit.
 UIP: Unidentified Peaks.
 VGES - Vermont Groundwater Enforcement Standards



Summary of Ground Water Analytical Results for MW-8 vs. MW-8R

Former Newport Center Corner Store
Newport Center, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
2/4/2009	ND<100	8,700	14,000	3,000	11,600	640	2,400	430	40,770	94.76
7/8/2009	ND<1.0	11	30	16	49	14	6.3	3.8	130.1	95.56
6/21/2010	ND<1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0	ND < 1.0	ND < 1.0	ND	95.51
6/16/2011	ND<1.0	15	15	8.4	39	5.7	5	ND < 1.0	88.1	95.04
6/8/2012	ND<1.0	22	17	11	56	8.1	1.0	6.1	115.1	95.14
VGES	40	5.0	1,000	700	10,000	350	20	---	---	---

Notes: Results given in micrograms per liter ($\mu\text{g/L}$), unless indicated otherwise.
 ND- None detected at indicated detection limit.
 UIP: Unidentified Peaks.
 VGES - Vermont Groundwater Enforcement Standards

ATTACHMENT



June 19, 2012

ANALYTICAL TEST RESULTS

Jared Gonyaw
Ross Environmental Associates
P.O. BOX 1533
Stowe, VT 05672
TEL: (802) 253-4280
FAX: (802) 253-4258

Subject: 26-136 Newport Corner Store

Workorder No.: 1206051

Dear Jared Gonyaw:

AMRO Environmental Laboratories Corp. received 7 samples on 6/12/2012 for the analyses presented in the following report.

AMRO is accredited in accordance with NELAC and certifies that these test results meet all the requirements of NELAC, where applicable, unless otherwise noted in the case narrative.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of 60 days from sample receipt date (90 days for samples from New York). After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 16 pages. This letter is an integral part of your data report. All results in this project relate only to the sample(s) as received by the laboratory and documented in the Chain-of-Custody. This report shall not be reproduced except in full, without the written approval of the laboratory. If you have any questions regarding this project in the future, please refer to the Workorder Number above.

Sincerely,

Nancy Stewart
Vice President

State Certifications: NH (NELAC): 1001, MA: M-NH012, CT: PH-0758, NY: 11278 (NELAC), ME: NH012 and 1001.

Hard copy of the State Certification is available upon request.

CLIENT: Ross Environmental Associates
Project: 26-136 Newport Corner Store
Lab Order: 1206051
Date Received: 6/12/2012

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date	Collection Time
1206051-01A	MW-2A	6/8/2012	12:15 PM
1206051-02A	MW-3	6/8/2012	10:45 AM
1206051-03A	MW-6	6/8/2012	11:00 AM
1206051-04A	MW-7	6/8/2012	11:45 AM
1206051-05A	MW-8R	6/8/2012	11:15 AM
1206051-06A	DUP	6/8/2012	12:00 AM
1206051-07A	TB	6/8/2012	4:00 PM

AMRO Environmental Laboratories Corp.

19-Jun-12

Lab Order: 1206051

Client: Ross Environmental Associates

Project: 26-136 Newport Corner Store

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Analytical Test Name	Preparatory Test Name	Prep Date	Batch ID	Analysis Date	TCLP Date
1206051-01A	MW-2A	6/8/2012 12:15:00 PM	Aqueous	EPA 8260B AROMATIC VOCs by GC/MS	EPA 5030B	6/8/2012	6/15/2012 R49081	6/15/2012 R49081	
1206051-02A	MW-3	6/8/2012 10:45:00 AM		EPA 8260B AROMATIC VOCs by GC/MS		6/8/2012	6/18/2012 R49088	6/18/2012 R49088	
1206051-03A	MW-6	6/8/2012 11:00:00 AM		EPA 8260B AROMATIC VOCs by GC/MS		6/8/2012	6/15/2012 R49081	6/15/2012 R49081	
1206051-04A	MW-7	6/8/2012 11:45:00 AM		EPA 8260B AROMATIC VOCs by GC/MS		6/8/2012	6/15/2012 R49081	6/15/2012 R49081	
1206051-05A	MW-8R	6/8/2012 11:15:00 AM		EPA 8260B AROMATIC VOCs by GC/MS		6/8/2012	6/15/2012 R49081	6/15/2012 R49081	
1206051-06A	DUP	6/8/2012		EPA 8260B AROMATIC VOCs by GC/MS		6/8/2012	6/18/2012 R49088	6/18/2012 R49088	
1206051-07A	TB	6/8/2012 4:00:00 PM		EPA 8260B AROMATIC VOCs by GC/MS		6/8/2012	6/15/2012 R49081	6/15/2012 R49081	

SAMPLE RECEIPT CHECKLIST

Client: ROSS AMRO ID: 1206031
 Project Name: 26-136 NEWPORT CORNER STORE Date Rec.: 6-12-12
 Ship via: (circle one) Fed Ex. UPS, AMRO Courier, Date Due: 6-19-12
 Hand Del., Other Courier, Other:

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			<input checked="" type="checkbox"/>	
2. Custody Seals present?			<input checked="" type="checkbox"/>	
3. Custody Seals Intact?			<input checked="" type="checkbox"/>	
4. Air Bill included in folder if received?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<u>AMRO 6-12-12</u>
5. Is COC included with samples?	<input checked="" type="checkbox"/>			
6. Is COC signed and dated by client?	<input checked="" type="checkbox"/>			
7. Laboratory receipt temperature. TEMP = <u>50</u> Samples rec. with ice <input checked="" type="checkbox"/> ice packs <input type="checkbox"/> neither <input type="checkbox"/>				
8. Were samples received the same day they were sampled? Is client temperature = or <6°C? If no obtain authorization from the client for the analyses. Client authorization from: _____ Date: _____ Obtained by: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9. Is the COC filled out correctly and completely?	<input checked="" type="checkbox"/>			
10. Does the info on the COC match the samples?	<input checked="" type="checkbox"/>			
11. Were samples rec. within holding time?	<input checked="" type="checkbox"/>			
12. Were all samples properly labeled?	<input checked="" type="checkbox"/>			
13. Were all samples properly preserved?	<input checked="" type="checkbox"/>			
14. Were proper sample containers used?	<input checked="" type="checkbox"/>			
15. Were all samples received intact? (none broken or leaking)	<input checked="" type="checkbox"/>			
16. Were VOA vials rec. with no air bubbles?	<input checked="" type="checkbox"/>			
17. Were the sample volumes sufficient for requested analysis?	<input checked="" type="checkbox"/>			
18. Were all samples received?	<input checked="" type="checkbox"/>			

19. VPH and VOA Soils only:
 Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)
 Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk
 IF M or SB:
 Does preservative cover the soil? If NO then client must be faxed.
 Does preservation level come close to the fill line on the vial? If NO then client must be faxed.
 Were vials provided by AMRO? If NO then weights MUST be obtained from client
 Was dry weight aliquot provided? If NO then fax client and inform the VOA lab ASAP.

20. Subcontracted Samples:
 What samples sent: _____
 Where sent: _____
 Date: _____
 Analysis: _____
 TAT: _____

21. Information entered into:

Internal Tracking Log?	<input checked="" type="checkbox"/>		
Dry Weight Log?		<input checked="" type="checkbox"/>	
Client Log?		<input checked="" type="checkbox"/>	
Composite Log?		<input checked="" type="checkbox"/>	
Filtration Log?		<input checked="" type="checkbox"/>	

Received By: MB Date: 6-12-12 Logged in By: MB Date: 6-12-12
 Labeled By: MB Date: 6-12-12 Checked By: MB Date: 6-12-12

CLIENT: Ross Environmental Associates
Project: 26-136 Newport Corner Store
Lab Order: 1206051

CASE NARRATIVE

GC/MS-VOLATILES:

1. The surrogate, 4-Bromofluorobenzene, recovered outside the laboratory control limits in sample MW-2A (1206051-01), due to high sample matrix.
2. The surrogate, Toluene-d8, recovered outside the laboratory control limits in sample MW-SR (1206051-05), due to high sample matrix.
3. The surrogate, Toluene-d8, recovered outside the laboratory control limits in the LCS analyzed on 6/15/12 Batch ID:R49081.

DATA COMMENT PAGE

Organic Data Qualifiers

ND	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than the method detection limit.
H	Method prescribed holding time exceeded.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
B	This flag is used when the analyte is found in the associated blank as well as in the sample.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
#	See Case Narrative

Micro Data Qualifiers

TNTC	Too numerous to count
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Inorganic Data Qualifiers

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J	Indicates a value greater than or equal to the method detection limit, but less than the quantitation limit.
H	Indicates analytical holding time exceedance.
B	Indicates that the analyte is found in the associated blank, as well as in the sample.
MSA	Indicates value determined by the Method of Standard Addition
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
PS	The analyte was below the Reporting Limit but has significant matrix interference as noted by the poor recovery of the Post Digestion Spike.
#	See Case Narrative
*	MCL Exceeded

Report Comments:

1. Soil, sediment and sludge sample results are reported on a "dry weight" basis.
2. Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

AMRO Environmental Laboratories Corp.

Date: 19-Jun-12

CLIENT: Ross Environmental Associates
Project: 26-136 Newport Corner Store

Lab Order: 1206051

Lab ID: 1206051-01

Collection Date: 6/8/2012 12:15:00 PM

Collection Time:

Client Sample ID: MW-2A

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS **SW8260B** Analyst: SK

Methyl tert-butyl ether	7.8	1.0		µg/L	1	6/15/2012 8:12:00 PM
Benzene	3.2	1.0		µg/L	1	6/15/2012 8:12:00 PM
Toluene	17	1.0		µg/L	1	6/15/2012 8:12:00 PM
Ethylbenzene	33	1.0		µg/L	1	6/15/2012 8:12:00 PM
m,p-Xylene	78	2.0		µg/L	1	6/15/2012 8:12:00 PM
o-Xylene	30	2.0		µg/L	1	6/15/2012 8:12:00 PM
1,3,5-Trimethylbenzene	7.6	1.0		µg/L	1	6/15/2012 8:12:00 PM
1,2,4-Trimethylbenzene	41	1.0		µg/L	1	6/15/2012 8:12:00 PM
Naphthalene	43	2.0		µg/L	1	6/15/2012 8:12:00 PM
Surr: Dibromofluoromethane	84.8	82-122		%REC	1	6/15/2012 8:12:00 PM
Surr: 1,2-Dichloroethane-d4	88.0	73-135		%REC	1	6/15/2012 8:12:00 PM
Surr: Toluene-d8	84.9	82-117		%REC	1	6/15/2012 8:12:00 PM
Surr: 4-Bromofluorobenzene	76.5	77-119	S	%REC	1	6/15/2012 8:12:00 PM

Lab ID: 1206051-02

Collection Date: 6/8/2012 10:45:00 AM

Collection Time:

Client Sample ID: MW-3

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS **SW8260B** Analyst: SK

Methyl tert-butyl ether	1,200	10		µg/L	10	6/15/2012 7:02:00 PM
Benzene	4,300	100		µg/L	100	6/18/2012 12:56:00 PM
Toluene	27	10		µg/L	10	6/15/2012 7:02:00 PM
Ethylbenzene	680	10		µg/L	10	6/15/2012 7:02:00 PM
m,p-Xylene	860	20		µg/L	10	6/15/2012 7:02:00 PM
o-Xylene	49	20		µg/L	10	6/15/2012 7:02:00 PM
1,3,5-Trimethylbenzene	48	10		µg/L	10	6/15/2012 7:02:00 PM
1,2,4-Trimethylbenzene	410	10		µg/L	10	6/15/2012 7:02:00 PM
Naphthalene	80	20		µg/L	10	6/15/2012 7:02:00 PM
Surr: Dibromofluoromethane	92.1	82-122		%REC	10	6/15/2012 7:02:00 PM
Surr: 1,2-Dichloroethane-d4	91.9	73-135		%REC	10	6/15/2012 7:02:00 PM
Surr: Toluene-d8	89.6	82-117		%REC	10	6/15/2012 7:02:00 PM
Surr: 4-Bromofluorobenzene	86.1	77-119		%REC	10	6/15/2012 7:02:00 PM

AMRO Environmental Laboratories Corp.

Date: 19-Jun-12

CLIENT: Ross Environmental Associates
Project: 26-136 Newport Corner Store

Lab Order: 1206051

Lab ID: 1206051-03

Collection Date: 6/8/2012 11:00:00 AM

Collection Time:

Client Sample ID: MW-6

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS SW8260B Analyst: SK

Methyl tert-butyl ether	ND	1.0		µg/L	1	6/15/2012 4:39:00 PM
Benzene	ND	1.0		µg/L	1	6/15/2012 4:39:00 PM
Toluene	ND	1.0		µg/L	1	6/15/2012 4:39:00 PM
Ethylbenzene	ND	1.0		µg/L	1	6/15/2012 4:39:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/15/2012 4:39:00 PM
o-Xylene	ND	2.0		µg/L	1	6/15/2012 4:39:00 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/15/2012 4:39:00 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/15/2012 4:39:00 PM
Naphthalene	ND	2.0		µg/L	1	6/15/2012 4:39:00 PM
Surr: Dibromofluoromethane	86.6	82-122		%REC	1	6/15/2012 4:39:00 PM
Surr: 1,2-Dichloroethane-d4	87.6	73-135		%REC	1	6/15/2012 4:39:00 PM
Surr: Toluene-d8	85.7	82-117		%REC	1	6/15/2012 4:39:00 PM
Surr: 4-Bromofluorobenzene	113	77-119		%REC	1	6/15/2012 4:39:00 PM

Lab ID: 1206051-04

Collection Date: 6/8/2012 11:45:00 AM

Collection Time:

Client Sample ID: MW-7

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS SW8260B Analyst: SK

Methyl tert-butyl ether	ND	1.0		µg/L	1	6/15/2012 5:15:00 PM
Benzene	ND	1.0		µg/L	1	6/15/2012 5:15:00 PM
Toluene	ND	1.0		µg/L	1	6/15/2012 5:15:00 PM
Ethylbenzene	ND	1.0		µg/L	1	6/15/2012 5:15:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/15/2012 5:15:00 PM
o-Xylene	ND	2.0		µg/L	1	6/15/2012 5:15:00 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/15/2012 5:15:00 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/15/2012 5:15:00 PM
Naphthalene	ND	2.0		µg/L	1	6/15/2012 5:15:00 PM
Surr: Dibromofluoromethane	89.7	82-122		%REC	1	6/15/2012 5:15:00 PM
Surr: 1,2-Dichloroethane-d4	91.4	73-135		%REC	1	6/15/2012 5:15:00 PM
Surr: Toluene-d8	89.5	82-117		%REC	1	6/15/2012 5:15:00 PM
Surr: 4-Bromofluorobenzene	87.6	77-119		%REC	1	6/15/2012 5:15:00 PM

AMRO Environmental Laboratories Corp.

Date: 19-Jun-12

CLIENT: Ross Environmental Associates
Project: 26-136 Newport Corner Store

Lab Order: 1206051

Lab ID: 1206051-05

Collection Date: 6/8/2012 11:15:00 AM

Collection Time:

Client Sample ID: MW-8R

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS SW8260B Analyst: SK

Methyl tert-butyl ether	ND	1.0		µg/L	1	6/15/2012 5:51:00 PM
Benzene	22	1.0		µg/L	1	6/15/2012 5:51:00 PM
Toluene	17	1.0		µg/L	1	6/15/2012 5:51:00 PM
Ethylbenzene	11	1.0		µg/L	1	6/15/2012 5:51:00 PM
m,p-Xylene	20	2.0		µg/L	1	6/15/2012 5:51:00 PM
o-Xylene	36	2.0		µg/L	1	6/15/2012 5:51:00 PM
1,3,5-Trimethylbenzene	8.1	1.0		µg/L	1	6/15/2012 5:51:00 PM
1,2,4-Trimethylbenzene	11	1.0		µg/L	1	6/15/2012 5:51:00 PM
Naphthalene	6.1	2.0		µg/L	1	6/15/2012 5:51:00 PM
Surr: Dibromofluoromethane	86.6	82-122		%REC	1	6/15/2012 5:51:00 PM
Surr: 1,2-Dichloroethane-d4	87.5	73-135		%REC	1	6/15/2012 5:51:00 PM
Surr: Toluene-d8	81.8	82-117	S	%REC	1	6/15/2012 5:51:00 PM
Surr: 4-Bromofluorobenzene	90.8	77-119		%REC	1	6/15/2012 5:51:00 PM

Lab ID: 1206051-06

Collection Date: 6/8/2012

Collection Time:

Client Sample ID: DUP

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS SW8260B Analyst: SK

Methyl tert-butyl ether	1,200	10		µg/L	10	6/15/2012 7:37:00 PM
Benzene	4,000	100		µg/L	100	6/18/2012 1:32:00 PM
Toluene	19	10		µg/L	10	6/15/2012 7:37:00 PM
Ethylbenzene	650	10		µg/L	10	6/15/2012 7:37:00 PM
m,p-Xylene	680	20		µg/L	10	6/15/2012 7:37:00 PM
o-Xylene	41	20		µg/L	10	6/15/2012 7:37:00 PM
1,3,5-Trimethylbenzene	27	10		µg/L	10	6/15/2012 7:37:00 PM
1,2,4-Trimethylbenzene	340	10		µg/L	10	6/15/2012 7:37:00 PM
Naphthalene	64	20		µg/L	10	6/15/2012 7:37:00 PM
Surr: Dibromofluoromethane	86.4	82-122		%REC	10	6/15/2012 7:37:00 PM
Surr: 1,2-Dichloroethane-d4	90.4	73-135		%REC	10	6/15/2012 7:37:00 PM
Surr: Toluene-d8	86.1	82-117		%REC	10	6/15/2012 7:37:00 PM
Surr: 4-Bromofluorobenzene	108	77-119		%REC	10	6/15/2012 7:37:00 PM

AMRO Environmental Laboratories Corp.

Date: 19-Jun-12

CLIENT: Ross Environmental Associates
Project: 26-136 Newport Corner Store

Lab Order: 1206051

Lab ID: 1206051-07

Collection Date: 6/8/2012 4:00:00 PM

Collection Time:

Client Sample ID: TB

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS SW8260B Analyst: SK

Methyl tert-butyl ether	ND	1.0		µg/L	1	6/15/2012 1:07:00 PM
Benzene	ND	1.0		µg/L	1	6/15/2012 1:07:00 PM
Toluene	ND	1.0		µg/L	1	6/15/2012 1:07:00 PM
Ethylbenzene	ND	1.0		µg/L	1	6/15/2012 1:07:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/15/2012 1:07:00 PM
o-Xylene	ND	2.0		µg/L	1	6/15/2012 1:07:00 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/15/2012 1:07:00 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/15/2012 1:07:00 PM
Naphthalene	ND	2.0		µg/L	1	6/15/2012 1:07:00 PM
Surr: Dibromofluoromethane	83.5	82-122		%REC	1	6/15/2012 1:07:00 PM
Surr: 1,2-Dichloroethane-d4	84.5	73-135		%REC	1	6/15/2012 1:07:00 PM
Surr: Toluene-d8	84.6	82-117		%REC	1	6/15/2012 1:07:00 PM
Surr: 4-Bromofluorobenzene	84.7	77-119		%REC	1	6/15/2012 1:07:00 PM

AMRO Environmental Laboratories Corp.

Date: 19-Jun-12

CLIENT: Ross Environmental Associates
 Work Order: 1206051
 Project: 26-136 Newport Corner Store

QC SUMMARY REPORT
 Method Blank

Sample ID: mb-06/15/12 Batch ID: R49081 Test Code: SW8260B Units: µg/L Analysis Date 6/15/2012 11:56:00 AM Prep Date: 6/15/2012
 Client ID: Run ID: V-2_120615A SeqNo: 817036

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Out
Methyl tert-butyl ether	ND	1.0	µg/L									
Benzene	ND	1.0	µg/L									
Toluene	ND	1.0	µg/L									
Ethylbenzene	ND	1.0	µg/L									
m,p-Xylene	ND	2.0	µg/L									
o-Xylene	ND	2.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
Naphthalene	ND	2.0	µg/L									
Surr: Dibromofluoromethane	21.25	2.0	µg/L	25	0	85	82	122	0			
Surr: 1,2-Dichloroethane-d4	22.26	2.0	µg/L	25	0	89	73	135	0			
Surr: Toluene-d8	22.28	2.0	µg/L	25	0	88.1	82	117	0			
Surr: 4-Bromofluorobenzene	19.41	2.0	µg/L	25	0	77.6	77	119	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 19-Jun-12

CLIENT: Ross Environmental Associates
 Work Order: 1206051
 Project: 26-136 Newport Corner Store
QC SUMMARY REPORT
 Method Blank

Sample ID: mb-06/18/12 Batch ID: R49088 Test Code: SW8260B Units: µg/L Analysis Date 6/18/2012 11:45:00 AM Prep Date: 6/18/2012
 Client ID: Run ID: V-3_120618A QC Spike Amount: SeqNo: 817185

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Que
Methyl tert-butyl ether	ND	1.0	µg/L									
Benzene	ND	1.0	µg/L									
Toluene	ND	1.0	µg/L									
Ethylbenzene	ND	1.0	µg/L									
m,p-Xylene	ND	2.0	µg/L									
o-Xylene	ND	2.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
Naphthalene	ND	2.0	µg/L									
Surr: Dibromofluoromethane	24.6	2.0	µg/L	25	0	98.4	82	122	0			
Surr: 1,2-Dichloroethane-d4	24.67	2.0	µg/L	25	0	98.7	73	135	0			
Surr: Toluene-d8	24.91	2.0	µg/L	25	0	99.6	82	117	0			
Surr: 4-Bromofluorobenzene	24.67	2.0	µg/L	25	0	98.7	77	119	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 19-Jun-12

CLIENT: Ross Environmental Associates
 Work Order: 1206051
 Project: 26-136 Newport Corner Store

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID: ICS-06/15/12 Batch ID: R49081 Test Code: SW8260B Units: µg/L Analysis Date 6/15/2012 10:42:00 AM Prep Date: 6/15/2012
 Client ID: Run ID: V-2_120615A SeqNo: 817037

Analyte	QC Sample Result	RL	Units	OC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Que
Methyl tert-butyl ether	20.9	1.0	µg/L	20	0	104	66	130	0	0		
Benzene	22.33	1.0	µg/L	20	0	112	75	129	0	0		
Toluene	18.72	1.0	µg/L	20	0	93.6	81	123	0	0		
Ethylbenzene	20.73	1.0	µg/L	20	0	104	81	125	0	0		
m,p-Xylene	42.63	2.0	µg/L	40	0	107	81	125	0	0		
o-Xylene	21.34	2.0	µg/L	20	0	107	68	134	0	0		
1,3,5-Trimethylbenzene	19.83	1.0	µg/L	20	0	98.2	76	125	0	0		
1,2,4-Trimethylbenzene	19.88	1.0	µg/L	20	0	99.4	79	125	0	0		
Naphthalene	24.26	2.0	µg/L	20	0	121	67	128	0	0		
Surr: Dibromofluoromethane	20.63	2.0	µg/L	25	0	82.5	82	122	0	0		
Surr: 1,2-Dichloroethane-d4	21.25	2.0	µg/L	25	0	85	73	135	0	0		
Surr: Toluene-d8	19.46	2.0	µg/L	25	0	77.8	82	117	0	0		S
Surr: 4-Bromofluorobenzene	21.92	2.0	µg/L	25	0	87.7	77	119	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 19-Jan-12

CLIENT: Ross Environmental Associates
 Work Order: 1206051
 Project: 26-136 Newport Corner Store

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: Ics-06/18/12 Batch ID: R49088 Test Code: SW8260B Units: µg/L Analysis Date: 6/18/2012 10:29:00 AM Prep Date: 6/18/2012
 Client ID: Run ID: V-3_120618A SeqNo: 817186

Analyte	QC Sample		RL	QC Spike		Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Que
	Result	Units		Amount	Units									
Methyl tert-butyl ether	15.52	µg/L	1.0	20	µg/L	0	77.6	66	130	0	0			
Benzene	16.09	µg/L	1.0	20	µg/L	0	80.4	75	129	0	0			
Toluene	16.43	µg/L	1.0	20	µg/L	0	82.2	81	123	0	0			
Ethylbenzene	17.08	µg/L	1.0	20	µg/L	0	85.4	81	125	0	0			
m,p-Xylene	33.13	µg/L	2.0	40	µg/L	0	82.8	81	125	0	0			
o-Xylene	16.89	µg/L	2.0	20	µg/L	0	84.4	68	134	0	0			
1,3,5-Trimethylbenzene	16.81	µg/L	1.0	20	µg/L	0	84	76	125	0	0			
1,2,4-Trimethylbenzene	16.79	µg/L	1.0	20	µg/L	0	84	79	125	0	0			
Naphthalene	14.63	µg/L	2.0	20	µg/L	0	73.2	67	128	0	0			
Surr: Dibromofluoromethane	24.95	µg/L	2.0	25	µg/L	0	98.8	82	122	0	0			
Surr: 1,2-Dichloroethane-d4	23.75	µg/L	2.0	25	µg/L	0	95	73	135	0	0			
Surr: Toluene-d8	25.23	µg/L	2.0	25	µg/L	0	101	82	117	0	0			
Surr: 4-Bromofluorobenzene	24.72	µg/L	2.0	25	µg/L	0	98.9	77	119	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.