

FEB 16 1999

INITIAL SITE INVESTIGATION

**Killington Vehicle Maintenance Garage
Killington Access Road
Killington, VT 05751**

SMS Site #98-2532
UST Facility #506

Longitude 72° 48' 10"
Latitude 43° 37' 04"

A Facility Owned By:
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Killington Road
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January 26, 1999

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EXECUTIVE SUMMARY

Malter Consulting, Inc. (MCI) has performed an Initial Site Investigation for the Killington Vehicle Maintenance Garage located north of the end of the Killington Access Road in Sherburne, Vermont. The purpose of this investigation was to determine the magnitude and extent of a release of petroleum products from this facility.

The facility has been a maintenance garage since 1983. Two, 2,000 gallon diesel underground storage tanks (UST) were installed at the site in 1980; 172 feet of Enviroflex piping and a remote diesel dispenser were served by the diesel USTs; a 1,000 gallon gasoline UST, installation date unknown; a 1,000 gallon used oil UST was installed in 1984 and a 4,000 gallon gasoline UST was installed in 1988, to replace the 1,000 gallon gasoline UST. Removal and permanent closure of all the USTs and appurtenances but the 4,000 gallon gasoline UST occurred in August, 1998. During the removal activities, levels of soil contamination in excess of the Vermont Guidelines were identified with the highest levels just north of the old gasoline dispenser and under the north end of the 1,000 gallon gasoline UST. No free product was encountered. A total of approximately 49 cubic yards of contaminated soil was collected from this site and transported to the Bear Mountain Compressor Pad polyencapsulated stockpile. The soil will be monitored semiannually with a photoionization detector (PID).

Between October 29, 1998 and November 2, 1998 as part of the subsurface investigation of this site five subsurface borings were accomplished to a depth of 5 to 22 feet and monitoring wells were installed in four of the five borings, sampled and surveyed. A shallow and deep piezometer were also completed adjacent to MW-1 in conjunction with a water supply project at Killington. Soil samples were collected during the boring activities and screened using a PID. On November 6, 1998 groundwater samples were collected and analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260 and for Total Petroleum Hydrocarbons (TPH) using EPA Method 8100. A composited soil sample was analyzed for TPH using EPA Method 8100 for soil boring MW-5.

The soils that were monitored during the borings ranged from silty clays to coarse gravel and glacial till. Bedrock was not present throughout the borings. The water table was present at 5.28 feet at MW-1; 9.0 feet at MW-2; 9.86 feet at MW-3 and at 13.97 feet at MW-4. PID readings taken during the soil borings had levels to 2,000 ppm in MW-2 and MW-3; 5.7 ppm at MW-4; 0.2 ppm at MW-5 and non detect at MW-1.

In the groundwater at MW-2, Benzene was present at 8.4 parts per billion (ppb) which exceeds the Vermont Primary Groundwater Quality Enforcement Standard (VPGQES) of 5 ppb; Naphthalene was present at 67 ppb which exceeds the VPGQES of 20.0 ppb; 1,2,4 Trimethylbenzene was present at 201 ppb which exceeds the VPGQES of 5.0 ppb; 1,3,5-Trimethylbenzene was present at 51 ppb which exceed the VPGQES of 4.0 ppb; Acetone was present at 106 ppb; 2-Butanone was present at 16 ppb; Toluene was present at 12 ppb; Ethyl Benzene was present at 41 ppb; Total Xylenes were present at 53.9 ppb; Isopropylbenzene was present at 21 ppb; n-Propylbenzene was present at 71 ppb; sec-Butylbenzene was present at 4.3 ppb; p-Isopropyltoluene was present at 8.4 ppb and n-Butylbenzene was present at 6.1 ppb. TPH for MW-2 was 1.8 parts per million (ppm). At MW-3, Benzene was present at 443 parts per billion (ppb) which exceeds the VPGQES of 5 ppb;

Methyl tertiary Butyl Ether was present at 245 ppb which exceeds the VPGQES of 40 ppb; Naphthalene was present at 198 ppb which exceeds the VPGQES of 20.0 ppb; 1,2,4-Trimethylbenzene was present at 39 ppb which exceeds the VPGQES of 5.0 ppb; 1,3,5-Trimethylbenzene was present at 208 ppb which exceed the VPGQES of 4.0 ppb; Acetone was present at 133 ppb; 2-Butanone was present at 21 ppb; Toluene was present at 414 ppb; Ethyl Benzene was present at 513 ppb; Total Xylenes were present at 859 ppb; Isopropylbenzene was present at 20 ppb; n-Propylbenzene was present at 45 ppb; sec-Butylbenzene was present at 2.1 ppb; p-Isopropyltoluene was present at 3.2 ppb and n-Butylbenzene was present at 2.7 ppb. TPH for MW-3 was 8.2 ppm. At MW-4 Benzene was present at 47 parts per billion (ppb) which exceeds the VPGQES of 5 ppb; Methyl tertiary Butyl Ether was present at 211 ppb which exceeds the VPGQES of 40 ppb; 1,2 Dichloroethane was present at 1.1 ppb; Toluene was present at 0.9 ppb; Isopropylbenzene was present at 0.9 ppb and sec-Butylbenzene was present at 1.0 ppb. The TPH was < 1.5 ppm at MW-4. At MW-5, a composited soil sample was analyzed for TPH and the result was <10 ppm. At MW-1 the TPH was <1.5 ppm and VOCs were not detected. Groundwater flow is to the northeast.

The major source of the contamination was believed to be related to releases associated with the old dispenser and vent pipe fitting from the closed 1,000 gallon gasoline UST. A tributary to Roaring Brook is located ~ 150 feet north, northeast of the site.

Quarterly groundwater sampling and analysis and water level monitoring should be initiated for this site to establish groundwater quality levels over time and monitoring the soil pile semiannually. Following the collection of four quarters of groundwater quality data, a determination should be made on whether any additional remedial investigation should be undertaken in the vicinity of the closed gasoline UST.

1.0 INTRODUCTION

The following report provides information on the Initial Site Investigation performed at the Killington Vehicle Maintenance Garage located off the Killington Access Road in the Town of Sherburne, Vermont (See Figure A). The purpose of this investigation was to determine the degree and extent of petroleum contamination following the closure and removal of a 1,000 gallon used oil UST; two, 2,000 gallon diesel USTs and remote piping and dispenser; the in place closure of a 1,000 gallon gasoline UST and related piping and appurtenances. This work was being accomplished using the Site Investigation Expressway Process.

This report documents the geology and hydrogeology of the site, environmental monitoring and sampling, conclusions and recommendations concerning the site.

1.1 SCOPE OF WORK

The information used to develop this report was obtained through the following activities:(1) drilling five soil borings and installing four monitoring wells; (2) collection and analysis of groundwater and soil samples from the monitoring well points; (3) well elevation and location survey; and (4) reporting of results summarizing the investigation and providing conclusions and recommendations.

2.0 SITE DESCRIPTION

The Killington Vehicle Maintenance Garage is located north of the Killington Access Road in Sherburne, Vermont (See Figure 1). The garage is a 2 story, metal sided structure built on a concrete slab on grade. The facility is located on a 1,070 acre parcel in a fairly rural setting. The site is part of the administrative facilities for the Killington Ski Area. There are forested ski trails bordering to the north and west of the site. There are also gravel parking areas bordering to the north and west of the site. Administrative offices border the south of the site. There is an open field with a tributary of the Roaring Brook bordering the site to the east, northeast. The site is served by a sewage treatment plant. The nearest public water supply is the Killington Base Lodge 270 foot deep bedrock water supply well located approximately 500 feet west of the Vehicle Maintenance Facility. The site is located on a parcel that gently slopes down from west to east over the part of the site where the USTs were located. The slope breaks steeply just east of the Snow Making Barn and Vehicle Maintenance Garage. Groundwater flow is to the northeast. A tributary of Roaring Brook is located ~ 150 feet north, northeast of the site.

3.0 SITE HISTORY

The Killington Vehicle Maintenance Garage has operated as a vehicle maintenance facility for Killington Ltd. since 1983. Two, 2,000 gallon diesel underground storage tanks (UST) were installed at the site in 1980; 172 feet of Enviroflex piping and a remote diesel dispenser were served by the diesel USTs; a 1,000 gallon gasoline UST, installation date unknown; a 1,000 gallon used oil UST was installed in 1984 and a 4,000 gallon gasoline UST was installed in 1988, to replace the

KILLINGTON PEAK QUADRANGLE
VERMONT
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 RUTLAND 15' QUADRANGLE

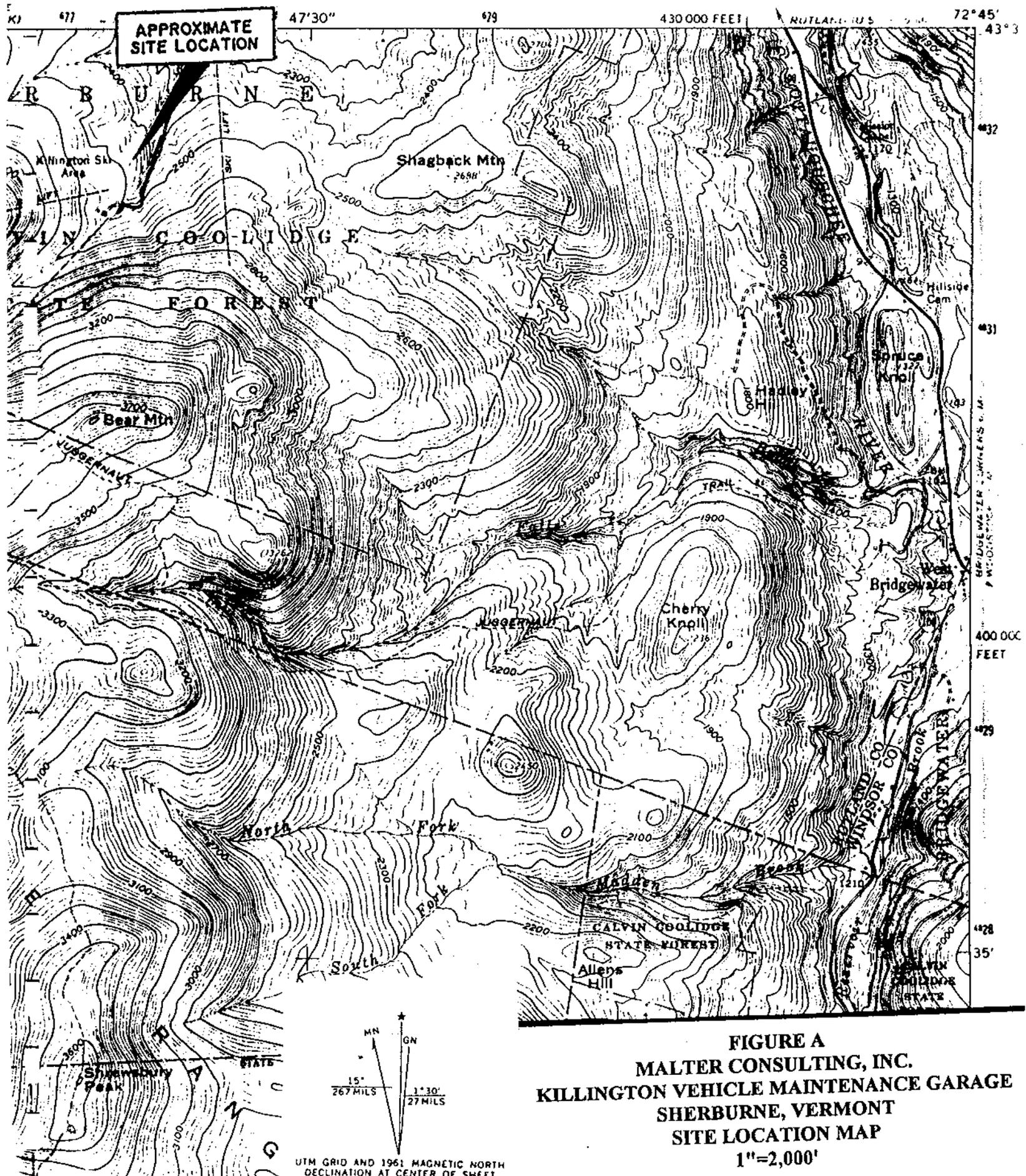
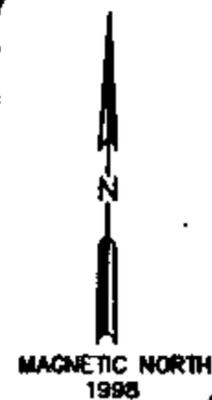


FIGURE A
MALTER CONSULTING, INC.
KILLINGTON VEHICLE MAINTENANCE GARAGE
SHERBURNE, VERMONT
SITE LOCATION MAP
1"=2,000'

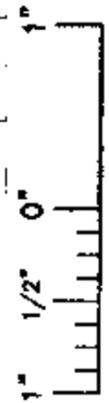
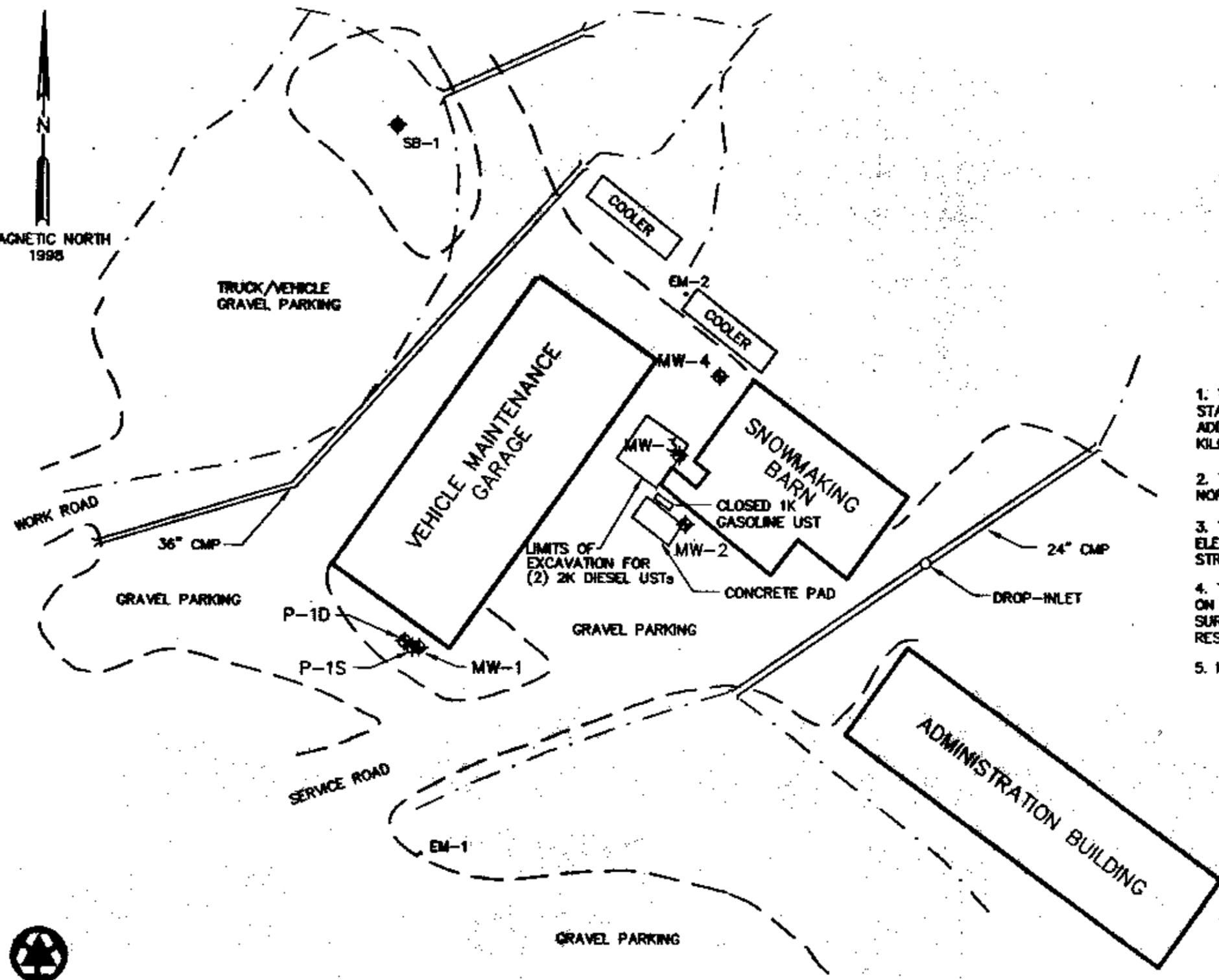


LEGEND

- MW-2 MONITORING WELL
- EM-1 SURVEY CONTROL POINT-REBAR
- STREAM
- EDGE OF ROAD
- CULVERT

NOTES

1. THE PLANIMETRIC FEATURES AS SHOWN BASED UPON A TOTAL STATION FIELD SURVEY CONDUCTED BY EMCON ON 11-5-98. ADDITIONAL FEATURES ADDED BASED UPON A MAP PROVIDED BY KILLINGTON ENTITLED "FACILITY E VEHICLE MAINT. AND SNOWMAKING."
2. THE HORIZONTAL DATUM IS BASED UPON OBSERVED MAGNETIC NORTH ON 11-5-98.
3. THE VERTICAL DATUM IS ASSUMED AND BASED UPON AN ELEVATION OF 500.00 FEET AT THE TOP END OF A METAL STRIP ON THE FF OF THE SOUTH WESTERN BAY DOOR OF THE BLDG.
4. THE HORIZONTAL AND VERTICAL SURVEY CONTROL AS SHOWN ON THIS PLAN WAS CORRECT AT THE TIME THIS PLAN WAS PRODUCED. SURVEY CONTROL DATA IS SUBJECT TO CHANGE AND EMCON ASSUMES NO RESPONSIBILITY FOR THE USE OF INCORRECT OR OUTDATED INFORMATION.
5. MONITORING WELLS INSTALLED BY MALTER CONSULTING INC.



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FIGURE 1
MALTER CONSULTING INC.
 KILLINGTON SKI AREA
 SHERBURNE VERMONT
MONITORING WELL LOCATIONS
KILLINGTON VEHICLE MAINTENANCE

1,000 gallon gasoline UST. Removal and permanent closure of all the USTs and appurtenances but the 4,000 gallon gasoline UST occurred between August 6 and August 10, 1998. The USTs were pumped out by Owner Services, Inc. personnel. The dispensers were de-energized and removed by Owner Services, Inc. and Techtron Environmental personnel. The concrete pad associated with the site was removed by Giancola Construction. Giancola Construction also performed the excavation activities associated with the UST removals. Techtron personnel removed the piping and cleaned the USTs. The environmental site monitoring activities were performed by Malter Consulting, Inc.. Heritage Environmental, Inc., a certified hazardous waste hauler, removed the tank bottom wastes for proper off site disposal.

During the in place closure activities for the 1,000 gallon gasoline UST approximately 9 cubic yards of petroleum contaminated gravel above Vermont Department of Environmental Conservation (VTDEC) threshold action levels were excavated from north of the UST in the vicinity of the dispenser that had served this UST and just above the UST. Additionally approximately 28 cubic yards of sand and gravel above the VTDEC action levels was excavated from the west end of the diesel UST excavation. Also, approximately 12 cubic yards of contaminated gravel above the VTDEC action levels was excavated in the vicinity of the remote diesel dispenser located north of the Vehicle Maintenance Garage. A total of 49 cubic yards of contaminated sand and gravel was transported to the Bear Mountain Compressor Pad area and placed in the polyencapsulated stockpile. The source of the most significant contamination was believed to be related to the old gasoline dispenser and vent pipe fittings for the 1,000 gallon UST. Minor surface contamination associated with fueling spills at the remote diesel dispenser was also noted. Mostly clean fill was placed in the excavation following the removal activities.

4.0 FIELD INVESTIGATION METHODOLOGY AND RESULTS

The following sections provide a summary of the work conducted at the site and the results of the field investigation.

4.1 SOIL BORINGS/MONITORING WELL INSTALLATIONS

In order to determine the degree and extent of possible groundwater and soil contamination at the Killington Vehicle Maintenance Garage, on October 29, 1998 a boring that was completed as a monitoring well, MW-1 was accomplished. Two piezometers, P1-Deep(P1-D) and P1-Shallow (P1-S) were also drilled on October 29, 1998 adjacent to MW-1. These piezometers were installed in conjunction with a water supply project for the Killington Ski Area. On October 30, 1998 MW-5 was bored but due to refusal it was abandoned at 5 feet below ground surface. No monitoring well was set at that point. MW-4 was completed on October 30, 1998. Between November 2 and November 3, 1998, MW-2 and MW-3, two additional borings were completed as monitoring wells. These wells were drilled by Green Mountain Boring of East Barre, Vermont and were supervised by Malter Consulting, Inc.'s geologist. Green Mountain Boring utilized an Aker AD2 drill rig with 4 1/4" inside diameter hollow stem augers. Split spoon soil samples were collected every five feet for MW-1 and MW-4 and continuous sampling was accomplished for MW-2 and MW-3 and were used for geologic descriptions and to collect samples in zip lock bags for PID headspace readings. The soil samples monitored at MW-1 were all nondetectable on the PID. At MW-2 the readings ranged from 3.5 ppm

from 0 to 2 feet to 2,000 ppm at 10 to 12 feet. At MW-3 the PID readings ranged from 14.5 ppm at 2 to 4 feet below grade to 2,000 ppm at 4 to 6 feet. At MW-4 the PID readings ranged from nondetect from 0 to 7 feet to 5.7 ppm at 10 to 12 feet below the ground surface. At MW-5 the readings ranged from from 0.1ppm at 5 feet to 0.2 ppm at 0 to 2 feet.

The monitoring wells were developed using a Whale pump. This was done to remove cuttings, clean the well screen and improve the hydraulic connection between the monitoring well and the adjacent water bearing strata.

Geologic descriptions of the samples were made in the field in accordance with the Unified Soil Classification System. A drillers boring log was maintained for each well (See Appendix A).

To prevent cross contamination all of Green Mountain Boring's downhole tools and equipment were steam cleaned prior to drilling each well.

The monitoring wells were established to determine the possible degree and extent of petroleum contamination and the direction of groundwater flow. MW-1 was installed approximately 8 feet southwest of the Vehicle Maintenance Building. This well serves as the up gradient monitoring well. MW-2 was installed just east of the 1,000 gallon closed gasoline UST. MW-3 was installed just east of the shed and about 20 feet north of the 1,000 gasoline UST location. MW-4 was installed east of the Vehicle Maintenance Garage on the raised bed in front of the Snow Making Barn. MW-5 was attempted 30 feet northwest of the south light pole located behind the Maintenance Garage. Ten feet of well screen was installed in monitoring wells MW-1, MW-2 and MW-4. Fifteen feet of well screen was installed in MW-3. MW-1 was screened from 14 to 4 feet below ground surface. MW-2 was screened from 15 to 5 feet below ground surface. MW-3 was screened from 18 to 3 feet below the ground surface. MW-4 was screened from 20 to 10 feet. Cone caps were installed on the bottom of each well.

Each of the wells was constructed of 2 inch ID Schedule 40, flush threaded PVC riser pipe and factory slotted 0.020 inch commercial flush threaded PVC well screen. With the well screen in place, a clean silica sand pack was installed in the annular space from 14 to 2 feet below ground surface with a bentonite slurry seal placed between 2 feet and 0.5 foot below ground surface and native backfill and concrete to the ground surface for MW-1. A 4.30 foot high protective casing surrounds the PVC stick up on MW-1. The silica sand pack for MW-2 was installed between 15 feet and 3 feet below ground surface with a bentonite slurry between 3 feet and 1 foot and native backfill and concrete to the ground surface. A 4.27 foot high protective casing surrounds the PVC stick up on MW-2. The silica sand pack for MW-3 was installed between 18 and 2 feet below ground surface with a bentonite slurry from 2 feet to 0.5 foot below the ground surface and native backfill and concrete to the ground surface. A 3.19 foot high protective casing surrounds the PVC stick up on MW-3. The silica sand pack for MW-4 was installed between 20 and 7 feet below the ground surface with a bentonite slurry seal between 7 to 5.5 feet and native backfill between 5.5 and 0.5 foot and concrete to the surface. A 4.31 foot high protective casing surrounds the PVC stick up on MW-4.

4.2 SITE GEOLOGY

The surficial geology at the site was documented by examining and classifying soil samples collected during the subsurface drilling program. From 0 to 5 feet at MW-1 was predominantly fine sand over fine to coarse sand with minor silt and gravel from 5 to 7 feet and from 10 to 12 feet was a medium to coarse sand and gravel over a silty sand and gravel from 15 to 17 feet below the ground surface. For MW-2 and MW-3 samples were taken continuously instead every five feet in order to get a more detailed picture of the surficial geology in the most highly impacted portion of the site. From 0 to 2 feet at MW-2 was a coarse sand and medium gravel; from 2 to 4 feet was a finer sand and medium gravel; from 4 to 6 feet is a silty sand and gravel over a fine wet sand over coarse gravel at 6 to 8 feet; from 8 to 10 feet was a gravel lense with coarse sand over fine sand and fine gravel over coarse gravel; from 10 to 12 feet was a silty sand over medium to coarse gravel with some sand; from 12 to 14 feet was a silty sand and fine gravel over coarse gravel; from 14 to 16 feet was a silty sand with coarse gravel and the well was set at 15 feet. From 0 to 2 feet at MW-3 was coarse sand and gravel; from 2 to 4 feet was a coarse sand and gravel with lenses of sand and silt; from 4 to 6 feet was coarse sand and gravel over an organic layer of roots over fine sand and silt over silty fine sand; from 6 to 8 feet was silty clay with sand lenses; from 8 to 10 feet was a coarse grained sand and gravel with sand lenses present; from 10 to 12 feet was a fine sand and gravel over silty sand and gravel; from 12 to 14 feet was a wet silty sand over sand and gravel; there was no sample recovered from 14 to 16 feet and from 16 to 18 feet was a silty fine sand with some gravel. MW-3 was set at 18 feet below the ground surface. From 0 to 2 feet at MW-4 was a fine to medium sand with minor silt over sand with medium gravel; from 5 to 7 feet was a silty sand over sand and gravel and coarse sand; from 10 to 12 feet was a sandy silt with mottling over a wet glacial till; from 15 to 17 feet was a coarse sand a gravel over till and from 20 to 22 feet was a coarse sand over silty sand. MW-4 was set a 20 feet. From 0 to 2 feet at MW-5 was a fine to medium sand with gravel and some mottling; from 5 to 7 feet was a sand over till with refusal at ~ 5 feet. The boring location was moved twice in an effort to get through the till and each was met with refusal. This boring was discontinued at 5 feet.

Two piezometers, P1-Deep(P1-D) and P1-Shallow (P1-S) were drilled on October 29, 1998 by Green Mountain Boring adjacent to MW-1. These piezometers were installed conjunction with a water supply project for the Killington Ski Area. The lithology of the borings is the same as MW-1, however the deep piezometer extended to 25 to 27 feet . From 20 to 22 feet at P1-D was a tight till with silt and sand and from 25 to 27 feet was a coarse saturated sand and gravel. Both PID readings were nondetect.

The Surficial Geologic Map of Vermont (1970) identifies the surficial materials in the vicinity of the site as glacial till.

Bedrock was not encountered in any of the wells on site. The predominant bedrock in the area is the Mount Holly Complex primarily a quartzite.

4.3 SITE HYDROGEOLOGY

Water level data recorded from onsite monitoring wells MW-1, MW-2, MW-3 and MW-4 on November 6, 1998, was used to construct a groundwater contour map across the site (See Figure 2). Depths to groundwater at these wells ranged from approximately 5.28 feet below the ground surface at MW-1; to 9.00 feet below the ground surface at MW-2; MW-3 was at 9.86 feet below the ground surface and MW-4 was at 13.97 feet below the ground surface (See Table 1). The hydraulic gradient is calculated as 0.09 feet per foot (ft/ft), with flow to the northeast.

4.4 ENVIRONMENTAL MONITORING AND SAMPLE COLLECTION

To characterize the site, a series of monitoring activities were undertaken. These included: photoionization detector screening of the split spoon samples collected every five feet for MW-1 and MW-4 and continuous split spoon sampling for MW-2 and MW-3 during the soil boring activities and collection and analysis of groundwater samples from monitoring wells MW-1, MW-2, MW-3 and MW-4. The continuous spoon sampling for MW-2 and MW-3 was done to better characterize the area for potential future remedial actions if necessary. At MW-5, due to refusal at 5 feet, a shallow composited soil sample was collected on October 30, 1998 and analyzed for TPH by EPA Method 8100.

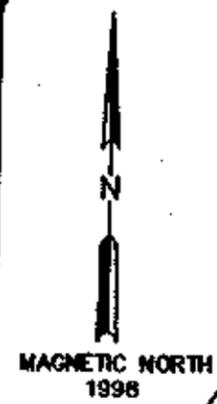
During the drilling activities split spoon soil samples recovered were placed in a zip lock bag and the head space was then monitored using a 10.6eV Photovac 2020 PID which was calibrated at the beginning of the day.

On November 6, 1998, groundwater quality samples were collected from MW-1, MW-2, MW-3 and MW-4 using dedicated PVC bailers for the wells. Each of the functioning monitoring wells was bailed until the pH, specific conductance and the temperature values stabilized to within 10 percent variation. A minimum of three well volumes of water were purged from each well prior to sampling. Water levels were measured using a Monoflex Water Level Indicator and measuring tape. Samples were collected and analyzed for aromatic organic hydrocarbons and Methyl tertiary Butyl Ether using EPA Method 8260B and for Total Petroleum Hydrocarbons using EPA Method 8100.

As part of the quality assurance and quality control protocol during the sampling round, a trip blank was carried to the site and a duplicate sample was collected at one of the three sampling sites at the Killington Ski Area. Duplicate samples were collected at each monitoring site.

All samples were packed on ice and delivered in coolers accompanied by a completed chain of custody from the time of sample collection to the time of delivery to the laboratory. The analytical testing was performed by SciTest, Inc. of Randolph, Vermont.

Groundwater analytical results at MW-2 showed Benzene was present at 8.4 parts per billion (ppb) which exceeds the Vermont Primary Groundwater Quality Enforcement Standard (VPGQES) of 5 ppb; Naphthalene was present at 67 ppb which exceeds the VPGQES of 20.0 ppb; 1,2,4 Trimethylbenzene was present at 201 ppb which exceeds the VPGQES of 5.0 ppb; 1,3,5-

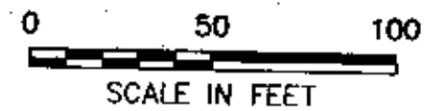
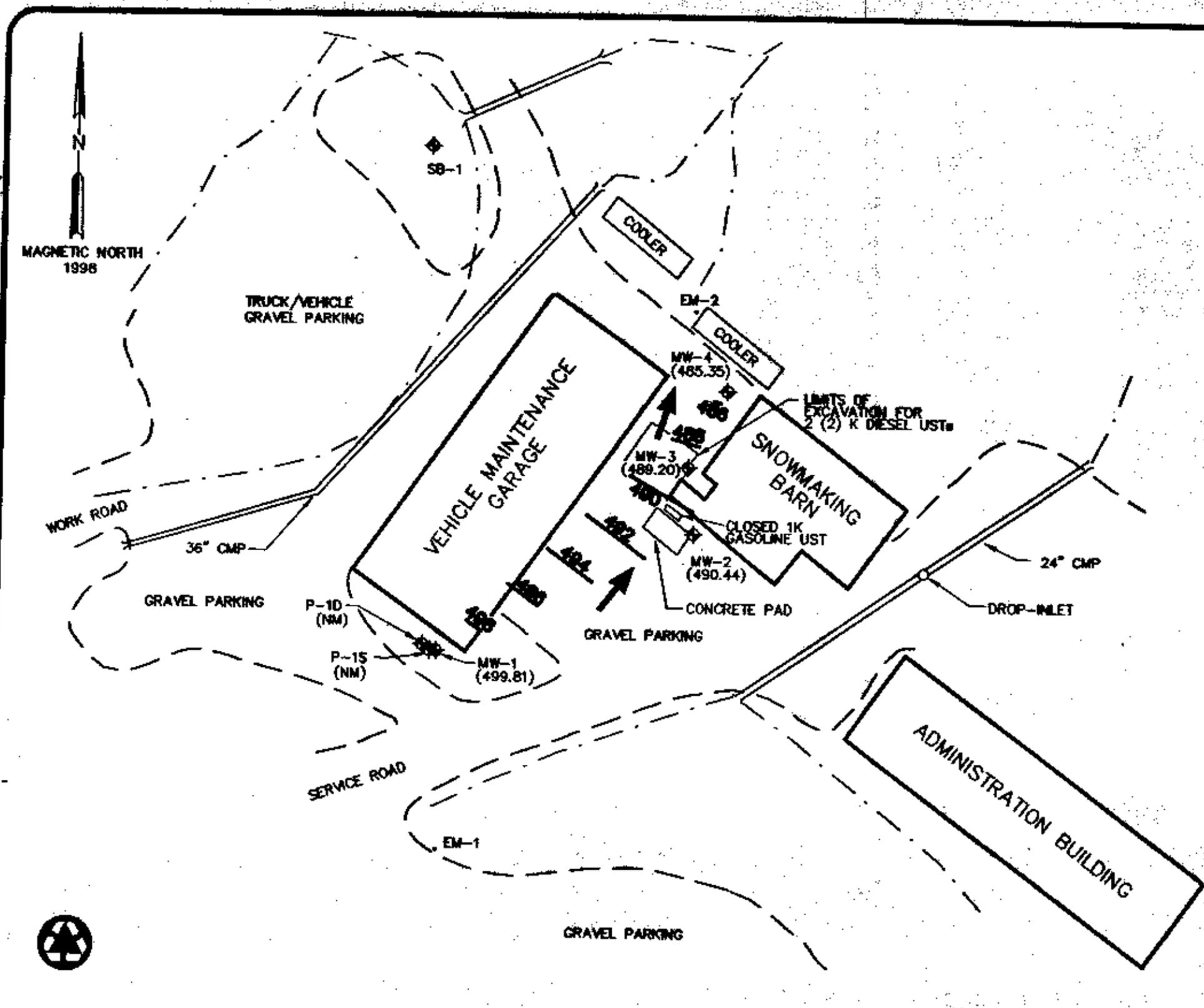


LEGEND

- MW-2 (488.71) MONITORING WELL
- EM-1 SURVEY CONTROL POINT-REBAR
- STREAM
- EDGE OF ROAD
- GROUNDWATER CONTOUR 11-5-98
- GROUNDWATER FLOW DIRECTION

NOTES

1. THE PLANIMETRIC FEATURES AS SHOWN BASED UPON A TOTAL STATION FIELD SURVEY CONDUCTED BY EMCON ON 11-5-98. ADDITIONAL FEATURES ADDED BASED UPON A MAP PROVIDED BY KILLINGTON ENTITLED "FACILITY E VEHICLE MAINT. AND SNOWMAKING."
2. THE HORIZONTAL DATUM IS BASED UPON OBSERVED MAGNETIC NORTH ON 11-5-98.
3. THE VERTICAL DATUM IS ASSUMED AND BASED UPON AN ELEVATION OF 500.00 FEET AT THE TOP END OF A METAL STRIP ON THE FF OF THE SOUTH WESTERN BAY DOOR OF THE BLDG.
4. THE HORIZONTAL AND VERTICAL SURVEY CONTROL AS SHOWN ON THIS PLAN WAS CORRECT AT THE TIME THIS PLAN WAS PRODUCED. SURVEY CONTROL DATA IS SUBJECT TO CHANGE AND EMCON ASSUMES NO RESPONSIBILITY FOR THE USE OF INCORRECT OR OUTDATED INFORMATION.
5. GROUNDWATER ELEVATIONS EXPRESSED IN FEET AND PROVIDED TO EMCON BY MALTER CONSULTING INC.



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PROJECT NO.	86841-001.000

FIGURE 2
MALTER CONSULTING INC.
 KILLINGTON SKI AREA
 SHERBURNE VERMONT
GROUNDWATER CONTOURS 11-5-98
KILLINGTON VEHICLE MAINTENANCE

Table 1

**Monitoring Well & Groundwater Elevation Data
Vehicle Maintenance Garage, Killington Ski Area**

Monitoring Well Designation	Ground Surface	Top of PVC Pipe	Top of Casing	Depth to Groundwater	Groundwater Elevation	Description
MW-1	505.09	509.23	509.39	9.42	499.81	2" diameter PVC well with stickup protective casing
MW-2	499.44	503.56	503.71	13.12	490.44	2" diameter PVC well with stickup protective casing
MW-3	499.06	502.07	502.25	12.87	489.20	2" diameter PVC well with stickup protective casing
MW-4	499.32	503.42	503.63	18.07	485.35	2" diameter PVC well with stickup protective casing
P1-S	504.77	NM	504.77	NM	NM	2" diameter PVC well with stickup protective casing
P1-D	504.45	NM	504.45	NM	NM	Flush mounted road box

Note:

1. Elevations expressed in feet. Based upon assumed datum.
2. Top of PVC pipe and top of casing elevations are with cap removed.
3. Depth to groundwater measurement taken on November 6, 1998
4. Depth to groundwater measurement taken from top of PVC pipe.

Trimethylbenzene was present at 51 ppb which exceeded the VPGQES of 4.0 ppb; Acetone was present at 106 ppb; 2-Butanone was present at 16 ppb; Toluene was present at 12 ppb; Ethyl Benzene was present at 41 ppb; Total Xylenes were present at 53.9 ppb; Isopropylbenzene was present at 21 ppb; n-Propylbenzene was present at 71 ppb; sec-Butylbenzene was present at 4.3 ppb; p-Isopropyltoluene was present at 8.4 ppb and n-Butylbenzene was present at 6.1 ppb. TPH for MW-2 was 1.8 parts per million (ppm). At MW-3, Benzene was present at 443 parts per billion (ppb) which exceeds the VPGQES of 5 ppb; Methyl tertiary Butyl Ether was present at 245 ppb which exceeds the VPGQES of 40 ppb; Naphthalene was present at 198 ppb which exceeds the VPGQES of 20.0 ppb; 1,2,4 Trimethylbenzene was present at 39 ppb which exceeds the VPGQES of 5.0 ppb; 1,3,5-Trimethylbenzene was present at 208 ppb which exceeded the VPGQES of 4.0 ppb; Acetone was present at 133 ppb; 2-Butanone was present at 21 ppb; Toluene was present at 414 ppb; Ethyl Benzene was present at 513 ppb; Total Xylenes were present at 859 ppb; Isopropylbenzene was present at 20 ppb; n-Propylbenzene was present at 45 ppb; sec-Butylbenzene was present at 2.1 ppb; p-Isopropyltoluene was present at 3.2 ppb and n-Butylbenzene was present at 2.7 ppb. TPH for MW-3 was 8.2 ppm. At MW-4 Benzene was present at 47 parts per billion (ppb) which exceeds the VPGQES of 5 ppb; Methyl tertiary Butyl Ether was present at 211 ppb which exceeds the VPGQES of 40 ppb; 1,2 Dichloroethane was present at 1.1 ppb; Toluene was present at 0.9 ppb; Isopropylbenzene was present at 0.9 ppb and sec-Butylbenzene was present at 1.0 ppb. The TPH was < 1.5 ppm at MW-4. At MW-5, a composited soil sample was analyzed for TPH and the result was <10 ppm. At MW-1 the TPH was <1.5 ppm and VOCs were not detected. (See Table 2 and Appendix B). The Total BTEX concentrations for the monitoring wells is shown on Figure 3.

4.5 LOCATION AND ELEVATION SURVEY

On November 5, 1998 a location and elevation survey of the monitoring wells was conducted at the Killington Vehicle Maintenance Garage. The vertical datum is expressed in feet and is based upon an assumed elevation of 500 feet at the top end of a metal strip on the western bay door of the Killington Vehicle Maintenance Garage. Elevations at the top of the PVC riser pipe and protective well casing and the ground surface were determined for the four monitoring well and at the top of the casing and ground surface for the shallow and deep piezometers.

5.0 SUMMARY AND CONCLUSIONS

The Killington Vehicle Maintenance Garage has had some impact by petroleum contamination in the soil and groundwater in the vicinity of the gasoline dispenser and 1,000 gallon closed gasoline UST located just southwest of the Snow Making Barn and shed area. The releases appear to be from spills in the vicinity of the dispenser and from vent pipe fittings for the UST. Some surficial contamination associated with fueling activities in the vicinity of the remote diesel dispenser just north of the maintenance garage was also noted.

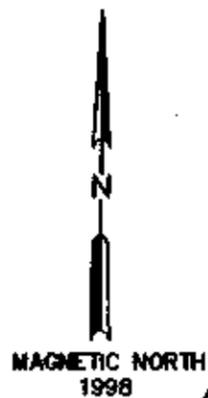
Field investigations were begun on October 29, 1998. A total of five subsurface borings were accomplished to a depth of 5 to 22 feet and monitoring wells (MW-1, MW-2, MW-3 and MW-4) were installed in four of the five borings, sampled and surveyed. MW-5 hit refusal at 5 feet below the ground surface and was discontinued. Shallow and deep piezometers for a water supply project were

TABLE 2

**GROUNDWATER ANALYTICAL RESULTS, NOVEMBER 6, 1998
KILLINGTON VEHICLE MAINTENANCE GARAGE**

Analyte	Enforcement Standard (ug/L)	MW-1	MW-2	MW-3	MW-4	MW-5	Trip Blank
Acetone	700		106	133			
2-Butanone	NS		16.0	21.0			
Methyl tertiary Butyl Ether	40			245	211		
Benzene	5.0		8.4	443	47.0		
1,2-Dichloroethane	5.0				1.1		
Toluene	1,000.0		12.0	414	0.9		
Ethylbenzene	700		41.0	513			
Total Xylenes	10,000.0		53.9	859			
Isopropylbenzene	NS		21.0	20.0	0.9		
n-Propylbenzene	NS		71.0	45.0			
1,3,5-Trimethylbenzene	4.0		51.0	208			
1,2,4-Trimethylbenzene	5.0		201	39.0			
sec-Butylbenzene	NS		4.3	2.1	1.0		
p-Isopropyltoluene	NS		8.4	3.2			
n-Butylbenzene	NS		6.1	2.7			
Naphthalene	20.0		67	198			
TPH	NS	<1.5	1.8	8.2	<1.5	<10	

NS=No Enforcement Standard Set, Standards are from the Vermont Groundwater Protection Rule and Strategy. Analytical results are EPA Method 8260B except for TPH which was done using EPA Method 8100. MW-5 was a composited soil boring analyzed for TPH only. All blank spaces were below the method reporting level. All results are in micrograms per liter (ug/L), equivalent to parts per billion (ppb), except TPH reported in milligrams per liter, equivalent to parts per million.

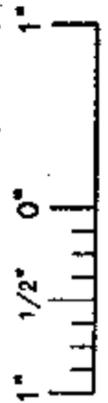
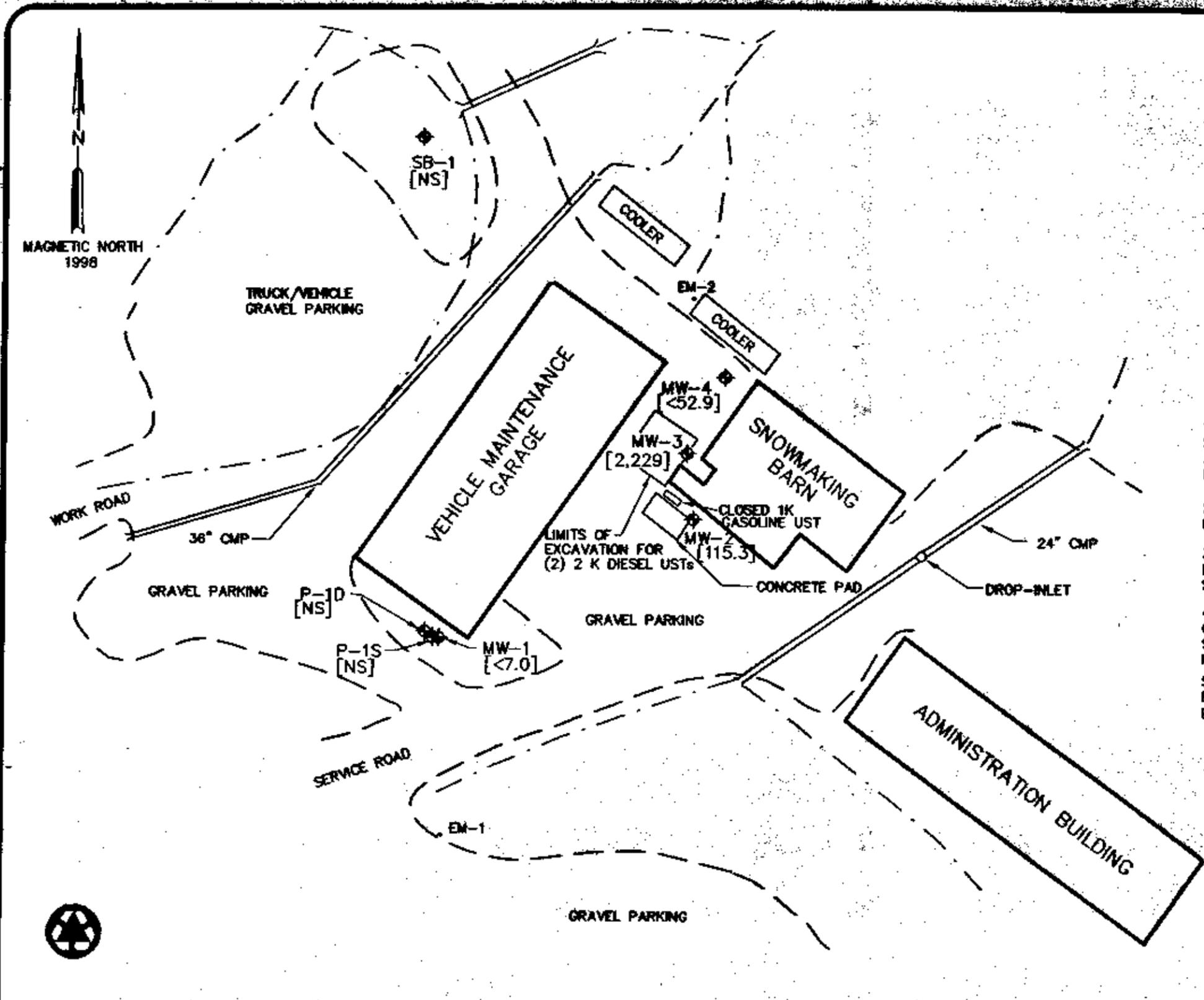


LEGEND

- ◆ MW-2 MONITORING WELL
- [<7.0] TOTAL BTEX CONCENTRATION (PPB)
- EM-1 SURVEY CONTROL POINT-REBAR
- STREAM
- - - EDGE OF ROAD

NOTES

1. THE PLANIMETRIC FEATURES AS SHOWN BASED UPON A TOTAL STATION FIELD SURVEY CONDUCTED BY EMCON ON 11-5-98. ADDITIONAL FEATURES ADDED BASED UPON A MAP PROVIDED BY KILLINGTON ENTITLED "FACILITY E VEHICLE MAINT. AND SNOWMAKING."
2. THE HORIZONTAL DATUM IS BASED UPON OBSERVED MAGNETIC NORTH ON 11-5-98.
3. THE VERTICAL DATUM IS ASSUMED AND BASED UPON AN ELEVATION OF 500.00 FEET AT THE TOP END OF A METAL STRIP ON THE FF OF THE SOUTH WESTERN BAY DOOR OF THE BLDG.
4. THE HORIZONTAL AND VERTICAL SURVEY CONTROL AS SHOWN ON THIS PLAN WAS CORRECT AT THE TIME THIS PLAN WAS PRODUCED. SURVEY CONTROL DATA IS SUBJECT TO CHANGE AND EMCON ASSUMES NO RESPONSIBILITY FOR THE USE OF INCORRECT OR OUTDATED INFORMATION.
5. BTEX CONCENTRATIONS PROVIDED BY MALTER CONSULTING INC. EXPRESSED IN MICROGRAMS PER LITER (ug/L) AND ANALYZED BY EPA METHOD 8021B.



UNAUTHORIZED CHANGES, USES, AND TIME EFFECTS: This document is prepared specifically for the Client and project designated hereon. EMCON will not be responsible or liable for unauthorized changes to or uses of this plan/drawing. Any change to this plan/drawing must be documented in writing and requires approval of EMCON. This plan/drawing reflects the regulatory requirements of concurrence in effect at the time of its issuance.

DATE	1-5-99
DWN	EM
APP	NPN
REV	
PROJECT NO.	86841-001.000

FIGURE 3
 MALTER CONSULTING INC.
 KILLINGTON SKI AREA
 SHERBURNE VERMONT
TOTAL BTEX CONCENTRATIONS
KILLINGTON VEHICLE MAINTENANCE

also installed in the vicinity of MW-1. The deep piezometer was to a depth of 25-27 feet and the shallow piezometer was to a depth of 15 to 17 feet. All of these monitoring points were used to characterize the soil and groundwater conditions on the site. The groundwater monitoring wells were also used to determine the groundwater flow direction and the degree of groundwater contamination. The depth to groundwater ranged from 5.28 feet below the ground surface at MW-1 to 13.97 feet below the ground surface at MW-4. The hydraulic gradient was calculated as 0.09 feet per foot (ft/ft), with flow to the northeast.

Variable soils were observed in the borings. Soils consisted predominantly of silty sands to coarse sand and gravel. A till layer was evident at ~ 20 to 22 feet in the deep piezometer.

Based on the results of the first round of groundwater sampling, MW-2 showed Benzene was present at 8.4 parts per billion (ppb) which exceeds the Vermont Primary Groundwater Quality Enforcement Standard (VPGQES) of 5 ppb; Naphthalene was present at 67 ppb which exceeds the VPGQES of 20.0 ppb; 1,2,4 Trimethylbenzene was present at 201 ppb which exceeds the VPGQES of 5.0 ppb; 1,3,5-Trimethylbenzene was present at 51 ppb which exceed the VPGQES of 4.0 ppb; Acetone was present at 106 ppb; 2-Butanone was present at 16 ppb; Toluene was present at 12 ppb; Ethyl Benzene was present at 41 ppb; Total Xylenes were present at 53.9 ppb; Isopropylbenzene was present at 21 ppb; n-Propylbenzene was present at 71 ppb; sec-Butylbenzene was present at 4.3 ppb; p-Isopropyltoluene was present at 8.4 ppb and n-Butylbenzene was present at 6.1 ppb. TPH for MW-2 was 1.8 parts per million (ppm). At MW-3, Benzene was present at 443 parts per billion (ppb) which exceeds the VPGQES of 5 ppb; Methyl tertiary Butyl Ether was present at 245 ppb which exceeds the VPGQES of 40 ppb; Naphthalene was present at 198 ppb which exceeds the VPGQES of 20.0 ppb; 1,2,4 Trimethylbenzene was present at 39 ppb which exceeds the VPGQES of 5.0 ppb; 1,3,5-Trimethylbenzene was present at 208 ppb which exceed the VPGQES of 4.0 ppb; Acetone was present at 133 ppb; 2-Butanone was present at 21 ppb; Toluene was present at 414 ppb; Ethyl Benzene was present at 513 ppb; Total Xylenes were present at 859 ppb; Isopropylbenzene was present at 20 ppb; n-Propylbenzene was present at 45 ppb; sec-Butylbenzene was present at 2.1 ppb; p-Isopropyltoluene was present at 3.2 ppb and n-Butylbenzene was present at 2.7 ppb. TPH for MW-3 was 8.2 ppm. At MW-4 Benzene was present at 47 parts per billion (ppb) which exceeds the VPGQES of 5 ppb; Methyl tertiary Butyl Ether was present at 211 ppb which exceeds the VPGQES of 40 ppb; 1,2 Dichloroethane was present at 1.1 ppb; Toluene was present at 0.9 ppb; Isopropylbenzene was present at 0.9 ppb and sec-Butylbenzene was present at 1.0 ppb. The TPH was < 1.5 ppm at MW-4. At MW-5, a composited soil sample was analyzed for TPH and the result was <10 ppm. At MW-1 the TPH was <1.5 ppm and VOCs were not detected.

Based on the initial investigation of this site, quarterly water quality and water level monitoring of the four monitoring wells should be undertaken for at least one year of sampling. Monitoring of the soil stockpile that was moved to the Bear Mountain Compressor Pad area should be accomplished semiannually until the PID levels are below Vermont DEC action levels.

6.0 RECOMMENDATIONS

Malter Consulting, Inc. recommends that quarterly groundwater sampling and analyses and water level monitoring should be undertaken for the four monitoring wells. This sampling should be accomplished for at least one year in order to establish groundwater quality levels at this site. Following the collection of four quarters of groundwater quality data, a determination should be made on whether any additional remedial investigation should be undertaken in the vicinity of the closed gasoline UST. The polyencapsulated soil stockpile at the Bear Mountain Compressor Pad area should be monitored by PID on a semiannual basis until the PID levels are below Vermont DEC action levels.

7.0 REFERENCES

Doll, Charles G. et al (1961) Centennial Geologic Map of Vermont 1:250,000, Vermont Geological Survey

Doll, Charles G. Et al (1970) Surficial Geologic Map of Vermont, Vermont Geologic Survey

Vermont Department of Environmental Conservation, Waste Management Division, Hazardous and Petroleum Sites List, Vermont Spills Data Base Listing

Vermont Department of Environmental Conservation, Chapter 12, Groundwater Protection Rule and Strategy, Effective : November 15, 1997

APPENDIX A

GREEN MOUNTAIN BORING
 PO Box 218 ° East Barre, Vermont 05649 ° 802 476-5073

TO: Malter Consulting Inc. ATTN: John Malter P O. Box 176 Waterbury, VT 05676	PROJECT NAME: Killington Wells Killington Vehicle Maintenance LOCATION: Sherburne, Vermont 98115 GMB JOB #:	SHEET: 9 DATE: 10/29/98 HOLE #: MW-1 LINE & STA. OFFSET: None
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Ground Water Observations At 13' at 0 Hours	Augers-Size I.D. 4.25" Split Spoon 13/8" Hammer Wt. 140# Hammer Fall 30"	Surface Elev.: Date Started: 10/29/98 Date Completed: 10/30/98 Boring Foreman: Ronald Garneau Inspector: John Malter Soils Engineer:
--	---	---

LOCATION OF BORING:

Depth	Casing Blows Per Foot	Sample Depths From/To	Type of Sample	Blows per 6" on Sampler	Moisture Density or Consist.	Strata Change Elev.	Soil Identification	Sample		
								No.	Pen.	Rec.
		5'-7'	D	1/3/0/2	Moist		Fine sand and gravel	1	24"	2"
		10'-12'	D	19/19/13/7	Wet		Fine to coarse silty sand and gravel	2	24"	2"
		15'-17'	D	4/7/9/9	Wet		Fine to coarse silty sand and gravel	3	24"	12"
							<u>SET WELL @ 15'</u> 10' .020 Screen 9' Riser 1 Top plug 1 Cone cap 2 Bags Silica 1/2 Bag Chips Stand-up casing			

Ground Surface to 15'

Used 4.25" Augers, then Split spoon to 17'. Set Well @ 15'

SUMMARY: Earth Boring: 17'

Rock Coring:

Samples: 3

HOLE # MW-1

Sample Type Definitions: D = Dry C = Cored W = Washed UT = Undisturbed Thinwall

GREEN MOUNTAIN BORING
 PO Box 218 ° East Barre, Vermont 05649 ° 802 476-5073

TO: Malter Consulting Inc. ATTN: John Malter P O. Box 176 Waterbury, VT 05676	PROJECT NAME: Killington Wells	SHEET: 13
	LOCATION: Killington Vehicle Maintenance Sherburne, Vermont	DATE: 11/02/98
	GMB JOB #: 98115	HOLE #: MW-2
		LINE & STA. OFFSET: None

Ground Water Observations At 14' at 0 Hours	Augers-Size I.D. 4.25"	Surface Elev.:
	Split Spoon 13/8"	Date Started: 11/02/98
	Hammer Wt. 140#	Date Completed: 11/03/98
	Hammer Fall 30"	Boring Foreman: Ronald Garneau
		Inspector: John Malter
		Soils Engineer:

LOCATION OF BORING:

Depth	Casing Blows Per Foot	Sample Depths From/To	Type of Sample	Blows per 6" on Sampler	Moisture Density or Consist.	Strata Change Elev.	Soil Identification	Sample		
								No.	Pen.	Rec.
		0'-2'	D	4/3/4/4	Damp		Silty fine sand with fine gravel	1	24"	3"
		2'-4'	D	4/6/5/7	Damp		Silty fine sand with fine gravel	2	24"	6"
		4'-6'	D	3/2/1/1	Wet		Silt with fine to coarse sand and gravel	3	24"	12"
		6'-8'	D	8/10/9/8	Wet		Silt with fine to coarse sand and gravel	4	24"	16"
		8'-10'	D	8/7/15/35	Moist		Silt with fine to coarse sand and gravel	5	24"	12"
		10'-12'	D	16/18/14/12	Damp		Silt with fine to coarse sand and gravel	6	24"	16"
		12'-14'	D	78/100 for 3"	Damp		Silt with fine to coarse sand and gravel	7	9"	9"
		14'-15'	D	31/100 for 4"	Saturated		Silt with fine to coarse sand and gravel	8	10"	3"
							Set well @ 15'			
							10' Screen			
							9' Riser			
							3 Bags Silica			
							1.5 Bags Chips			
							1 Top plug			
							1 Cone cap			
							Stand-up casing			

Ground Surface to 15'

Used 4.25" Augers, then Set Well

SUMMARY: Earth Boring: 15'

Rock Coring:

Samples: 8

HOLE # MW-2

GREEN MOUNTAIN BORING
 PO Box 218 ° East Barre, Vermont 05649 ° 802 476-5073

TO: Malter Consulting Inc. ATTN: John Malter P O. Box 176 Waterbury, VT 05676	PROJECT NAME: Killington Wells Killington Vehicle Maintenance	SHEET: 12
	LOCATION: Sherburne, Vermont	DATE: 11/02/98
	GMB JOB #: 98115	HOLE #: MW-3
		LINE & STA. OFFSET: None

Ground Water Observations At 12' at 0 Hours	Augers-Size I.D. 4.25" Split Spoon 13/8" Hammer Wt. 140# Hammer Fall 30"	Surface Elev.: Date Started: 11/02/98 Date Completed: 11/02/98 Boring Foreman: Ronald Garneau Inspector: John Malter Soils Engineer:
--	---	---

LOCATION OF BORING:

Depth	Casing Blows Per Foot	Sample Depths From/To	Type of Sample	Blows per 6" on Sampler	Moisture Density or Consist.	Strata Change Elev.	Soil Identification	Sample		
								No.	Pen.	Rec.
	Offset: 8'; 6'; 6'; 5'	0'-2'	D	2/5/4/4	Damp		Silty fine to coarse sand and gravel	1	24"	6"
		2'-4'	D	13/10/20/10	Damp		Silty fine to coarse sand and gravel	2	24"	8"
		4'-6'	D	4/2/6/2	Wet		Silt with some fine sand and organics	3	24"	10"
		6'-8'	D	10/13/8/8	Wet		Silty fine sand	4	24"	8"
	New Hole	8'-10'	D	15/15/12/15	Dry		Fine to coarse silty sand and gravel	5	24"	18"
		10'-12'	D	8/10/6/5	Wet		Fine to coarse silty sand and gravel	6	24"	16"
		12'-14'	D	12/10/8/9	Wet		Fine to coarse silty sand and gravel	7	24"	12"
		14'-16'	D	12/15/19/19	N/R		No Recovery	8	24"	0"
		16'-18'	D	11/19/8/10	Wet		Silt with some fine sand, trace fine gravel	9	24"	3"
							<u>SET WELL @ 18'</u> 15' .020 Screen 7' Riser 4 Bags Silica 1 Bag chips 1 Cone cap 1 Top plug Stand-up casing			

Ground Surface to 18'

Used 4.25" Augers, then Set Well

SUMMARY: Earth Boring: Rock Coring: Samples: **HOLE # MW-3**

Sample Type Definitions: D = Dry C = Cored W = Washed UT = Undisturbed Thinwall

GREEN MOUNTAIN BORING
 PO Box 218 ° East Barre, Vermont 05649 ° 802 476-5073

TO: Malter Consulting Inc. ATTN: John Malter P O. Box 176 Waterbury, VT 05676	PROJECT NAME: Killington Wells	SHEET: 10
	LOCATION: Killington Vehicle Maintenance Sherburne, Vermont 98115	DATE: 10/30/98
	GMB JOB #:	HOLE #: MW-5 LINE & STA. OFFSET: None

Ground Water Observations None at 0 Hours	Augers-Size I.D. 4.25"	Surface Elev.:
	Split Spoon 13/8"	Date Started: 10/30/98
	Hammer Wt. 140#	Date Completed: 10/30/98
	Hammer Fall 30"	Boring Foreman: Ronald Garneau
		Inspector: John Malter
		Soils Engineer:

LOCATION OF BORING:

Depth	Casing Blows Per Foot	Sample Depths From/To	Type of Sample	Blows per 6" on Sampler	Moisture Density or Consist.	Strata Change Elev.	Soil Identification	Sample		
								No.	Pen.	Rec.
		0'-2'	D	1/8/1/2	Damp		Very fine silty sand with some medium and coarse sand and gravel mottled	1	24"	10"
		5'-7'	D	100 for 2"	Dry		Till and stone	2	2"	2"
		0'-2'	D	2/1/2/2			Till and stone			
		2'-4'	D	8/3/7/6			Till and stone			
		4'-6'	D	100 for 3"			Till and stone			
							Auger refusal @ 5'			

Ground Surface to 5'

Used 4.25" Augers, then End of hole

SUMMARY: Earth Boring: Rock Coring: Samples: **HOLE # MW-5**

APPENDIX B



ANALYTICAL REPORT

P.O. Box 339
Randolph, Vermont 05060-0339
(802) 728-6313
(802) 728-6044 (fax)
<http://www.scitestlabs.com>

Malter Consulting Inc.
Thatcher Brook Road
Waterbury Center, VT 05677

Mr. John Malter

Work Order No.: 9811-04073

Project Name: Killington VMG & Bear Mountain MG
Customer Nos.: 070321

Date Received: 11/09/98
Date Reported: 12/10/98

Sample Desc.: Killington VMG, MW-1	Method	Results	Units	Analyst	Analysis Date
Sample Nos: 001					
Test Performed					
Volatiles	EPA 8260B			RJS	11/13/98
Dichlorodifluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Vinyl chloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Bromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Trichlorofluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Diethyl ether	EPA 8260B	< 5.0	ug/L	RJS	11/13/98
Iodomethane	EPA 8260B	< 10	ug/L	RJS	11/13/98
Acetone	EPA 8260B	< 10	ug/L	RJS	11/13/98
Carbon disulfide	EPA 8260B	< 10	ug/L	RJS	11/13/98
Methylene chloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Methyl tertiary Butyl Ether	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
trans-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Acrylonitrile	EPA 8260B	< 20	ug/L	RJS	11/13/98
1,1-Dichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Vinyl acetate	EPA 8260B	< 20	ug/L	RJS	11/13/98
cis-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Butanone (MEK)	EPA 8260B	< 10	ug/L	RJS	11/13/98
Bromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloroform	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Tetrahydrofuran	EPA 8260B	< 10	ug/L	RJS	11/13/98
1,1,1-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Carbon tetrachloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Benzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Trichloroethene (TCE)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Dibromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Bromodichloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98

Sample Date: 11/06/98

Collection Time: 9:18

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG
Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-1	Method	Results	Units	Analyst	Analysis Date
Sample Nos: 001					
Test Performed					
2-Chloroethyl vinyl ether	EPA 8260B	< 20	ug/L	RJS	11/13/98
cis-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
4-Methyl-2-pentanone (MIBK)	EPA 8260B	< 10	ug/L	RJS	11/13/98
Toluene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
trans-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,2-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Tetrachloroethene (PCE)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,3-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Hexanone	EPA 8260B	< 10	ug/L	RJS	11/13/98
Dibromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dibromoethane (EDB)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,1,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Ethylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Xylenes-m,p	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
o-Xylene	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
Styrene	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
Bromoform	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Isopropylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Bromobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2,3-Trichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,2,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
trans-1,4-Dichloro-2-butene	EPA 8260B	< 20	ug/L	RJS	11/13/98
n-Propylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Chlorotoluene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
4-Chlorotoluene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,3,5-Trimethylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
tert-Butylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2,4-Trimethylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
sec-Butylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,3-Dichlorobenzene (meta)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,4-Dichlorobenzene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
p-Isopropyltoluene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dichlorobenzene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
n-Butylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dibromo-3-chloropropane	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
1,2,4-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Hexachlorobutadiene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Naphthalene	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
1,2,3-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG

Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-1		Sample Date: 11/06/98			
Sample Nos: 001		Collection Time: 9:18			
Test Performed	Method	Results	Units	Analyst	Analysis Date
Surrogate:					
***Dibromofluoromethane		98	% Recovery	RJS	11/13/98
***Toluene-d8		63	% Recovery	RJS	11/13/98
***Bromofluorobenzene		92	% Recovery	RJS	11/13/98
TPH, Estimated - Water	MODIFIED8100 GC/FID	< 1.5	mg/L	JPM	11/24/98

Sample Desc.: Killington VMG, MW-2		Sample Date: 11/06/98			
Sample Nos: 002		Collection Time: 10:53			
Test Performed	Method	Results	Units	Analyst	Analysis Date
Volatiles	EPA 8260B			RJS	11/13/98
Dichlorodifluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Vinyl chloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Bromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Trichlorofluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Diethyl ether	EPA 8260B	< 5.0	ug/L	RJS	11/13/98
Iodomethane	EPA 8260B	< 10	ug/L	RJS	11/13/98
Acetone	EPA 8260B	106	ug/L	RJS	11/13/98
Carbon disulfide	EPA 8260B	< 10	ug/L	RJS	11/13/98
Methylene chloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Methyl tertiary Butyl Ether	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
trans-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Acrylonitrile	EPA 8260B	< 20	ug/L	RJS	11/13/98
1,1-Dichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Vinyl acetate	EPA 8260B	< 20	ug/L	RJS	11/13/98
cis-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Butanone (MEK)	EPA 8260B	16	ug/L	RJS	11/13/98
Bromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloroform	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Tetrahydrofuran	EPA 8260B	< 10	ug/L	RJS	11/13/98
1,1,1-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Carbon tetrachloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Benzene	EPA 8260B	8.4	ug/L	RJS	11/13/98
1,2-Dichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Trichloroethene (TCE)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG
Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-2	Method	Results	Units	Analyst	Analysis Date
Sample Nos: 002					
Test Performed					
1,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Dibromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Bromodichloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Chloroethyl vinyl ether	EPA 8260B	< 20	ug/L	RJS	11/13/98
cis-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
4-Methyl-2-pentanone (MIBK)	EPA 8260B	< 10	ug/L	RJS	11/13/98
Toluene	EPA 8260B	12	ug/L	RJS	11/13/98
trans-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,2-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Tetrachloroethene (PCE)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,3-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Hexanone	EPA 8260B	< 10	ug/L	RJS	11/13/98
Dibromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dibromoethane (EDB)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,1,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Ethylbenzene	EPA 8260B	41	ug/L	RJS	11/13/98
Xylenes-m,p	EPA 8260B	52	ug/L	RJS	11/13/98
o-Xylene	EPA 8260B	1.9	ug/L	RJS	11/13/98
Styrene	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
Bromoform	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Isopropylbenzene	EPA 8260B	21	ug/L	RJS	11/13/98
Bromobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2,3-Trichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,2,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
trans-1,4-Dichloro-2-butene	EPA 8260B	< 20	ug/L	RJS	11/13/98
n-Propylbenzene	EPA 8260B	71	ug/L	RJS	11/13/98
2-Chlorotoluene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
4-Chlorotoluene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,3,5-Trimethylbenzene	EPA 8260B	51	ug/L	RJS	11/13/98
tert-Butylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2,4-Trimethylbenzene	EPA 8260B	201	ug/L	RJS	11/13/98
sec-Butylbenzene	EPA 8260B	4.3	ug/L	RJS	11/13/98
1,3-Dichlorobenzene (meta)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,4-Dichlorobenzene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
p-Isopropyltoluene	EPA 8260B	8.4	ug/L	RJS	11/13/98
1,2-Dichlorobenzene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
n-Butylbenzene	EPA 8260B	6.1	ug/L	RJS	11/13/98
1,2-Dibromo-3-chloropropane	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
1,2,4-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG
Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-2				Sample Date: 11/06/98	
Sample Nos: 002				Collection Time: 10:53	
Test Performed	Method	Results	Units	Analyst	Analysis Date
Hexachlorobutadiene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Naphthalene	EPA 8260B	67	ug/L	RJS	11/13/98
1,2,3-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Surrogate:					
***Dibromofluoromethane		96	% Recovery	RJS	11/13/98
***Toluene-d8		103	% Recovery	RJS	11/13/98
***Bromofluorobenzene		103	% Recovery	RJS	11/13/98
TPH, Estimated - Water	MODIFIED8100 GC/FID1.8		mg/L	JPM	11/24/98

Sample Desc.: Killington VMG, MW-3				Sample Date: 11/06/98	
Sample Nos: 003				Collection Time: 11:44	
Test Performed	Method	Results	Units	Analyst	Analysis Date
Volatiles	EPA 8260B			RJS	11/13/98
Dichlorodifluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Vinyl chloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Bromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Trichlorofluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Diethyl ether	EPA 8260B	< 5.0	ug/L	RJS	11/13/98
Iodomethane	EPA 8260B	< 10	ug/L	RJS	11/13/98
Acetone	EPA 8260B	133	ug/L	RJS	11/13/98
Carbon disulfide	EPA 8260B	< 10	ug/L	RJS	11/13/98
Methylene chloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Methyl tertiary Butyl Ether	EPA 8260B	245	ug/L	RJS	11/13/98
trans-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Acrylonitrile	EPA 8260B	< 20	ug/L	RJS	11/13/98
1,1-Dichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Vinyl acetate	EPA 8260B	< 20	ug/L	RJS	11/13/98
cis-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Butanone (MEK)	EPA 8260B	21	ug/L	RJS	11/13/98
Bromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chloroform	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Tetrahydrofuran	EPA 8260B	< 10	ug/L	RJS	11/13/98
1,1,1-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Carbon tetrachloride	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG
 Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-3				Sample Date: 11/06/98	
Sample Nos: 003				Collection Time: 11:44	
Test Performed	Method	Results	Units	Analyst	Analysis Date
Benzene	EPA 8260B	443	ug/L	RJS	11/13/98
1,2-Dichloroethane	EPA 8260B	6.3	ug/L	RJS	11/13/98
Trichloroethene (TCE)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Dibromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Bromodichloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Chloroethyl vinyl ether	EPA 8260B	< 20	ug/L	RJS	11/13/98
cis-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
4-Methyl-2-pentanone (MIBK)	EPA 8260B	< 10	ug/L	RJS	11/13/98
Toluene	EPA 8260B	414	ug/L	RJS	11/13/98
trans-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,2-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Tetrachloroethene (PCE)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,3-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
2-Hexanone	EPA 8260B	< 10	ug/L	RJS	11/13/98
Dibromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2-Dibromoethane (EDB)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Chlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,1,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Ethylbenzene	EPA 8260B	513	ug/L	RJS	11/13/98
Xylenes-m,p	EPA 8260B	742	ug/L	RJS	11/13/98
o-Xylene	EPA 8260B	117	ug/L	RJS	11/13/98
Styrene	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
Bromoform	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Isopropylbenzene	EPA 8260B	20	ug/L	RJS	11/13/98
Bromobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2,3-Trichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,1,2,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
trans-1,4-Dichloro-2-butene	EPA 8260B	< 20	ug/L	RJS	11/13/98
n-Propylbenzene	EPA 8260B	45	ug/L	RJS	11/13/98
2-Chlorotoluene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
4-Chlorotoluene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,3,5-Trimethylbenzene	EPA 8260B	208	ug/L	RJS	11/13/98
tert-Butylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,2,4-Trimethylbenzene	EPA 8260B	39	ug/L	RJS	11/13/98
sec-Butylbenzene	EPA 8260B	2.1	ug/L	RJS	11/13/98
1,3-Dichlorobenzene (meta)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
1,4-Dichlorobenzene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
p-Isopropyltoluene	EPA 8260B	3.2	ug/L	RJS	11/13/98
1,2-Dichlorobenzene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/13/98

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG
Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-3				Sample Date: 11/06/98	
Sample Nos: 003				Collection Time: 11:44	
Test Performed	Method	Results	Units	Analyst	Analysis Date
n-Butylbenzene	EPA 8260B	2.7	ug/L	RJS	11/13/98
1,2-Dibromo-3-chloropropane	EPA 8260B	< 2.0	ug/L	RJS	11/13/98
1,2,4-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Hexachlorobutadiene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Naphthalene	EPA 8260B	198	ug/L	RJS	11/13/98
1,2,3-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/13/98
Surrogate:					
***Dibromofluoromethane		108	% Recovery	RJS	11/13/98
***Toluene-d8		114	% Recovery	RJS	11/13/98
***Bromofluorobenzene		104	% Recovery	RJS	11/13/98
TPH, Estimated - Water	MODIFIED8100 GC/FID8.2		mg/L	JPM	11/24/98

Sample Desc.: Killington VMG, MW-4				Sample Date: 11/06/98	
Sample Nos: 004				Collection Time: 12:20	
Test Performed	Method	Results	Units	Analyst	Analysis Date
Volatiles	EPA 8260B			RJS	11/18/98
Dichlorodifluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Chloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Vinyl chloride	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Bromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Chloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Trichlorofluoromethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,1-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Diethyl ether	EPA 8260B	< 5.0	ug/L	RJS	11/18/98
Iodomethane	EPA 8260B	< 10	ug/L	RJS	11/18/98
Acetone	EPA 8260B	< 10	ug/L	RJS	11/18/98
Carbon disulfide	EPA 8260B	< 10	ug/L	RJS	11/18/98
Methylene chloride	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Methyl tertiary Butyl Ether	EPA 8260B	211	ug/L	RJS	11/18/98
trans-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Acrylonitrile	EPA 8260B	< 20	ug/L	RJS	11/18/98
1,1-Dichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Vinyl acetate	EPA 8260B	< 20	ug/L	RJS	11/18/98
cis-1,2-Dichloroethene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
2,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
2-Butanone (MEK)	EPA 8260B	< 10	ug/L	RJS	11/18/98
Bromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Chloroform	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Tetrahydrofuran	EPA 8260B	< 10	ug/L	RJS	11/18/98

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG
Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-4	Method	Results	Units	Analyst	Analysis Date
Sample Date: 11/06/98					
Collection Time: 12:20					
Sample Nos: 004					
Test Performed					
1,1,1-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Carbon tetrachloride	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,1-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Benzene	EPA 8260B	47	ug/L	RJS	11/18/98
1,2-Dichloroethane	EPA 8260B	1.1	ug/L	RJS	11/18/98
Trichloroethene (TCE)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,2-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Dibromomethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Bromodichloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
2-Chloroethyl vinyl ether	EPA 8260B	< 20	ug/L	RJS	11/18/98
cis-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
4-Methyl-2-pentanone (MIBK)	EPA 8260B	< 10	ug/L	RJS	11/18/98
Toluene	EPA 8260B	0.9	ug/L	RJS	11/18/98
trans-1,3-Dichloropropene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,1,2-Trichloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Tetrachloroethene (PCE)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,3-Dichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
2-Hexanone	EPA 8260B	< 10	ug/L	RJS	11/18/98
Dibromochloromethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,2-Dibromoethane (EDB)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Chlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,1,1,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Ethylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Xylenes-m,p	EPA 8260B	< 2.0	ug/L	RJS	11/18/98
o-Xylene	EPA 8260B	< 2.0	ug/L	RJS	11/18/98
Styrene	EPA 8260B	< 2.0	ug/L	RJS	11/18/98
Bromoform	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Isopropylbenzene	EPA 8260B	0.9	ug/L	RJS	11/18/98
Bromobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,2,3-Trichloropropane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,1,2,2-Tetrachloroethane	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
trans-1,4-Dichloro-2-butene	EPA 8260B	< 20	ug/L	RJS	11/18/98
n-Propylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
2-Chlorotoluene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
4-Chlorotoluene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,3,5-Trimethylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
tert-Butylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,2,4-Trimethylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
sec-Butylbenzene	EPA 8260B	1.0	ug/L	RJS	11/18/98
1,3-Dichlorobenzene (meta)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98

ANALYTICAL REPORT

Project Name: Killington VMG & Bear Mountain MG
 Project No.: 070321

Work Order No.: 9811-04073

Sample Desc.: Killington VMG, MW-4

Sample Date: 11/06/98

Sample Nos: 004

Collection Time: 12:20

Test Performed	Method	Results	Units	Analyst	Analysis Date
1,4-Dichlorobenzene (para)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
p-Isopropyltoluene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,2-Dichlorobenzene (ortho)	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
n-Butylbenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
1,2-Dibromo-3-chloropropane	EPA 8260B	< 2.0	ug/L	RJS	11/18/98
1,2,4-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Hexachlorobutadiene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Naphthalene	EPA 8260B	< 2.0	ug/L	RJS	11/18/98
1,2,3-Trichlorobenzene	EPA 8260B	< 1.0	ug/L	RJS	11/18/98
Surrogate:					
***Dibromofluoromethane		88	% Recovery	RJS	11/18/98
***Toluene-d8		89	% Recovery	RJS	11/18/98
***Bromofluorobenzene		93	% Recovery	RJS	11/18/98
TPH, Estimated - Water	MODIFIED8100 GC/FID	< 1.5	mg/L	JPM	11/24/98



ANALYTICAL REPORT

P.O. Box 339
Randolph, Vermont 05060-0339
(802) 728-6313
(802) 728-6044 (fax)
<http://www.scitestlabs.com>

Malter Consulting Inc.
Thatcher Brook Road
Waterbury Center, VT 05677

Mr. John Malter

Work Order No.: 9811-03986

Project Name: VEH. MT - TPH Analysis
Customer Nos.: 070321

Date Received: 11/02/98
Date Reported: 12/03/98

Sample Desc.: VEH. MT, MW-5 (0-2', 2-4', 4-6')

Sample Nos: 001

Test Performed
TPH, Estimated - Soil

Method
MODIFIED 8100 GC/FID< 10

Units
mg/kg

Sample Date: 10/30/98

Collection Time: 13:40

Analyst
JPM

Analysis Date
12/02/98

NOTE: TPH screen with Freon extraction and quantification as diesel fuel.

Authorized by: *Deborah P. Amato*