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9 August 2004
Document No. 96090116.doc
VT DEC Site #96-2082

Mr. Marcel Locke
Parkview Garage
P.O. Box 115
Orleans, VT 05860

Re: *Site Monitoring Report – May 2004*
Parkview Garage, Orleans, Vermont

Dear Mr. Locke:

This report summarizes the findings of the May 2004 site monitoring event conducted at the Parkview Garage, located along Route 5, in Orleans, Vermont (Figure 1 and Figure 2, Attachment A). The monitoring event included sampling four onsite monitoring wells, sampling the on-site water supply well, and collecting a water sample and a soil sample from the dry well. This work was performed at the request of Mr. John Schmeltzer of the State of Vermont Department of Environmental Conservation (VT DEC) in a letter dated 29 December 2003.

FINDINGS

- The Vermont Groundwater Enforcement Standards (VGESs) were exceeded for 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene in the groundwater sample collected from monitoring well MW-1 at concentrations of 30.4 micrograms per liter (µg/L) and 214 µg/L, respectively. The highest reported total benzene, toluene, ethylbenzene, and xylenes (BTEX) concentration was from the MW-1 sample at 204 µg/L. Volatile organic compounds (VOCs) were all below laboratory detection limits in samples collected from MW-2, MW-3, or MW-4.

- Methyl tertiary butyl ether (MTBE) was detected in samples collected from MW-2 and MW-4 below the VGES at concentrations of 1.6 µg/L and 4.2 µg/L, respectively.

- No petroleum compounds were detected in the sample collected from the on-site water supply well. This well, reported to be 86 feet deep, is not used as a drinking-water supply.

- Groundwater in the unconfined surficial aquifer at the site appears to be flowing to the northeast towards the Barton River, which is consistent with previously calculated groundwater flow directions.

- VOCs were detected above laboratory detection limits in the water sample collected from the dry well. Concentrations of naphthalene and trimethylbenzenes exceeded the VGES.

- VOCs were detected above laboratory detection limits in the soil sample collected from the dry well. Trichloroethene (TCE) concentrations exceeded the U.S. EPA Preliminary Remediation Goals (PRGs) for industrial soils. The other detected compounds were below the PRGs.

RECOMMENDATIONS

Based on the above findings, it is the opinion of ECS that the site does not meet the criteria for a Site Management Activity Completed (SMAC) designation. The recent discovery of VOCs in the dry well needs to be further investigated before the site can be issued a SMAC designation.

1. The recent groundwater monitoring well data contained in this report, as well as previous reports submitted to the VT DEC, confirms that the site meets the criteria for a SMAC designation with a notice to the land records. Petroleum hydrocarbon concentrations are below VGES at the compliance points (MW-3 and MW-4), the source of contamination has been removed, and no sensitive receptors are at risk. Contaminant concentrations in MW-1 are consistent with or below the previous sampling events.

2. Floor drain discharges may have released contaminants to the subsurface environment as evident from the VGES and PRG exceedances in water and soil samples collected from the dry well. Therefore, at this time ECS recommends that the floor drains be plugged or connected to a holding tank.

3. Monitoring wells should be installed downgradient of the dry well to determine if groundwater has been impacted by a release from the dry well. If VGESs are not exceeded in downgradient wells, then the site may be eligible for a SMAC designation.

GROUNDWATER ELEVATION AND FLOW DIRECTION

Groundwater in the unconfined surficial aquifer directly beneath the site appears to be flowing generally in a northerly direction, toward the Barton River. The average gradient of the local groundwater table on 17 May 2004 was approximately 0.7 percent. Water-level measurements and elevation calculations for the sampling event are presented in Table 1. The groundwater contour map in Figure 3, Attachment A, was prepared using these data.

TABLE 1. Groundwater Elevation Data
Monitoring Date: 17 May 2004

Well I. D.	Top of Casing Elevation *	Depth to Water (feet, TOC)	Groundwater Elevation
MW-1	97.64	5.22	92.42
MW-2	100.00	7.87	92.13
MW-3	98.34	6.93	91.41
MW-4	99.46	7.45	92.01
[1]MW-5	99.59	NA	NA

*Top of casing (TOC) and groundwater elevations are relative to an arbitrary site datum of 100.00 feet.
[1]Groundwater levels were not obtained during this event.

Fluid levels were measured in the on-site monitoring wells on 17 May 2004. The depth to water varied from 5.22 feet (MW-1) to 7.87 feet (MW-2) below top-of-casing. These data reflect an approximately

1.71 foot average decrease in water table elevation compared to data recorded during the previous May 2002. Static water-table elevations were computed for each monitoring well by subtracting the measured or corrected depth-to-water readings from the surveyed top-of-casing elevations, which are relative to an arbitrary site datum of 100.00 feet.

GROUNDWATER AND WATER-SUPPLY SAMPLING AND ANALYSIS

The VGES[1] for 1,3,5-trimethyl benzene and 1,2,4-trimethyl benzene were exceeded in the groundwater sample collected from monitoring well MW-1 at concentrations of 30.4 µg/L and 214 µg/L, respectively. The only reported total benzene, toluene, ethylbenzene, and xylenes (BTEX) concentration was from a groundwater sample collected from MW-1 at 204 µg/L. VOCs were not detected in the samples collected from MW-2, MW-3, or MW-4. MTBE was detected in monitoring wells MW-2 and MW-4 below the VGES at concentrations of 1.6 µg/L and 4.2 µg/L, respectively.

No petroleum compounds were detected in a tap-water sample collected from the on-site water supply. Petroleum contamination has not been detected in the supply well since April 1997. The supply well, reported to be 86 feet deep, is not used as a drinking-water supply.

Total BTEX concentrations at MW-1 decreased approximately 60 percent relative to the previous sampling event. Overall there was a stable or decreasing trend in petroleum constituents in all wells sampled.

A summary of analytical results for samples collected on 19 May 2004 is provided in Table 2, below. A contaminant distribution map for total VOCs is presented as Figure 4 in Attachment A. Time-series graphs illustrating trends in contaminant levels at the monitoring wells and supply well are presented in Figures 5 – 10 in Attachment A. Laboratory report forms are included as Attachment B.

Groundwater samples were collected from the on-site monitoring wells and from the on-site water supply on 19 May 2004. Monitoring wells were purged and then sampled using dedicated bailers and dropline. Samples were collected in laboratory-supplied 40 ml glass vials preserved with hydrochloric acid. Purge water was discharged directly to the ground in the vicinity of each well. The water supply sample was collected from within the building in the men's bathroom sink after purging the system for approximately ten minutes. Trip blank and duplicate samples were collected to ensure that adequate quality assurance/quality control (QA/QC) standards were maintained. All field procedures were conducted in accordance with ECS standard protocols.

The groundwater samples were transported under chain of custody in an ice-filled cooler to Endyne, Inc. of Williston, Vermont. All samples were analyzed for the possible presence of petroleum hydrocarbon compounds by EPA Method 8021B. No petroleum hydrocarbons were detected in the trip blank sample that was analyzed using EPA method 8021B. A duplicate sample was collected at MW-1 and labeled MW-6. Analytical results were within 17 to 42 percent of the original sample results. Despite the

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[1] Vermont Groundwater Enforcement Standards (VGESs) for eight petroleum-related VOCs are as follows: benzene - 5 µg/L; toluene - 1,000 µg/L; ethylbenzene - 700 µg/L; xylenes - 10,000 µg/L.; MTBE - 40 µg/L; naphthalene - 20 µg/L; 1, 2, 4-trimethyl benzene - 5 µg/L; and 1, 3, 5-trimethyl benzene - 4 µg/L.

relative percent difference of 42 percent between the sample and duplicate for xylene, the data is still considered valid and usable because all other parameters were below the 35 percent deviation. Furthermore, all laboratory control standards were within established laboratory acceptance limits for both samples and the sampling techniques were performed in accordance with ECS protocols, and the xylene concentrations are well below VGES.

TABLE 2. Groundwater Analytical Results
Monitoring Date: 17 May 2004

Well I.D.	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5-TMB	1,2,4-TMB	Naphthalene
MW-1	ND<1.0	ND<1.0	**21.4**	**183**	**204**	ND<1.0	30.3	214	**18.2**
MW-2	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	**1.6**	ND<1.0	ND<1.0	**2.0**
MW-3	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND<1.0	ND<1.0	ND<1.0
MW-4	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	**4.2**	ND<1.0	ND<1.0	ND<1.0
MW-5	NS	NS	NS	NS	NS	NS	NS	NS	NS
Duplicate MW-1 (labeled MW-6)	ND<5.0	ND<5.0	**25.3**	**279**	**304**	ND<10.0	42.0	172	24.3
% difference	-	-	17	42	39	-	32	22	29
Trip Blank	ND<1	ND<1	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1
VGES	***5***	***1,000***	***700***	***10,000***	**--**	***40***	***4***	***5***	***20***

Notes: Results given in micrograms per liter (µg/L).
BTEX - a sum of benzene, toluene, ethylbenzene, and total xylenes
MTBE - methyl tertiary butyl ether
TMB - trimethyl benzene
TPH - total petroleum hydrocarbons; results given in milligrams per liter (mg/L)
ND - None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards, shaded area denotes exceedence of VGES
Sampling for MW-5 discontinued per a VT DEC letter dated 8 May 2001.

DRYWELL SAMPLING AND ANALYSIS

On 15 November 2002, a floor drain investigation was performed to evaluate whether or not past or current discharge from the floor drains located within the automotive repair garage, pose a threat to human health and the environment and to determine the floor drain system configuration and ultimate discharge point. This report was completed in January 2003.

Confirmatory water and soil samples from the dry well were requested by the VT DEC on 29 December 2003. These samples were collected from the dry well on 19 May 2004. The standing water in the dry well was sampled using a disposable bailer and drop line. A water sample was collected in laboratory-supplied 40ml glass vials preserved with hydrochloric acid and submitted for VOC analysis by EPA Method 8260. A soil sample was collected from the dry well using a five-foot bucket auger with extensions to a depth of approximately 7 feet below ground surface (bgs). A soil/sediment sample was collected in laboratory-supplied 40 ml glass vial preserved with methanol and submitted for VOCs by EPA Method 8260.

VOCs were detected above laboratory detection limits in the water sample collected from the dry well (Table 3). Concentrations of naphthalene and trimethylbenzenes exceeded the VGES. No chlorinated solvents were reported above the laboratory detection limit.

Table 3. Dry Well Water Analytical Results
Monitoring Date: 19 May 2004

Parameter	Concentration µg/L	*VGES µg/L*
Ethylbenzene	38.4	*700*
Isopropylbenzene	5.1	--
p-Isopropyltoluene	2,200	--
MTBE	10.5	*40*
Naphthalene	128	*20*
n-Propylbenzene	10.6	--
Toluene	116	*1,000*
1,2,4-Trimethylbenzene	106	*5*
1,3,5-Trimethylbenzene	33.7	*4*
Total Xylenes	229	*10,000*

VOCs were detected above laboratory detection limits in the soil sample collected from the dry well (Table 4). Trichloroethene (TCE) concentrations exceeded the U.S. EPA Preliminary Remediation Goals (PRGs) for industrial soils. The other detected compounds were below the PRGs.

Table 4. Dry Well Soil Analytical Results
Monitoring Date: 19 May 2004

Sample Identification	Dry Well (µg/kg)	Dry Well (µg/kg)	*Preliminary Remediation Goals (PRG's)*
Sample type	**Soil/sediment**	**Soil/sediment**	*Industrial Soil (µg/kg)*
Collection Date	11/15/02	05/19/04	--
Sample Depth (feet bgs)	6'11"	7'	--
Benzene	ND<1,210	448	*1,300*
n-Butylbenzene	2,400	3,200	*240,000*
sec-Butylbenzene	ND<1,210	2,550	*220,000*
Ethylbenzene	2,810	5,240	*20,000*
Isopropylbenzene	ND<1,210	4,210	--
p-Isopropyltoluene	471,000	73,900	--
Naphthalene	9,970	12,400	*190,000*
n-Propylbenzene	3,230	10,900	*240,000*
Toluene	8,600	9,720	*520,000*
Trichloroethene	ND<1,210	1,410	*110*
1,2,4-Trimethylbenzene	35,200	76,000	*170,000*
1,3,5-Trimethylbenzene	8,320	28,700	*70,000*
Total Xylenes	19,900	39,400	*420,000*

Notes:
Exceedences of U.S. EPA Region IX Preliminary Remediation Goals are shaded.
µg/kg - micrograms per kilogram
bgs – below ground surface.
PRG - Preliminary Remediation Goals
-- – No PRG/SSL value listed for this parameter.

The soil and water concentrations in dry well samples suggest that a release of petroleum-related compounds to the environment has occurred. The floor drains must be dealt with so that the discharge is no longer being released (daylighted) to the environment. The current floor drain configuration is no longer acceptable. ECS recommends the following options:

- The first option would be to seal off the three floor drains, remove the Sand Catch Basin and backfill the Dry Well cavity. However, the dry well may need to be evaluated as a source of contamination if groundwater VOC impact is documented.

- The second option is to leave the floor drain system intact, backfill the drywell cavity, and install a permitted holding tank for all the discharged grey water from the floor drains. The contents of the holding tank would have to be pumped out when full and transferred to a treatment facility.

- The third option is to separate or partition the area where snowmelt and washing of vehicles takes place from the areas where the vehicles are maintained. For example, use one bay for washing and snow melt only, and use the other two bays for vehicle maintenance only. The in the bays where vehicle maintenance takes place, floor drains would have to be sealed or connected to a holding tank.

Our compliance specialist, Mike Laurent, is available to meet with you to discuss the options for the floor drains. Also, Allison Lowry of the VT DEC Wastewater Management Division can be contacted with concerns or for clarification concerning floor drain regulations at (802) 241-4455.

* * * * * *

Please call me if you have any questions or concerns regarding the enclosed information or recommendations. With your approval, a copy of this report will be forwarded to John Schmeltzer of the Vermont Department of Environmental Conservation.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

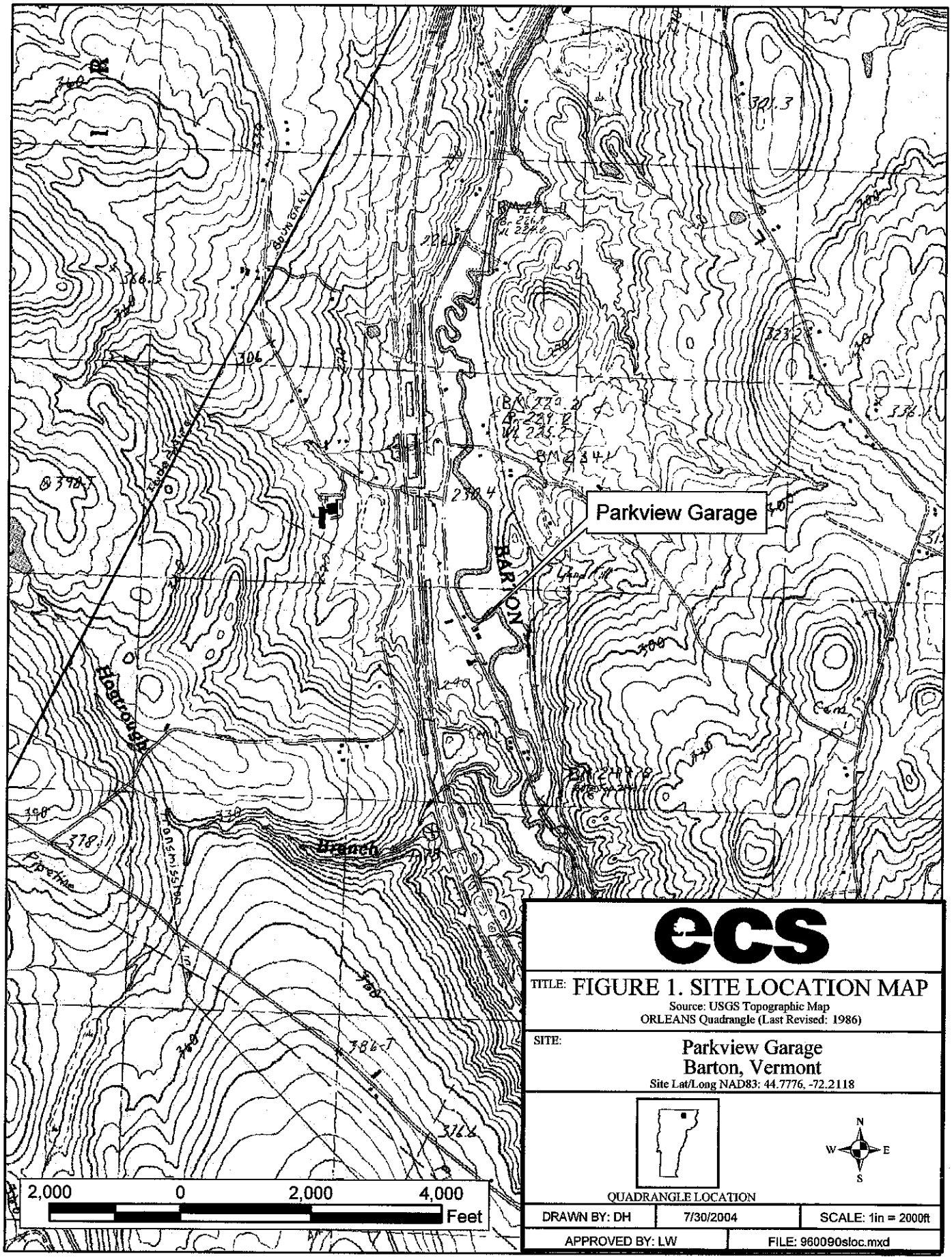
Laura L. Woodard

Laura L. Woodard
Hydrogeologist

Attachment A – Tables and Figures
Attachment B – Groundwater Analytical Reports
Attachment C – Dry Well Analytical Reports

ATTACHMENT A

FIGURES



ecs

TITLE: FIGURE 1. SITE LOCATION MAP

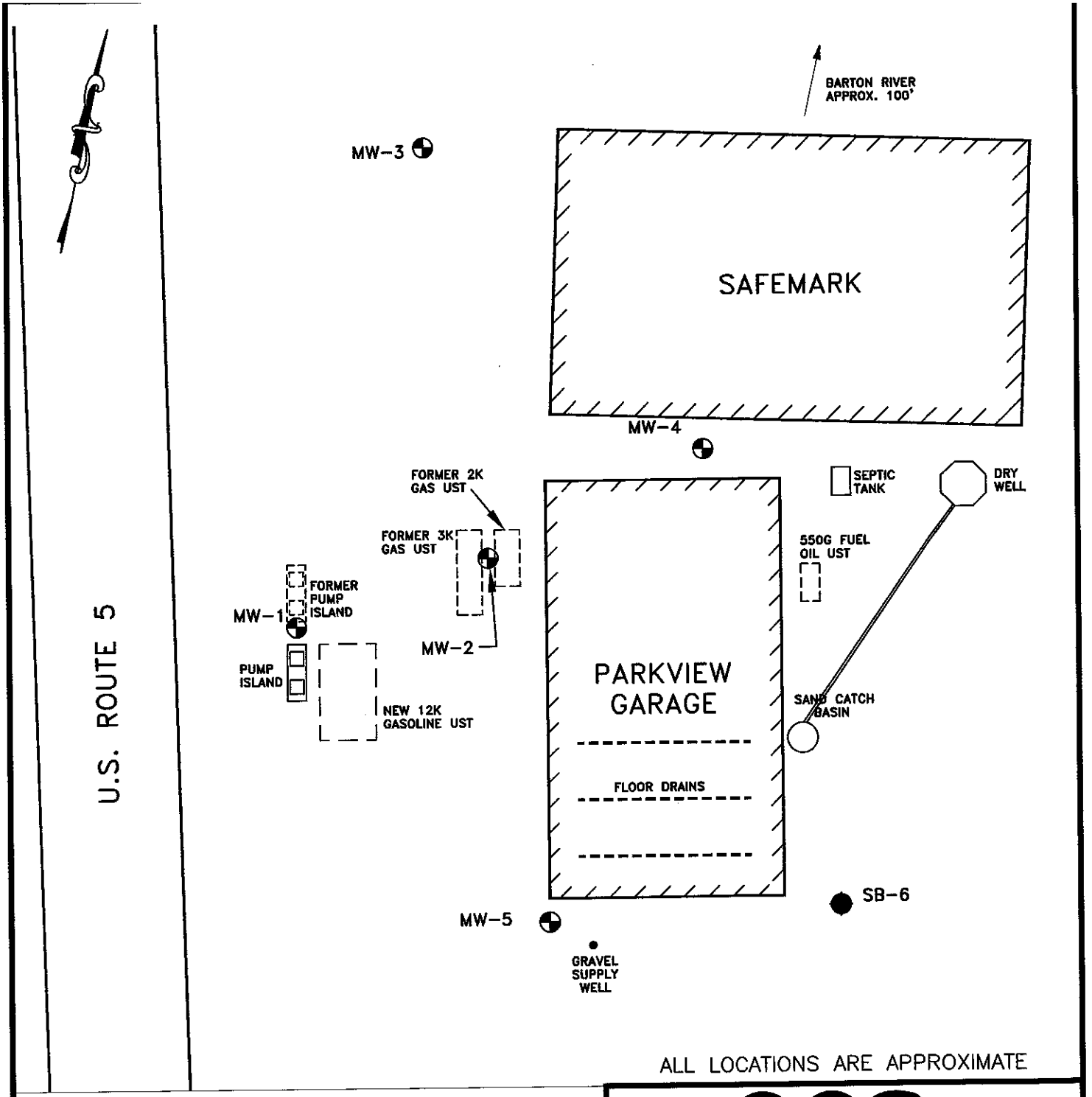
Source: USGS Topographic Map
ORLEANS Quadrangle (Last Revised: 1986)

SITE:

Parkview Garage
Barton, Vermont
Site Lat/Long NAD83: 44.7776, -72.2118

QUADRANGLE LOCATION

DRAWN BY: DH	7/30/2004	SCALE: 1in = 2000ft
APPROVED BY: LW		FILE: 960090sloc.mxd



ALL LOCATIONS ARE APPROXIMATE

LEGEND

MW-2 MONITORING WELL

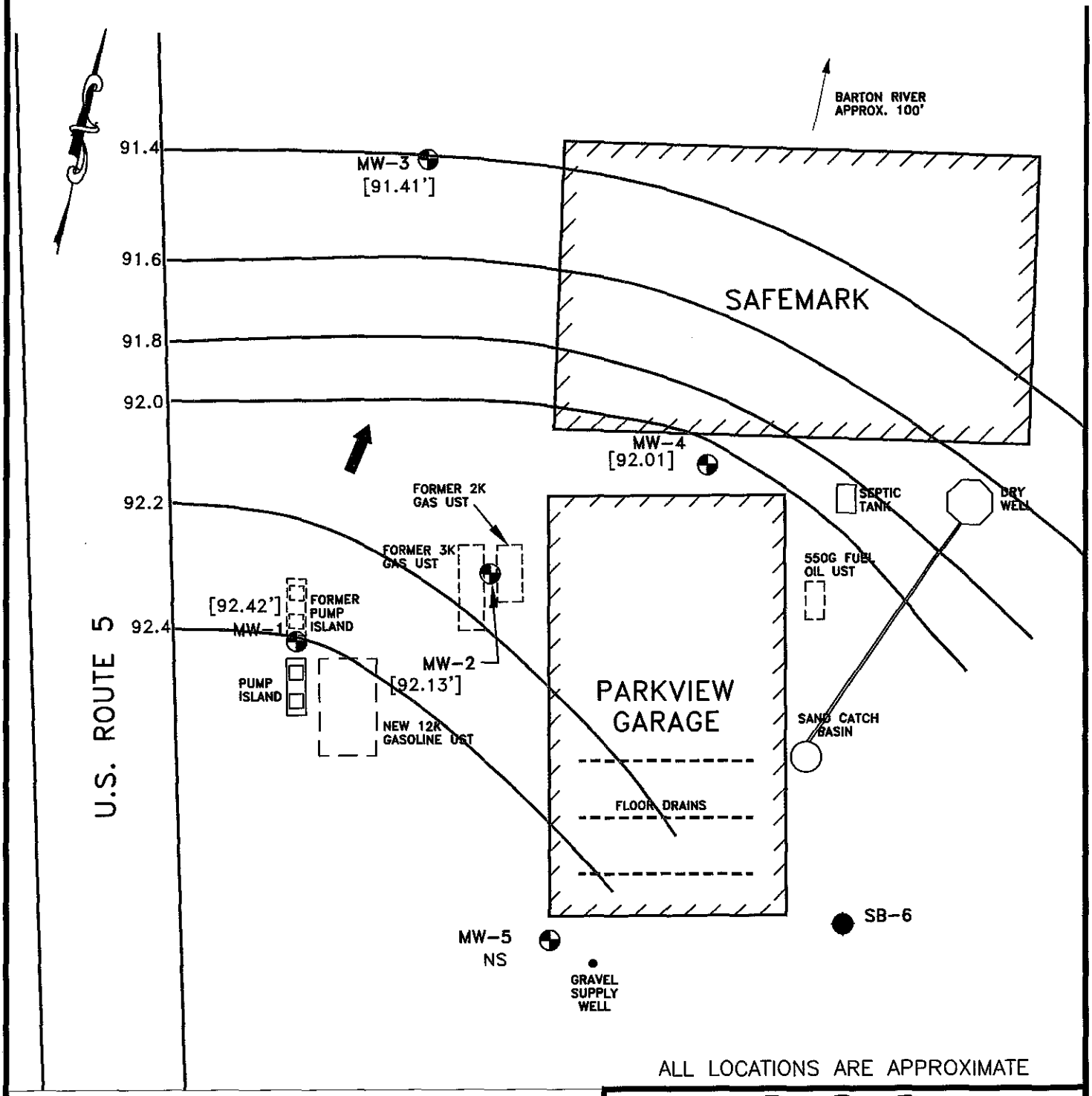
0 30(ft)

ecs

FIGURE 2.
SITE PLAN
WITH MONITORING WELL LOCATIONS

Parkview Garage
Barton, VT

DRAWN BY: DH	DATE: 06/25/04	SCALE: 1"= 30'
APPROVED BY: JC		FILE No.: 960090R03



ALL LOCATIONS ARE APPROXIMATE

LEGEND

MW-2 ⊕	MONITORING WELL
[91.57]	GROUND WATER ELEVATION (FT.)
91.50 ——	GROUND WATER ELEVATION CONTOUR (FT.)
⬅	INFERRED GROUND WATER FLOW DIRECTION

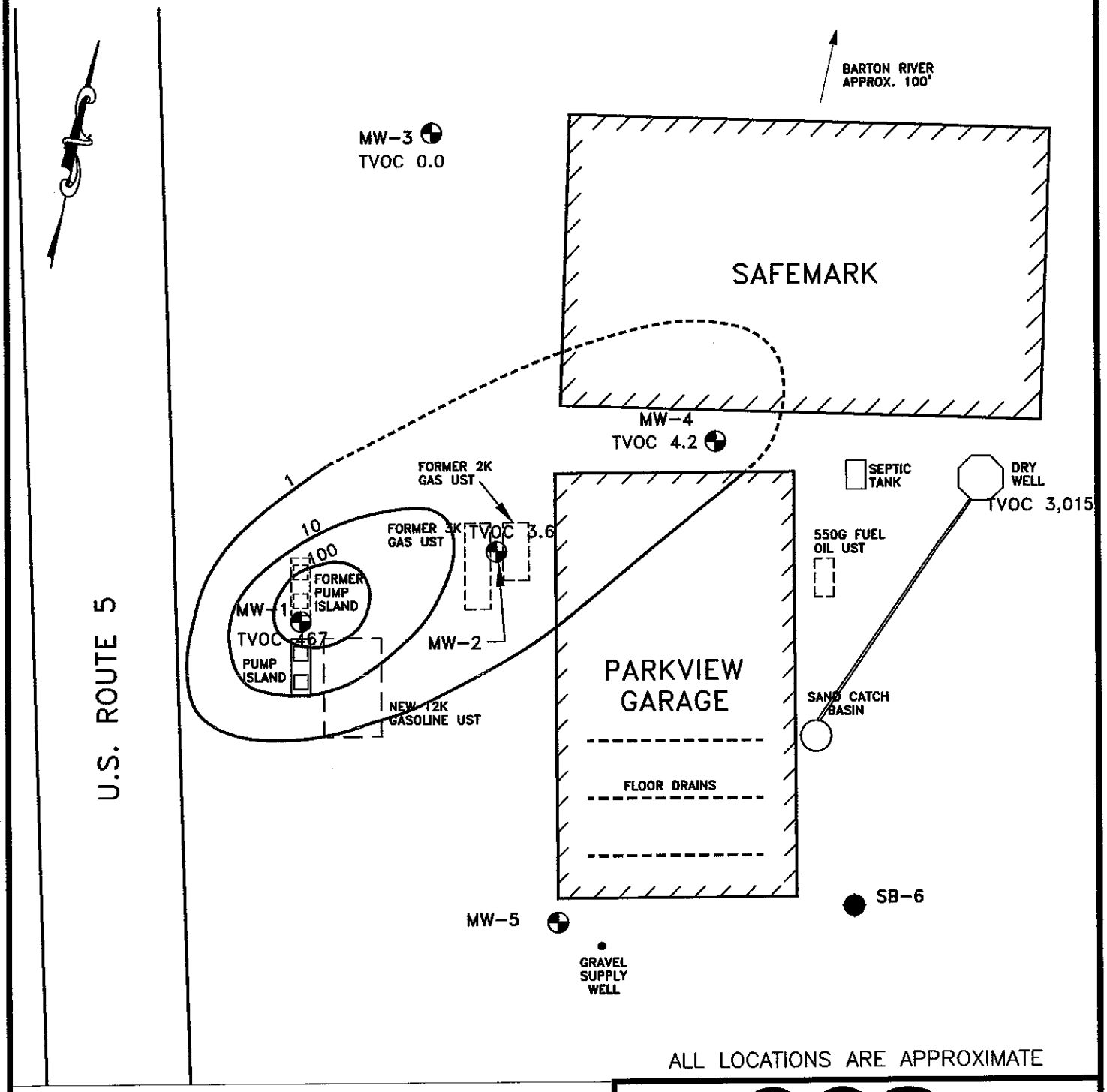
0 30(ft)

ecs

FIGURE 3.
GROUND WATER CONTOUR MAP
Monitoring Date: 19 May 2004

Parkview Garage
Barton, VT

DRAWN BY: DH	DATE: 06/25/04	SCALE: 1"= 30'
APPROVED BY: JC	FILE No.: 960090R03	



ALL LOCATIONS ARE APPROXIMATE

LEGEND

MW-2

TVOC 467	TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATION, (µg/L)
ND	NONE DETECTED
NS	NOT SAMPLED
10	TOTAL VOC CONTOUR, (µg/L)

0 30(ft)

ecs

FIGURE 4.

CONTAMINANT DISTRIBUTION MAP

Monitoring Date: 19 May 2004

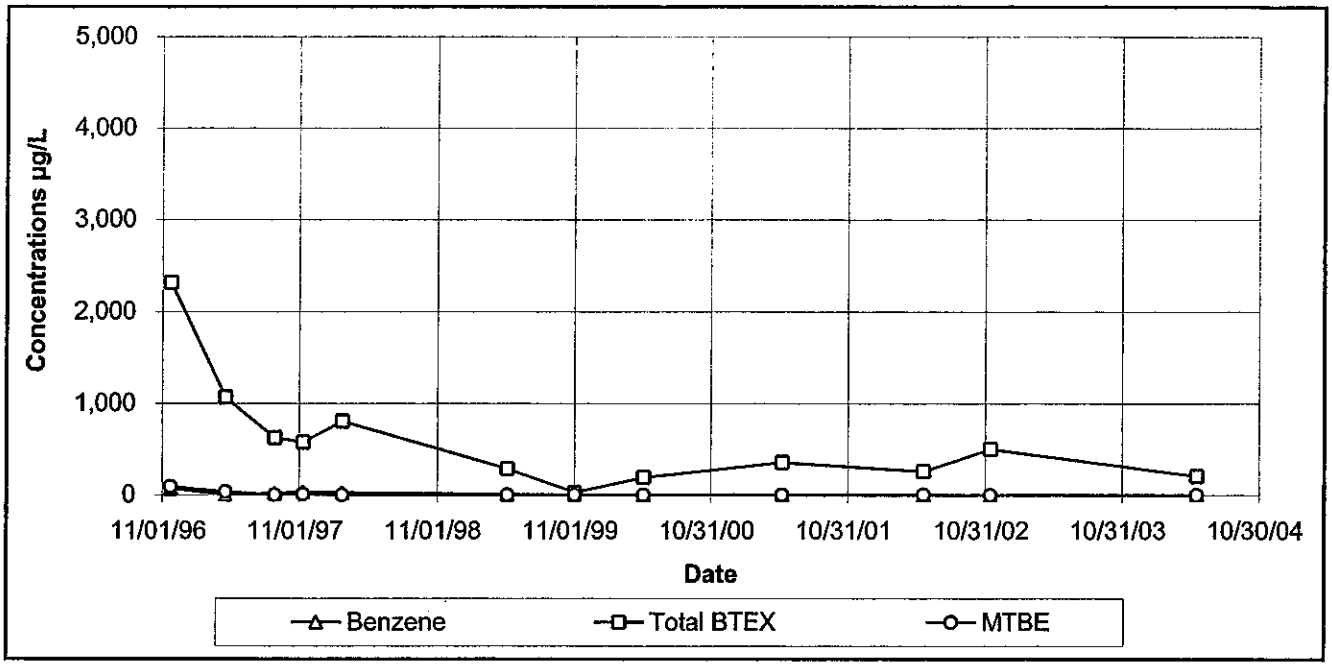
Parkview Garage

Barton, VT

DRAWN BY: DH	DATE: 06/25/04	SCALE: 1"= 30'
APPROVED BY: JC	FILE No.: 960090R03	

FIGURE 5. MW-1
VOC Concentrations

Parkview Garage
Barton, VT

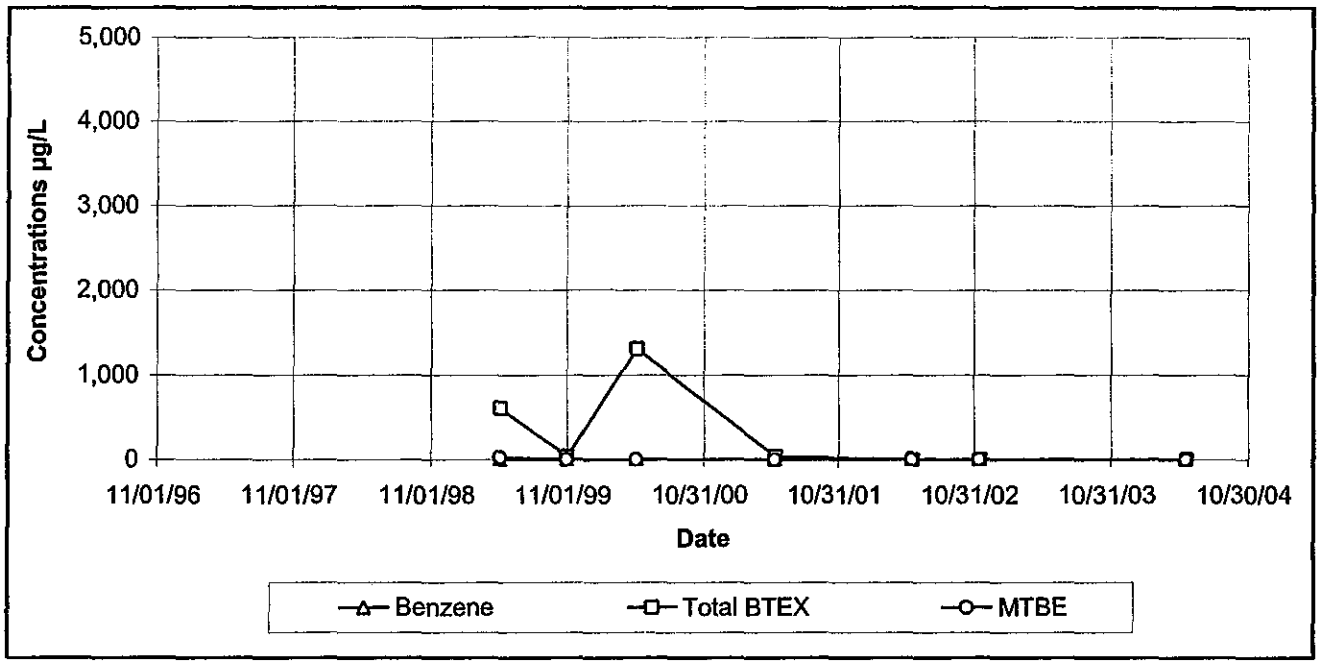


Date	Total BTEX	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	1,3,5 TMB	1,2,4 TMB	Naph-thalene
02/24/98	**805.3**	ND <10	23.4	**92.6**	**69.3**	**620**	---	---	---
05/07/99	**283.9**	ND<5	6.1	**6.5**	**22.3**	**249**	44.3	146	34.6
11/02/99	**26.9**	ND<5	**TBQ<5**	ND<5	**13.3**	**13.6**	18.4	88.8	**11.4**
05/04/00	**193.0**	ND < 1	ND < 1	**7.7**	**9.3**	**176.0**	27.1	71.8	ND < 1
05/11/01	**356.4**	ND < 20.0	**2.0**	**15.0**	**15.4**	**324**	47.7	119	24.2
05/20/02	**257.0**	**2.9**	ND <2.0	ND <2.0	**24.0**	**233**	47.0	148	29.8
11/15/02	**501.6**	ND < 4.0	ND < 4.0	**24.2**	**47.4**	**430**	45.5	245	52.9
05/17/04	**204.4**	ND < 1.0	ND<1.0	ND<1.0	**21.4**	**183**	30.4	214	**18.2**
VGES	--	40	5	1,000	700	10,000	4	5	20

Notes: Concentrations in micrograms per liter (µg/L) except where otherwise noted.
All samples collected by Marin and analyzed by Endyne, Inc.
MTBE - methyl-tertiary butyl ether
ND - None detected at indicated detection limit
NS - Not Sampled
TBQ - Trace below quantitation limit
VGES - Vermont Groundwater Enforcement Standards
--- Not analyzed for indicated parameter
TMB - Trimethyl benzene
Shaded areas indicate VGES exceedences.

FIGURE 6. MW-2
VOC Concentrations

Parkview Garage
Barton, VT

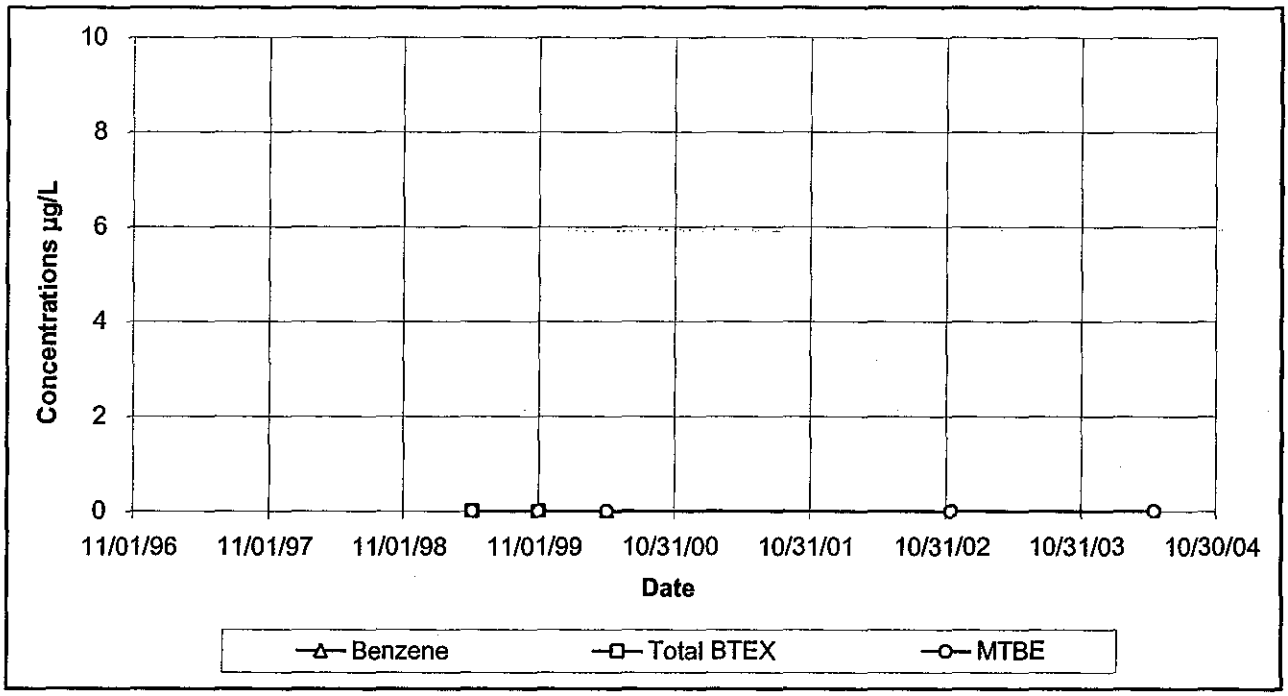


Date	Total BTEX	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	1,3,5 TMB	1,2,4 TMB	Naph-thalene
05/07/99	**608.2**	**25.2**	ND <10	**12.3**	**55.9**	**540**	265	666	88.2
11/02/99	**38.3**	ND<5	ND < 5	ND<5	**19.5**	**18.8**	22.0	106	**10.6**
05/04/00	**1,307**	ND < 10	ND < 10	ND < 10	**47.0**	**1,260**	603	1,170	95.8
05/11/01	**36.3**	ND <40.0	**4.1**	ND < 4.0	ND < 4.0	**32.2**	46.2	85.2	**6.7**
05/20/02	ND	**5.4**	ND <1.0	ND <1.0	ND <1.0	ND <1.0	ND <1.0	**2.2**	ND <1.0
11/15/02	**1.6**	ND <1.0	ND <1.0	ND <1.0	1.6	ND <2.0	ND <1.0	**7.8**	**1.9**
05/17/04	ND	**1.6**	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	**2.0**
VGES	--	40	5	1,000	700	10,000	4	5	20

Notes: Concentrations in micrograms per liter (µg/L) except where otherwise noted.
All samples collected by Marin and analyzed by Endyne, Inc.
MTBE - methyl-tertiary butyl ether
ND - None detected at indicated detection limit
NS - Not Sampled
TBQ - Trace below quantitation limit
VGES - Vermont Groundwater Enforcement Standards
Shaded areas indicate VGES exceedences.
--- Not analyzed for indicated parameter
TMB - Trimethyl benzene

FIGURE 7. MW-3
VOC Concentrations

Parkview Garage
Barton, VT

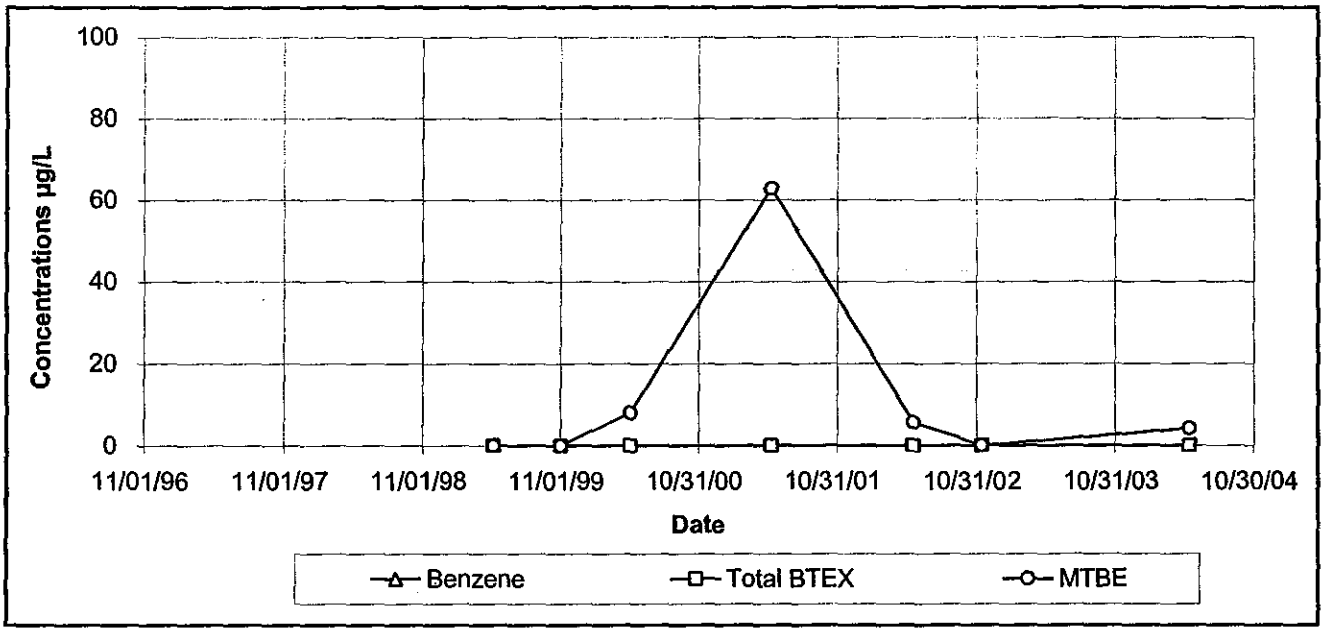


Date	Total BTEX	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	1,3,5 TMB	1,2,4 TMB	Naph-thalene
05/07/99	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
11/02/99	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
05/04/00	ND	ND < 1	ND < 2	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
11/15/02	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 2	ND < 1	ND < 1	ND < 1
05/17/04	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 2	ND < 1	ND < 1	ND < 1
VGES	--	40	5	1,000	700	10,000	4	5	20

Notes: Concentrations in micrograms per liter (µg/L) except where otherwise noted.
All samples collected by Marin and analyzed by Endyne, Inc.
MTBE - methyl-tertiary butyl ether
ND - None detected at indicated detection limit
NS - Not Sampled
TBQ - Trace below quantitation limit
VGES - Vermont Groundwater Enforcement Standards
Shaded areas indicate VGES exceedences.
--- Not analyzed for indicated parameter
TMB Trimethyl benzene
MW-3 no longer sampled due to a state letter dated 8 May 2001
MW-3 added back on the sampling plan per a state letter dated 13 September 2002.

FIGURE 8. MW-4
VOC Concentrations

Parkview Garage
Barton, VT

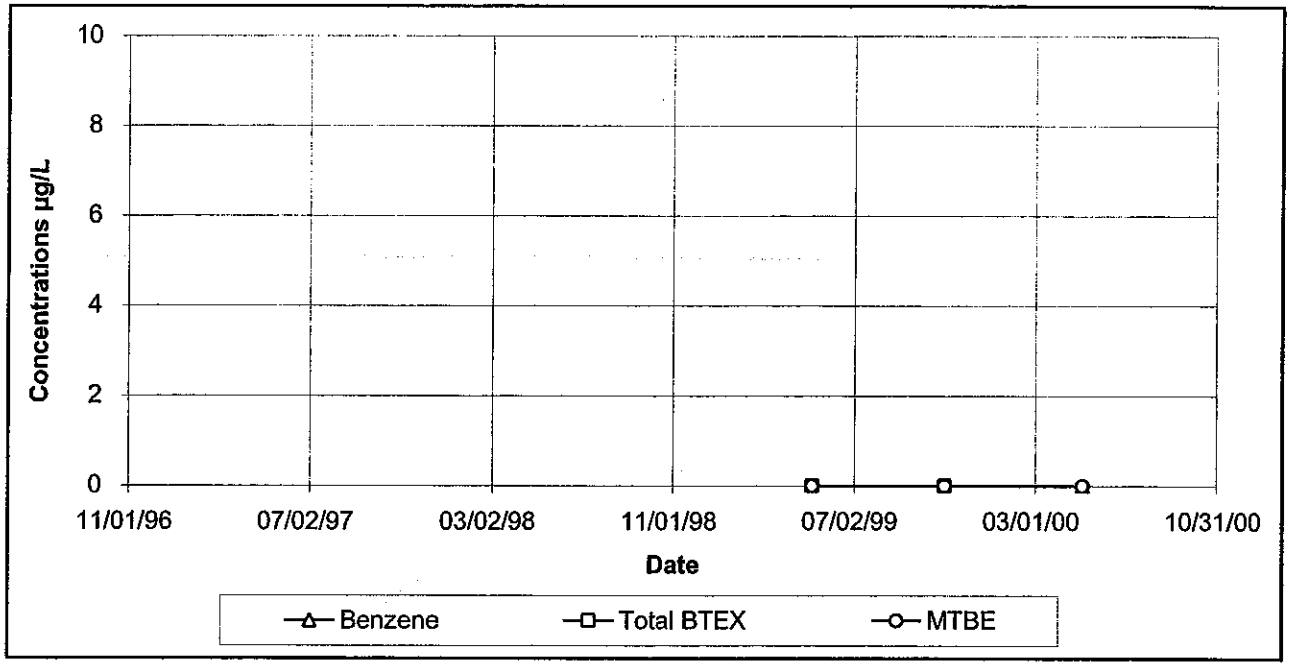


Date	Total BTEX	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	1,3,5 TMB	1,2,4 TMB	Naph-thalene
05/07/99	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
11/02/99	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
05/04/00	ND	**8.0**	ND < 1	ND < 1	ND < 1	ND < 2	ND < 2	ND < 2	ND < 5
05/11/01	ND	**62.8**	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0
05/20/02	ND	**5.7**	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0
11/15/02	ND	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0	ND < 1.0	ND < 1.0
05/17/04	ND	**4.2**	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0	ND < 1.0	ND < 1.0
VGES	--	40	5	1,000	700	10,000	4	5	20

Notes: Concentrations in micrograms per liter (µg/L) except where otherwise noted.
All samples collected by Marin and analyzed by Endyne, Inc. using EPA Method 8021b
MTBE - methyl-tertiary butyl ether
ND - None detected at indicated detection limit
NS - Not Sampled
TBQ - Trace below quantitation limit
VGES - Vermont Groundwater Enforcement Standards
Shaded areas indicate VGES exceedences.
--- Not analyzed for indicated parameter
TMB Trimethyl benzene
* EPA Method 8260

FIGURE 9. MW-5
VOC Concentrations

Parkview Garage
Barton, VT

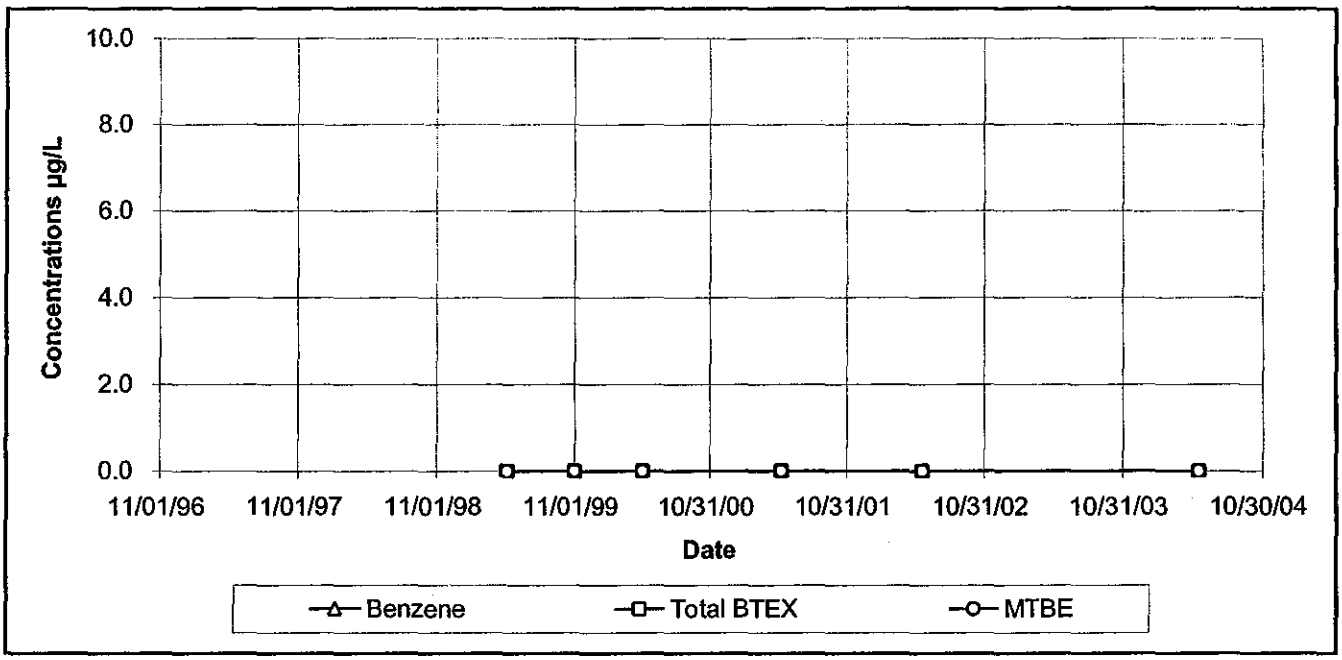


Date	Total BTEX	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	1,3,5 TMB	1,2,4 TMB	Naph-thalene
05/07/99	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
11/02/99	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
05/04/00	ND	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1	ND < 1
VGES	---	40	5	1,000	700	10,000	4	5	20

Notes:
Concentrations in micrograms per liter (µg/L) except where otherwise noted.
All samples collected by Marin and analyzed by Endyne, Inc.
MTBE - methyl-tertiary butyl ether
ND - None detected at indicated detection limit
NS - Not Sampled
TBQ - Trace below quantitation limit
VGES - Vermont Groundwater Enforcement Standards
Shaded areas indicate VGES exceedences.
--- Not analyzed for indicated parameter
TMB Trimethyl benzene
*MW-5 no longer sampled due to a state letter dated 8 May 2001.

FIGURE 10. Supply Well
VOC Concentrations

Parkview Garage
Barton, VT



Date	Total BTEX	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	1,3,5 TMB	1,2,4 TMB	Naph-thalene
05/07/99	ND	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1
11/02/99	ND	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1
05/04/00	ND	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1	ND <1
05/11/01	ND	ND < 1.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	ND < 0.5	ND < 1.0
05/20/02	ND	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0
05/17/04	ND	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0	ND < 1.0	ND < 1.0
VDS	---	40	5	1,000	700	10,000	4	5	20

Notes: Concentrations in micrograms per liter (µg/L) except where otherwise noted.
All samples collected by Marin and analyzed by Endyne, Inc.
MTBE - methyl-tertiary benzene
ND - None detected at indicated detection limit
NS - Not Sampled
TBQ - Trace below quantitation limit
VDS - Vermont Drinking Water Standards
Shaded areas indicate VGES exceedences.
--- Not analyzed for indicated parameter
TMB Trimethyl benzene

ATTACHMENT B

GROUNDWATER ANALYTICAL RESULTS

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

ECS Marin
65 Millet Street
Richmond, VT 05477
Attn: Laura Woodard

PROJECT: Parkview Garage/960090
ORDER ID: 29662
RECEIVE DATE: May 20, 2004
REPORT DATE: June 1, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

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

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

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ACCREDITED IN ACCORDANCE WITH NELAC
ELAP 11263

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

SW 8260

CLIENT: ECS Marin
PROJECT: Parkview Garage/960090
SITE: Dry Well
DATE RECEIVED: May 20, 2004
REPORT DATE: June 1, 2004
ANALYSIS DATE: May 25, 2004

ORDER ID: 29662
REFERENCE NUMBER: 231041
DATE SAMPLED: May 19, 2004
TIME SAMPLED: 11:20 AM
SAMPLER: BB
ANALYST: 725

Parameter	Result ug/kg, dry	Parameter	Result ug/kg, dry
Benzene	448.	1,1-Dichloropropene	< 150.
Bromobenzene	< 150.	cis-1,3-Dichloropropene	< 150.
Bromochloromethane	< 300.	trans-1,3-Dichloropropene	< 150.
Bromodichloromethane	< 150.	Ethylbenzene	5,240.
Bromoform	< 150.	Hexachlorobutadiene	< 300.
Bromomethane	< 750.	Isopropylbenzene	4,210.
n-Butylbenzene	3,200.	p-Isopropyltoluene	73,900.
sec-Butylbenzene	2,550.	Methylene Chloride	< 750.
tert-Butylbenzene	< 150.	MTBE	< 300.
Carbon Tetrachloride	< 150.	Naphthalene	12,400.
Chlorobenzene	< 150.	n-Propylbenzene	10,900.
Chloroethane	< 750.	Styrene	< 150.
Chloroform	< 150.	1,1,1,2-Tetrachloroethane	< 300.
Chloromethane	< 450.	1,1,2,2-Tetrachloroethane	< 300.
2-Chlorotoluene	< 150.	Tetrachloroethene	< 150.
4-Chlorotoluene	< 150.	Toluene	9,720.
Dibromochloromethane	< 150.	1,2,3-Trichlorobenzene	< 300.
1,2-Dibromo-3-Chloropropane	< 300.	1,2,4-Trichlorobenzene	< 300.
1,2-Dibromoethane	< 300.	1,1,1-Trichloroethane	< 150.
Dibromomethane	< 300.	1,1,2-Trichloroethane	< 150.
1,2-Dichlorobenzene	< 150.	Trichloroethene	1,410.
1,3-Dichlorobenzene	< 150.	Trichlorofluoromethane	< 300.
1,4-Dichlorobenzene	< 150.	1,2,3-Trichloropropane	< 300.
Dichlorodifluoromethane	< 750.	1,2,4-Trimethylbenzene	76,000.
1,1-Dichloroethane	< 150.	1,3,5-Trimethylbenzene	28,700.
1,2-Dichloroethane	< 150.	Vinyl Chloride	< 300.
1,1-Dichloroethene	< 150.	Xylenes, Total	39,400.
cis-1,2-Dichloroethene	< 150.	Surrogate 1	100.%
trans-1,2-Dichloroethene	< 150.	Surrogate 2	97.%
1,2-Dichloropropane	< 150.	Surrogate 3	92.%
1,3-Dichloropropane	< 150.	UIP's	> 10.
2,2-Dichloropropane	< 150.	Percent Solids	67.

ACCREDITED IN ACCORDANCE WITH ELAP 11263

ENDYNE, INC.

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

CHAIN-OF-CUSTODY-RECORD

58790

Special Reporting Instructions:

Project Name: Parkview Garage	Reporting Address: 73 Mill St. Richmond, VT.	Billing Address: ~~SAME~~
Endyne Order ID: (Lab Use Only) 296602	Company: ECS Inc.	Sampler Name: Brian Bachmann
-O / -I / -S	Contact Name/Phone #: Laura Woodard / 8005206065	Phone #: 8005206065

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	Dry well	GW	X		5/19/04 1115	2	VOA		8260	HCl	
	Dry well	Soil	X		1120	1	VOA		8260	MeOH	
	Dry well	Soil	X		1 1	1	VOA		8260	—	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Brian Bachmann	5/19/04 1745	[signature]	5/20/04		

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)							33			
34	Other										

LAB USE ONLY

Delivery: PK

Temp: 3.1°C

Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

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

CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions:

Project Name:	Reporting Address:	Billing Address:
Endyne Order ID: (Lab Use Only) -O -I -S	Company: Contact Name/Phone #:	Sampler Name: Phone #:

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time

New York State Project: Yes _____ No _____

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn		
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)	33	
34	Other		

LAB USE ONLY
Delivery:
Temp:
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

ECS Marin
65 Millet Street
Richmond, VT 05477
Attn: Laura Woodard

PROJECT: Parkview Garage/960090
ORDER ID: 29601
RECEIVE DATE: May 18, 2004
REPORT DATE: June 4, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

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

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

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

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ELAP 11263

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

CLIENT: ECS Marin
PROJECT: Parkview Garage/960090
DATE RECEIVED: May 18, 2004
REPORT DATE: June 4, 2004

ORDER ID: 29601
ANAL. METHOD: SW 8021B
SAMPLER: LW
ANALYST: 420

Site: MW-1
Ref. Number: 230830
Date Sampled: 5/17/04
Time Sampled: 11:30 AM
Analysis Date: 5/26/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	21.4
Xylenes, Total	183.
1,3,5 Trimethyl Benzene	30.4
1,2,4 Trimethyl Benzene	214.
Naphthalene	18.2
UIP's	> 10.
Surrogate 1	109.%

Site: MW-4
Ref. Number: 230833
Date Sampled: 5/17/04
Time Sampled: 11:15 AM
Analysis Date: 5/27/04

Parameter	Results ug/L
MTBE	4.2
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	101.%

Site: Water Supply
Ref. Number: 230836
Date Sampled: 5/17/04
Time Sampled: 11:35 AM
Analysis Date: 5/27/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	92.%

Site: MW-2
Ref. Number: 230831
Date Sampled: 5/17/04
Time Sampled: 11:25 AM
Analysis Date: 5/27/04

Parameter	Results ug/L
MTBE	1.6
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	2.0
UIP's	> 10.
Surrogate 1	96.%

Site: MW-6
Ref. Number: 230834
Date Sampled: 5/17/04
Time Sampled: 11:32 AM
Analysis Date: 5/27/04

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 5.0
Toluene	< 5.0
Ethylbenzene	25.3
Xylenes, Total	279.
1,3,5 Trimethyl Benzene	42.0
1,2,4 Trimethyl Benzene	172.
Naphthalene	24.3
UIP's	> 10.
Surrogate 1	112.%

Site: MW-3
Ref. Number: 230832
Date Sampled: 5/17/04
Time Sampled: 11:20 AM
Analysis Date: 5/27/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	100.%

Site: Trip
Ref. Number: 230835
Date Sampled: 5/17/04
Time Sampled: 8:00 AM
Analysis Date: 5/27/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	99.%

ACCREDITED IN ACCORDANCE WITH
ELAP 11263

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

CHAIN-OF-CUSTODY-RECORD

58789

Special Reporting Instructions: PDF please

Project Name: VT96-0090D Parkview Garage	Reporting Address: ECS Richmond VT	Billing Address: ← same
Endyne Order ID: (Lab Use Only) 29601 (-O, -I, -S)	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW-1	GW	X		5/17/04 1130	2	VOA		8021B	HCl	
	MW-2	↓	↓		1125	↓	↓		↓	↓	
	MW-3				1120					*	
	MW-4				1115	↓	↓			*	
	MW-6				1132	1	VOA			*	
	Trip				0800	2	↓				
	Water Supply	↓	↓		1135	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L Woodard	5/17/04 1600	[illegible]	5/18/04 1300		

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) | 33

34 Other * some vials were preserved with HNO_3 by mistake. Please analyze the prepreseeed vials first.

LAB USE ONLY
Delivery: PU
Temp:
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

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

CHAIN-OF-CUSTODY-RECORD

70789

Special Reporting Instructions: PDF [illegible]

Project Name: VT 16-C070D [illegible]	Reporting Address: ECI Richmond VT	Billing Address: [illegible]
Endyne Order ID: (Lab Use Only) -O -I -S	Company: ECI Contact Name/Phone #: [illegible]	Sampler Name: [illegible] Phone #: 4[illegible]-[illegible]

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 9/17/04	Sample Containers No.	Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW-1	GW	X		1130	2	VOA		8021B	HCl	
	MW-2	↓	↓		1125	↓	↓		↓	↓	
	MW-3	↓	↓		1150	↓	↓		↓	*	
	MW-4	↓	↓		1115	↓	↓		↓	*	
	MW-6	↓	↓		1132	1	VOA		↓	*	
	Trip	↓	↓		0800	2	↓		↓	↓	
	Water Supply	↓	↓		1135	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[illegible]	9/17/04 1410	[illegible]	9/1[illegible] 1[illegible]		

New York State Project: Yes ______ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) | 33

34 Other * some vials were pre'd with HNO3 for metals. Please analyze the unpreserved vials first.

LAB USE ONLY
Delivery: [illegible]
Temp: [illegible]
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ATTACHMENT C

DRY WELL ANALYTICAL RESULTS

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

ECS Marin
65 Millet Street
Richmond, VT 05477
Attn: Laura Woodard

PROJECT: Parkview Garage/960090
ORDER ID: 29662
RECEIVE DATE: May 20, 2004
REPORT DATE: June 24, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

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

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

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ACCREDITED IN ACCORDANCE WITH NELAP
ELAP 11263

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

SW 8260

CLIENT: ECS Marin
PROJECT: Parkview Garage/960090
SITE: Dry Well
DATE RECEIVED: May 20, 2004
REPORT DATE: June 24, 2004
ANALYSIS DATE: May 25, 2004

ORDER ID: 29662
REFERENCE NUMBER: 231040
DATE SAMPLED: May 19, 2004
TIME SAMPLED: 11:15 AM
SAMPLER: BB
ANALYST: 725

Parameter	Result ug/L
Benzene	< 5.0
Bromobenzene	< 5.0
Bromochloromethane	< 10.0
Bromodichloromethane	< 5.0
Bromoform	< 5.0
Bromomethane	< 25.0
n-Butylbenzene	< 5.0
sec-Butylbenzene	< 5.0
tert-Butylbenzene	< 5.0
Carbon Tetrachloride	< 5.0
Chlorobenzene	< 5.0
Chloroethane	< 25.0
Chloroform	< 10.0
Chloromethane	< 15.0
4-Chlorotoluene	< 5.0
2-Chlorotoluene	< 5.0
Dibromochloromethane	< 5.0
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 10.0
Dibromomethane	< 10.0
1,2-Dichlorobenzene	< 5.0
1,3-Dichlorobenzene	< 5.0
1,4-Dichlorobenzene	< 5.0
Dichlorodifluoromethane	< 25.0
1,1-Dichloroethane	< 5.0
1,2-Dichloroethane	< 5.0
1,1-Dichloroethene	< 5.0
cis-1,2-Dichloroethene	< 5.0
trans-1,2-Dichloroethene	< 5.0
1,2-Dichloropropane	< 5.0
1,3-Dichloropropane	< 5.0
2,2-Dichloropropane	< 5.0

Parameter	Result ug/L
1,1-Dichloropropene	< 5.0
cis-1,3-Dichloropropene	< 5.0
trans-1,3-Dichloropropene	< 5.0
Ethylbenzene	38.4
Hexachlorobutadiene	< 10.0
Isopropylbenzene	5.1
p-Isopropyltoluene	2,200.
Methylene Chloride	< 25.0
MTBE	10.5
Naphthalene	128.
n-Propylbenzene	10.6
Styrene	< 5.0
1,1,1,2-Tetrachloroethane	< 10.0
1,1,2,2-Tetrachloroethane	< 10.0
Tetrachloroethene	< 5.0
Toluene	116.
1,2,3-Trichlorobenzene	< 10.0
1,2,4-Trichlorobenzene	< 10.0
1,1,1-Trichloroethane	< 5.0
1,1,2-Trichloroethane	< 5.0
Trichloroethene	< 5.0
Trichlorofluoromethane	< 10.0
1,2,3-Trichloropropane	< 10.0
1,2,4-Trimethylbenzene	106.
1,3,5-Trimethylbenzene	33.7
Vinyl Chloride	< 10.0
Xylenes, Total	229.
Surrogate 1	117.%
Surrogate 2	101.%
Surrogate 3	93.%
UIP's	> 10.

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ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

SW 8260

CLIENT: ECS Marin
PROJECT: Parkview Garage/960090
SITE: Dry Well
DATE RECEIVED: May 20, 2004
REPORT DATE: June 24, 2004
ANALYSIS DATE: May 25, 2004

ORDER ID: 29662
REFERENCE NUMBER: 231041
DATE SAMPLED: May 19, 2004
TIME SAMPLED: 11:20 AM
SAMPLER: BB
ANALYST: 725

Parameter	Result ug/kg, dry	Parameter	Result ug/kg, dry
Benzene	448.	1,1-Dichloropropene	< 150.
Bromobenzene	< 150.	cis-1,3-Dichloropropene	< 150.
Bromochloromethane	< 300.	trans-1,3-Dichloropropene	< 150.
Bromodichloromethane	< 150.	Ethylbenzene	5,240.
Bromoform	< 150.	Hexachlorobutadiene	< 300.
Bromomethane	< 750.	Isopropylbenzene	4,210.
n-Butylbenzene	3,200.	p-Isopropyltoluene	73,900.
sec-Butylbenzene	2,550.	Methylene Chloride	< 750.
tert-Butylbenzene	< 150.	MTBE	< 300.
Carbon Tetrachloride	< 150.	Naphthalene	12,400.
Chlorobenzene	< 150.	n-Propylbenzene	10,900.
Chloroethane	< 750.	Styrene	< 150.
Chloroform	< 150.	1,1,1,2-Tetrachloroethane	< 300.
Chloromethane	< 450.	1,1,2,2-Tetrachloroethane	< 300.
2-Chlorotoluene	< 150.	Tetrachloroethene	< 150.
4-Chlorotoluene	< 150.	Toluene	9,720.
Dibromochloromethane	< 150.	1,2,3-Trichlorobenzene	< 300.
1,2-Dibromo-3-Chloropropane	< 300.	1,2,4-Trichlorobenzene	< 300.
1,2-Dibromoethane	< 300.	1,1,1-Trichloroethane	< 150.
Dibromomethane	< 300.	1,1,2-Trichloroethane	< 150.
1,2-Dichlorobenzene	< 150.	Trichloroethene	1,410.
1,3-Dichlorobenzene	< 150.	Trichlorofluoromethane	< 300.
1,4-Dichlorobenzene	< 150.	1,2,3-Trichloropropane	< 300.
Dichlorodifluoromethane	< 750.	1,2,4-Trimethylbenzene	76,000.
1,1-Dichloroethane	< 150.	1,3,5-Trimethylbenzene	28,700.
1,2-Dichloroethane	< 150.	Vinyl Chloride	< 300.
1,1-Dichloroethene	< 150.	Xylenes, Total	39,400.
cis-1,2-Dichloroethene	< 150.	Surrogate 1	100.%
trans-1,2-Dichloroethene	< 150.	Surrogate 2	97.%
1,2-Dichloropropane	< 150.	Surrogate 3	92.%
1,3-Dichloropropane	< 150.	UIP's	> 10.
2,2-Dichloropropane	< 150.	Percent Solids	67.

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

CHAIN-OF-CUSTODY-RECORD

58790

Special Reporting Instructions:

Project Name: Parkview Garage	Reporting Address: 73 Millet St. Richmond, VT.	Billing Address: SAME
Endyne Order ID: (Lab Use Only) 296602 (I -O / -I / -S)	Company: ECS Inc. Contact Name/Phone #: Laura Woodard / 8005206065	Sampler Name: Brian Bachmann Phone #: 8005206065

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	Drywell	GW	X		5/19/04 1115	2	VOA		8260	HCl	
	Drywell	Soil	X		1120	1	VOA		8260	MeOH	
	Drywell	Soil	X		↓ ↓	1	VOA		8260	—	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Brian Bachmann (signature)	5/19/04 1745	(signature)	5/20/04 2207		

New York State Project: Yes ______ No (circled)

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	(24) circled	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) | 33

34 Other

LAB USE ONLY
Delivery: DK
Temp: 3.1°C
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)